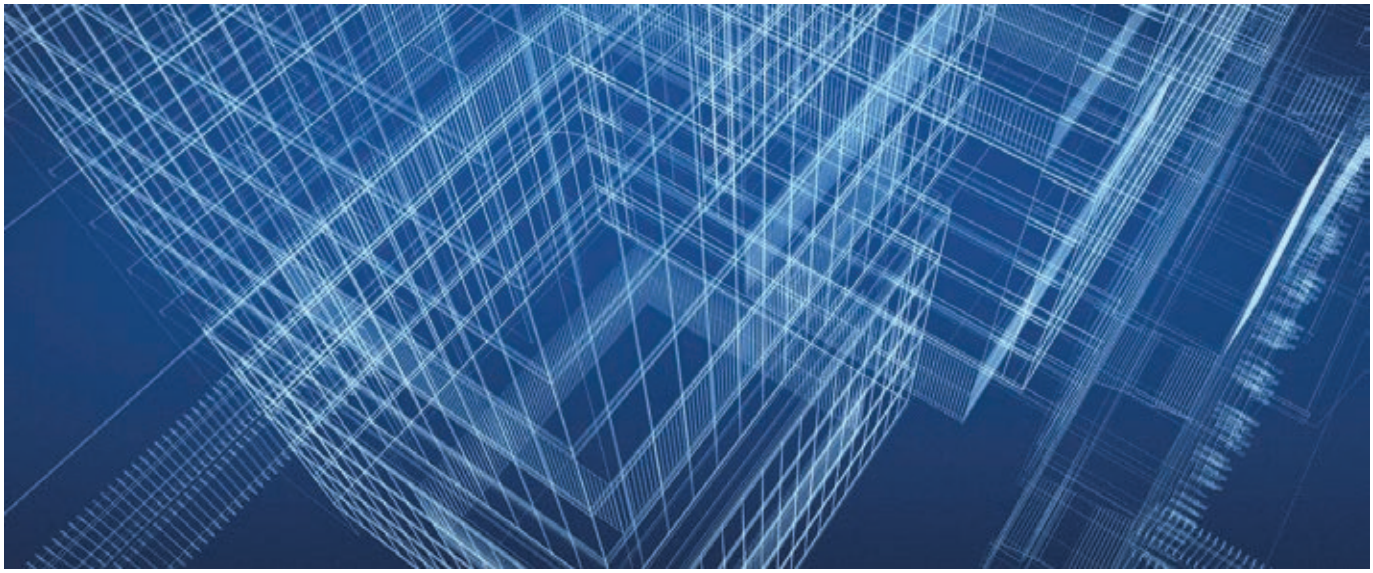
Product Catalog



Daikin Applied performance and physical data

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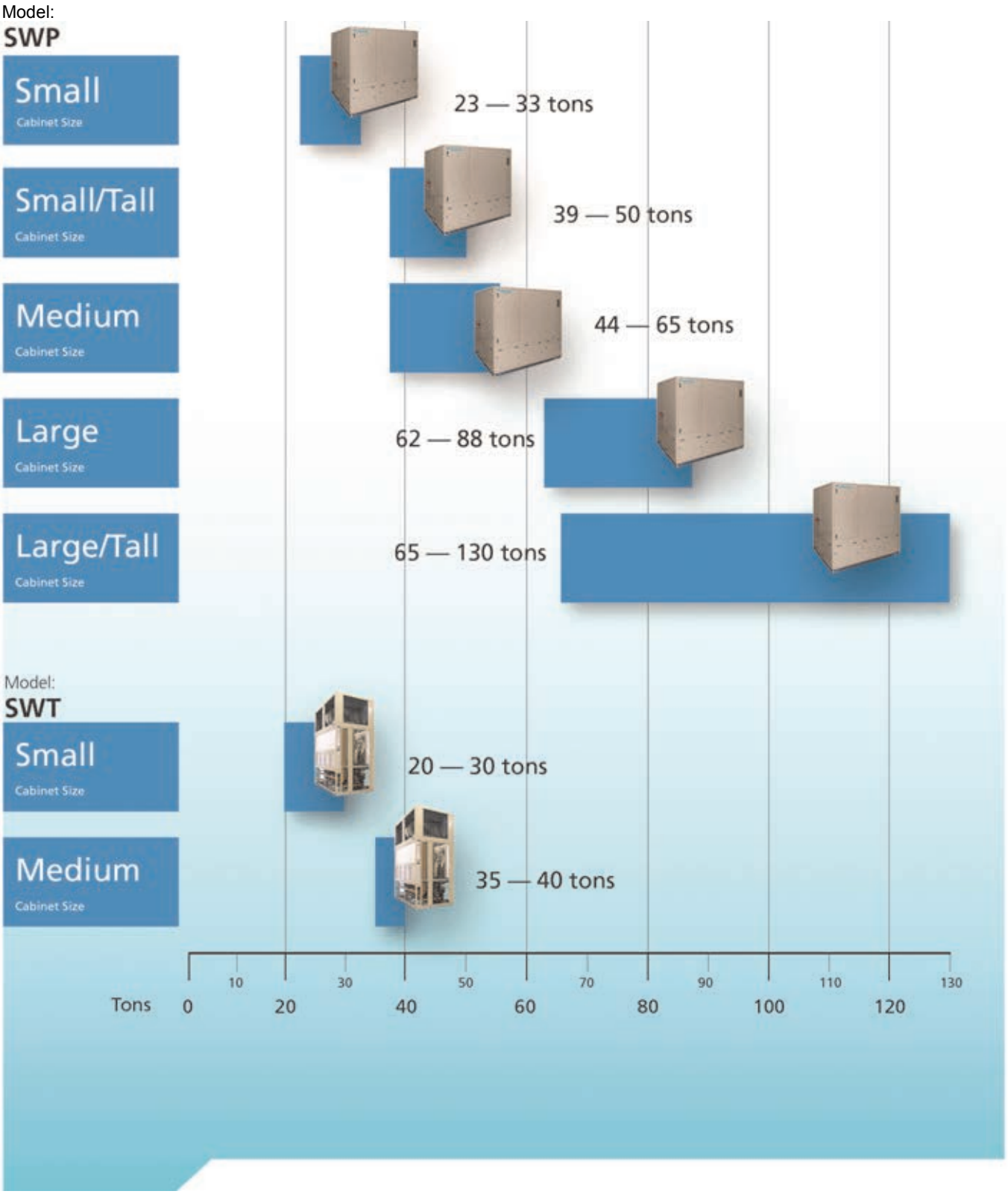

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Model: SWP

Product Specifications

Tons	Cabinet Size	Compressor Per Circuit	Max Fan Diameter (in.)	Cabinet			DX Area (sq.ft.)
				Height (in.)	Width (in.)	Depth (in.)	
023	Small	6.0 / 15.0	24.5	80	84	80	17.2/25.2
028	Small	10.0 / 15.0	24.5	80	84	80	17.2/25.2
033	Small	15.0 / 15.0	24.5	80	84	80	17.2/25.2
039	Small/Tall	10.0 / 10.0 / 15.0	27.0	84	84	80	25.2/29.8
044	Small/Tall	10.0 / 15.0 / 15.0	27.0	84	84	80	25.2/29.8
050	Small/Tall	15.0 / 15.0 / 15.0	27.0	84	84	80	29.8
044	Medium	10.0 / 15.0 / 15.0	36.5	96	102	88	40.8
050	Medium	15.0 / 15.0 / 15.0	36.5	96	102	88	40.8/45.2
056	Medium	13.0 / 13.0 / 13.0 / 13.0	36.5	96	102	88	40.8/45.2
062	Medium	13.0 / 13.0 / 15.0 / 15.0	36.5	96	102	88	40.8/45.2
065	Medium	15.0 / 15.0 / 15.0 / 15.0	36.5	96	102	88	40.8/45.2
062	Large	13.0 / 13.0 / 15.0 / 15.0	36.5	96	126	88	52.5
073	Large	10.0 / 10.0 / 10.0 / 10.0 / 13.0 / 13.0	36.5	96	126	98	52.5
080	Large	10.0 / 10.0 / 13.0 / 13.0 / 13.0 / 13.0	36.5	96	126	98	52.5
088	Large	13.0 / 13.0 / 13.0 / 13.0 / 13.0 / 13.0	36.5	96	126	98	52.5
065	Large/Tall	15.0 / 15.0 / 15.0 / 15.0	44.0	112	126	98	60.9
073	Large/Tall	10.0 / 10.0 / 10.0 / 10.0 / 13.0 / 13.0	44.0	112	126	98	60.9
080	Large/Tall	10.0 / 10.0 / 13.0 / 13.0 / 13.0 / 13.0	44.0	112	126	98	60.9
088	Large/Tall	13.0 / 13.0 / 13.0 / 13.0 / 13.0 / 13.0	44.0	112	126	98	60.9
099	Large/Tall	15.0 / 15.0 / 15.0 / 15.0 / 15.0 / 15.0	44.0	112	126	98	60.9/71.3
105	Large/Tall	13.0 / 13.0 / 13.0 / 13.0 / 13.0 / 13.0 / 13.0 / 13.0	44.0	112	126	106	60.9/71.3
120	Large/Tall	13.0 / 13.0 / 13.0 / 13.0 / 15.0 / 15.0 / 15.0 / 15.0	44.0	112	126	106	60.9/71.3
130	Large/Tall	15.0 / 15.0 / 15.0 / 15.0 / 15.0 / 15.0 / 15.0 / 15.0	44.0	112	126	106	60.9/71.3

Available in Small/Tall or Medium cabinet sizes.

Available in Medium, Large or Large/Tall cabinet sizes.

Available in Large or Large/Tall cabinet sizes.

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Model: SWT

Product Specifications

Data	SWT Model Size				
	018C	023C	028C	035C	040C
Dimensions					
Depth,	52.00	52.00	52.00	52.00	52.00
Length[1, 2]	84.00	84.00	84.00	100.00	100.00
Height[1, 2]	122.75	112.75	112.75	112.75	112.75
Compressor					
Quantity	4	4	4	4	4
Evaporator Coil					
Face area (ft^2)	11.8	15.3	18.9	23.3	26.3
Rows	4, 6	4, 6	4, 6	4, 6	4, 6
FPI	12	12	12	12	12
Waterside Economizer Coil					
Face area (ft^2)	11.8	15.3	18.9	23.3	26.3
Rows	4	4	4	4	4
FPI	12	12	12	12	12
Maximum working pressure (psig)	400	400	400	400	400
Hot Water Heating Coil					
Face area (ft^2)	9.3	12.8	16.3	20.2	23.8
Rows	1, 2	1, 2	1, 2	1, 2	1, 2
FPI	12	12	12	12	12
Electric Heat					
kW	34	34	34	34	34
Filters					
(Quantity) size 4" depth filter	(3) 20 × 20, (2) 25 × 20, (4) 16 × 25	(3) 20 × 20, (2) 25 × 20, (4) 16 × 25	(3) 20 × 20, (2) 25 × 20, (4) 16 × 25	(5) 20 × 20, (5) 25 × 20	(5) 20 × 20, (5) 25 × 20
Evaporator Fan[3]					
Quantity	1	1	1	2	2
Size	15	18	18	15	15
Minimum horsepower	5	7.5	10	10	15
Maximum horsepower	10	15	20	20	25
Minimum design CFM, CV	2950	3825	4725	5825	6575
Minimum design CFM, VAV	4720	6120	7560	9320	10,520
Maximum design CFM	7080	9180	11,340	13,980	15,780
Condensers					
Waterside working pressure (psig)	400	400	400	400	400
Minimum entering temperature (°F) mechanical cooling	55	55	55	55	55
Minimum GPM	25	41	53	66	69
Maximum GPM	88	108	125	159	166

1. Dimensions do not include lifting lugs, handle, latch, or fastener extensions.
2. For shipping dimensions add 4" (102mm) to depth, 8" (204mm) to length, and 4" (102mm) to height.
3. Standard fan TSP limit is 5.5 inches of water. Consult your local Daikin Sales Representative for applications beyond this range.

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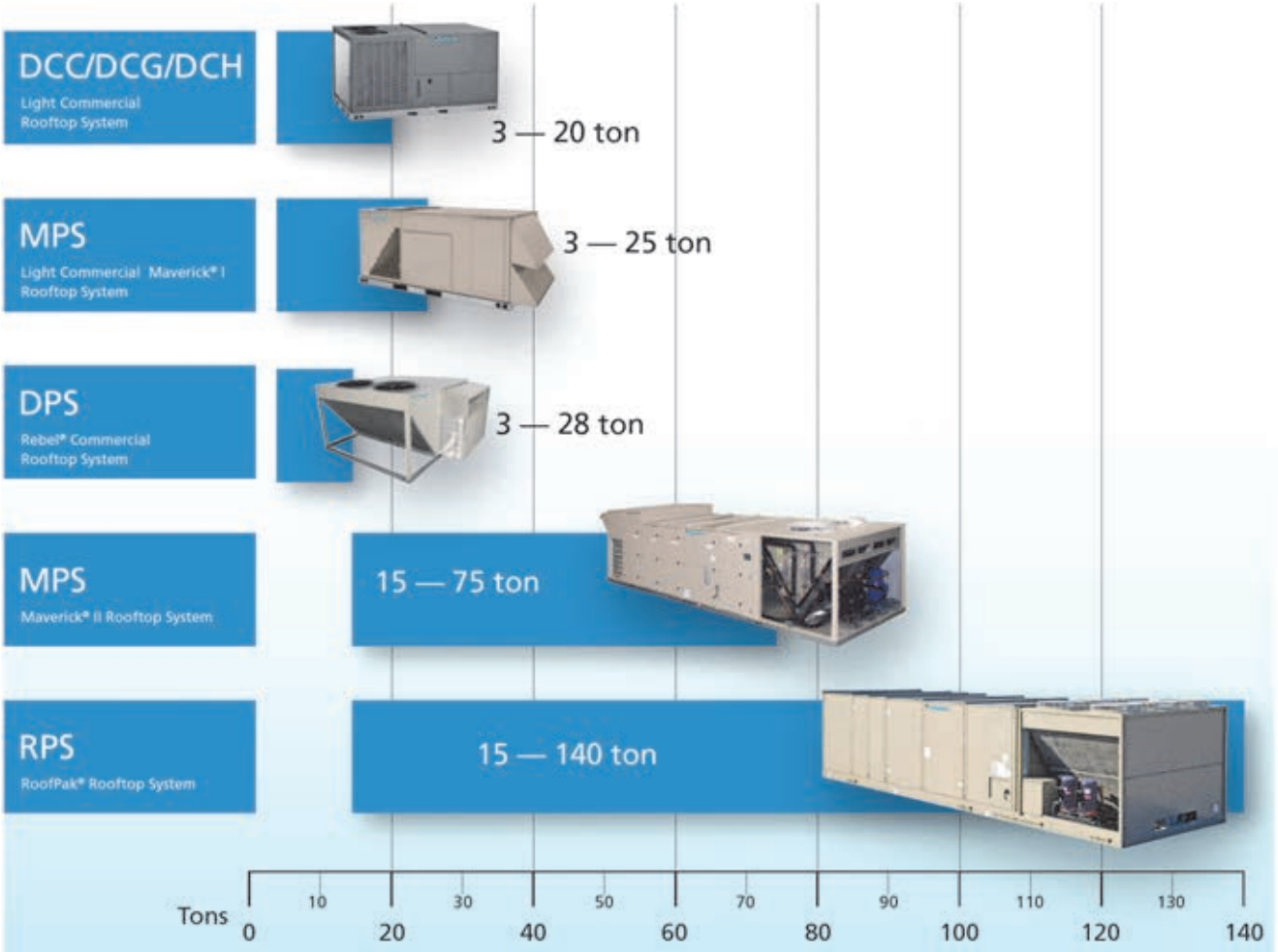
Packaged Rooftop Systems

Product Summary Chart

Model:



Rebel, Maverick II and RoofPak rooftop systems are ideal for 100% make up air applications. Units can be equipped with 100° temperature-rise furnaces for cold-weather climates, modulating hot gas reheat to increase occupant comfort and avoid over-cooling and energy recovery wheels to save energy.

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Light Commercial Rooftop Systems

Product Specifications-DCC 036 through 072

	Three Phase			
	DCC036	**DCC048**	**DCC060**	**DCC072**
Cooling Capacity				
Total BTU/h	34,600	45,500	59,500	71,000
Sensible BTU/h	25,600	35,000	42,800	49,800
SEER/EER (EER/IEER for 072)	13.0/11.0	13.0/11.3	13.0/11.1	11.2/11.4
Decibels	78			
Heating Capacity				
Motor Type	Belt-drive			
Indoor Nominal CFM	1,200	1,600	2,000	2,300
Horsepower–RPM	1.0[1,2]			1.5[1]
Filter Size (Quantity)	(1) 24" × 24" × 2"	(4) 14" × 20" × 2"	(4) 14" × 20" × 2"	(4) 16" × 20" × 2"
Drain Size (NPT)	3/4"			
Evaporator Coil Face Area (ft^2)	5.4	7.0	7.8	8.9
Expansion Device	Orifice			
Rows Deep/Fins per inch	3/16	4/16		
Evaporator Fan				
Standard Direct-drive (D × W)/hp	—			
Standard Belt-drive (D × W)/hp	(11" × 10") 1[2]			(11" × 10") 1-1/2
High-Static Belt-drive (D × W)/hp	1-1/2			2.0
Maximum External Static Pressure (In. W.C.)	1.2/1.8			1.2/2.0
Number of Wheels (D × W)	1 (11" × 10")			
Motor Sheave	1VL40 × 5/8	VL44 × 5/8		VL44 × 7/8
Blower Sheave/Belt	AK69 × 1/AX52	AK66 × 1/AX52	AK61 × 1/AX52	AK59 × 1/AX53
Condenser Fan/Coil				
Condenser Fan Motors (Quantity)	1			
Horsepower-RPM	1/4/1,0903			1/3/1,075
Fan Diameter/Number of Blades	22/4			
Outdoor Nominal CFM	3,800			4,200
Face Area (ft^2)	17.0		13.0	19.0
Rows Deep/Fins per Inch	1/24		2/27	2/27
Compressor				
Quantity/Type	1/Scroll			
Stage	Single			
Unit Weights				
Operating Weight (lbs)	500	535	580	625
Shipping Weight (lbs)	525	560	595	650

Note:
1. Evaporator Fan motor RPM varies for unit size and voltage between 1,000–1,725 RPM.
2. 1-1/2 Standard Belt-drive Fan Motor for 575 V units.
3. Condenser Fan Motor RPM varies for unit size and voltage between 890–1,090 RPM.

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Light Commercial Rooftop Systems

Product Specifications-DCG 036 through 072

	Three Phase						
	DCG036		DCG048		DCG060		DCG072
Cooling Capacity							
Total BTU/h	34,600		45,500		59,500		71,000
Sensible BTU/h	25,600		35,000		42,800		49,800
SEER/EER (EER/IEER for 072)	13.0/11.0		13.0/11.3		13.0/11.1		11.0/11.2
Decibels	78						
Heating Capacity							
Furnace Sizes	45	90	90	115	90	138	138
Number of Stages	1	2	2		2		2
Number of Burners	2	4	4	5	4	6	6
High Input/Output (kBTU/h)	46.0/36.8	92.0/74.0	92.0/74.0	115.0/92.0	92.0/74.0	138.0/110.4	138.0/110.4
Low Input/Output (kBTU/h)	—	69.0/55.0	69.0/55.0	86.25/69.0	69.0/55.0	103.0/83.0	103.0/83.0
Steady State Efficiency (AFUE)	80						
High Temperature Rise Range (°F)	25–55	40–70	30–60	40–70	20–50	35–65	30–65
Low Temperature Rise Range (°F)	—	30–60	15–45	25–55	15–45	25–55	15–45
Evaporator Motor/Coil							
Motor Type	Belt-drive						
Indoor Nominal CFM	1,200		1,600		1,900		2,350
Horsepower–RPM	1/3–890		1/2–1,000		—		1.5–1,725
Number of Wheels (D × W)	1 (10" × 9")				1 (11" × 10")		
Piston Size (Cooling)	0.072		0.076		0.086		0.094
Filter Size (Quantity)	(1) 24" × 24" × 2"		(4) 14" × 20" × 2"				(4) 16" × 20" × 2"
Drain Size (NPT)	3/4"						
Evaporator Coil Face Area (ft^2)	5.4		7.0		7.8		8.9
Expansion Device	Orifice						
Rows Deep/Fins per inch	4/16						
Evaporator Fan							
Standard Belt-drive (D × W)/hp	(11" × 10") 1[1,2,4]						
High-Static Belt-drive (D × W)/hp	1.5						
Maximum External Static Pressure (In.W.C.) Standard/High Static Units	1.2/1.8						1.2/2.0
Number of Wheels (D × W)	1 (11" × 10")						
Motor Sheave	VL40 × 5/8		VL44 × 5/8		VL44 × 5/8		VL44 × 7/8
Blower Sheave/Belt	AK69 × 1/AX52		AK66 × 1/AX52		AK61 × 1/AX53		AK59 × 1/AX53
Condenser Fan/Coil							
Condenser Fan Motors (Quantity)	1						
Horsepower-RPM	1/4/1,090						1/3/1,075
Fan Diameter/Number of Blades	22/4						
Outdoor Nominal CFM	3,800						4,300
Face Area (ft^2)	17.0[2]				13.0[4]		19.0[2]
Rows Deep/Fins per Inch	1/24[3]				2/27[3]		
Compressor							
Quantity/Type	1/Scroll						
Stage	Single						
Unit Weights							
Operating Weight (lbs)	525/530		575/580		620/630		675
Shipping Weight (lbs)	550/560		600/605		635/645		700

Note:
1. Evaporator Fan motor RPM varies for unit size and voltage between 1,000–1,725 RPM.
2. Face area for Condenser: 18 sq.ft for 460 V units; 13.0 sq.ft. for 575 V units.
3. Condenser Coil Rows, Deep/FPI: 1/22 for 460V units; 2/16 for 575V units.
4. 1-1/2 hp standard Belt-drive fan motor on 575V units.

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Light Commercial Rooftop Systems

Product Specifications-DCH 036 through 072

	Belt-drive			
	DCH036	**DCH048**	**DCH060**	**DCH072**
Cooling Capacity				
Total BTU/h	35,000	46,000	59,500	70,000
Sensible BTU/h	25,460	34,500	43,200	50,410
SEER/EER (EER/IEER for 072)	13.0/11.0	13.0/11.3	13.0/11.0	11.1/11.2
Decibels	78			
Heating Capacity				
BTU/h–COP* (47°F)	34,600/3.5	45,000/3.5	57,000/3.5	70,000/3.6
BTU/h–COP (17°F)	19,000/2.2	24,800/2.2	32,000/2.2	39,000/2.3
HSPF	7.7			—
Evaporator Motor/Coil				
Motor Type	Belt-drive			
Indoor Nominal CFM	1,200	1,600	1,950	2,400
Horsepower–RPM	1/3–890	1/4–1,000	1–1,050	1.5–1,725
Piston Size (Cooling)	0.068	0.076	0.082	0.094
Filter Size (Quantity)	(1) 24" × 24" × 2"	(4) 14" × 20" × 2"		(4) 16" × 20" × 2"
Drain Size (NPT)	3/4"			
Evaporator Coil Face Area (ft^2)	5.4	7.8		8.9
Expansion Device	Orifice			
Rows Deep/Fins per inch	3/16	4/16		
Evaporator Fan				
Standard Belt-drive (D × W)/hp	(11" × 10") 1[1,2]			(11" x 10") 1-1/2
High-Static Belt-drive (D × W)/hp	1-1/2			2.0
Maximum External Static Pressure (In. W.C.) Standard/High Static Units	1.2/1.8			1.2/2.0
Number of Wheels (D × W)	1 (11" × 10")			—
Motor Sheave	VL40 × 5/8	VL44 × 5/8		VL44 × 7/8
Blower Sheave/Belt	AK69 × 1/AX52	AK66 × 1/AX52	AK61 × 1/AX52	AK59 × 1/AX52
Condenser Fan/Coil				
Condenser Fan Motors (Quantity)	1			
Horsepower-RPM	1/4/1,090[3]			1/3/1,075
Fan Diameter/Number of Blades	22/4			
Outdoor Nominal CFM	3,800			4,300
Face Area (ft^2)	17.0			18.7
Rows Deep/Fins per Inch	1/24	2/18		2/20
Compressor				
Quantity/Type	1/Scroll			
Stage	Single			
Unit Weights				
Operating Weight (lbs)	580	585	590	590
Shipping Weight (lbs)	605	610	615	615

Note: * COP for 575V DCH036 is 3.62.
1. Evaporator Fan motor RPM varies for unit size and voltage between 1,000–1,725 RPM.
2. 1-1/2 Standard Belt-drive Fan Motor for 575 V units.
3. Condenser Fan Motor RPM varies for unit size and voltage between 890–1,090 RPM.

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Light Commercial Rooftop Systems

Product Specifications-DCC 090 through 150

	DCC090	DCC102	DCC120	DCC150
Cooling Capacity				
Total BTU/h	88,000	102,000	116,000	144,000
Sensible BTU/h	65,100	70,380	84,700	100,000
EER/IEER	11.3/11.5	11.3/11.4	11.3/12.8[2]	11.0/11.2
Decibels	82	83		
Evaporator Motor/Coil				
Motor Type	Belt-drive[3]			
Indoor Nominal CFM	3,000	3,200	3,500	3,900
Horsepower-RPM	1.5/1745[1]	1725	2.0/1725	3.0/1725
Piston Size (Cooling)	0.078	0.08	0.086	0.096
Filter Size (Quantity)	(4) 16" × 24" × 2"			(4) 20" × 25" × 2"
Drain Size (NPT)	3/4"			
R-410A Refrigerant Charge (oz.)	100	180	220	175
Evaporator Coil Face Area (ft^2)	8.9		10.2	14.7
Rows Deep/Fins per inch	4/16		4/14	4/15
Evaporator Fan				
Number of Wheels (D × W)	(1) 15" × 12"		(1) 15" × 15"	
Motor Sheave/Blower Sheave	VL40/AK74	VL40/AK74	VL40/AK74	VL40/AK66
Belt	AX51	AX51	AX51	AX49
Condenser Fan/Coil				
Condenser Fan Motors (Quantity)	2			
Horsepower-RPM	1/4/1075	1/4/1075	1/3/1075	
Fan Diameter/Number of Blades	22/4		22/3	
Outdoor Nominal CFM	7,200		8,200	8,400
Face Area (ft^2)	28.8	27	32.4	39.0
Rows Deep/Fins per Inch	2/27	2/22	2/27	2/27
Compressor				
Quantity/Type	2/Scroll			
Stage	2			
Unit Weights				
Operating Weight (lbs)	1010	1050	1050	1225
Shipping Weight (lbs)	1085	1125	1125	1250

1. Evaporator fan motor RPM varies per unit size and voltage between 1725–1745.
2. EER and IEER of one-speed Belt-drive shown.
3. Size 120 and 150 also available in 2-speed Belt-drive.

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Light Commercial Rooftop Systems

Product Specifications-DCG 090 through 150

	DCG090	DCG102	DCG120	DCG150
Cooling Capacity				
Total BTU/h	90,000	102,000	116,000	144,000
Sensible BTU/h	65,100	70,380	84,700	100,000
EER/IEER	11.3/11.5	11.3/11.2	11.3/11.5[2]	10.8/11.0
Decibels	82	83		
Heating Capacity				
High Input/Output kBTU/h	210,000/168,000	210,000/168,000	210,000/168,000	210,000/168,000
Low Input/Output kBTU/h	157,500/126,000	157,500/126,000	157,500/126,000	157,500/126,000
Steady State Efficiency (AFUE)	80			
Temperature Rise Range (°F)	35	35–65	25-55	15–45
Number of Burners	6			
Evaporator Motor/Coil				
Motor Type	Belt-drive[3]			
Indoor Nominal CFM	3,000	3,200	3,500	3,900
Horsepower–RPM	1-1/2 / 1745	1725	2.0–1725	3.0–1725
Piston Size (Cooling)	0.078	0.08	0.086	0.096
Filter Size (Quantity)	16" × 20" × 2"	(4) 16" × 20" × 2"	16" × 24" × 2"	(4) 20" × 25" × 2"
Drain Size (NPT)	3/4"			
R-410A Refrigerant Charge Circuit-1(oz.)(Stg 1/2)	125/125	180	125/125	175/175
Evaporator Coil Face Area (ft^2)	8.9	8.9	10.2	14.7
Rows Deep/Fins per inch	4/16	4/16	4/14	4/15
Belt-drive Evaporator Fan				
Number of Wheels (D × W)	1 (15" × 12")	1 (15" × 12")	1 (15" × 15")	1 (15" × 15")
Motor Sheave/Blower Sheave	VL40/AK74	VL40/AK74	VL40/AK74	VL40/AK66
Belt	AX51	AX51	AX51	AX51
Condenser Fan/Coil				
Condenser Fan Motors (Quantity)	2			
Horsepower–RPM	1/4–1075[3]	1/4–1075	1/3–1075	1/3–1075
Fan Diameter/Number of Blades	22/4	22/4	22/3	22/3
Outdoor Nominal CFM	7,200	7,200	8,200	8,400
Face Area (ft^2)	26.5	13.25	32.4	35.3
Rows Deep/Fins per Inch	2/27	2/22	2/27	2/3–15[4]
Compressor				
Quantity/Type	2/Scroll	2/Scroll	2/Scroll	2/Scroll
Stage	2			
Unit Weights				
Operating Weight (lbs)	1100	1140	1140	1315
Shipping Weight (lbs)	1175	1215	1215	1340

1. Condenser fan motor RPM varies for unit size and voltage between 890–1075 RPM.
2. EER and IEER of one-speed Belt-drive shown.
3. Size 120 and 150 also available in 2-speed Belt-drive.
4. One 2-row and one 3-row coil.

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Light Commercial Rooftop Systems

Product Specifications-DCH 090 through 150

	DCH090	DCH102	DCH120	DCH150
Cooling Capacity				
Total BTU/h	90,000	102,000	116,000	140,000
Sensible BTU/h	65,700	73,440	84,700	98,000
EER/IEER	11.5/11.5	11.1/11.2	11.5/11.5[4]	10.6/10.7
Decibels	83			
Heating Capacity				
BTU/h–COP (47°F)	90,000/3.4	102,000/3.4	120,000/3.4	142,000/3.2
BTU/h–COP (17°F)	55,000/2.4	55,500/2.25	56,000/2.4	82,000/2.1
Evaporator Motor/Coil				
Motor Type	Belt-drive[3]			
Indoor Nominal CFM	3000	3,400	4,000[6]	5,000
Horsepower–RPM	2.0–1725			3.0–1725
Piston Size (Cooling)	0.076	0.08	0.086	0.096
Filter Size (Quantity)	16" × 24" × 2"	(4) 16" × 24" × 2"	16" × 24" × 2"	(4) 20" × 25" × 2"
Drain Size (NPT)	3/4"			
R-410A Refrigerant Charge (oz.)(Ckt1/Ckt2)	215/215	205/205	225/225	290/290
Evaporator Coil Face Area (ft^2)	10.2			14.7
Rows Deep/Fins per inch	4/16	4/14		4/15
Belt-drive Evaporator Fan				
Number of Wheels (D × W)	1 (15" × 12")	1 (15" × 12")	1 (15" × 15")	
Motor Sheave/Blower Sheave	VL40/AK74	VL40/AK74	VL40/AK74	VL40/AK66
Belt	AX51			
Condenser Fan/Coil				
Condenser Fan Motors (Quantity)	2			
Horsepower–RPM	1/4/1,090		1/3/1,075[1]	
Fan Diameter/Number of Blades	22/4		22/3	
Outdoor Nominal CFM	7,600	7,600	7,200	7,200
Face Area (ft^2)	32.4	16.19	32.4	35.3
Rows Deep/Fins per Inch	2/20	2/22	2/20	2 × 3/155
Piston Size (Heating)	0.052	0.059	0.064	0.067
Compressor				
Quantity/Type	2/Scroll			
Stage	2			
Unit Weights				
Operating Weight (lbs)	1135	1285	1285	1325
Shipping Weight (lbs)	1175	1310	1310	1350

1. Condenser fan motor varies per unit size and voltage between 1075–1125 RPM.
2. EER and IEER of 1-speed Belt-drive shown.
3. Size 120 and 150 also available in 2-speed Belt-drive 4. 2-speed Belt-drive indoor nominal CFM is 3500.
5. One 2-row and one 3-row coil.

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Light Commercial Rooftop Systems

Product Specifications-DCC 180 through 240

	DCC180	DCC240
Cooling Capacity		
Total BTU/h	180,000	240,000
Sensible BTU/h	134,600	181,000
EER/IEER	11/11.2	10.0/10.1
Decibels	88	
Evaporator Motor/Coil		
Motor Type	Standard Static Belt-drive	
Number of Speeds	1	
Indoor Nominal CFM	6,000	7,000
Horsepower–RPM	3.0–1725	5.0-1725
Filter Size (Quantity)	(6) 20" × 25" × 2"	
Drain Size (NPT)	1"	
Evaporator Coil Face Area (ft^2)	20	
Expansion Device	TXV	
Rows Deep/Fins per inch	4/16	
Evaporator Fan		
Standard Direct-drive (D × W)	15" × 12"	15" × 15"
High-Static Belt-drive hp	5	7.5
Maximum External Static Pressure (In. W.C.) Standard/High Static Units	1.2/2.0	
Number of Wheels (D × W)	2	
Motor Sheave/Blower Sheave	1VM50 × 7/8"/BK100 × 1-3/16"	1VP60 × 1-1/8"/BK100 × 1-7/16"
Belt	BX45	BX46
Condenser Fan/Coil		
Condenser Fan Motors (Quantity)	3	
Horsepower-RPM	1/3-1075	
Fan Diameter/Number of Blades	22/3	
Outdoor Nominal CFM	9,000	7,200
Face Area (ft^2)	53.3	
Rows Deep/Fins per Inch	2/27	
Compressor		
Quantity/Type	2/Scroll	
Stage	2	
Unit Weights		
Operating Weight (lbs)	1965	2085
Shipping Weight (lbs)	2080	2202

Note: Always check the S&R plate for electrical data on the unit being installed.
1. Wire size should be determined in accordance with National Electric Codes. Extensive wire runs will require larger wire sizes.
2. May use fuses or HACR-type circuit breakers of the same size as noted.

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Light Commercial Rooftop Systems

Product Specifications-DCG 180 through 240

	DCG180	DCG240
Cooling Capacity		
Total BTU/h	180,000	240,000
Sensible BTU/h	127,500	170,000
EER/IEER	10.8/11.0	9.8/10.0
Decibels	88	88.3
Heating Capacity		
Furnace Sizes	350	400
Number of Stages	2	
Number of Burners	7	8
High Input/Output (kBTU/h)	350/280	400/320
Low Input/Output (kBTU/h)	262.5/210.0	300/240
Steady State Efficiency (%)	80	
Temperature Rise High Range (°F)	30-60	25-55
Temperature Rise Low Range (°F)	20-50	15-45
Evaporator Motor/Coil		
Motor Type	Standard Static Belt-drive	
Horsepower-RPM	5.0-1,725	
Indoor Nominal CFM	5,600	7,000
Filter Size (Quantity)	(6) 20" × 25" × 2"	
Drain Size (NPT)	1"	
Evaporator Coil Face Area (ft2)	20	
Expansion Device	TXV	
Rows Deep/Fins per inch	4/16	
Evaporator Fan		
Standard Direct-drive (D × W)	15" × 12"	15" × 15"
High-Static Belt-drive hp	5	7.5
Maximum External Static Pressure (In. W.C.)	1.2/2.0	
Number of Wheels (D × W)	2	
Motor Sheave/Blower Sheave	1VP50 x 1-1/8"/BK90 x 1-3/16"	1VP60 × 1-1/8"/BK100 × 7/16"
Belt	BX42	BX46
Condenser Fan/Coil		
Condenser Fan Motors (Quantity)	3	
Horsepower-RPM	1/3-1075	
Fan Diameter/Number of Blades	22/3	
Outdoor Nominal CFM	9,000	
Face Area (ft^2)	53.3	
Rows Deep/Fins per Inch	2/27	
Compressor		
Quantity/Type	2/Scroll	
Stage	2	
Unit Weights		
Operating Weight (lbs)	2083	2242
Shipping Weight (lbs)	2198	2357

Note: Always check the S&R plate for electrical data on the unit being installed.
1. Wire size should be determined in accordance with National Electric Codes. Extensive wire runs will require larger wire sizes.
2. May use fuses or HACR-type circuit breakers of the same size as noted.

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Light Commercial Rooftop Systems

Physical Data-MPS 003 through 006

Model	MPS			
	3 ton	4 ton	5 ton	6 ton
Cooling performance[1]				
Gross cooling BTU [kW]	36,800 [10.78]	50,000 [14.65]	61,000 [17.87]	76,000 [22.27]
EER/IEER[2]	13/11.4	13/11.4	13/11.1	N/A/11.5
Nominal airflow/AHRI airflow (CFM) [L/s]	1200 [566]	1600 [755]	2000 [944]	2400/2400 [1133/1133]
Net cooling BTU [kW]	35,400 [10.37]	48,000 [14.06]	59,000 [17.29]	73,000 [21.39]
Net sensible BTU [kW]	26,200 [7.68]	35,600 [10.43]	42,000 [12.31]	53,900 [15.79]
Net latent BTU [kW]	9200 [2.7]	12,400 [3.63]	17,000 [4.98]	19,100 [5.6]
Net system power kW	3.1	4.19	5.32	6.31
Compressor(s)				
Type/number	Scroll/1	Scroll/1	Scroll/1	Scroll/1
Gas heating performance[3]				
Steady stage efficiency %	81	81	81	81
Number of stages	1	1	1	1
Gas connection size	1/2"	1/2"	1/2"	1/2"
Heating input (BTU/h) low/high	80,000/120,000	80,000/135,000	100,000/135,000	150,000
Heating output (BTU/h)	64,800/97,200	64,800/109,400	81,000/109,400	121,500
Temperature rise °F	30–80	30–80	25–70	30-60
Sound[4]				
Outdoor rating (dB)	78	78	83	88
Outdoor coil				
Fin type	Louvered	Louvered	Louvered	Louvered
Tube type	Rifled	Rifled	Rifled	Rifled
Tube size OD (in.) [mm]	3/8 [9.5]	3/8 [9.5]	3/8 [9.5]	3/8 [9.5]
Face area (sq. ft) [sq. m]	16.91 [1.57]	16.56 [1.54]	16.56 [1.54]	13.5 [1.25]
Rows (FPI) [fpcm]	1/22 [9]	2/22 [9]	2/22 [9]	1/22 [9]
Indoor coil				
Fin type	Corrugated	Corrugated	Corrugated	Louvered
Tube type	Rifled	Rifled	Rifled	Rifled
Tube size OD (in.) [mm]	3/8 [9.5]	3/8 [9.5]	3/8 [9.5]	0.375 [9.5]
Face area (sq. ft) [sq. m]	5.17 [0.48]	5.17 [0.48]	5.17 [0.48]	13.5 [1.25]
Rows (FPI) [fpcm]	2/17 [7]	3/15 [6]	3/16 [6]	2/18 [7]
Refrigerant control	TX valves	TX valves	TX valves	Capillary tube
Drain connection (in.) [mm]	3/4 [19.00]	3/4 [19.0]	1 [19.05]	1 [25.4]
Condenser fan				
Type	Propeller	Propeller	Propeller	Propeller
No. used/diameter (in.) [mm]	1/24 [609.6]	1/24 [609.6]	1/24 [609.6]	2/24 [609.6]
Drive type/No. of speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	3680 [1737]	3680 [1737]	3680 [1737]	8000 [3775]
Motor hp	1/3	1/3	1/3	2 at 1/3 hp
Motor RPM	1075	1075	1075	1075
Indoor fan				
Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. used/diameter (in.) [mm]	1/10 × 10 [254 × 254]	1/10 × 10 [254 × 254]	1/10 × 10 [254 × 254]	1/11 × 12 [279 × 305]
No. motors	1	1	1	1
Motor hp	1/2	1/2-3/4	3/4-1	1 1/2
Motor RPM	1075	1075	1725	1725
Motor frame size	48	48	56	56
Filter				
Fin type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) size (in.) [mm]	(2)1 × 16 × 24 [25 × 406 × 635]	(2)1 × 16 × 24 [25 × 406 × 635]	(2)1 × 16 × 24 [25 × 406 × 635]	(6) 2 × 18 × 18 [51 × 457 × 457]
Refrigerant				
Charge oz. [g]	96 [2722]	165 [4678]	160 [4536]	190.9 [5412]
Weight				
Net weight lbs. [kg]	543 [246]	580 [263]	597 [271]	965 [438]
Shipping weight lbs. [kg]	550 [249]	587 [266]	604 [274]	1002 [455]

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to 20% of nominal CFM. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or IEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Heating Performance limit settings and rating data were established and approved under laboratory test conditions using ANSI standards.
4. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level.

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Light Commercial Rooftop Systems

Physical Data-MPS 007 through 010

Model	MPS		
	7-1/2 ton	8 ton	10 ton
Cooling performance[1]			
Gross cooling BTU [kW]	88,000 [25.78]	101,000 [29.59]	123,000 [36.04]
EER/IEER[2]	11.2/11.8	11.2/12.0	11.2/12.0
Nominal airflow /AHRI airflow (CFM) [L/s]	2800/2975 [1321/1404]	3200/3200 [1510/1510]	4000/3750 [1888/1770]
Net cooling BTU [kW]	85,000 [24.9]	97,000 [28.42]	118,000 [34.57]
Net sensible BTU [kW]	66,100 [19.37]	74,000 [21.68]	88,800 [26.02]
Net latent BTU [kW]	18,900 [5.54]	23,000 [6.74]	29,200 [8.56]
Net system power kW	7.53	8.59	10.49
Compressor(s)			
Type/number	Scroll/1	Scroll/1	Scroll/1
Gas heating performance[3]			
Steady stage efficiency %	81	81	81
Number of stages	2	2	2
Gas connection size	1/2"/3/4"	1/2"/3/4"	1/2"/3/4"
Heating input (BTU/h) low/high	150,000/225,000	150,000/225,000	150,000/225,000
Heating output (BTU/h)	121,000/182,250	121,000/182,250	121,000/182,250
Temperature rise °F	25–70	40–70	15-55
Sound[4]			
Outdoor rating (dB)	88	88	88
Outdoor coil			
Fin type	Louvered	Louvered	Louvered
Tube type	Rifled	Rifled	Rifled
Tube size OD (in.) [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face area (sq. ft) [sq. m]	27 [2.51]	27 [2.51]	27 [2.51]
Rows (FPI) [fpcm]	1/22 [9]	2/18 [7]	2/22 [9]
Indoor coil			
Fin type	Louvered	Louvered	Louvered
Tube type	Rifled	Rifled	Rifled
Tube size OD (in.) [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face area (sq. ft) [sq. m]	13.5 [1.25]	13.5 [1.25]	13.5 [1.25]
Rows (FPI) [fpcm]	2/18 [7]	2/18 [7]	3/18 [7]
Refrigerant control	TX valves	TX valves	TX valves
Drain connection (in.) [mm]	1/1 [25.4]	1/1 [25.4]	1/1 [25.4]
Condenser fan			
Type	Propeller	Propeller	Propeller
No. used/diameter (in.) [mm]	2/24 [609.6]	2/24 [609.6]	2/24 [609.6]
Drive type/No. of speeds	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	8000 [3775]	8000 [3775]
Motor hp	2 at 1/3 hp	2 at 1/3 hp	2 at 1/3 hp
Motor RPM	1075	1075	1075
Indoor fan			
Type	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. used/diameter (in.) [mm]	1/15 × 15 [381 × 381]	1/15 × 15 [381 × 381]	1/15 × 15 [381 × 381]
No. motors	1	1	1
Motor hp	2-3	2-3	2-3
Motor RPM	1725	1725	1725
Motor frame size	56	56	56
Filter			
Fin type	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes
(No.) size (in.) [mm]	(6) 2 × 18 × 18 [51 × 457 × 457]	(6) 2 × 18 × 18 [51 × 457 × 457]	(6) 2 × 18 × 18 [51 × 457 × 457]
Refrigerant			
Charge oz. [g]	190.9 [5412]	154.4/166.6 [4377/4723]	172.8/180.8 [4899/5126]
Weight			
Net weight lbs. [kg]	965 [438]	1095 [497]	1156 [524]
Shipping weight lbs. [kg]	1002 [455]	1132 [513]	1193 [541]

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to 20% of nominal CFM. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or IEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Heating Performance limit settings and rating data were established and approved under laboratory test conditions using ANSI standards.
4. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

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Light Commercial Rooftop Systems

Physical Data-MPS 012 through 025

Model	MPS			
	12 ton	15 ton	20 ton	25 ton
Cooling performance[1]				
Gross cooling BTU [kW]	156,000 [45.71]	188,000 [55.08]	244,000 [71.49]	312,000 [91.42]
EER/IEER[2]	11/11.4	11.1/12.4	11.1/11.4	10/10.1
Nominal airflow/AHRI airflow (CFM) [L/s]	5000/4400 [2360/2076]	6000/5900 [2831/2784]	8000/7725 [3775/3645]	10000/9475 [4719/4471]
Net cooling BTU [kW]	148,000 [43.36]	182,000 [53.33]	234,000 [68.56]	294,000 [86.14]
Net sensible BTU [kW]	107,600 [31.53]	135,700 [39.76]	171,600 [50.28]	214,100 [62.73]
Net latent BTU [kW]	40,400 [11.84]	46,300 [13.57]	62,400 [18.28]	79,900 [23.41]
Net system power kW	13.39	16.35	21.04	29.39
Compressor(s)				
Type/number	Scroll/2	Scroll/2	Scroll/2	Scroll/2
Gas heating performance[3]				
Steady stage efficiency %	81	81	81	81
No. stages	2	2	2	2
Gas connection size	1/2"/3/4"	3/4"	3/4"	3/4"
Heating input (BTU/h)	150,000/252,000	250,000/350,000	300,000/400,000	300,000/400,000
Heating output (BTU/h)	121,500/204,000	203,000/284,000	243,000/324,000	243,000/324,000
Temperature rise °F	15–55	15–60	15–55	10-45
Sound[4]				
Outdoor rating (dB)	88	91	91	92
Outdoor coil				
Fin type	Louvered	Louvered	Louvered	Louvered
Tube type	Microchannel	Rifled	Rifled	Rifled
Tube size OD (in.) [mm]	1 [25.4]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face area (sq. ft) [sq. m]	27 [2.51]	53.3 [4.95]	53.3 [4.95]	53.3 [4.95]
Rows (FPI) [fpcm]	2/20 [8]	1/22 [9]	2/22 [9]	2/22 [9]
Indoor coil				
Fin type	Louvered	Louvered	Louvered	Louvered
Tube type	Rifled	Rifled	Rifled	Rifled
Tube size OD (in.) [mm]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]	0.375 [9.5]
Face area (sq. ft) [sq. m]	13.5 [1.25]	26.67 [2.48]	26.67 [2.48]	26.67 [2.48]
Rows (FPI) [fpcm]	4/15 [6]	2/18 [7]	3/13 [5]	4/15 [6]
Refrigerant control	TX valves	TX valves	TX valves	TX valves
Drain connection (in.) [mm]	1 [25.4]	1 [25.4]	1 [25.4]	1 [25.4]
Condenser fan				
Type	Propeller	Propeller	Propeller	Propeller
No. used/diameter (in.) [mm]	2/24 [609.6]	4/24 [609.6]	6/24 [609.6]	6/24 [609.6]
Drive type/No. of speeds	Direct/1	Direct/1	Direct/1	Direct/1
CFM [L/s]	8000 [3775]	16,000 [7550]	19,800 [9344]	19,800 [9344]
Motor hp	2 at 1/2 hp	4 at 1/3 hp	6 at 1/3 hp	6 at 1/3 hp
Motor RPM	1075	1075	1075	1075
Motor frame size	56/184	56/184	184/213	213/215
Indoor fan				
Type	FC Centrifugal	FC Centrifugal	FC Centrifugal	FC Centrifugal
No. used/diameter (in.) [mm]	1/15 × 15 [381 × 381]	2/18 × 9 [457 × 229]	2/18 × 9 [457 × 229]	2/18 × 9 [457 × 229]
No. motors	1	1	1	1
Motor hp	3, 5	3, 5	5, 7-1/2	7-1/2, 10
Motor RPM	1725	1725	1725	1725
Filter				
Fin type	Disposable	Disposable	Disposable	Disposable
Furnished	Yes	Yes	Yes	Yes
(No.) size (in.) [mm]	(6) 2 × 18 × 18 [51 × 457 × 457]	(8) 2 × 25 × 20 [51 × 635 × 508]	(8) 2 × 25 × 20 [51 × 635 × 508]	(8) 2 × 25 × 20 [51 × 635 × 508]
Refrigerant				
Charge oz. [g]	159.2/156 [4513/4423]	205/211 [5812/5982]	402/331 [11397/9384]	339/357 [9611/10121]
Weight				
Net weight lbs. [kg]	1230 [558]	2000 [907]	2341 [1062]	2433 [1104]
Shipping weight lbs. [kg]	1267 [575]	2100 [953]	2441 [1107]	2533 [1149]

1. Cooling Performance is rated at 95° F ambient, 80° F entering dry bulb, 67° F entering wet bulb. Gross capacity does not include the effect of fan motor heat. AHRI capacity is net and includes the effect of fan motor heat. Units are suitable for operation to 20% of nominal CFM. Units are certified in accordance with the Unitary Air Conditioner Equipment certification program, which is based on AHRI Standard 210/240 or 360.
2. EER and/or IEER are rated at AHRI conditions and in accordance with DOE test procedures.
3. Heating Performance limit settings and rating data were established and approved under laboratory test conditions using ANSI standards.
4. Ratings shown are for elevations up to 2000 feet. For elevations above 2000 feet, ratings should be reduced at the rate of 4% for each 1000 feet above sea level. Outdoor Sound Rating shown is tested in accordance with AHRI Standard 270.

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Commercial Rooftop Systems

Rebel® Physical Data - Model DPS 003 through 028

Model	Small cabinet				Medium cabinet				Large cabinet				
	003	004	005	006	007	010	012	015	016	018	020	025	028
Cooling only performance													
Gross cooling capacity (tons)	3	4	5	6	7.5	10	12	15	15.5	17.5	20.1	25	27.5
Nominal airflow (cfm)	1125	1500	1875	2100	2450	3500	4200	5250	5900	6600	7600	9500	10400
EER[1,7]	13.5	12.4	13.0	11.6	12.5	12.4	11.6	11.0	12.2	11.9	11.3	11.3	10.5
IEER[1,7] or SEER	16.9	17.0	18.5	19.8	20.6	19.3	18.0	18.0	21.0	20.8	20.4	18.3	17.9
Heat pump performance[4]													
High temperature capacity @ 47°F (MBh)	32	43	54	64	78	105	134	164	—	—	218	—	—
COP @ 47°F or HSPF[5]	9.2	8.9	8.5	3.69	3.66	3.42	3.33	3.64	—	—	3.40	—	—
Low Temperature capacity @ 17°F (MBh)	20	24	33	39	47	61.5	77	91	—	—	132	—	—
COP @ 17°F[5]	N/A	N/A	N/A	2.54	2.42	2.38	2.32	2.25	—	—	2.20	—	—
Electric heat performance													
Control options	2/4 stage/SCR				4 stage/SCR				4 stage/ SCR				
kW (low/medium/high heat)	6/12/18/24/30				6/12/18/24/30/36/54/72				10, 20, 30, 45, 60, 72, 90, 120, 150				
Gas heating performance													
Input capacity (MBh)	80/120/160				200/300/400				300, 450, 600				
Number of stages (staged option)	2				2				4				
Turndown (Modulating options)	5:1				5:1, 10:1				12:1				
Gas connection size (mpt)	1/2"				3/4"				3/4"				
Steady state efficiency	80%				80%				80%				
Heating coil													
Type	Hot Water				Hot Water				Hot Water				
Rows/FPI (high heat/low heat)	(2/10) / (1/8)				(2/10) / (1/8)				1/12, 2/12, 3/13				
Face area (sq ft)	2.5				5.4				12.3				
Compressors													
Quantity/Type	(1) Inverter scroll				(1) Inverter scroll, (1) Fixed speed scroll				1 Inverter scroll on 16–20, 1 Inverter scroll + 1 fixed speed scroll				
Number of stages	Modulating				Modulating				Modulating				
Refrigerant	R-410A				R-410A				R - 410A				
Indoor coil													
Rows/FPI	3/16	4/16	4/14	4/14	3/15	4/15	4/15	6/12	3/15	3/15	4/15	4/15	4/15
Face area (sq ft)	4.8	4.8	6.0	6.0	14.0	15.4	15.4	15.4	18.9	18.9	21.4	21.4	21.4
Capacity control	Electronic Expansion Valve (EEV)				Electronic Expansion Valve (EEV)				Electronic Expansion Valve (EEV)				
Outdoor coil													
Type: non-heat pump/heat pump[6]	Aluminum Microchannel/copper tube-aluminum fin								Aluminum microchannel				
Rows/FPI — heat pump	2/16	2/16	3/16	3/16	3/16	4/16	4/16	4/16	—	—	4/16	—	—
Rows/FPI — non-heat pump	1/21	1/21	3/16	3/16	1/21	1/21	4/16	1/21	1/23				
Outdoor fan and motor													
HP/Quantity	0.5/1	0.5/1	1.0/1	1.0/1	1.0/2	1.0/2	1.0/2	1.0/2	3.5/1				
Fan Diameter (in)/Quantity	27/1	27/1	27/1	27/1	27/2	27/2	27/2	27/2	39/1				
Indoor fan													
Type	Centrifugal airfoil (SWSI)				Centrifugal airfoil (SWSI)				Centrifugal airfoil (SWSI)				
Quantity/diameter[2]	(1) 12", (1) 14", (1) 16"				(1) 14" (1) 16" (1) 22"	(1) 22"			1/20 or 1/24			1/24	
Quantity/diameter[3]	(1) 12", (1) 14", (1) 16"				(1) 14", (1) 16", (1) 22"				1/16 or 1/20				
Drive type	Direct drive				Direct drive				Direct drive				
Motor HP range	1.3 / 2.3 / 4.0				4.0 / 8.0				2.0 / 3.0 / 5.0 / 7.5 / 10.0 / 15.0 / 20.0				
Hot gas reheat coil													
Coil type	Microchannel				Microchannel				Microchannel				
Control type	Modulating				Modulating				Modulating				
Temperature rise	20°				20°				20°				
Filters													
Type	2", 4"				2", 4"				2" (MERV8), 4" (MERV14)				
Area (sq ft)	7.1				18				27.0				
Qty. - size	4 – 16 × 16				6 – 18 × 24				9 - 18 x 24				

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Commercial Rooftop Systems

NOTE:
1. EER and IEER/SEER for Cooling Only VAV, 460 volt unit, largest SAF
2. Mixed Outside air and return air units
3. 100% Outside air unit only
4. Heat pump performance for units with back up electric heat
5. HSPF for 3-5 ton units only
6. Size 5 and 6 non-heat pump models use copper tube aluminum fin
7. Down discharge

Model	Small cabinet				Medium cabinet			
	003	004	005	006	007	010	012	015
Electrical	208/203V or 460V				208/203V, 460V, 575V			
Dimension (inches)								
Standard (with OA)	87" x 85" x 41"				87" x 85" x 41"			97" x 107" x 56"
With EWR and OA	87" x 103" x 41"				97" x 133" x 56"			97" x 150" x 56"
Weight (lbs.)								
Base weight[1]	1000	1000	1025	1058	1600	1600	1600	1763
Heat pump	1030	1030	1058	1058	1660	1660	1660	1823
Electric heat	45	45	45	45	100	100	100	100
Hot water 1 row	11	11	11	11	32	32	32	32
Hot water 2 row	16	16	16	16	41	41	41	41
Gas heat	93	93	93	93	186	186	186	186
Hot gas reheat	8	8	12	12	28	31	31	31
Economizer	163	163	163	163	308	308	308	308
Energy wheel weight adds (lbs.)								
100% OA	160	160	160	160	300	300	300	300
Mixed air	175	175	175	175	250	250	250	250

1. Includes standard cooling coil

Model		Large cabinet				
		016	018	020	025	028
Electrical		208/203V, 460V, 575V				
Dimension (inches)						
Standard (with OA)		77" x 186" x 71"				
With EWR and OA		77" x 205" x 71"				
Weight (lbs.)						
Base weight (in lbs.)		2,465		2,575	2,700	
Heat pump		—	—	260+	—	—
Electric heat		228				
Hot water heat	1-row	60				
	2-row	100				
	3-row	140				
Gas heat	300	175				
	450	225				
	600	275				
Hot gas reheat		30				
Economizer		500				
ERW – small		350				
ERW – large		400				
Indoor fan	16"	100				
	20"	150				
	24"	260				
Indoor fan motors	2	40				
	3	69				
	5	84				
	7.5	115				
	10	128				
	15	211				
	20	225				
Exhaust fan		Up to 230				

Fan weights (lbs.)	
12 Inch (310 mm)	87
14 Inch (360 mm)	91
16 Inch (400 mm)	115
22 Inch (560 mm)	115

Curb weights (lbs.)	14"	24"
003—006	156	230
007—015	200	295
016—028	566	657

Unit size	Refrig. charge - cooling model		Refrig. charge - Heat Pump model	
	Standard unit	Standard unit w/ MHGRH	Standard unit	Standard unit w/ MHGRH
3	8.6	11.3	12.0	14.4
4	8.5	11.3	12.6	15.0
5	15.3	18.2	16.8	19.7
6	15.3	18.2	16.8	19.7
7.5	11.1	17.8	26.0	31.2
10	20.0	25.8	40.0	45.8
12	20.0	25.8	40.0	45.8
15	24.4	30.2	46.0	51.8
16	30.3	30.7	Consult factory	
18	30.3	30.7		
20	32.5	32.9	57.5	Consult factory
25	35.5	35.9	Consult factory	
28	35.5	35.9		

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Commercial Rooftop Systems

Physical Data-MPS 015 through 026

Model	MPS			
	015	017	020	026
Cooling performance				
Gross cooling capacity (tons)	16.0	18.;5	21.7	25.3
Nominal airflow (CFM)	6000	7000	8000	10,000
Maximum EER	NA[4]	NA[4]	10.0	10.8
Maximum IEER	NA[4]	NA[4]	11.2	12.8
Gas heating performance				
Low heat MBH (input/output)[1]	240/192	240/192	240/192	300/240
Number of stages (low heat)	2	2	2	2
Turndown (low heat)[2]	4:1	4:1	4:1	4:1
Gas connection pipe size/qty (low heat)	3/4"/1	3/4"/1	3/4"/1	3/4"/1
High heat MBH (input/output)[1]	480/384	480/384	480/384	600/480
Number of stages (high heat)	4	4	4	4
Gas connection pipe size/qty (high heat)	3/4"/2	3/4"/2	3/4"/2	3/4"/2
Turndown (high heat)[2]	8:1	8:1	8:1	8:1
Steady state efficiency	80%	80%	80%	80%
Hot water heating performance				
Face area (sq ft)	12.2	12.2	12.25	19.25
Rows/FPI (low heat)	1/11	1/11	1/14	1/12
Coil model (low heat)	5WB	5WB	5WB	5WB
Connection sizes/type (low heat)[2]	ODM Sweat	ODM Sweat	ODM Sweat	ODM Sweat
Rows/FPI (high heat)	2/12	2/12	2/9	2/10
Coil model (high heat)	5WB	5WB	5WS	5WS
Connection sizes/type (high heat)[2]	ODM Sweat	ODM Sweat	ODM Sweat	ODM Sweat
Electric heating performance				
Number of stages	4	4	4	4
kW (low/medium/high heat)	18/36/54	18/36/54	36/54/72	36/54/72
Compressors				
Type/number	Scroll/2	Scroll/2	Scroll/3	Scroll/3
Number of stages	2	2	4	4
Evaporator coils				
Rows	4	4	4	4
FPI	14	14	13	12
Face area (sq ft)	18.2	18.2	18.2	25.4
Capacity control	TXV	TXV	TXV	TXV
Hot gas reheat				
Coil type	Microchannel	Microchannel	Microchannel	Microchannel
Control type	Modulating	Modulating	Modulating	Modulating
Face area (sq ft)	14.1	14.1	14.1	14.1
Condenser coils				
Fin type	Enhanced	Enhanced	Enhanced	Enhanced
FPI	18	18	18	18
Face area (sq ft)	18.1	18.1	18.1	18.1
Outdoor fans				
Type	Propeller	Propeller	Propeller	Propeller
Number-diameter	2-26"	2-26"	2-26"	2-26"
Drive type/number of speeds	Direct/1	Direct/1	Direct/1	Direct/1
Indoor fans				
Type	AF-SWSI	AF-SWSI	AF-SWSI	AF-SWSI
Number-diameter	1-18"	1-18"	1-20"	1-24"
Drive type	Fixed sheave	Fixed sheave	Fixed sheave	Fixed sheave
Isolation	1" spring	1" spring	1" spring	1" spring
Number of motors	1	1	1	1
Motor hp range	1.5-10	1.5-10	2–15	5-20
Motor nominal RPM	1800	1800	1800	1800
Motor efficiency	Premium	Premium	Premium	Premium
Filters				
Type	2", MERV 8			
Area (sq ft)	24	24	24	32
Qty.-size	6-24" × 24"	6-24" × 24"	6-24" × 24"	8-24" × 24"
Total unit weight				
Weight (lbs)	Cooling 2650	Cooling 2700	Cooling 2955	Cooling 3055
Curb				
Height	14" / 24"	14" / 24"	14" / 24"	14" / 24"
Weight (lbs)	341 / 501	341 / 501	341 / 501	341 / 501

1. Piping connections are given with a male outside diameter dimension, brazed connection.
2. Modulating burner only.
3. Base unit weight includes Economizer, VFDs, and the smallest supply fan available. Heating units include maximum gas heat.
4. The MPS 15 and 17 are only used on100% outdoor air applications.

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Commercial Rooftop Systems

Physical Data-MPS 030 through 050

Model	MPS			
	030	035	040	050
Cooling performance				
Gross cooling capacity (tons)	30.0	34.0	40.0	50.0
Nominal airflow (CFM)	12,000	14,000	16,000	20,000
Maximum EER	10.2–10.4	9.9–10.1	10.0–10.3	9.8–10.2
Maximum IEER (CAV-VAV)	12.2–13.1	11.4–12.3	11.8–13.2	11.6–12.3
Gas heating performance				
Low heat MBH (input/output)[1]	300/240	300/240	400/320	400/320
Number of stages (low heat)	2	2	2	2
Turndown (low heat)[2]	4:1	4:1	4:1	4:1
Gas connection pipe size/qty (low heat)	3/4"/1	3/4"/1	3/4"/1	3/4"/1
High heat MBH (input/output)[1]	600/480	600/480	800/640	800/640
Number of stages (high heat)	4	4	4	4
Gas connection pipe size/qty (high heat)	3/4"/2	3/4"/2	3/4"/2	3/4"/2
Turndown (high heat)[2]	8:1	8:1	8:1	8:1
Steady state efficiency	80%	80%	80%	80%
Hot water heating performance				
Face area (sq ft)	19.25	19.25	19.25	19.25
Rows/FPI (low heat)	1/12	1/12	1/11	1/11
Coil model (low heat)	5WB	5WB	5WH	5WH
Connection sizes/type (low heat)[2]	ODM Sweat	ODM Sweat	ODM Sweat	ODM Sweat
Rows/FPI (high heat)	2/10	2/10	2/13	2/13
Coil model (high heat)	5WS	5WS	5WS	5WS
Connection sizes/type (high heat)[2]	ODM Sweat	ODM Sweat	ODM Sweat	ODM Sweat
Electric heating performance				
Number of stages	4	4	4	4
kW (low/medium/high heat)	54/72/90	54/72/90	72/90/108	72/90/108
Compressors				
Type/number	Scroll/3	Scroll/3	Scroll/4	Scroll/4
Number of stages	5	5	5	5
Evaporator coils				
Rows	4	4	4	4
FPI	12	12	12	12
Face area (sq ft)	25.4	25.4	29.4	35.7
Capacity control	TXV	TXV	TXV	TXV
Hot gas reheat coils				
Coil type	Microchannel	Microchannel	Microchannel	Microchannel
Control type	Modulating	Modulating	Modulating	Modulating
Face area (sq ft)	19.9	19.9	26.8	26.8
Condenser coils				
Fin type	Enhanced	Enhanced	Enhanced	Enhanced
FPI	18	18	18	18
Face area (sq ft)	13.4/27.5	13.4/27.5	13.4/27.5	27.5 (× 2)
Outdoor fans				
Type	Propeller	Propeller	Propeller	Propeller
Number-diameter	3-26"	3-26"	4-26"	4-26"
Drive type/number of speeds	Direct/1	Direct/1	Direct/1	Direct/1
Indoor fans				
Type	AF-SWSI	AF-SWSI	AF-SWSI	AF-SWSI
Number–diameter	1-24"	1-24"	1-30"	1-30"
Drive type	Fixed sheave	Fixed sheave	Fixed sheave	Fixed sheave
Isolation	1" spring	1" spring	1" spring	1" spring
Number of motors	1	1	1	1
Motor hp range	5-20	5-20	7-1/2-30	7-1/2-30
Motor nominal RPM	1800	1800	1800	1800
Motor efficiency	Premium	Premium	Premium	Premium
Filters				
Type	2", MERV 8			
Area (sq ft)	32	32	36	44
Qty.-size	8-24" × 24"	8-24" × 24"	8-24" × 24"/4-18" × 24"	8–24" × 24"/4–18" × 24"
Total unit weight				
Weight (lbs)	Cooling	Cooling	Cooling	Cooling
	3660	3660	4685	4985
Curb				
Height	14" / 24"	14" / 24"	14" / 24"	14" / 24"
Weight (lbs)	341 / 501	341 / 501	481 / 501	481 / 501

1. Piping connections are given with a male outside diameter dimension, brazed connection.
2. Modulating burner only.
3. Base unit weight includes Economizer, VFDs, and the smallest supply fan available. Heating units include maximum gas heat.

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Commercial Rooftop Systems

Physical Data-MPS 062 through 075

Model		MPS		
		062	070	075
Cooling performance				
Nominal gross cooling capacity (tons)		62.0	70.0	75.0
Nominal airflow (CFM)		24,000	26,000	28,000
Maximum EER (standard coil/large coil)		10.0–10.3	9.7	9.3
Maximum IEER (standard coil/large coil)		12.4–12.7	13.0–13.6	12.2–12.9
Gas heating performance				
Low heat MBH (input/output)[1]		500/400	500/400	500/400
Gas connection pipe size/qty (low heat)		1"/1	1"/1	1"/1
Medium heat MBH (input/output)[1]		600/480	600/480	800/640
Gas connection pipe size/qty (medium heat)		1 1/4"/1	1 1/4"/1	1 1/4"/1
High heat MBH (input/output)[1]		980/790	980/790	980/790
Gas connection pipe size/qty (high heat)		1 1/4"/1	1 1/4"/1	1 1/4"/1
Number of stages-all furnaces (high heat)		Mod	Mod	Mod
Turndown-all furnaces (high heat)[2]		3:1	3:1	3:1
Steady state efficiency-all furnaces		80%	80%	80%
Hot water heating performance				
Face area (sq ft)		29.7	29.7	29.7
Type–rows (standard/high capacity)		5WH–1/5WS–2	5WH–1/5WS–2	5WH–1/5WS–2
FPI		9	9	9
Electric heating performance				
Number of stages		4	4	4
kW (low/medium/high heat)		100/120/160	100/120/160	100/120/160
Compressors				
Type/number		Scroll/4	Scroll/6	Scroll/6
Number of stages		4	6	6
Evaporator coils				
Rows		5	5	5
FPI		10	10	10
Face area (sq ft)		39.5 or 47.1	47.1	47.1
Capacity control		TXV	TXV	TXV
Condenser coils				
Fin type		Enhanced	Enhanced	Enhanced
FPI		18	18	18
Face area (sq ft)		32.1 × 2	37.3 × 2	37.3 × 2
Outdoor fans				
Type		Propeller	Propeller	Propeller
Number-diameter		6-26"	6–26"	8-26"
Drive type/number of speeds		Direct/1	Direct/1	Direct/1
Indoor fans				
SWSI AF		1-44"		
DWDI AF		1-30" or 1-33"		
Drive type		Fixed sheave		
Isolation		2" spring		
Number of motors		1		
Motor hp range		5-40		
Motor nominal RPM		1800		
Motor efficiency		Premium		
Filters				
Qty.-type/sq. ft.	Merv 6 angular	(7) 16 × 20 and (21) 16 × 25/73 sq. ft.		
	6" Merv 11 or 12" Merv 14	(4) 12 × 24 and (8) 24 × 24/40 sq. ft. standard air flow (8) 12 × 24 and (8) 24 × 24/48 sq. ft. high air flow		

1. Heating output is for standard conditions at sea level.
2. Modulating burner only.

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Applied Rooftop Systems

Physical Data-RPS 015D through 042D

Data		Unit Size					
		015/016D[d]	020/021D[d]/021D[f]	025/026D[d]	030/031D[d,f]	035D	042D/42D[f]
Compressor[c]	Quantity-hp	2-7	1-10, 2-4.5	1-11.5, 2-5.5	1-13, 2-6	4-7.5	4-8.5
	Capacity control	100-50-0	100-78-44-22-0	100-78-44-22-0	100-78-44-22-0	100-75-50-25-0	100-75-50-25-0
Compressor[f]	Quantity/Type	(1) Variable Speed compressor & (1) Fixed Speed				-	(1) Variable & (2) Fixed Speed Compressors
	Capacity control	Modulating	Modulating	Modulating	Modulating	-	Modulating
	Unit Capacity Steps %	20-100	15-100	15-100	17-100	-	13-100
	Number of circuits	2	2	2	2	-	2
Condenser fans	Qty-diameter (in)	2-26	2-26	2-26	4-26	4-26	4-26
Condenser fan motors	Qty- hp	2-1.0	2-1.0	2-1.0	4-1.0	4-1.0	4-1.0
Supply fans	Type	Forward curved LP				Forward curved LP/MP	
	Qty-diameter (in)	2-15 × 6*	2-15 × 6*	2-15 × 6*	2-15 × 6*	1-24	1-24
	Qty-diameter (in)	2-15 × 15	2-15 × 15	2-15 × 15	2-15 × 15	-	-
	Airlow range (CFM)	4000-12000	4000-12000	5400-16000	5400-16000	5400-17550	5400-17550
	Motor hp range	1-20	1-20	1-20	1-20	1-25	1-25
	Type	DWDI airfoil					
	Qty-diameter (in)	1-20	1-20	1-20	1-20	1-24	1-24
	Airlow range (CFM)	4000-10000	4000-12000	5400-16000	5400-16000	5400-17550	5400-17550
	Motor hp range	1-20	1-20	1-20	1-20	1-25	1-25
Return fans	Type	Forward curved					
	Diameter (in)	2-15 × 15	2-15 × 15	2-15 × 15	2-15 × 15	-	-
	Airlow range (CFM)	4000-10000	4000-12000	5400-16000	5400-16000	-	-
	Motor hp range	1-10	1-10	1-10	1-10	-	-
	Type	SWSI airfoil					
	Qty-diameter (in)	1-30	1-30	1-30	1-30	1-30,	1-40
	Airlow range (CFM)	4000-10000	4000-12000	5400-16000	5400-16000	5400-17550	5400-17550
	Motor hp range	1-10	1-10	1-10	1-10	1-10	1-10
Evaporator coils	Standard F.A. (sq ft)	18.5	18.5	-	-	-	-
	Large F.A. (sq ft)	-	-	27.0	27.0	27.0	27.0
Hot water coils	Type-rows	5WH-1	5WH-1	5WH-1	5WH-1	5WH-1	5WH-1
	Type-rows	5WS-2	5WS-2	5WS-2	5WS-2	5WS-2	5WS-2
	FPI	9	9	9	9	9	9
	Face area (sq ft)	20.3	20.3	20.3	20.3	20.3	20.3
Steam coils	Type-rows	5JA-1	5JA-1	5JA-1	5JA-1	5JA-1	5JA-1
	FPI	6, 12	6, 12	6, 12	6, 12	6, 12	6, 12
	Face area (sq ft)	20.3	20.3	20.3	20.3	20.3	20.3
Gas furnace	Input (MBh)	250, 312, 400, 500, 625, 800, 812, 988, 1000, 1250					
	Nom. Output (MBh)	200, 250, 320, 400, 500, 640, 650, 790, 800, 1000					
Electric heat	Nom. output (kW)	20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240					
Panel flters	Type	85% or 30% pleated					
	Area (sq ft)	50.0	50.0	50.0	50.0	50.0	50.0
	Qty-size (in)	10-16 × 20 × 2 10-16 × 25 × 2	10-16 × 20 × 2 10-16 × 25 × 2	10-16 × 20 × 2 10-16 × 25 × 2	10-16 × 20 × 2 10-16 × 25 × 2	10-16 × 20 × 2 10-16 × 25 × 2	10-16 × 20 × 2 10-16 × 25 × 2
Prefilters (for cartridge flters)	Type	Prefilter, standard low					
	Area (sq ft)	24.0	24.0	24.0	24.0	24.0	24.0
	Qty-size (in)	4-24 × 24 × 2 4-12 × 24 × 2	4-24 × 24 × 2 4-12 × 24 × 2	4-24 × 24 × 2 4-12 × 24 × 2	4-24 × 24 × 2 4-12 × 24 × 2	4-24 × 24 × 2 4-12 × 24 × 2	4-24 × 24 × 2 4-12 × 24 × 2
Cartridge flters	Type	65% or 95%, standard low					
	Area (sq ft)	24.0	24.0	24.0	24.0	24.0	24.0
	Qty-size (in)	4-24 × 24 × 12 4-12 × 24 × 12	4-24 × 24 × 12 4-12 × 24 × 12	4-24 × 24 × 12 4-12 × 24 × 12	4-24 × 24 × 12 4-12 × 24 × 12	4-24 × 24 × 12 4-12 × 24 × 12	4-24 × 24 × 12 4-12 × 24 × 12

* 100% OA only.
a. Gas furnace size availability is limited by minimum airlow, See Table 45 on page < >.
b. 460-volt capacities are shown. Electric heat availability is limited by minimum airlow, See Table 48 through Table 50.
c. Compressor information for units with fixed speed compressors only.
d. Premium efficiency model number.

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Applied Rooftop Systems

Physical Data-RPS/RFS/RCS/RDT 045D through 079D

Data		Unit Size						
		045D[d]/045D[f]	050/051D[d,f]	062/063D[d,f]	068D	070/071D[d]	075D/074D[d,f]	079D
Compressor[c]	Quantity- hp	4-10	4-11.5	4-13	4-15	6-10	6-11.5	3-11.5/3-13
	Capacity control	100-75-50-25-0				100-83-67-50-33-17-0		
Compressor[f]	Quantity/Type	(1) Variable Speed compressor & (2) Fixed Speed			-	-	(1)Variable & (3) Fixed Speed Compressors	-
	Capacity control	Modulating	Modulating	Modulating	-	-	Modulating	-
	Unit Capacity Steps %	16-100	16-100	14-100	-	-	11-100	-
	Number of circuits	2	2	2	-	-	2	-
Condenser fans	Qty-diameter (in)	4-26	4-26	6-26	6-26	6-26	8-26	8-26
Condenser fan motors	Qty- hp	4-1.0	4-1.0	6-1.0	6-1.0	6-1.0	8-1.0	8-1.0
RPS supply fans	Type	DWDI airfoil						
	Qty-diameter (in)	1-30, 33	1-30, 33	1-30, 33	1-30, 33	1-30, 33	1-30, 33	1-30, 33
	Motor hp range	3-50	3-50	3-50	3-50	3-50	3-50	3-50
RDT supply fans	Type	SWSI airfoil						
	Qty-diameter (in)	1-40,44	1-40,44	1-40,44	1-40,44	1-40,44	1-40,44	1-40,44
	Motor hp range	3-50	3-50	3-50	3-50	3-50	3-50	3-50
Return fans	Type	SWSI airfoil						
	Qty-diameter (in)	1-40	1-40	1-40	1-40	1-40	1-40	1-40
	Motor hp range	2-30	2-30	2-30	2-30	2-30	2-30	2-30
Exhaust fans	Type	Propeller						
	Diameter (in)	36	36	36	36	36	36	36
	Quantity	1 or 2 per unit	1 or 2 per unit	1 or 2 per unit	1 or 2 per unit	1 or 2 per unit	1 or 2 per unit	1 or 2 per unit
	Motor hp	5 each	5 each	5 each	5 each	5 each	5 each	5 each
Evaporator coils	Standard F.A. (sq ft)	39.5	39.5	39.5	39.5	39.5	39.5	39.5
	Large F.A. (sq ft)	-	47.1	47.1	47.1	47.1	47.1	47.1
Hot water coils	Type-rows	5WH-1	5WH-1	5WH-1	5WH-1	5WH-1	5WH-1	5WH-1
		5WS-2	5WS-2	5WS-2	5WS-2	5WS-2	5WS-2	5WS-2
	FPI	9	9	9	9	9	9	9
	Face area (sq ft)	29.7	29.7	29.7	29.7	29.7	29.7	29.7
Steam coils	Type-rows	5JA-1, 2	5JA-1, 2	5JA-1, 2	5JA-1, 2	5JA-1, 2	5JA-1, 2	5JA-1, 2
	FPI	6, 12	6, 12	6, 12	6, 12	6, 12	6, 12	6, 12
	Face area (sq ft)	29.7	29.7	29.7	29.7	29.7	29.7	29.7
Gas furnace	Input (MBh)	250, 312, 400, 500, 625, 800, 812, 988, 1000, 1250						
	Nom. output (MBh)	200, 250, 320, 400, 500, 640, 650, 790, 800, 1000						
Electric heat	Nom. output (kW)	40, 60, 80, 100, 120, 160, 200, 240						
Panel filters	Type	85% or 30% pleated						
	Area (sq ft)	73.9	73.9	73.9	73.9	73.9	73.9	73.9
	Qty-size (in)	7-16 × 20 × 2 21-16 × 25 × 2	7-16 × 20 × 2 21-16 × 25 × 2	7-16 × 20 × 2 21-16 × 25 × 2	7-16 × 20 × 2 21-16 × 25 × 2	7-16 × 20 × 2 21-16 × 25 × 2	7-16 × 20 × 2 21-16 × 25 × 2	7-16 × 20 × 2 21-16 × 25 × 2
Prefilters (for cartridge filters)	Type	Prefilter, standard low						
	Area (sq ft)	40.0	40.0	40.0	40.0	40.0	40.0	40.0
	Qty-size (in)	4-12 × 24 × 2 8-24 × 24 × 2	4-12 × 24 × 2 8-24 × 24 × 2	4-12 × 24 × 2 8-24 × 24 × 2	4-12 × 24 × 2 8-24 × 24 × 2	4-12 × 24 × 2 8-24 × 24 × 2	4-12 × 24 × 2 8-24 × 24 × 2	4-12 × 24 × 2 8-24 × 24 × 2
	Type	Prefilter, medium low						
	Area (sq ft)	48.0	48.0	48.0	48.0	48.0	48.0	48.0
	Qty-size (in)	8-12 × 24 × 2 8-24 × 24 × 2	8-12 × 24 × 2 8-24 × 24 × 2	8-12 × 24 × 2 8-24 × 24 × 2	8-12 × 24 × 2 8-24 × 24 × 2	8-12 × 24 × 2 8-24 × 24 × 2	8-12 × 24 × 2 8-24 × 24 × 2	8-12 × 24 × 2 8-24 × 24 × 2
Cartridge filters	Type	65% or 95%, standard low						
	Area (sq ft)	40.0	40.0	40.0	40.0	40.0	40.0	40.0
	Qty-size (in)	4-12 × 24 × 12 8-24 × 24 × 12	4-12 × 24 × 12 8-24 × 24 × 12	4-12 × 24 × 12 8-24 × 24 × 12	4-12 × 24 × 12 8-24 × 24 × 12	4-12 × 24 × 12 8-24 × 24 × 12	4-12 × 24 × 12 8-24 × 24 × 12	4-12 × 24 × 12 8-24 × 24 × 12
	Type	65% or 95%, medium low						
	Area (sq ft)	48.0	48.0	48.0	48.0	48.0	48.0	48.0
	Qty-size (in)	8-12 × 24 × 12 8-24 × 24 × 12	8-12 × 24 × 12 8-24 × 24 × 12	8-12 × 24 × 12 8-24 × 24 × 12	8-12 × 24 × 12 8-24 × 24 × 12	8-12 × 24 × 12 8-24 × 24 × 12	8-12 × 24 × 12 8-24 × 24 × 12	8-12 × 24 × 12 8-24 × 24 × 12

a. Gas furnace size availability is limited by minimum airlow, See Table 45 on page < >.
b. 460-volt capacities are shown. Electric heat availability is limited by minimum airlow, See Table 48 through Table 50.
c. Compressor information for units with fixed speed compressors only.
d. Premium efficiency model number.
f. Units model number and compressor information with variable speed compressors.

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Applied Rooftop Systems

Physical Data-RPS/RFS/RCS/RDT 080D through 105D

Data		Unit Size				
		080D/081D	085D	090D/091D	100D/101D	105D
Compressor	Quantity- hp	6-11.5	6-13	6-13	3-13 3-15	6-15
	Capacity control	100-83-67-50-33-17-0			100-83-67-49-33-16-0	100-84-67-50-33-17-0
Condenser fans	Qty-diameter (in)	6-26	6-26	8-26	9-26	8-26
Condenser fan motors	Qty- hp	6-1.0	6-1.0	8-1.0	9-1.0	8-1.0
Supply fans	Type	DWDI airfoil				
	Qty-diameter (in)	1-33, 36	1-33, 36	1-33, 36	1-36, 40	1-36, 40
	Motor hp range	5-75	5-75	5-75	5-75	5-75
Return fans	Type	SWSI airfoil				
	Qty-diameter (in)	1-44.5	1-44.5	1-44.5	1-44.5	1-44.5
	Motor hp range	5-60	5-60	5-60	5-60	5-60
Exhaust fans	Type	Propeller				
	Diameter (in)	36	36	36	36	36
	Quantity	1-3 per unit	1-3 per unit	1-3 per unit	1-3 per unit	1-3 per unit
	Motor hp range	5 each	5 each	5 each	5 each	5 each
Evaporator coils	Rows	4, 5	4, 5	4, 5	4, 5	4, 5
	FPI	10, 12	10, 12	10, 12	10, 12	10, 12
	F.A., small (sq ft)	53.9	53.9	53.9	60.8	60.8
	F.A., large (sq ft)	60.8	60.8	60.8	76.0	76.0
Hot water coils	Type-rows	5WH-1	5WH-1	5WH-1	5WH-1	5WH-1
		5WS-2	5WS-2	5WS-2	5WS-2	5WS-2
	FPI	9	9	9	9	9
	Face area (sq ft)	42.2	42.2	42.2	42.2	42.2
Steam coils	Type-rows	5JA-1, 2	5JA-1, 2	5JA-1, 2	5JA-1, 2	5JA-1, 2
	FPI	6, 12	6, 12	6, 12	6, 12	6, 12
	Face area (sq ft)	42.2	42.2	42.2	42.2	42.2
Gas furnace	Input (MBh)	625, 800, 812, 988, 1000, 1250, 1375, 1750, 1875, 2500				
	Nom. output (MBh)	500, 640, 650, 790, 800, 1000, 1100, 1400, 1500, 2000				
Electric heat	Nom. output (kW)	80, 100, 120, 160, 200, 240, 280, 320				
Panel filters	Type	85% (MERV 13) or 30% (MERV 7 or 8), pleated				
	Area (sq ft)	116.1	116.1	116.1	116.1	116.1
	Qty-size (in)	11-16 × 20 × 2 33-16 × 25 × 2	11-16 × 20 × 2 33-16 × 25 × 2	11-16 × 20 × 2 33-16 × 25 × 2	11-16 × 20 × 2 33-16 × 25 × 2	11-16 × 20 × 2 33-16 × 25 × 2
Prefilters (for cartridge filters)	Type	Prefilter, 30% (MERV 7 or 8), standard flow				
	Area (sq ft)	56.0	56.0	56.0	64.0	64.0
	Qty-size (in)	4-12 × 24 × 2 12-24 × 24 × 2	4-12 × 24 × 2 12-24 × 24 × 2	4-12 × 24 × 2 12-24 × 24 × 2	16-24 × 24 × 2	16-24 × 24 × 2
	Type	Prefilter, 30% (MERV 7 or 8), standard flow				
	Area (sq ft)	64.0	64.0	64.0	80.0	80.0
	Qty-size (in)	16-24 × 24 × 2	16-24 × 24 × 2	16-24 × 24 × 2	8-12 × 24 × 2 16-24 × 24 × 2	8-12 × 24 × 2 16-24 × 24 × 2
Cartridge filters	Type	65% (MERV 11) or 95% (MERV 14), standard flow				
	Area (sq ft)	56.0	56.0	56.0	64.0	64.0
	Qty-size (in)	4-12 × 24 × 12 12-24 × 24 × 12	4-12 × 24 × 12 12-24 × 24 × 12	4-12 × 24 × 12 12-24 × 24 × 12	16-24 × 24 × 12	16-24 × 24 × 12
	Type	65% (MERV 11) or 95% (MERV 14), standard flow				
	Area (sq ft)	64.0	64.0	56.0	80.0	80.0
	Qty-size (in)	6-24 × 24 × 12	6-24 × 24 × 12	6-24 × 24 × 12	8-12 × 24 × 12 16-24 × 24 × 12	8-12 × 24 × 12 16-24 × 24 × 12

1. Gas furnace size availability is limited by minimum airflow (RFS/RPS only).
2. 460-volt capacities are shown. Electric heat availability is limited by minimum airflow (RFS/RPS only).

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Applied Rooftop Systems

Physical Data-RPS/RFS/RCS/RDT 076C through 150C

Data		Unit Size				
		110D	120D	125D	130D	140D
Compressor	Quantity- hp	6-15	3-15 3-20	6-20	6-20	3-20 3-25
	Std. Capacity control	100-84-67-50-33-17-0	100-83-67-49-33-16-0	100-84-67-50-33-17-0		100-83-67-49-33-16-0
Condenser fans	Qty-diameter (in)	8-26	9-26	10-26	12-26	12-26
Condenser fan motors	Qty- hp	8-1.0	9-1.0	10-1.0	12-1.0	12-1.0
Supply fans	Type	DWDI airfoil				
	Qty-diameter (in)	1-36, 40	1-36, 40	1-36, 40	1-36, 40	1-36, 40
	Motor hp range	5-75	5-75	5-75	5-75	5-75
Return fans	Type	SWSI airfoil				
	Qty-diameter (in)	1-44.5	1-44.5	1-44.5	1-44.5	1-44.5
	Motor hp range	5-60	5-60	5-60	5-60	5-60
Exhaust fans	Type	Propeller				
	Diameter (in)	36	36	36	36	36
	Quantity	1-3 per unit	1-3 per unit	1-3 per unit	1-3 per unit	1-3 per unit
	Motor hp range	5 each	5 each	5 each	5 each	5 each
Evaporator coils	Rows	4, 5	4, 5	4, 5	4, 5	4, 5
	FPI	10, 12	10, 12	10, 12	10, 12	10, 12
	F.A., small (sq ft)	60.8	60.8	-	-	-
	F.A., large (sq ft)	76.0	76.0	76.0	76.0	76.0
Hot water coils	Type-rows	5WH-1	5WH-1	5WH-1	5WH-1	5WH-1
		5WS-2	5WS-2	5WS-2	5WS-2	5WS-2
	FPI	9	9	9	9	9
	Face area (sq ft)	42.2	42.2	42.2	42.2	42.2
Steam coils	Type-rows	5JA-1, 2	5JA-1, 2	5JA-1, 2	5JA-1, 2	5JA-1, 2
	FPI	6, 12	6, 12	6, 12	6, 12	6, 12
	Face area (sq ft)	42.2	42.2	42.2	42.2	42.2
Gas furnace	Input (MBh)	625, 800, 812, 988, 1000, 1250, 1375, 1750, 1875, 2500				
	Nom. output (MBh)	500, 640, 650, 790, 800, 1000, 1100, 1400, 1500, 2000				
Electric heat	Nom. output (kW)	80, 100, 120, 160, 200, 240, 280, 320				
Panel filters	Type	85% (MERV 13) or 30% (MERV 7 or 8), pleated				
	Area (sq ft)	116.1	116.1	116.1	116.1	116.1
	Qty-size (in)	11-16 × 20 × 2 33-16 × 25 × 2	11-16 × 20 × 2 33-16 × 25 × 2	11-16 × 20 × 2 33-16 × 25 × 2	11-16 × 20 × 2 33-16 × 25 × 2	11-16 × 20 × 2 33-16 × 25 × 2
Prefilters (for cartridge filters)	Type	Prefilter, 30% (MERV 7 or 8), standard flow				
	Area (sq ft)	64.0	64.0	64.0	64.0	64.0
	Qty-size (in)	4-12 × 24 × 2 12-24 × 24 × 2	4-12 × 24 × 2 12-24 × 24 × 2	16-24 × 24 × 2	16-24 × 24 × 2	16-24 × 24 × 2
	Type	Prefilter, 30% (MERV 7 or 8), standard flow				
	Area (sq ft)	80.0	80.0	80.0	80.0	80.0
	Qty-size (in)	8-12 × 24 × 2 16-24 × 24 × 2	8-12 × 24 × 2 16-24 × 24 × 2	8-12 × 24 × 2 16-24 × 24 × 2	8-12 × 24 × 2 16-24 × 24 × 2	8-12 × 24 × 2 16-24 × 24 × 2
Cartridge filters	Type	65% (MERV 11) or 95% (MERV 14), standard flow				
	Area (sq ft)	64.0	64.0	64.0	64.0	64.0
	Qty-size (in)	16-24 × 24 × 12	16-24 × 24 × 12	16-24 × 24 × 12	16-24 × 24 × 12	16-24 × 24 × 12
	Type	65% (MERV 11) or 95% (MERV 14), standard flow				
	Area (sq ft)	80.0	80.0	80.0	80.0	80.0
	Qty-size (in)	8-12 × 24 × 12 16-24 × 24 × 12	8-12 × 24 × 12 16-24 × 24 × 12	8-12 × 24 × 12 16-24 × 24 × 12	8-12 × 24 × 12 16-24 × 24 × 12	8-12 × 24 × 12 16-24 × 24 × 12

1. Gas furnace size availability is limited by minimum airflow (RFS/RPS only).
2. 460-volt capacities are shown. Electric heat availability is limited by minimum airflow (RFS/RPS only).

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Applied Rooftop Systems

Physical Data-RPS/RFS/RCS/RDT 076C through 150C

Data		Unit Size						
		076C	089C	100C	110C	130C	140C	150C
Nominal capacity (tons)[1]		79.2	89.4	98.9	119.3	130.8	141.9	152.5
Nominal airflow (CFM)		32,000	35,000	35,000	42,000	45,000	46,000	46,000
Compressor	Type	Reciprocating						
	Quantity- hp	2-30	2-35	2-40	4-25	4-30	2-30, 2-35	4-35
	Std. capacity control	100-83-67-33-0			100-75-50-25-0		100-72-44-22-0	100-75-50-25-0
	Opt. capacity control	100-83-67-50-33-16-0			100-88-75-63-50-38-25-12-0		100-89-79-61-44-32-22-11-0	100-92-83-67-50-42-33-16-0
Condenser fans	Qty-diameter (in)	4-26	4-26	4-26	6-26	6-26	6-26	6-26
Condenser fan motors	Qty- hp	4-1.5	4-1.5	4-1.5	6-1.5	6-1.5	6-1.5	6-1.5
Refer to RPS and RDT tables for additional physical data								

1. Rated in accordance with AHRI Standard 360

Typical savings vs. Air-cooled rooftop systems*

To illustrate the savings generated by evaporative condensing, consider a two-story shopping mall using several 125-ton VAV rooftop units, occupied 365 days a year. The table below shows the Daikin RPE condensing unit savings if the mall is located in Los Angeles, New York or Las Vegas.

Conditions		Los Angeles		New York		Las Vegas	
		Air-cooled	Daikin RPE	Air-cooled	Daikin RPE	Air-cooled	Daikin RPE
Design ambient dry bulb/wet bulb		95°F/72°F	95°F/72°F	95°F/75°F	95°F/75°F	110°F/72°F	110°F/72°F
Electrical consumption rate (per kW hour)		$0.15	$0.15	$0.11	$0.11	$0.07	$0.07
Electrical demand rate (per kW hour)		$24.00	$24.00	$18.00	$18.00	$8.00	$8.00
Condensing unit	Efficiency (kW/ton)	1.15	0.85	1.15	0.88	1.40	0.85
	Electrical cost	$30,200	$22,100	$17,860	$12,375	$19.042	$11.351
	Percent savings	27%		31%		40%	

* All energy analysis comparison charts are estimates and have been generated using Energy Analyzer™ software. Actual customer results may vary. For more information on Energy Analyzer software, see page 7.

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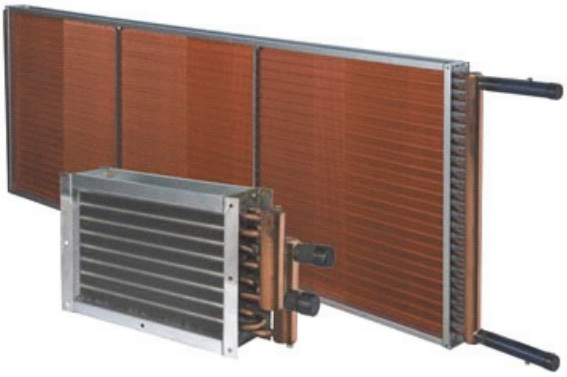
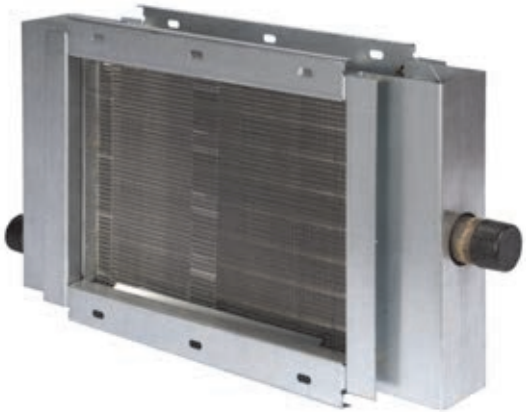
Water Cooling or Heating, Evaporator and Steam

Fin Types A-Fin, B-Fin, and C-Fin

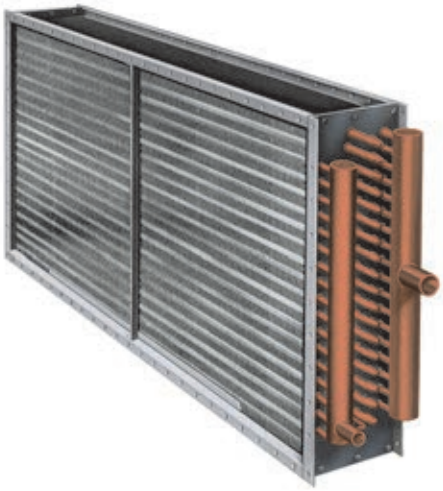


Water cooling or heating coils



Steam coils

Evaporator coils



Reclaiming and Condenser coils

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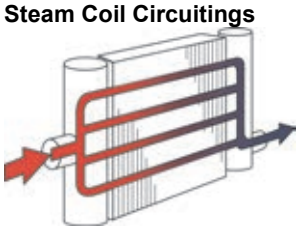
Steam Coils - Types C-Fin, B-Fin, and A-Fin

C-Fin high efficiency fin type
Maximum heat transfer due to continuous air turbulence across the fin surface

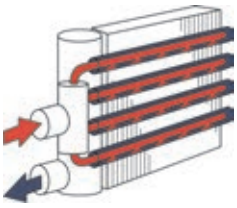
B-Fin energy efficient fin type
- Energy saving
- Reduces air pressure drop by as much as 33% compared to C-Fin
- Fan brake horsepower requirements are lower

A-Fin flat fin type
- Energy saving
- Reduces air pressure drop by as much as 33% compared to B-Fin
- Fan brake horsepower requirements are lower

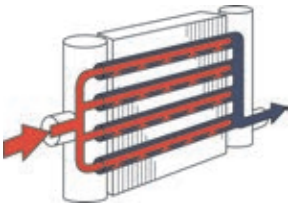
Steam Coil Circuitings



5S, 5H
Single tube



5J, 5G, 8J, 8G
Distributing tube
(same end connections)



8R, 8T
Distributing tube
(opposite end connections)

Directional orifice
(distributing tube
steam coils)

Standard Availability Chart - Steam Coils

Coil type			Steam (single tube)		Steam (distributing tube)					
Coil model			5SA	5HA	5JA	5GA	8JA	8GA	8RA	8TA
Serpentine circuit			Does not apply		Does not apply					
Rows			1,2		1,2		1			
Connection location			Opposite end		Same end		Same end		Opposite end	
Fin height, 3" increment			12" to 42"							
Fin length, 0.10" increment			12" to 129"							
Fin spacing (FPI)			6 to 14				3 to 14			
Fins	Fin type	C-Fin	•	•	•	•	•	•	•	•
		B-Fin	•	•	•	•				
		A-Fin	•	•	•	•				
	Aluminum	.0075	•	•	•	•				
		.0095	•	•	•	•	•*	•*	•*	•*
		.0120					•		•	
	Copper	.006	•	•	•	•				
		.0075	•	•	•	•	•*	•*	•*	•*
		.0095	•	•	•	•	•*	•*	•*	•*
Tubing	Copper	.020[1]	•		•					
		.025	•		•		•		•	
		.035	•		•					
		.049	•		•		•		•	
	Cupro-nickel	.020		•		•				
		.035		•		•		•		•
		.049		•		•		•		•
Tubing diameter			5/8"		5/8"		1"			
Tubing face C/C			1.5		1.5		3.0			
Headers standard material			Copper	Cu Ni	Copper	Cu Ni	Copper	Cu Ni	Copper	Cu Ni
Maximum standard operating limits		P	150 psig	350 psig	150 psig	350 psig	150 psig	350 psig	150 psig	350 psig
		T	366°F	450°F	366°F	450°F	366°F	450°F	366°F	450°F

• Feature available.
* Requires 6 fins per inch or more.
1. 0.020 is a nominal tube thickness.

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Water Cooling and Evaporator Coils - Types C-Fin, B-Fin, and A-Fin

Water cooling or heating coils

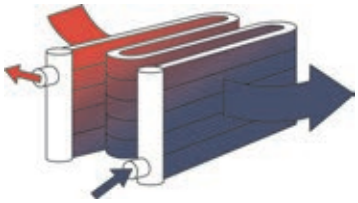
Evaporator coils

C-Fin high efficiency fin type
Maximum heat transfer due to continuous air turbulence across the fin surface

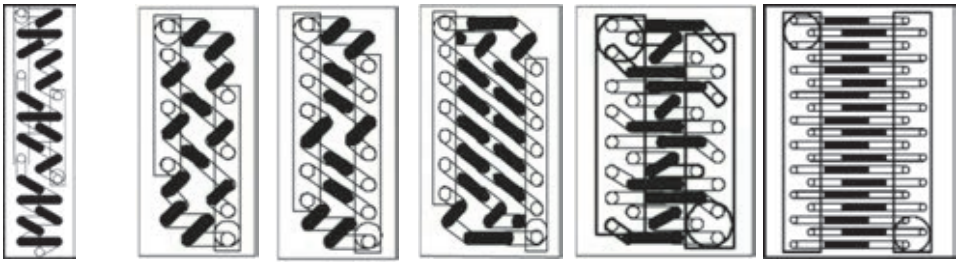
B-Fin energy efficient fin type
- Energy saving
- Reduces air pressure drop by as much as 33% compared to C-Fin
- Fan brake horsepower requirements are lower

A-Fin flat fin type
- Energy saving
- Reduces air pressure drop by as much as 33% compared to B-Fin
- Fan brake horsepower requirements are lower

Chilled Water Coil Circuiting

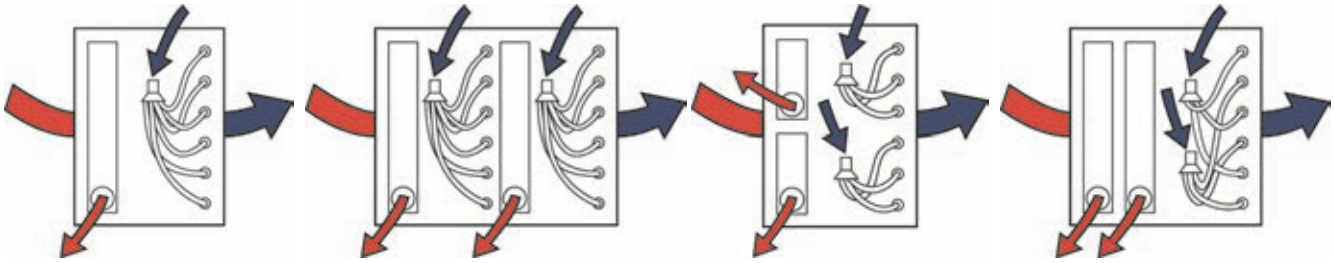


- Six standard serpentine circuitings
- Counterflow water circuits
- Unique or universal hand of connection available (all cooling coils)



5WQ 1/4 Serpentine | 5WH 1/2 Serpentine | 5WL 3/4 Serpentine | 5WS 1 Serpentine | 5WM 1-1/2 Serpentine | 5WD 2 Serpentine

Evaporator Coil Circuiting



5EN Normal | 5ER Row control | 5EF Face control | 5EJ, 5EK Interlaced

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Water Cooling and Evaporator Coils - Types C-Fin, B-Fin, and A-Fin

Standard Availability Chart - Water Cooling and Evaporator Coils

Coil type			Chilled water							Evaporator				
Coil model			5MH	5MS	5WH	5WL	5WS	5WM	5WD	5EN	5EF	5ER	5EJ	5EK
Serpentine circuit			1/2	1	1/2	3/4	1	1-1/2	2	Normal	Face	Row	Interlaced	
Rows			2		3,4,5,6, 8,10,12			4,5,6,8, 10,12	4,6,8, 10,12	2,3,4,5, 6,8,10		6	3,4,6,8	4,8
Connection location			Same end except 5WS 3,5 row; 5WD 6,10 row							Same end				
Fin height 3" increment			12" to 54"							12" to 54"			15" to 54"	
Fin length 0.10" increment			12" to 216"							12" to 161" (up to 216" with manufacturing approval)				
Fin spacing (FPI)			6 to 14							6 to 14				
Fins	Fin type	C-Fin	•	•	•	•	•	•	•	•	•	•	•	•
		B-Fin	•	•	•	•	•	•	•	•	•	•	•	•
		A-Fin	•	•	•	•	•	•	•	•	•	•	•	•
	Aluminum	.0075	•	•	•	•	•	•	•	•	•	•	•	•
		.0095	•	•	•	•	•	•	•	•	•	•	•	•
	Copper	.006	•	•	•	•	•	•	•	•	•	•	•	•
		.0075	•	•	•	•	•	•	•	•	•	•	•	•
		.0095	•	•	•	•	•	•	•	•	•	•	•	•
Tubing	Copper	.020[1]	•	•	•	•	•	•	•	•	•	•	•	•
		.025	•	•	•	•	•	•	•	•	•	•	•	•
		.035	•	•	•	•	•	•	•	•	•	•	•	•
		.049	•	•	•	•	•	•	•					
Tubing diameter			5/8"							5/8"				
Tubing face C/C			1.5							1.5				
Headers standard mat'l[2]			Copper tubing							Copper tubing				
Maximum std. operating limits		P	250 psig							250 psig				
		T	300°F							300°F				

• Feature available

1. 0.020 is a nominal tube thickness.
2. Optional header materials are available. Consult your local Daikin Sales Representative.

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Water Heating Coils - Types C-Fin, B-Fin, and A-Fin

Water cooling or heating coils

Reclaiming and Condenser coils

C-Fin high efficiency fin type
Maximum heat transfer due to continuous air turbulence across the fin surface

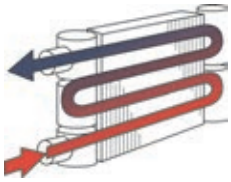
B-Fin energy efficient fin type

- Energy saving
- Reduces air pressure drop by as much as 33% compared to C-Fin
- Fan brake horsepower requirements are lower

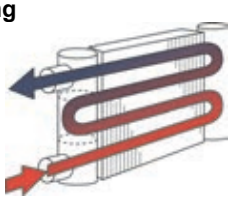
A-Fin flat fin type

- Energy saving
- Reduces air pressure drop by as much as 33% compared to B-Fin
- Fan brake horsepower requirements are lower

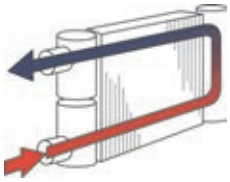
Hot Water Coil Circuiting



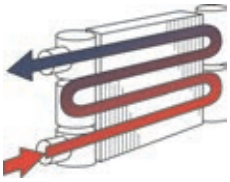
5WQ
1/4 Serpentine (1 row)



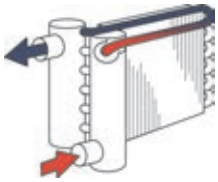
5WH
1/2 Serpentine (2 row)



5WH
1/2 Serpentine (1 row)

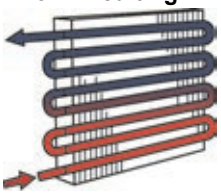


5WS
1 Serpentine (2 row)

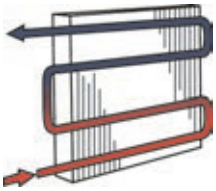


5MQ 1/4 Serpentine (1 row)
5MH 1/2 Serpentine (1, 2 row)
5MS 1 Serpentine (1 row)

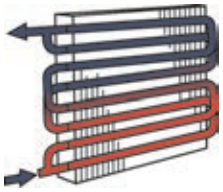
Hot Water Booster Coil Circuiting



5BS
Single feed (1, 2 row)



5BB
Single feed (1, 2 row)



5BD
Double feed (2 row)

Standard Availability Chart - Water Heating Coils

Coil type			Hot water										Hot water (booster)		
Coil model			5MQ	5MH	5MS	5WB	5WQ	5WH	5WL	5WS	5WM	5WD	5BB	5BS	5BD
Serpentine circuit			1/4	1/2	1	1	1/4	1/2	3/4	1	1-1/2	2	1 feed	1 feed	1 feed
Rows			1	1,2	2	1,2	1-12	1-12	3-12	3-12	4-12	4,6,8,10,12	1,2	1,2	2
Connection location			Same end except 5WS 3-row										Same end		
Fin height 3" increment			12" to 54"			12" to 42" (1 & 2 row) & 12-54 (3 -12 row)							6" to 24"		
Fin length 0.10" increment			12" to 216"										6" to 60"		
Fin spacing (FPI)			6 to 14										6 to 14		
Fins	Fin type	C-Fin	●	●	●	●	●	●	●	●	●	●	●	●	●
		B-Fin	●	●	●	●	●	●	●	●	●	●	●	●	●
		A-Fin	●	●	●	●	●	●	●	●	●	●	●	●	●
	Aluminum	.0075	●	●	●	●	●	●	●	●	●	●	●	●	●
		.0095	●	●	●	●	●	●	●	●	●	●	●	●	●
	Copper	.006	●	●	●	●	●	●	●	●	●	●	●	●	●
		.0075	●	●	●	●	●	●	●	●	●	●	●	●	●
		.0095	●	●	●	●	●	●	●	●	●	●	●	●	●
Tubing	Copper	.020[1]	●	●	●	●	●	●	●	●	●	●	●	●	●
		.025	●	●	●	●	●	●	●	●	●	●	●	●	●
		.035	●	●	●	●	●	●	●	●	●	●	●	●	●
		.049	●	●	●	●	●	●	●	●	●	●			
Tubing diameter			5/8"										5/8"		
Tubing face C/C			1.5	3.0	1.5								3.0	1.5	
Headers standard mat'l[2]			Copper tubing										Threaded copper fittings		
Maximum std. operating limits		P	250 psig										250 psig		
		T	300°F										300°F		

● Feature available
1. 0.020 is a nominal tube thickness.
2. Optional header materials are available. Consult your local Daikin Sales Representative.

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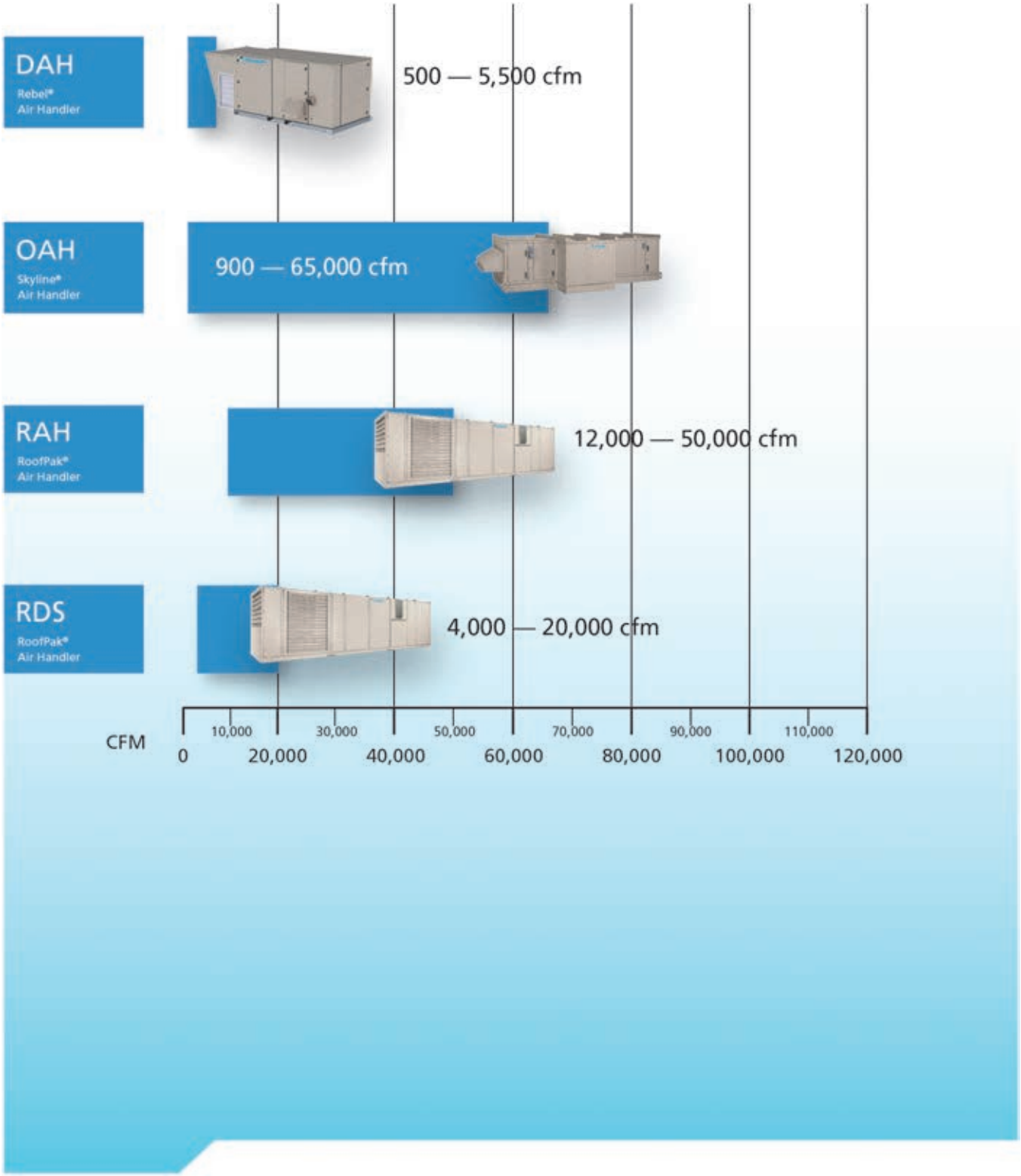
Commercial Outdoor Air Handling Systems

Product Summary Chart

Model:



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Commercial Outdoor Air Handling Systems

Physical Data - Quick Select Table - Rebel A03 through A11

Table 2: Physical Data—Standard Units DAH A03 through A11

Model	Small Cabinet			Medium Cabinet		
	A03	A04	A05	A07	A09	A11
Indoor coil						
Rows / FPI	3/14, 5/12	3/14, 5/12	3/14, 5/12	3/14, 5/12	3/14, 5/12	3/14, 4/12, 5/12
Face area (sq ft)	3.16	4.06	4.97	6.97	9.03	11.07
Indoor fan						
Type	Centrifugal Airfoil (SWSI)			Centrifugal Airfoil (SWSI)		
Quantity / Diameter1	(1) 12", (1) 14", (1) 16"			(1) 12", (1) 14", (1) 16"		
Drive type	Direct Drive			Direct Drive		
Motor HP range	1.3 / 2.3 / 4.0			2.3 / 4.0 / 8.0		
Filters						
Type	2", 4"			2", 4"		
Area (sq ft)	7.1			18		
Qty. - size	4 – 16 × 16			6 – 18 × 24		
Electric heat performance						
Control Options	2/4/SCR			4 stage/SCR		
kW (low/medium/high heat)	6/12/18/30			18/36/54/72		
Gas heating performance						
Input capacity (MBh)	80/120/160			200/300/400		
Number of stages (staged option)	2			2		
Turndown (Modulating options)	5:1			5:1, 10:1		
Gas connection size (mpt)	1/2"			3/4"		
Steady state efficiency	80%			80%		
Heating coil						
Type	Hot Water			Hot Water		
Rows / FPI (high heat/low heat)	(2/10) / (1/8)			(2/10) / (1/8)		
Face area (sq ft)	2.5			5.4		
NOTE:1 Some options shown are yet to be released						

Table 3: Physical Data—Unit Weights DAH A03 through A11

Model	Small Cabinet				Medium Cabinet	
	A03	A04	A05	A07	A09	A11
Weight (lbs.)						
Base Weight[1]	600	620	640	975	1,000	1,050
High Capacity Coil[2]	15	18	22	23	37	44
Electric Heat	45	45	45	100	100	100
Hot Water 1 Row	11	11	11	32	32	32
Hot Water 2 Row	16	16	16	41	41	41
Gas Heat	75	75	75	186	186	186
Economizer	163	163	163	308	308	308
Energy Wheel Weight Adds (lbs.)						
100% OA	160	160	160	300	300	300
Mixed Air	175	175	175	250	250	250

1. Includes standard cooling coil
2. Dry coil weight

Size A03–A11 Fan Weights (lbs.)	
12 Inch (310 mm)	87
14 Inch (360 mm)	91
16 Inch (400 mm)	115
22 Inch (560 mm)	115

Curb Weights (lbs.)	14"	24"
A03—A05	156	230
A07—A11	200	295

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Commercial Outdoor Air Handling Systems

Physical Data - Quick Select Table - Skyline 003 through 021*

Description	Unit size								
	003	004	006	008	010	012	014	017	021
Airflow range, CFM	900–2500	1200–3100	1700–4600	2200–6000	2900–7700	3600–9700	4200-11,200	5000-13,500	6000-16,000
CFM @ 500 ft/min through large face area coil	1550	1950	2850	3750	4800	6050	7000	8400	10050
Height × width, in	28 × 38	32 × 40	32 × 52	34 × 58	38 × 64	44 × 66	44 × 74	46 × 80	52 × 82
Cooling coil face area, sq.ft.									
Staggered large	NA	NA	NA	NA	NA	NA	NA	NA	NA
Large	3.1	3.9	5.7	7.5	9.6	12.1	14	16.8	20.1
Staggered medium	NA	NA	NA	NA	NA	NA	NA	NA	NA
Medium	2.1	3.4	4.9	5.6	7.4	9.9	11.4	12.6	15.8
Small	NA	2.8	4.1	4.7	6.4	8.8	10.2	11.2	14.4
Fan section–depth, in									
Largest housed fan avail. w/ top hor. dis.	32	32	36	40	42	46	50	50	52
Largest Belt-drive plenum fan available	N/A	N/A	32	32	34	40	42	44	48
Largest Direct-drive plenum fan available	30	34	34	38	46	50	50	54	58
Largest twin fan and motor available	N/A	N/A	N/A	50	54	54	56	66	66
Largest 1 × 3 fan array and motor available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Largest 2 × 2 fan array and motor available	N/A	N/A	N/A	N/A	N/A	N/A	34	38	38
Largest ECM available	24	30	30	30	30	30	30	30	30
Mixing box–depth, in									
Mixing box only	16	16	16	20	20	20	20	22	24
Mixing box with flat filter	20	20	20	24	24	24	24	26	28
Mixing box with angular filter	42	42	42	42	42	42	42	44	46
Economizer–depth, in									
Standard Economizer- Side dampers	56	48	64	68	68	68	72	80	80
Blender–depth, in Angled Economizer	N/A	N/A	N/A	34	34	34	36	40	40
Largest Kees	18	20	24	26	28	34	36	38	42
Largest Blender Products IV	18	22	26	30	34	38	40	46	48
Side load filter sections–depth, in									
Flat 2" and 4"	12	12	12	12	12	12	12	12	12
2" angular	32	30	30	30	30	30	30	30	30
Cartridge (12" deep w/ 2" prefilter)	22	22	22	22	22	22	22	22	22
Bag (36" w/ 2"prefilter)	42	42	42	42	42	42	42	42	42
Front load filter sections–depth, in									
Cartridge (12"deep w/ 2"prefilter)	16	16	16	16	16	16	16	16	16
Bag (36" w/ 2"prefilter)	40	40	40	40	40	40	40	40	40
Face and bypass–depth, in									
Internal	12	12	12	12	12	12	12	12	12
External	18	18	18	20	22	24	24	26	30
Coil sections–depth, in									
Heating only (2-row water)	12	12	12	12	12	12	12	12	16
Cooling only (4-row water)	18	18	18	18	18	18	18	18	18
Cooling only (6-row water)	20	20	20	20	20	20	20	20	20
Clg (12-row) & reheat (1-row)	32	32	32	32	32	32	32	32	32
Access sections–depth, in									
16" deep	16	16	16	16	16	16	16	16	16
24" deep	24	24	24	24	24	24	24	24	24
30" deep	30	30	30	30	30	30	30	30	30
36" deep	36	36	36	36	36	36	36	36	36
42" deep	42	42	42	42	42	42	42	42	42
48" deep	48	48	48	48	48	48	48	48	48
54" deep	54	54	54	54	54	54	54	54	54
Diffuser–depth, in									
With housed fan	10	10	10	12	12	16	16	16	16
Attenuator–depth, in									
Short	40	40	40	40	40	40	40	40	40
Medium	52	52	52	52	52	52	52	52	52
Long	64	64	64	64	64	64	64	64	64
Supply or return plenum–depth, in									
Top, bottom or end opening	14	16	16	18	20	22	22	24	28

* Based on typical industry sizes. Skyline air handling units are available in 2 inch increments of height and width to fit the exact space requirements. Front load filter sections include 24" upstream plenum section with tread plate for heavy duty floor liner.

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Commercial Outdoor Air Handling Systems

Physical Data - Quick Select Table - Skyline 025 through 090*

Description	Unit size								
	025	030	035	045	055	065	080	085	090
Airflow range, CFM	7300-19,400	8500-22,500	10,000 - 26,500	9600 - 25,500	11,400 - 30,200	20,000 - 54,000	21,500 - 57,500	23,100 - 61,600	24,600 - 65,600
CFM @ 500 ft/min through large face area coil	12,150	14,150	16,700	19,300	24,500	33,300	35,900	38,450	41,000
Height × width, in	60 × 86	60 × 98	66 × 102	78 × 106	90 × 106	92 × 136	98 × 136	104 ×136	110 ×136
Cooling coil face area, sq.ft.									
Staggered large	27.4	31.9	37.1	50.4	58.1	76.9	82.0	87.1	92.3
Large	24.3	28.3	33.4	42.6	50.4	66.6	71.8	76.9	82.0
Staggered medium	21.3	24.8	29.7	34.9	46.5	61.5	61.5	66.6	71.8
Medium	18.3	21.3	26.0	31.0	38.8	51.3	51.3	56.4	61.5
Small	16.7	19.5	24.1	27.1	34.9	46.1	46.1	51.3	56.4
Fan section-depth, in									
Largest housed fan avail. w/ top hor. dis.	58	58	60	94	96	96	96	96	96
Largest Belt-drive plenum fan available	50	54	54	56	56	68	68	68	68
Largest Direct-drive plenum fan available	66	66	66	68	68	74	74	74	74
Largest twin fan and motor available	64	82	82	82	82	82	82	82	82
Largest 1 × 3 fan array and motor available	NA	NA	30	34	34	46	46	46	46
Largest 2 × 2 fan array and motor available	44	46	46	50	50	62	62	62	62
Largest ECM available	30	30	30	30	30	30	30	30	30
Mixing box-depth, in									
Mixing box only	26	26	28	30	34	36	38	40	42
Mixing box with flat filter	30	30	32	34	38	40	42	44	46
Mixing box with angular filter	48	48	50	52	56	58	60	62	64
Economizer-depth, in									
Standard Economizer- Side dampers	76	84	88	80	84	108	108	104	104
Blender–depth, in Angled Economizer	38	42	44	40	42	54	54	52	52
Largest Kees	46	48	58	64	68	76	80	84	84
Largest Blender Products IV	52	60	64	70	70	88	88	92	92
Side load filter sections-depth, in									
Flat 2" and 4"	12	12	12	12	12	12	12	12	12
2" angular	32	32	32	32	32	32	32	32	32
Cartridge (12" deep w/ 2" prefilter)	22	22	22	22	22	22	22	22	22
Bag (36" w/ 2"prefilter)	42	42	42	44	44	42	42	42	42
Front load filter sections-depth, in									
Cartridge (12"deep w/ 2"prefilter)	16	16	16	20	20	16	16	16	16
Bag (36" w/ 2"prefilter)	40	40	40	44	44	40	40	40	40
Face and bypass-depth, in									
Internal	12	12	12	12	12	12	12	12	12
External	32	32	34	44	50	50	54	56	58
Coil sections-depth, in									
Heating only (2-row water)	12	12	12	16	16	12	12	12	16
Cooling only (4-row water)	26	26	26	26	26	26	26	26	26
Cooling only (6-row water)	28	28	28	28	28	28	28	28	28
Clg (12-row) & reheat (1-row)	40	40	40	40	40	40	40	40	40
Access sections-depth, in									
16" deep	16	16	16	16	16	16	16	16	16
24" deep	24	24	24	24	24	24	24	24	24
30" deep	30	30	30	30	30	30	30	30	30
36" deep	36	36	36	36	36	36	36	36	36
42" deep	42	42	42	42	42	42	42	42	42
48" deep	48	48	48	48	48	48	48	48	48
54" deep	54	54	54	54	54	54	54	54	54
Diffuser-depth, in									
With housed fan	24	24	24	30	30	30	30	30	30
Attenuator-depth, in									
Short	40	40	40	40	40	40	40	40	40
Medium	52	52	52	52	52	52	52	52	52
Long	64	64	64	64	64	64	64	64	64
Supply or return plenum-depth, in									
Top, bottom or end opening	30	30	32	32	40	42	48	52	54

* Based on typical industry sizes. Skyline air handling units are available in 2 inch increments of height and width to fit the exact space requirements. Front load filter sections include 24" upstream plenum section with tread plate for heavy duty floor liner.

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Commercial Outdoor Air Handling Systems

Physical Data - RDS 708B, 800C, and 802C - Component Data

Data	Unit size		
	708B	**800C**	**802C**
Cabinet Dimensions			
Length (in)	114-279	62-538	84-566
Height (in)	51.0	55.5	55.5
Width (in)	67.5	94.0	94.0
Supply Fans			
Type: Forward curved			
Qty-diameter (in)	1-15 × 6	2-15 × 6	1-24
Qty-diameter (in)	1-15 × 9	2-15 × 15	-
Qty-diameter (in)	1-15 × 15	-	-
Airflow range (CFM)	2,000-8,000	4,000-16,000	8,000-20,000
Motor hp range	1-7.5	1-20	1-25
Type: Backward curved			
Qty-diameter (in)	-	-	1-24
Airflow range (CFM)	-	-	8,000-20,000
Motor hp range	-	-	1-25
Type: Airfoil			
Qty-diameter (in)	1-16	1-20	-
Airflow range (CFM)	2,000-8,000	4,000-16,000	-
Motor hp range	1-10	1-25	-
Return Fans			
Type: Forward curved			
Qty-diameter (in)	1-15 × 15[1]	2-15 × 15	-
Airflow range (CFM)	2,000-7,200	3,000-14,400	-
Motor hp range	1-5	1-10	-
Type: Airfoil			
Qty-diameter (in)	1-16	1-30	1-30
Qty-diameter (in)	-	-	1-40
Airflow range (CFM)	2,000-7,200	3,000-14,400	6,000-18,000
Motor hp range	1-5	1-10	1-10
Throwaway 30% Pleated, Cleanable filters			
Area (sq ft)	13.9[1]	50.0	50.0
Qty-size (in)	4-20 × 25 × 2 -	10-16 × 20 × 2 10-16 × 25 × 2	10-16 × 20 × 2 10-16 × 25 × 2
Area (sq ft)	20.8[2]	-	-
Qty-size (in)	6-20 × 25 × 2 -	- -	- -
65% Cartridge Filters with 2" Pre-Filters			
Area (sq ft)	6.0[1]	24.0	24.0
Qty-size (in)	1-24 × 24 × 12 1-12 × 24 × 12	4-24 × 24 × 12 4-12 × 24 × 12	4-24 × 24 × 12 4-12 × 24 × 12
Area (sq ft)	12.0[2]	-	-
Qty-size (in)	2-24 × 24 × 12 2-12 × 24 × 12	- -	- -
95% Cartridge Filters with 2" Pre-Filters			
Area (sq ft)	8.0[1]	24.0	24.0
Qty-size (in)	2-24 × 24 × 12 -	4-24 × 24 × 12 4-12 × 24 × 12	4-24 × 24 × 12 4-12 × 24 × 12
Area (sq ft)	14.0[2]	-	-
Qty-size (in)	2-24 × 24 × 12 3-12 × 24 × 12	- -	- -
Gas, oil furnace[3]			
Input (MBh)	-	250, 312, 400, 500, 625, 800, 812, 988, 1000, 1250	
Nominal output (MBh)	-	200, 250, 320, 400, 500, 640, 650, 790, 800, 1000	
Electric[3]			
Nominal Output (kW)	-	20, 40, 60, 80, 100, 120, 140, 160, 180, 200, 220, 240	

1. Filter area for RDS 708B units with a 15" × 6" supply fan.
2. Filter area for RDS 708B units with a 15" × 9", 15" × 15" or 16" supply fan.
3. Gas, oil and electric heat selection is limited by the minimum airflow requirements.

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Commercial Outdoor Air Handling Systems

Physical Data - RDS 708B, 800C, and 802C - Contractor Coil[1] Data

Data	Unit size							
	708BS		708BL		800CY		802CY	
	Without	With	Without	With	Without	With	Without	With
Face & Bypass								
Physical								
Fin height (in)[2]	12-39	12-30	12-39	12-30	12-36	12-30	12-36	12-30
Fin length (in)	36	36	48	48	79	79	79	79
Max. coil depth (in)[3]	25.0	20.0	25.0	20.0	19.5	19.5	19.5	19.5
Max. face area (sq ft)	9.8	7.5	13.0	10.0	19.8	16.5	19.8	16.5
Bypass Area (sq ft)	-	1.9	-	2.5	-	3.3	-	3.3
Max bypass CFM	-	4,750	-	6,250	-	8,225	-	8,225
Chilled Water Coil								
Diameter (in.)	5/8				5/8			
Type - rows	5MH-2				5MH-2			
	5WH-3, 4, 5, 6, 8, 10				5WH-3, 4, 5, 6, 8, 10			
	5WL-3, 4, 5, 6, 8, 10				5WL-3, 4, 5, 6, 8, 10			
	5MS-2				5MS-2			
	5WS-4, 6, 8, 10				5WS-4, 6, 8, 10			
	5WM-5, 6, 8, 10				5WM-5, 6, 8, 10			
	5WD-8				5WD-8			
Evaporator coils								
Diameter (in)	5/8				5/8			
Type - rows	SEN-2, 3, 4, 5, 6, 8				SEN-2, 3, 4, 5, 6, 8			
	SER-6				SER-6			
	SEF-2, 3, 4, 5, 6, 8				SEF-2, 3, 4, 5, 6, 8			
	SEJ-3, 4,6, 8				SEJ-3, 4,6, 8			
	SEK-4, 8				SEK-4, 8			
Hot water coils								
Diameter (in.)	5/8				5/8			
Type - rows	SWB-1, 2				5WB-1			
	5WQ-1				5WQ-1			
	5WH-1, 2				5WH-1			
	SWS-2				5MH-2[4]			
	-				5MS-2[4]			
	-				-			
Steam coils								
Diameter (in)	5/8				5/8			
Type - rows	5-JA1, 2				5-JA1, 2			
	5GA-1, 2				5GA-1, 2			
	1				1			
	8JA-1				8JA-1			
	8GA-1				8GA-1			

1. Contractor coils have opposite drive end connections.
2. On the RDS 708B, 800C and 802C, contractor coils available with fin heights between given range of 3" increments.
3. On the RDS 708B, the maximum coil depth does not include the 6" spacer provided between the last two coils.
4. If cooling coil is in the same section, the cooling coil is limited to 8 rows.

RDS 800/802C Unit Heating Coil[1]

Tube diameter	5/8
Fin height (in)[2]	39
Fin length (in)	75
Type/rows, hot water	5WH/1 and 5WS/2
Type/rows, steam	5JA/1

1. Valve packages available.
2. If cooling coil is in the same section, the cooling coil is limited to 8 rows.

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Physical Data - RDS 708B, 800C, and 802C - unit coil data

Data	Unit size	
	800CL	802CL
Chilled water coils		
Type-rows-fin geometry	5WH-3, 4, 5, 6-C	5WH-3, 4, 5, 6-C
	5WL-3, 4, 5, 6-C	5WL-3, 4, 5, 6-C
	5WS-4, 6-C	5WS-4, 6-C
Fins per inch	8, 10, 12	8, 10, 12
FH × FL (in.)	48 × 78	48 × 78
Face area (ft^2)	26.0	26.0
Maximum Airflow (CFM)	16,900	16,900
Valve Package (in.)	1, 1-1/4, 1-1/2, 2	1, 1-1/4, 1-1/2, 2
Supply & return conn. (in.)	2.62 copper sweat	2.62 copper sweat
Evaporator coils		
Type-rows-fin geometry	5EN-3, 4, 5-C	5EJ-3, 4, 5-C
Fins per inch	8, 10, 12	8, 10, 12
FH × FL (in.)	48 × 82	48 × 82
Face area (ft^2)	27.3	27.3
Maximum airflow (CFM)	17,750	17,750
Compressor circuits/split	1/100	2/50-50
Liquid connection (in.)	1-3/8 ODM copper	1-1/8 ODM copper
Suction connection (in.)	2-1/8 ODS copper	1-5/8 ODS copper
Hot water coils		
Type-rows-fin geometry	5WH-1-H	5WH-1-H
	5WS-2-C	5WS-2-C
Fins per inch	9	9
FH × FL (in.)-heat only	39 × 75	39×75
Face area (ft^2) - heat only	20.3	20.3
FH × FL (in.)-heat/cool	39 × 78	39 × 78
Face area (ft^2)-heat/cool	21.1	21.1
Valve package (in.)	1, 1-1/4, 1-1/2, 2	1, 1-1/4, 1-1/2, 2
Supply & return conn. (in.)	1-5/8 ODM copper	1-5/8 ODM copper
Steam coils		
Type-rows-fin geometry	5JA-1-H	5JA-1-H
Fins per inch	6, 12	6, 12
FH × FL (in.)-heat only	39 × 75	39 × 75
Face area (ft^2)-heat only	20.3	20.3
FH × FL (in.)-heat/cool	39 × 78	39 × 78
Face area (ft^2)-heat/cool	21.1	21.1
Valve package (in.)	1, 1-1/4, 1-1/2, 2	1, 1-1/4, 1-1/2, 2
Supply & return conn. (in.)	2-1/2 MPT iron	2-1/2 MPT iron

1. Unit coils are HI-F5 fin design and have opposite drive end connections except to the heat only section.
2. Valve package available in cooling only and heating only sections.
3. For coils with factory valve package, supply and return connections are the size of the valve with female threading.

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Physical Data - RAH 047C and 077C - component data

Data		Unit size					
		047CS	047CL	047CY	077CS	077CL	077CY
Cabinet	Length (in.)	96–552	96–576	96–504	96–624	96–696	96-600
	Height (in.)	73.0			97.0		
	Width (in.)	99.0			99.0		
Throwaway filters (standard)	**Throwaway**						
	Area (ft^2)	73.9			116.1		
	Qty-size (in.)	7-16 × 20 × 2 21-16 × 25 × 2			11-16 × 20 × 2 33-16 × 25 × 2		
Throwaway filters (optional)	**30% pleated**						
	Area (ft^2)	73.9			116.1		
	Qty-size (in.)	7-16 × 20 × 2 21-16 × 25 × 2			11-16 × 20 × 2 33-16 × 25 × 2		
	Pre-filter, standard flow						
	Area (ft^2)	40.0			56.0		
	Qty-size (in.)	4-12 × 24 × 2 8-24 × 24 × 2			4-12 × 24 × 2 12-24 × 24 × 2		
	Pre-filter, medium flow						
	Area (ft^2)	48.0			64.0		
	Qty-size (in.)	8-12 × 24 × 2 8-24 × 24 × 2			- 16-24 × 24 × 2		
	Pre-filter, high flow						
	Area (ft^2)	-			80.0		
	Qty-size (in.)	- -			8-12 × 24 × 2 16-24 × 24 × 2		
Cartridge filters (optional)	**65% or 95%, standard flow**						
	Area (ft^2)	40.0			56.0		
	Qty-size (in.)	4-12 × 24 × 12 8-24 × 24 × 12			4-12 × 24 × 12 12-24 × 24 × 12		
	65% or 95%, medium flow						
	Area (ft^2)	48.0			64.0		
	Qty-size (in.)	8-12 × 24 × 12 8-24 × 24 × 12			- 16-24 × 24 × 12		
	65% or 95%, high flow						
	Area (ft^2)	-			80.0		
	Qty-size (in.)	- -			8-12 × 24 × 12 16-24 × 24 × 12		
DWDI supply fans	**Airfoil (27” FC also offered on 047)**						
	Diameter (inch)	27, 30, 33			33, 36, 40		
	Max. airflow (CFM)	30,000			50,000		
	Motor hp range	3–50			5–75		
SWSI supply fans	**Airfoil**						
	Diameter (inch)	40, 44			44, 49		
	Max. airflow (CFM)	30,000			50,000		
	Motor hp range	3–50			5–75		
Return fans	**Airfoil**						
	Diameter (inch)	40			44		
	Max. airflow (CFM)	27,000			45,000		
	Motor hp range	2–30			5–60		
Exhaust fans	**Propeller**						
	Diameter (inch)	36 Inch					
	Quantity	1–2 Per Unit			2–3 Per Unit		
	Motor hp	5 hp Each					
	Airflow range(CFM)	11,000–30,000			22,000–50,000		
Electric	Nom. output (kW)	40, 60, 80, 100, 120, 160, 200, 240			80, 100, 120, 160, 200, 240, 280, 320		
Gas furnace	Input (MBh)	250 312 400 500 625 800 812 988 100 1250*			625 800 812 988 1000 1250 1375 1750 2500*		
	Nom. output (MBh)	200 250 320 400 500 640 650 790 800 1000			500 640 650 650 790 800 1000 1100 1400 1500 2000*		

* Furnace size availability is limited by the minimum airflow per Table 23 on page 46.

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Commercial Outdoor Air Handling Systems

Physical Data - RAH 047C and 077C - coil data

Data		Unit size							
		047CS		047CL		077CS		077CL	
		wo/ F&BP	w/ F&BP2	wo/ F&BP	w/ F&BP2	wo/ F&BP	w/ F&BP2	wo/ F&BP	w/ F&BP2
Evaporator coils	Rows	3, 4, 5, 6							
	Fins per inch	8, 10, 12,							
	Fin material	Aluminum, copper							
	FH × FW (in.)	66 × 87.5	-	(2) 39 × 87.5	-	90 × 87.5	-	(2) 63 × 87.5	-
	Face area (sq ft)	40.1	-	47.4	-	54.7	-	76.6	-
	Max. CFM	26,000	-	30,800	-	35, 500	-	49,800	-
Chilled water coils	Type-rows Valve package (in.)	5WH-3, 4, 5, 6, 8							
		1½, 2, 2½	-	1½, 2, 2½	-	1¼, 1½, 2½, 3	-	2, 2½, 3	-
		5WL-3, 4, 5, 6, 8							
		1½, 2, 2½	-	1½, 2, 2½, 3	-	1½, 2, 2½, 3	-	2, 2½, 3	-
		5WS-4, 6, 8							
		2, 2½, 3	-	1½, 2, 2½, 3	-	1½, 2, 2½, 3	-	2, 2½, 3	-
		5WM-4, 5, 6, 8							
		2, 2½, 3	-	1½, 2, 2½, 3	-	2, 2½, 3	-	2, 2½, 3	-
		5WD-4, 8							
		2, 2½, 3	-	2, 2½, 3	-	2, 2½, 3	-	2, 2½, 3	-
	Fins per inch	8, 10, 12							
	Fin material	Aluminum, copper							
	FH × FW (in.)	66 × 83	48 × 83	(2) 39 × 83	(2) 39 × 83	90 × 83	63 × 83	(2) 63 × 83	(2) 54 × 83
	Face area (sq ft)	38.0	27.7	45.0	45.01	51.9	36.3	72.6	62.3
	Max face CFM	24,700	18,000	29,200	29,200	33,700	23,600	47,200	40,500
	Bypass Area (sq ft)	-	9.2	-	10.4	-	14.4	-	18.4
	Max. bypass CFM	-	23,000	-	25,900	-	36,000	-	46,100
Hot water coils	Type-rows Valve package (in.)	5WH-1							
		1¼, 1½, 2, 2½, 3	-	1¼, 1½, 2, 2½, 3	-	1½, 2, 2½, 3	-	1½, 2, 2½, 3	-
		5WS-2							
		1¼, 1½, 2, 2½, 3	-	1¼, 1½, 2, 2½, 3	-	1½, 2, 2½, 3	-	1½, 2, 2½, 3	-
	Fins per inch	9							
	Fin material	Aluminum, copper							
	FH × FW (in.)	57 × 75	39 × 75	57 × 75	-	81 × 75	54 × 75	81 × 75	-
	Face area (sq ft)	29.7	20.3	29.7	-	42.2	28.1	42.2	-
	Bypass area (sq ft)	-	9.2	-	-	-	14.4	-	-
	Max. bypass CFM	-	23,000	-	-	-	36,000	-	-
Steam coils	Rows	1, 2							
	Valve package (in.)	1¼, 1½, 2, 2½, 3	-	1¼, 1½, 2, 2½, 3	-	1½, 2, 2½, 3	-	1½, 2, 2½, 3	-
	Fins per inch	6, 12							
	Fin material	Aluminum, copper							
	FH × FW (in.)	57 × 75	39 × 75	57 × 75	-	81 × 75	54 × 75	81 × 75	-
	Face area (sq ft)	29.7	20.3	29.7	-	42.2	28.1	42.2	-
	Bypass area (sq ft)	-	9.2	-	-	-	14.4	-	-
	Max. bypass CFM	-	23,000	-	-	-	36,000	-	-

1. Unit coils are HI-F5 fin design.
2. Face and bypass dampers are available only in heating only or cooling only sections.
3. The valve package for hot water and steam heat is available only in the heating only section.

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Commercial Outdoor Air Handling Systems

Direct-drive Fan Array for Skyline® Air Handlers

- Plenty of back-up for critical installations. If one fan shuts down, the remaining can be selected and sized to provide design air flow
- Fan arrays can be placed close to coils and filters and still provide even air flow
- Noise occurs in higher octave bands that easier to attenuate
- Optional attenuating walls offered around each individual fan
- Smaller, lighter weight fan and motor assemblies
- Fans eliminate fan bearings, belts and sheaves. Less maintenance. Less lubrication required. Eliminate belt tensioning and replacement. Eliminate set screw tensioning which, if not done, can result in catastrophic failure
- Eliminate drive losses (typically 3-5%)
- Fan array section can be disassembled into smaller pieces

Model CAH—10,000 to 80,000 cfm (optimum)

For more detail, refer to A/SP 31-306.

For the most current information, refer to www.DaikinApplied.com.

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Commercial Outdoor Air Handling Systems

ECM Fan Array for Skyline® Air Handlers

- Industry-first, factory-installed ECM fan array for Vision® and Skyline® semi-custom air handlers
- Award-winning, space and cost-saving cabinet design
- Up to 20 ECM fans manufactured in 40 unique arrangements to meet application requirements
- More efficient at part load conditions for improved energy and cost savings
- Redundancy for mission-critical applications requiring uninterrupted airflow
- Eliminates maintenance of belts and bearings
- FlowGrid grill technology adds premium sound muting performance

Fan Array Front

Fan Array Back

ECM Fan

Fan Cover

For more detail, refer to A/SP 31-445.

For the most current information, refer to www.DaikinApplied.com.

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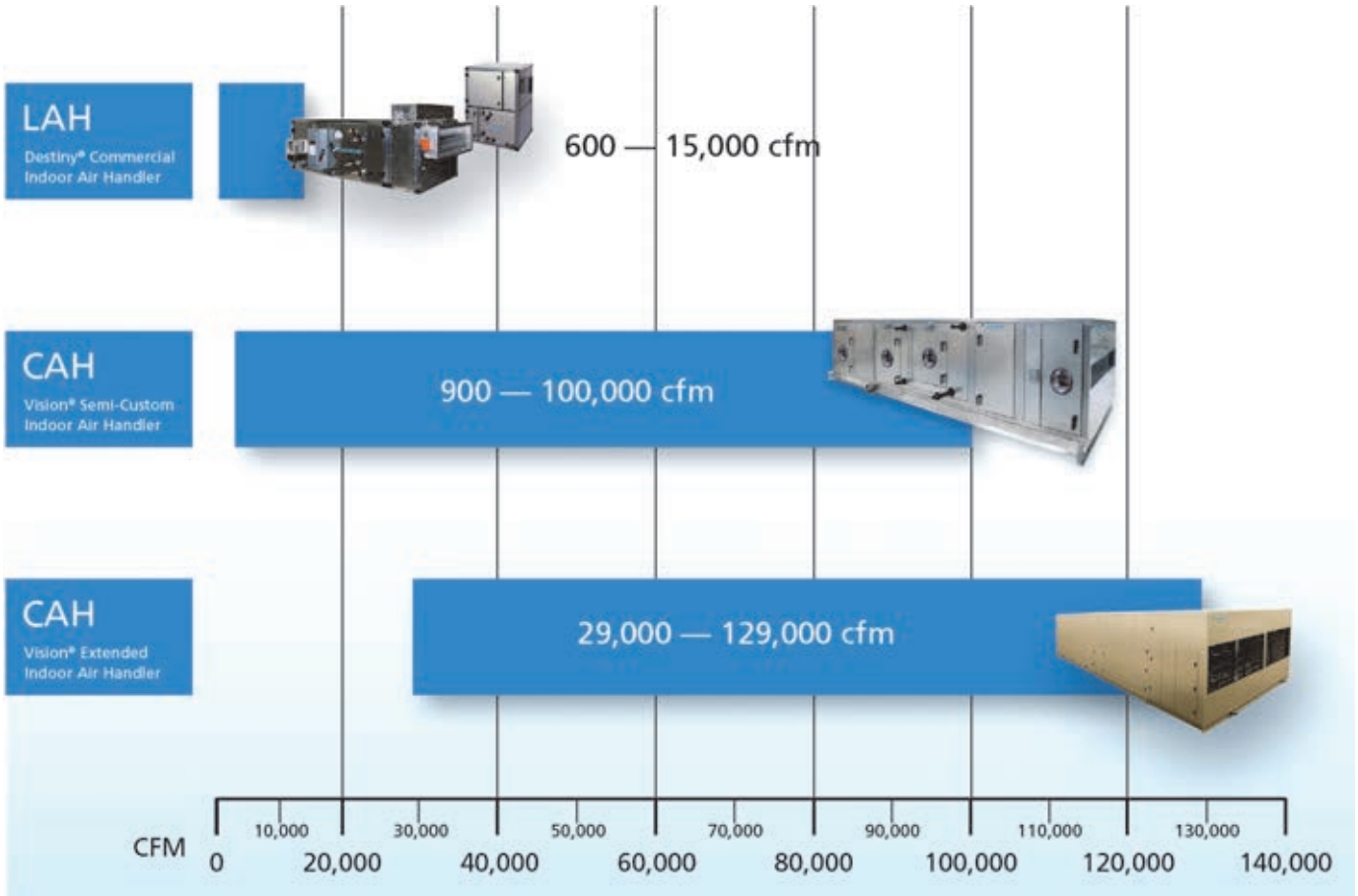
Commercial Indoor Air Handling Systems

Product Summary Chart

Model:



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Commercial Indoor Air Handling Systems

Physical Data - Destiny

Fan Data

Unit size	002	003	004	005	007	010	015	020	025	030
Fan type	**DWDI FC**	**DWDI FC**	**DWDI FC**	**DWDI FC**	**DWDI FC**	**DWDI FC**	**Twin DWDI FC**	**Twin DWDI FC**	**Twin DWDI FC**	**Twin DWDI FC**
Diameter	7/7	9/9	9/9	10/10	12/12	12/12	10/10	12/12	15/15	15/15
hp range	.33-2	.33-3	.33-5	.75-5	1-5	1-7.5	2-15	3-15	5-20	5-20
CFM minimum-fan limit	206	206	529	529	765	765	1059	1529	2118	2118
CFM maximum-fan limit	2088	2088	5765	6176	8529	8529	12,353	17,059	26,706	26,706
Fan type	**SWSI DD Plenum**	**SWSI DD Plenum**	**SWSI DD Plenum**	**SWSI DD Plenum**	**SWSI DD Plenum**	**SWSI DD Plenum**	**SWSI DD Plenum**	**SWSI DD Plenum**	**SWSI DD Plenum**	**SWSI DD Plenum**
Diameter	9	10	11	12.5	14	16	20	22	25	25
hp range	1.5-2.0	1.5-5.0	1.0-5.0	1.0-5.0	1.0-7.5	1.0-7.5	1.5-15.0	2.0-15.0	5.0-20.0	5.0-20.0
CFM minimum-fan limit	100	150	200	200	250	325	525	650	800	800
CFM maximum-fan limit	1800	2650	4100	4100	5000	5200	9200	12,900	16,150	16,150

Filter Data

Unit size	002	003	004	005	007	010	015	020	025	030
Flat filter (qty) size	(1) 16 × 25	(1) 18 × 24	(2) 16 × 20	(2) 20 × 24	(2) 24 × 24	(3) 20 × 25	(3) 12 × 24 (3) 24 × 24	(6) 24 × 24	(4) 20 × 24 (4) 24 × 24	(6) 16 × 25 (4) 20 × 25
Flat filter depth options	2", 4"									
Angular filter (qty) size	(1) 20 × 24	(2) 16 × 20	(2) 20 × 20	(4) 16 × 20	(4) 16 × 25	(6) 16 × 20	(6) 20 × 24	(9) 20 × 24	(6) 20 × 24 (6) 24 × 24	(6) 20 × 24 (6) 24 × 24
Angular filter depth options	2"									

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Commercial Indoor Air Handling Systems

Physical Data - Destiny

Cabinet Dimensions - Horizontal Unit

Dimension/Configuration		Unit size									
		002	003	004	005	007	010	015	020	025	030
Cabinet Dimension		Unit height and width dimensions, in (mm)									
Height		20.47 (520)	22.44 (570)	22.44 (570)	28.35 (720)	28.35 (720)	32.48 (825)	39.37 (1000)	51.57 (1310)	51.57 (1310)	59.06 (1500)
Width		28.54 (725)	34.84 (885)	42.52 (1080)	42.52 (1080)	56.50 (1435)	63.00 (1600)	74.41 (1890)	75.00 (1905)	89.96 (2285)	89.96 (2285)
Configuration FC Fan		Unit length dimensions, in (mm)									
Cooling only or cooling with reheat coils	Flat filter	47.84 (1215)	47.84 (1215)	53.35 (1355)	54.72 (1390)	58.86 (1495)	58.86 (1495)	53.74 (1365)	56.30 (1430)	62.00 (1575)	62.00 (1575)
	Angular filter	58.27 (1480)	55.12 (1400)	60.63 (1540)	65.95 (1675)	70.08 (1780)	70.08 (1780)	64.37 (1635)	71.26 (1810)	76.97 (1955)	80.12 (2035)
Cooling with preheat coils	Flat filter	51.97 (1320)	51.97 (1320)	59.25 (15.05)	59.45 (15.10)	65.55 (1665)	65.55 (1665)	62.80 (15.95)	65.35 (1660)	69.09 (17.55)	69.09 (17.55)
	Angular filter	62.40 (15.85)	59.25 (1505)	66.53 (1690)	70.67 (17.95)	76.77 (1950)	76.77 (1950)	73.42 (18.65)	80.32 (2040)	84.06 (2135)	87.20 (2215)
Heating only or Ventilation only	Flat filter	39.96 (1015)	39.96 (1015)	45.47 (1155)	45.67 (1160)	49.80 (1265)	49.80 (1265)	52.56 (1335)	55.51 (1410)	61.42 (1560)	61.42 (1560)
	Angular filter	50.39 (1280)	47.24 (1200)	52.76 (1340)	56.89 (1445)	61.02 (1550)	61.02 (1550)	63.19 (1605)	70.47 (1790)	76.38 (1940)	79.53 (2020)
Discharge Opening Dimension		Discharge height and width dimensions in. (mm)									
Height		9.17 (233)	11.77 (299)	11.77 (299)	13.07 (332)	15.51 (394)	15.51 (394)	2 × 13.07* (332)	2 × 15.51* (394)	2 × 18.54* (471)	2 × 18.54* (471)
Width		8.74 (222)	10.20 (259)	10.20 (259)	11.34 (288)	13.46 (342)	13.46 (342)	2 × 11.34* (288)	2 × 13.46* (342)	2 × 15.83* (402)	2 × 15.83* (402)

Plenum fan units		Unit length dimensions, in (mm)									
Configuration	**Filter**	**002**	**003**	**004**	**005**	**007**	**010**	**015**	**020**	**025**	**030**
Cooling only or Cooling with Reheat coil	Flat	47.83 (1215)	53.94 (1370)	59.45 (1510)	(62.01) 1575	70.08 (1780)	70.08 (1780)	70.87 (1800)	78.35 (1990)	88.58 (2250)	88.58 (2250)
	Angled	58.47 (1480)	61.42 (1560)	66.54 (1690)	73.03 (1855)	81.5 (2070)	81.5 (2070)	81.5 (2070)	93.31 (2370)	103.54 (2630)	106.69 (2710)
Cooling with Preheat coil	Flat	51.97 (1320)	58.27 (1480)	62.99 (1600)	66.73 (1695)	76.77 (1950)	76.77 (1950)	79.92 (2030)	87.4 (2220)	95.67 (2430)	95.67 (2430)
	Angled	62.4 (1585)	65.55 (1665)	70.08 (1780)	77.76 (1975)	88.19 (2240)	88.19 (2240)	90.55 (2300)	102.36 (2600)	110.63 (2810)	113.78 (2890)
Heating only or Ventilation Only	Flat	39.96 (1015)	46.06 (1170)	51.57 (1310)	52.95 (1345)	61.02 (1550)	61.02 (1550)	69.69 (1770)	77.56 (1970)	88.19 (2240)	88.19 (2240)
	Angled	50.79 (1290)	53.54 (1360)	58.66 (1490)	63.98 (1625)	72.44 (1840)	72.44 (1840)	80.31 (2040)	92.52 (2350)	103.15 (2620)	105.91 (2690)

Discharge direction		Discharge opening size									
		002	**003**	**004**	**005**	**007**	**010**	**015**	**020**	**025**	**030**
Horizontal	Width, in	26.18	32.47	40.16	40.16	54.14	60.64	72.05	72.64	87.61	87.61
	mm	665	825	1020	1020	1375	1540	1830	1845	2225	20948
	Height, in	18.12	20.09	20.09	25.99	25.99	30.13	37.02	49.22	49.22	56.71
	mm	460	510	510	660	660	765	940	1250	1250	1440
Upblast	Width, in	26.18	32.47	40.16	40.16	54.14	60.64	72.05	72.64	87.61	87.61
	mm	665	825	1020	1020	1375	1540	1830	1845	2225	2225
	Height, in	9.76	10.15	11.81	11.81	12.28	12.28	14.76	18.52	18.52	19.69
	mm	248	258	300	300	312	312	375	470	470	500

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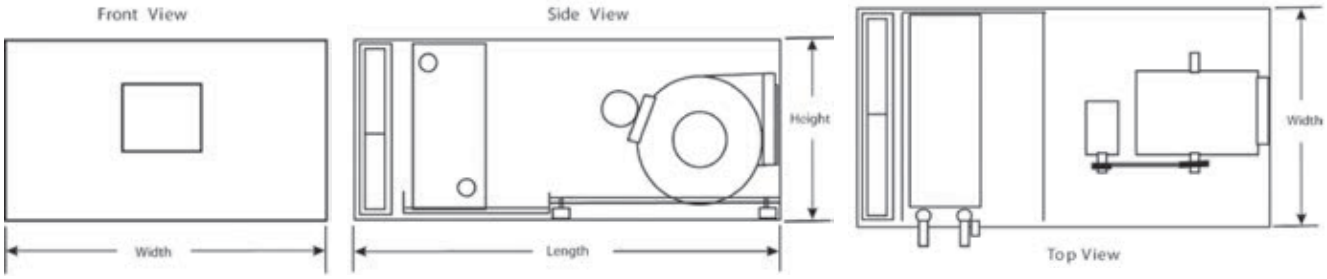
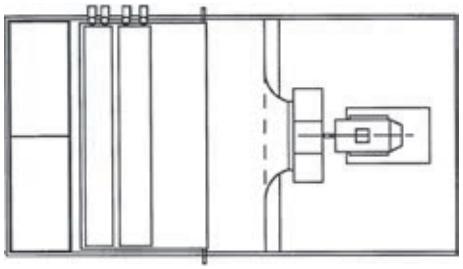
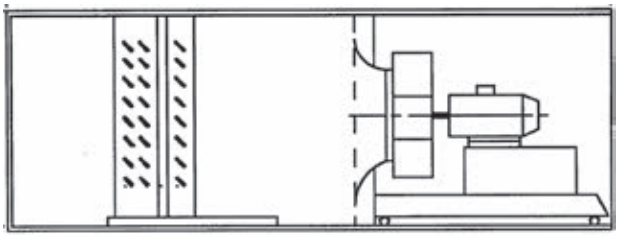
Commercial Indoor Air Handling Systems

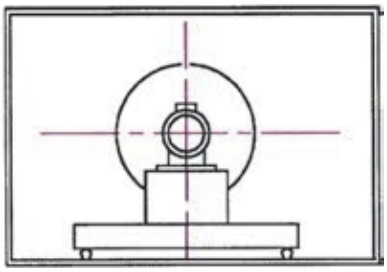
Physical Data - Destiny

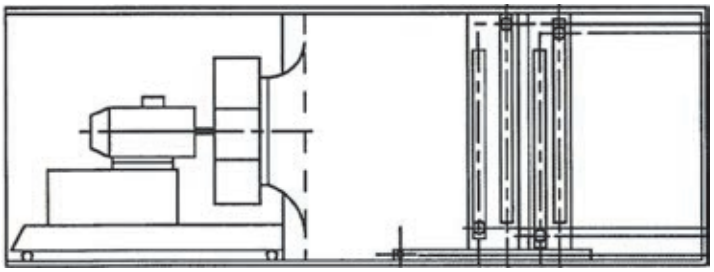
Cabinet Dimensions - Horizontal Unit











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Commercial Indoor Air Handling Systems

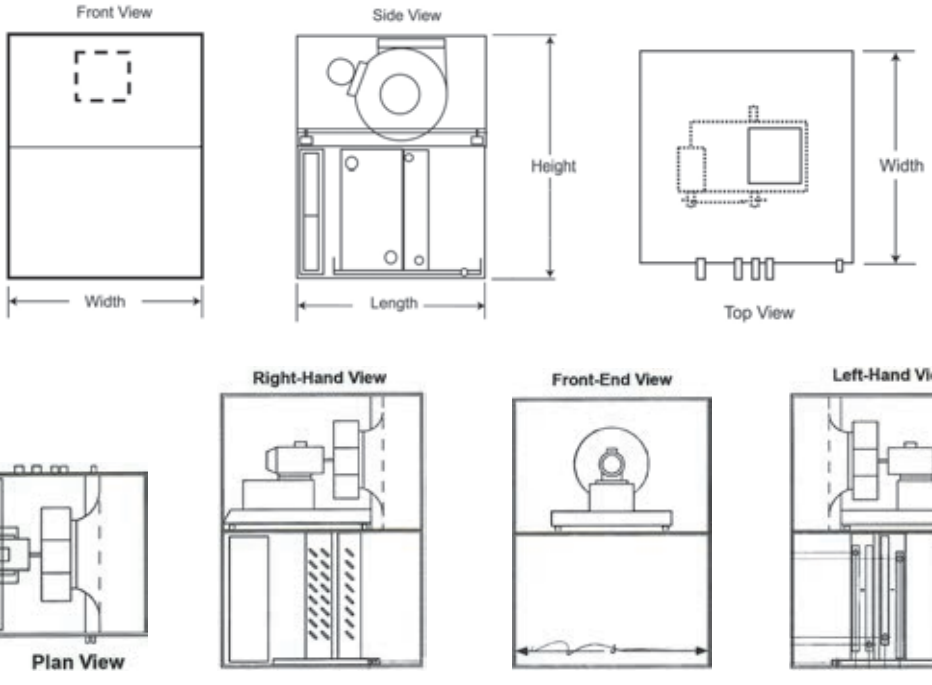
Physical Data - Destiny

Cabinet Dimensions - Vertical Unit

Dimensions	Unit size									
	002	003	004	005	007	010	015	020	025	030
FC Fan Units Height–in (mm)	37.60 (955)	42.32 (1075)	42.32 (1075)	50.39 (1280)	52.95 (1345)	57.09 (1450)	63.19 (1605)	78.54 (1905)	82.87 (2285)	90.35 (2295)
Width–in (mm)	28.54 (725)	34.84 (885)	42.52 (1080)	42.52 (1080)	56.50 (1435)	62.99 (1600)	74.41 (1890)	75.00 (1905)	89.96 (2285)	89.96 (2285)
FC Fan Unit Length–in (mm)	29.92 (760)	33.07 (840)	33.07 (840)	36.42 (925)	39.96 (1015)	39.96 (1015)	42.72 (1085)	47.83 (1215)	51.18 (1300)	51.18 (1300)
Discharge Opening Dimensions	**Unit height and width dimensions in. (mm)**									
Height - in (mm)	9.17 (233)	11.77 (299)	11.77 (299)	13.07 (332)	15.51 (394)	15.51 (394)	13.07* (332)	15.51* (394)	18.54* (471)	18.54* (471)
Width - in (mm)	8.74 (222)	10.20 (259)	10.20 (259)	11.34 (288)	13.46 (342)	13.46 (342)	11.34 (288)	13.46 (342)	15.83 (402)	15.83 (402)

Plenum fan unit		Unit Sizes									
		002	003	004	005	007	010	015	020	025	030
Length	inches	33.86	38.58	38.98	41.54	43.90	43.90	60.63	62.01	70.47	70.47
	mm	860	980	990	1055	1115	1115	1540	1575	1790	1790
Height	inches	39.96	44.69	44.69	52.76	55.31	62.40	78.74	97.24	101.50	108.98
	mm	1015	1135	1135	1340	1405	1585	2000	2470	2578	2768

Discharge direction		Discharge opening size									
		002	003	004	005	007	010	015	020	025	030
Horizontal	Width, in	26.18	32.47	40.16	40.16	54.14	60.64	72.05	72.64	87.61	87.61
	mm	665	825	1020	1020	1375	1540	1830	1845	2225	2225
	Height, in	17.29	20.04	20.04	22.2	24.8	27.72	37.17	43.62	47.89	55.37
	mm	439	509	509	564	630	704	944	1108	1216	1406
Upblast	Width, in	26.18	32.47	40.16	40.16	54.14	60.64	72.05	72.64	87.61	87.61
	mm	665	825	1020	1020	1375	1540	1830	1845	2225	2225
	Length, in	9.76	10.15	11.81	11.81	12.28	12.28	14.76	18.52	18.52	19.69
	mm	248	258	300	300	312	312	375	470	470	500



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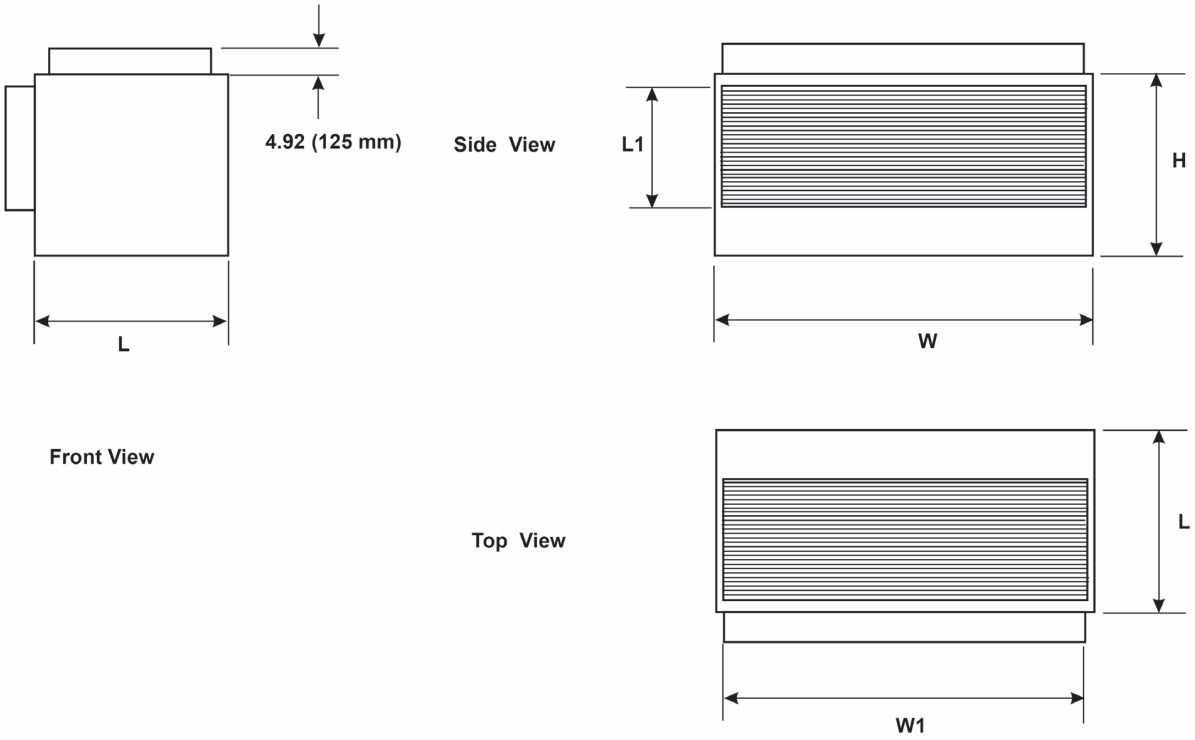
Commercial Indoor Air Handling Systems

Physical Data - Destiny

Dimensions - Mixing Box, Horizontal, and Vertical Units

Unit size	Cabinet, in (mm)			Damper, in (mm)		
	W	H	L	W1	L1	Area (ft^2)
002	28.54 (725)	20.47 (520)	10.24(260)	26.18 (665)	7.87 (200)	1.43
003	34.84 (885)	22.44 (570)	10.24 (260)	32.48 (825)	7.87 (200)	1.78
004	42.52 (1080)	22.44 (570)	10.24 (260)	40.16 (1020)	7.87 (200)	2.20
005	42.52 (1080)	28.35 (720)	14.17 (360)	40.16 (1020)	11.81 (300)	3.29
007	56.50 (1435)	28.35 (720)	14.17 (360)	54.13 (1375)	11.81 (300)	4.44
010	62.99 (1600)	32.48 (825)	14.17 (360)	60.63 (1540)	11.81 (300)	4.97
015	74.41 (1890)	39.37 (1000)	18.11 (460)	72.05 (1830)	15.75 (400)	7.88
020	75.00 (1905)	51.57 (1310)	25.98 (660)	72.64 (1845)	23.62 (600)	11.92
025	89.96 (2285)	51.57 (1310)	25.98 (660)	87.60 (2225)	23.62 (600)	14.37
030	89.96 (2285)	59.06 (1500)	29.92 (760)	87.60 (2225)	27.56 (700)	16.76



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Commercial Indoor Air Handling Systems

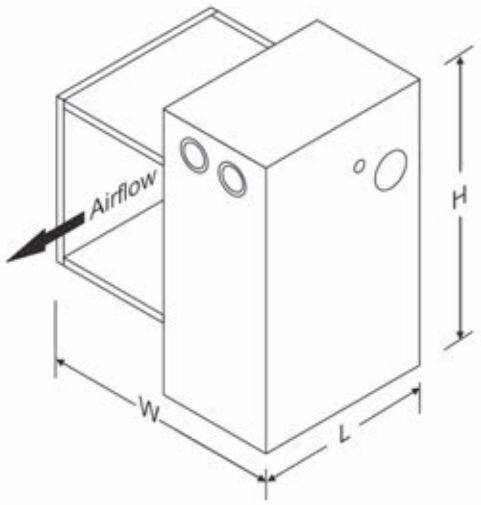
Physical Data - Destiny

Dimensions - Electrical Heat Box, Left, and Right Hand Units (LAH 002A through LAH 005A)

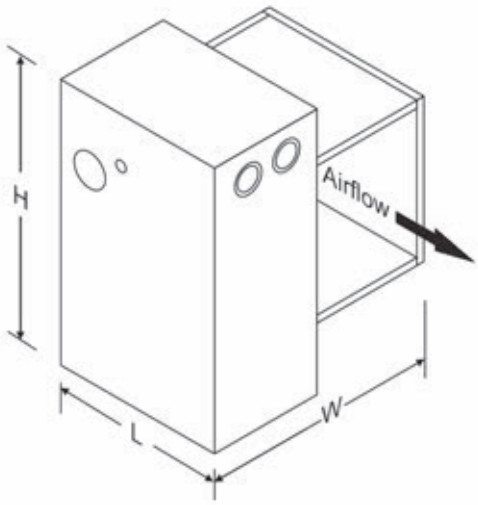
Dimensions inches (mm)	Unit part number									
	LAH002A		LAH004A				LAH005A			
	1 step	2 steps	1 step	2 steps	3 steps	4 steps	1 step	2 steps	3 steps	4 steps
L	11-1/2 (292.1)	16 (406.4)	11-1/2 (292.1)	16 (406.4)	20 (508)	24 (609.6)	11-1/2 (292.1)	16 (406.4)	20 (508)	24 (609.6)
W	19-1/2 (495.3)		22-1/4 (565.1)				23-1/2 (596.9)			
H	20 (508)		22-1/4 (565.1)				23-1/2 (596.9)			

Dimensions - Electrical Heat Box, Left, and Right Hand Units (LAH 007A through LAH 010A)

Dimensions inches (mm)	Unit part number							
	LAH007A				LAH010A			
	1 step	2 steps	3 steps	4 steps	1 step	2 steps	3 steps	4 steps
L	11-1/2 (292.1)	16 (406.4)	20 (508)	24 (609.6)	11-1/2 (292.1)	16 (406.4)	20 (508)	24 (609.6)
W	26 (660.4)							
H	25 (635)							



Left hand electrical heat box



Right hand electrical heat box

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Commercial Indoor Air Handling Systems

Physical Data - Vision

Quick Select Table*

Description	Unit size								
	003	004	006	008	010	012	014	017	021
Airflow range, CFM	900–2500	1200–3100	1700–4600	2200–6000	2900–7700	3600–700	4200–1,200	5000–3,500	6000–6,000
CFM @ 500 ft/min through large face area coil	1550	1950	2850	3750	4800	6050	7000	8400	10,050
Height × width, inches	26 × 38	30 × 40	30 × 52	34 × 58	36 × 64	42 × 66	42 × 74	46 × 80	52 × 82
Cooling coil face area, sq.ft.									
Extended/staggered large	3.9	4.8	6.6	8.5	10.7	13.5	15.4	18.3	21.9
Large	3.1	3.9	5.7	7.5	9.6	12.1	14.0	16.8	20.1
Extended/staggered medium	2.6	3.4	4.7	6.4	8.3	9.8	11.2	13.7	17.2
Medium	2.1	2.8	4.1	5.6	7.4	8.8	10.2	12.6	15.8
Small	N/A	2.3	3.3	4.7	6.4	7.7	8.9	11.2	14.4
Fan section–depth, inches									
Largest housed fan & motor avail. w/ top hor. dischg.	32	32	36	40	42	46	46	50	52
Largest Belt-drive plenum fan & motor available	N/A	N/A	32	32	34	40	40	44	48
Largest Direct-drive plenum fan & motor available	N/A	34	34	38	44	48	48	54	58
Largest twin fan and motor available	N/A	N/A	N/A	50	54	54	56	66	66
Largest 1 × 3 fan array and motor available	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Largest 2 × 2 fan array and motor available	N/A	N/A	N/A	N/A	N/A	N/A	34	38	38
Largest ECM available	24	30	30	30	30	30	30	30	30
Mixing box–depth, inches									
Mixing box only	16	16	16	20	20	20	20	22	24
Mixing box with flat filter	20	20	20	24	24	24	24	26	28
Mixing box with angular filter	42	42	42	42	42	42	42	44	46
Economizer–depth, inches									
Standard Economizer top damper	32	32	32	40	40	40	40	44	48
Blender–depth, Inches Angled Economizer	24	22	26	34	38	36	40	40	40
Largest Kees	18	20	24	26	28	34	36	38	42
Largest Blender Products IV	18	22	26	30	34	38	40	46	48
Side load filter sections–depth, inches									
Flat 2" and 4"	12	12	12	12	12	12	12	12	12
2" angular	32	30	30	30	30	30	30	30	30
Cartridge (12" deep w/ 2" pre-filter)	22	22	22	22	22	22	22	22	22
Bag (36" w/ 2"prefilter)	42	42	42	42	42	42	42	42	42
Front load filter sections–depth, inches									
Cartridge (12"deep w/ 2"pre-filter)	16	16	16	16	16	16	16	16	16
Bag (36" w/ 2"pre-filter)	40	40	40	40	40	40	40	40	40
Face and bypass–depth, inches									
Internal	12	12	12	12	12	12	12	12	12
External	18	18	18	20	22	24	24	26	30
Coil sections–depth, inches									
Heating only (2-row water)	12	12	12	12	12	12	12	12	12
Cooling only (4-row water)	18	18	18	18	18	18	18	18	18
Cooling only (6-row water)	20	20	20	20	20	20	20	20	20
Cooling & reheat (12-row cooling & 1-row heating)	32	32	32	32	32	32	32	32	32
Multizone coil section–depth, inches									
3-deck horizontal with dampers	N/A	N/A	40	42	42	52	52	54	56
Access sections–depth, inches									
16" deep	16	16	16	16	16	16	16	16	16
24" deep	24	24	24	24	24	24	24	24	24
30" deep	30	30	30	30	30	30	30	30	30
36" deep	36	36	36	36	36	36	36	36	36
42" deep	42	42	42	42	42	42	42	42	42
48" deep	48	48	48	48	48	48	48	48	48
54" deep	54	54	54	54	54	54	54	54	54
Diffuser–depth, inches									
With housed fan	10	10	10	12	12	16	16	16	16
Attenuator–depth, inches									
Short	40	40	40	40	40	40	40	40	40
Medium	52	52	52	52	52	52	52	52	52
Long	64	64	64	64	64	64	64	64	64
Supply or return plenum–depth, inches									
Top, bottom or end opening	14	16	16	18	20	22	22	24	28

* Based on typical industry sizes. Vision air handling units are available in 2 inch increments of height and width to fit the exact space requirements. Front load filter sections include 24" upstream plenum section with tread plate for heavy duty floor liner.

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Commercial Indoor Air Handling Systems

Physical Data - Vision

Quick Select Table* (continued)

Description	Unit size								
	025	030	035	040	050	065	080	085	090
Airflow range, CFM	7300–19,400	8500–22,500	10,000–26,500	11,500–31,000	15,000–40,000	20,000–54,000	21,500–57,500	23,100–61,600	24,600–65,600
CFM @ 500 ft/min through large face area coil	12,150	14,150	16,700	19,300	24,500	33,300	35,900	38,450	41,000
Height × width, inches	60 × 86	60 × 98	66 × 102	68 × 116	80 × 120	92 × 136	98 × 136	104 ×136	110 ×136
Cooling coil face area, sq.ft.									
Extended/staggered large	27.4	31.9	37.1	42.9	58.0	76.9	82.0	87.1	92.3
Large	24.3	28.3	33.4	38.6	49.0	66.6	71.8	76.9	82.0
Extended/staggered medium	21.3	24.8	29.7	34.3	40.1	61.5	61.5	66.6	71.8
Medium	18.3	21.3	26	30.0	35.7	51.3	51.3	56.4	61.5
Small	16.7	19.5	24.1	27.9	31.2	46.1	46.1	51.3	56.4
Fan section–depth, inches									
Largest housed fan & motor avail. w/ top hor. dischg.	58	58	60	70	96	96	96	96	96
Largest Belt-drive plenum fan & motor available	50	54	54	52	60	68	68	68	68
Largest Direct-drive plenum fan & motor available	66	66	66	68	74	74	74	74	74
Largest twin fan and motor available	64	82	82	82	82	82	82	82	82
Largest 1 × 3 fan array and motor available	NA	NA	30	38	38	46	46	46	46
Largest 2 × 2 fan array and motor available	44	46	46	52	58	62	62	62	62
Largest ECM available	30	30	30	30	30	30	30	30	30
Mixing box–depth, inches									
Mixing box only	26	26	28	28	32	36	38	40	42
Mixing box with flat filter	30	30	32	32	36	40	42	44	46
Mixing box with angular filter	48	48	50	50	54	58	60	62	64
Economizer–depth, inches									
Standard Economizer top dampers	52	52	56	56	64	72	76	80	84
Blender–depth, inches Angled Economizer	38	42	44	48	48	54	54	52	52
Largest Kees	46	48	58	58	68	76	80	84	84
Largest Blender Products IV	52	60	64	70	74	88	88	92	92
Side load filter sections–depth, inches									
Flat 2" and 4"	12	12	12	12	12	12	12	12	12
2" angular	32	32	32	32	32	32	32	32	32
Cartridge (12" deep w/ 2" pre-filter)	22	22	22	22	22	22	22	22	22
Bag (36" w/ 2"prefilter)	42	42	42	42	42	42	42	42	42
Front load filter sections–depth, inches									
Cartridge (12"deep w/ 2"pre-filter)	16	16	16	16	16	16	16	16	16
Bag (36" w/ 2"pre-filter)	40	40	40	40	40	40	40	40	40
Face and bypass–depth, inches									
Internal	12	12	12	12	12	12	12	12	12
External	32	32	34	38	44	50	54	56	58
Coil sections–depth, inches									
Heating only (2-row water)	12	12	12	12	12	12	12	12	12
Cooling only (4-row water)	26	26	26	26	26	26	26	26	26
Cooling only (6-row water)	28	28	28	28	28	28	28	28	28
Cooling & reheat (12-row cooling & 1-row heating)	40	40	40	40	40	40	40	40	40
Multizone coil section–depth, inches									
3-deck horizontal with dampers	60	60	70	70	N/A	N/A	N/A	N/A	N/A
Access sections–depth, inches									
16" deep	16	16	16	16	16	16	16	16	16
24" deep	24	24	24	24	24	24	24	24	24
30" deep	30	30	30	30	30	30	30	30	30
36" deep	36	36	36	36	36	36	36	36	36
42" deep	42	42	42	42	42	42	42	42	42
48" deep	48	48	48	48	48	48	48	48	48
54" deep	54	54	54	54	54	54	54	54	54
Diffuser–depth, inches									
With housed fan	24	24	24	30	30	30	30	30	30
Attenuator–depth, inches									
Short	40	40	40	40	40	40	40	40	40
Medium	52	52	52	52	52	52	52	52	52
Long	64	64	64	64	64	64	64	64	64
Supply or return plenum–depth, inches									
Top, bottom or end opening	30	30	32	32	38	42	48	52	54

* Based on typical industry sizes. Vision air handling units are available in 2 inch increments of height and width to fit the exact space requirements.
Front load filter sections include 24" upstream plenum section with tread plate for heavy duty floor liner.

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Commercial Indoor Air Handling Systems

Physical Data - Vision

Quick Select Table* (continued)

Description	Unit size				
	107	124	141	160	169
Airflow range, CFM	29,000–77,500	33,600–89,500	40,300–107,400	45,600–121,800	48,400–129,000
CFM @ 500 ft/min through large face area coil	48,500	55,900	67,100	76,200	80,600
Height × width, inches	108 × 168	108 × 192	122 × 192	122 × 216	122 × 228
Cooling coil face area, sq ft					
Large	103.3	119.3	134.3	152.3	161.3
Medium	77.5	89.5	104.4	118.4	116.5
Fan section-depth, inches					
Largest housed fan & motor avail. w/ top hor. Discharge	86	86	92	92	92
Largest Belt-drive plenum fan and motor available	68	68	68	68	68
Largest Direct-drive plenum fan and motor available	74	74	74	74	74
Largest 1 × 3 fan array and motor available	52	62	62	62	62
Largest 2 × 2 fan array and motor available	58	58	62	62	62
Largest ECM available	30	30	30	30	30
Mixing box–depth, inches					
Mixing box only	42	42	48	48	48
Economizer–depth, inches					
Standard Economizer top dampers	84	84	96	96	96
Blender–depth, inches					
Largest Kees	68	72	80	84	84
Largest Blender Products IV	78	86	92	92	92
Side load filter sections–depth, inches					
Cartridge (12" deep w/2" pre-filter)	22	22	22	22	22
Bag (36" w/2" pre-filter)	42	42	42	42	42
Front load filter sections–depth, inches					
Cartridge (12" deep w/2" pre-filter)	20	20	20	20	20
Bag (36" w/2" pre-filter)	40	40	40	40	40
Face and bypass–depth, inches					
Internal	12	12	12	12	12
External	58	58	64	64	64
Coil sections–depth, inches					
Heating only (2-row water)	14	14	14	14	14
Cooling only (4-row water)	26	26	26	26	26
Cooling only (6-row water)	28	28	28	28	28
Cooling & reheat (12-row cooling & 1-row heating)	44	44	44	44	44
Access sections–depth, inches					
16" deep	16	16	16	16	16
24" deep	24	24	24	24	24
30" deep	30	30	30	30	30
36" deep	36	36	36	36	36
42" deep	42	42	42	42	42
48" deep	48	48	48	48	48
54" deep	54	54	54	54	54
Diffuser–depth, inches					
With housed fan	42	46	46	46	46
Attenuator–depth, inches					
Short	40	40	40	40	40
Medium	52	52	52	52	52
Long	64	64	64	64	64
Supply or return plenum–depth, inches					
Top, bottom or end opening	52	52	60	60	60

* Based on typical industry sizes. Vision air handling units are available in 2 inch increments of height and width to fit the exact space requirements. Front load filter sections include 24" upstream plenum section with tread plate for heavy duty floor line.

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Commercial Indoor Air Handling Systems

Direct-drive Fan Array for Vision® Air Handlers

- Plenty of back-up for critical installations. If one fan shuts down, the remaining can be selected and sized to provide design air flow
- Fan arrays can be placed close to coils and filters and still provide even air flow
- Noise occurs in higher octave bands that easier to attenuate
- Optional attenuating walls offered around each individual fan
- Smaller, lighter weight fan and motor assemblies
- Fans eliminate fan bearings, belts and sheaves. Less maintenance. Less lubrication required. Eliminate belt tensioning and replacement. Eliminate set screw tensioning which, if not done, can result in catastrophic failure
- Eliminate drive losses (typically 3-5%)
- Fan array section can be disassembled into smaller pieces

Model CAH—10,000 to 80,000 cfm (optimum)

For more detail, refer to A/SP 31-306.

For the most current information, refer to www.DaikinApplied.com.

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Commercial Indoor Air Handling Systems

ECM Fan Array for Vision® Air Handlers

- Industry-first, factory-installed ECM fan array for Vision® and Skyline® semi-custom air handlers
- Award-winning, space and cost-saving cabinet design
- Up to 20 ECM fans manufactured in 40 unique arrangements to meet application requirements
- More efficient at part load conditions for improved energy and cost savings
- Redundancy for mission-critical applications requiring uninterrupted airflow
- Eliminates maintenance of belts and bearings
- FlowGrid grill technology adds premium sound muting performance

Fan Array Front

Fan Array Back

ECM Fan

Fan Cover

For more detail, refer to A/SP 31-445.

For the most current information, refer to www.DaikinApplied.com.

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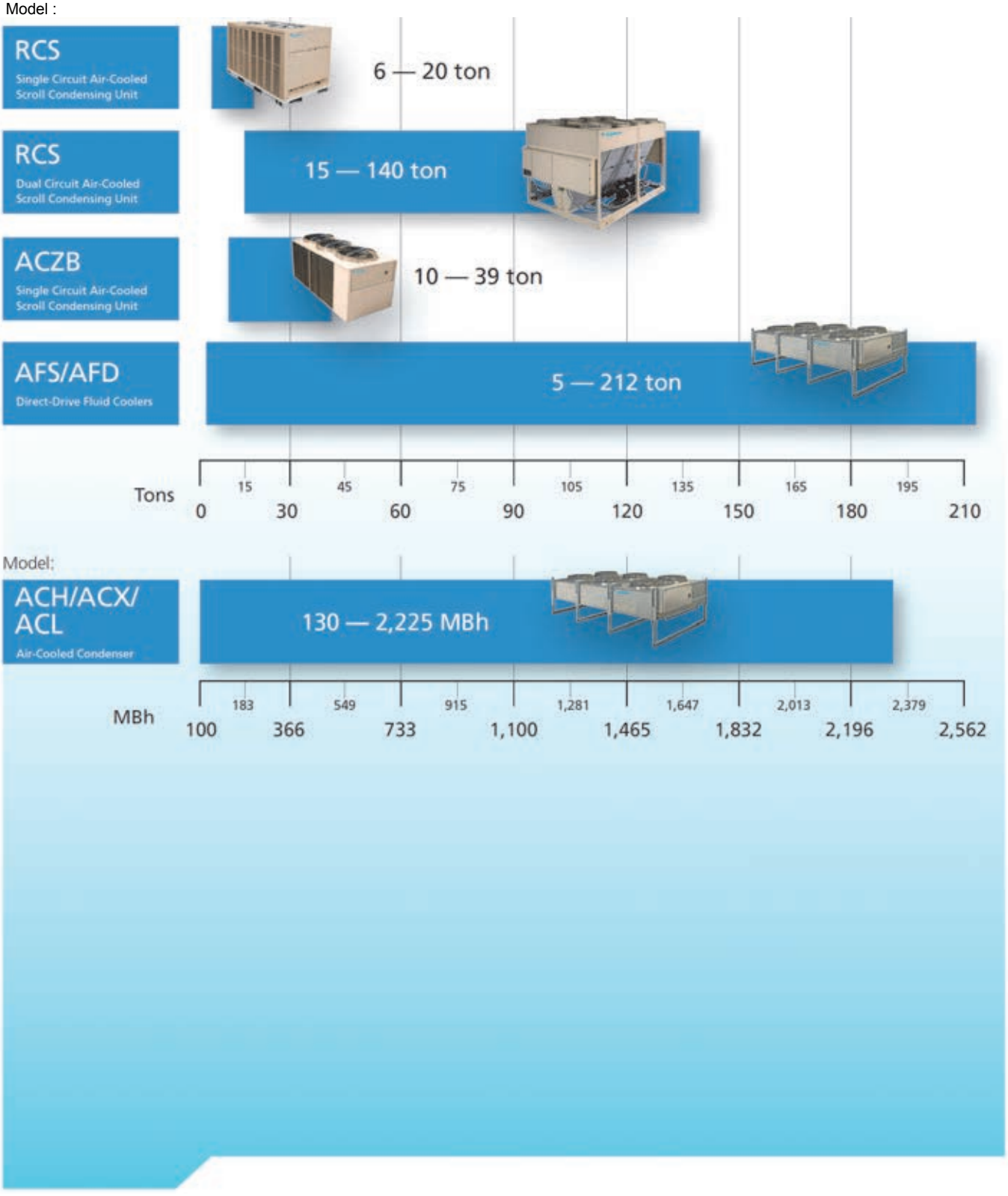
Condensing Units/Condensers/Fluid Coolers

Product Summary Chart

Model :



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Air-cooled Scroll Condensing Units

Scroll Condensing Units

RCS 06F through 20F, R-410A

Physical Data—Scroll Condensing Units

Model	RCS						
	06F Single	07F Single	10F Single	11F Tandem	12F Tandem	15F Tandem	20F Tandem
Capacity and Weight							
Capacity (tons) [kW]	6.5 [22.9]	7.5 [26.4]	10 [35.2]	10 [35.2]	12 [42.2]	15 [52.8]	20 [70.3]
Number of circuits	1						
Operating weight (lbs) [Kg]	291 [132]	318 [144]	501 [227.3]	586 [265.8]	650 [294.8]	746 [338.4]	952 [431.8]
Shipping weight (lbs) [Kg]	314 [142.5]	341 [154.7]	541 [245.4]	626 [284.0]	690 [313.0]	786 [356.5]	992 [450.0]
Compressor							
Quantity	1			2			
Type	Scroll						
RPM	3500						
Refrigerant charge R410A oz. [g]	178 [5046]	242 [6861]	339 [9661]	300 [8505]	378 [10,716]	506 [14,345]	655 [18,569]
Condenser Fans							
Quantity	1		2			3	
CFM [L/s]	4700 [2218]	4700 [2218]	8100 [3822]	8100 [3822]	8100 [3882]	12,000 [5663]	12,000 [5663]
Diameter (in.) [mm]	24 [610]	24 [610]	24 [610]	24 [610]	24 [610]	24 [610]	24 [610]
Drive	Direct						
Motor horsepower each [W]	1/3 [249]	1/3 [249]	1/3 [249]	1/3 [249]	1/3 [249]	1/3 [249]	1/3 [249]
Type	PSC						
RPM	1075						
Condenser Coil							
Quantity	1		2				
Rows	1-1/2	2					3
Fins per inch	20	22	18	22	22	22	22
Sq. ft. [m^2]	23.0 [2.14]	23.0 [2.14]	27.0 [2.51]	27.0 [2.51]	33.9 [3.05]	40.38 [3.75]	40.38 [3.75]
Fins/tubes	Aluminum/Copper						
Cabinet							
Finish	Powder Coat						
Sheet metal	Galvanized						
Gauge (nominal) top	20						
Sides	20						
Base rails	14						
Refrigerant Connection							
Vapor sweat (in.) [mm]	1-1/8 [29]	1-1/8 [29]	1-3/8 [35]	1-3/8 [35]	1-3/8 [35]	1-5/8 [41.3]	1-5/8 [41.3]
Liquid sweat (in.) [mm]	1/2 [13]	1/2 [13]	5/8 [16]	5/8 [16]	5/8 [16]	5/8 [16]	7/8 [22]

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Air-cooled Scroll Condensing Units

Scroll Condensing Units

RCS 06F through 20F, R-410A

Electrical Data - Scroll Condensing Units

Model	RCS																				
	06F			07F			10F			11F			12F			15F			20F		
Compressor Motor																					
Voltage	208/230	460	575	208/230	460	575	208/230	460	575	208/230	460	575	208/230	460	575	208/230	460	575	208/230	460	575
Phase and hertz	3 – 60																				
Number of compressors	Single									Tandem											
Operating Current																					
Rated load amps (each)[1]	22.4	10.6	7.7	25.0	12.2	9.0	30.1	16.7	12.2	17.6	9.6	6.1	22.4	10.6	7.7	25.0	12.2	9.0	33.3	17.9	12.8
Locked rotor amps (each)[1]	149	75	54	164	100	78	225	114	80	123	64	40	14	75	54	164	100	78	239	125	80
Condenser Fan Motors																					
Voltage	208/230	460	575	208/230	460	575	208/230	460	575	208/230	460	575	208/230	460	575	208/230	460	575	208/230	460	575
Phase	Single																				
Full load amps (each)	2.2	1.3	1.0	2.2	1.3	1.0	2.4	1.4	1.0	2.4	1.4	1.0	2.4	1.4	1.0	2.4	1.4	1.0	2.4	1.1	0.8
System characteristics																					
Unit full load amps[2]	24.6	11.9	8.7	27.2	13.5	10.0	34.9	19.5	14.2	40.0	22.0	14.2	49.6	24.0	17.4	57.2	28.6	21.0	73.8	39.1	28.0
Minimum circuit ampacity	31.0	15.0	11.0	34.0	17.0	13.0	43.0	24.0	18.0	45.0	25.0	16.0	56.0	27.0	20.0	64.0	32.0	24.0	83.0	44.0	32.0
Maximum fuse size (amps) or HACR circuit breaker ampacity[3]	50	25	15	50	25	20	60	40	25	60	30	20	70	35	25	80	40	30	110	60	40
Disconnect size	60	30	30	60	30	30	60	40	25	60	30	30	60	30	30	100	60	60	200	60	60

Note:
1 Each compressor.
2 Conditions at 45° suction and 95° ambient.
3 Local codes take precedent over recommended fuse size.

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Air-cooled Scroll Condensing Units

Air-cooled Scroll Condensing Units, Single Circuit

ACZ 010BS through 020BS, R-407C

Physical Data - Air-cooled Scroll Condensing Units, Single Circuit

Physical data	ACZ model number			
	010BS	013BS	016BS	020BS
Basic data				
Nominal Tons	10	13	16	20
Number of Refrigerant Circuits	1	1	1	1
Unit operating charge,R-407C, lb (kg)	22.0 (10.0)	22.0 (10.0)	24.0 (10.9)	31.0 (14.1)
Cabinet dimensions,				
L × W × H, in (mm)	73.6 × 46.3 × 50.8 (1869 × 1176 × 1289)			
Unit operating weight, lb (kg)	1015 (461)	1015 (461)	1090 (495)	1190 (541)
Unit shipping weight, lb (kg)	1000 (454)	1000 (454)	1065 (484)	1150 (523)
Add'l weight if copper finned coils, lb (kg) R-407C	176 (80.0)	176 (80.0)	176 (80.0)	264 (120.0)
Compressors				
Type	Scroll	Scroll	Scroll	Scroll
Nominal Horsepower	4.0 / 4.0	6.0 / 6.0	7.5 / 7.5	9.0 / 9.0
Oil charge per compressor of a tandem set, oz (g)	57 (1616)	60 (1701)	140 (3969)	140 (3969)
Capacity reduction steps-percent of compressor displacement				
Standard staging	0 - 50 - 100	0 - 50 - 100	0 - 50 - 100	0 - 50 - 100
Condensers-high efficiency fin and tube type with integral subcooling				
Coil face area, ft^2 (m^2)	30.3 (2.8)	30.3 (2.8)	30.3 (2.8)	30.3 (2.8)
Finned height × finned length, in (mm)	84 × 52 (2134 × 1321)	84 × 52 (2134 × 1321)	84 × 52 (2134 × 1321)	84 × 52 (2134 × 1321)
Fins per inch × rows deep: R-407C	16 × 2	16 × 2	16 × 2	16 × 3
Pumpdown capacity, lb (kg)	35.3 (16.0)	35.3 (16.0)	35.3 (16.0)	50.3 (22.8)
Condenser fans-direct drive propeller type				
Number of fans-fan diameter, in (mm)	2-26 (660)	2-26 (660)	2-26 (660)	2-26 (660)
Number of motors-hp (kW)	2-1.0 (0.75)	2-1.0 (0.75)	2-1.0 (0.75)	2-1.0 (0.75)
Fan and motor RPM, 60 Hz	1140	1140	1140	1140
60 Hz total unit airflow, CFM (L/s)	13,950 (6584)	13,950 (6584)	13,950 (6584)	12,000 (5664)

1. Nominal capacity based on 95°F ambient air and 50°F saturated suction temperature (SST).
2. Operating charge is for the condensing unit only. Refrigerant lines and evaporator charge must be added.
3. Except for 380V/60 and 575V/60, hp = 2.0.

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Air-cooled Scroll Condensing Units

Air-cooled Scroll Condensing Units, Single Circuit

ACZ 025BS through 039BS, R-407C

Physical Data - Air-cooled Scroll Condensing Units, Single Circuit

Physical data	ACZ model number			
	025BS	028BS	033BS	039BS
Basic data				
Nominal tons	25	28	33	39
Number of refrigerant circuits	1	1	1	1
Unit operating charge, R-407C, lb (kg)	34.0 (15.4)	36.0 (16.3)	47.0 (21.3)	50.0 (22.7)
Cabinet dimensions,				
L × W × H, in (mm)	106.2 × 46.3 × 50.8 (2697 ×1176 × 1289)			
Unit operating weight, lb (kg)	1470 (667)	1490 (676)	1760 (799)	1960 (890)
Unit shipping weight, lb (kg)	1580 (717)	1600 (726)	1890 (858)	2090 (949)
Add'l weight if copper finned coils, lb (kg) R-407C	426 (194)	426 (194)	435 (197)	435 (197)
Compressors				
Type	Scroll	Scroll	Scroll	Scroll
Nominal horsepower	12.0 / 12.0	13.0 / 13.0	15.0 / 15.0	20.0 / 20.0
Oil charge per compressor of a tandem set, oz (g)	110 (3119)	110 (3119)	110 (3119)	158 (4479)
Capacity reduction steps-percent of compressor displacement				
Standard staging	0 - 50 - 100	0 - 50 - 100	0 - 50 - 100	0 - 50 - 100
Condensers-high efficiency fin and tube type with integral subcooling				
Coil face area, ft^2 (m^2)	49.0 (4.6)	49.0 (4.6)	58.3 (5.4)	58.3 (5.4)
Finned height × finned length, in (mm)	84 × 84 (2134 × 2134)	84 × 84 (2134 × 2134)	100 × 84 (2545 × 2134)	100 × 84 (2545 × 2134)
Fins per inch × rows deep: R-407C	16 × 2	16 × 2	16 × 3	16 × 3
Pumpdown capacity, lb (kg)	53.1 (24.0)	53.1 (24.0)	90.7 (41.1)	92.8 (42.0)
Condenser fans-direct drive propeller type				
Number of fans-fan diameter, in (mm)	3-26 (660)	3-26 (660)	3-26 (660)	3-26 (660)
Number of motors-hp (kW)	3-1.0 (0.75)	3-1.0 (0.75)	3-1.0 (0.75)	3-1.0 (0.75)
Fan and motor RPM, 60 Hz	1140	1140	1140	1140
60 Hz total unit airflow, CFM (L/s)	20,925 (9877)	20,925 (9877)	19,800 (9346)	19,800 (9346)

1. Nominal capacity based on 95°F ambient air and 50°F saturated suction temperature (SST).
2. Operating charge is for the condensing unit only. Refrigerant lines and evaporator charge must be added.
3. Except for 380V/60 and 575V/60, hp = 2.0.

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Air-cooled Scroll Condensing Units

Air-cooled Scroll Condensing Units, Dual Circuit

RCS 015D through 140D, R-410A

Model	RCS								
	015D	020D	025D	030D	035D	040D	045D	050D	062D
Basic Data									
Number of refrigeration circuits	2	2	2	2	2	2	2	2	2
Unit operating charge (lb)[1] per circuit	6.5	7.1	8.0	9.6	10.4	10.8	12.6	12.6	12.7
Operating weight (lb)	1492	1577	1581	1986	2203	2229	2305	2425	2552
Compressors									
Qty.- hp	2 – 7	2 – 4.5, 1 – 10	2 – 5.5, 1 – 11.5	2 – 6, 1 – 13	4 – 7.5	4 – 8.5	4 – 10	4 – 11.5	4 – 13
Capacity control	100-50	100-78-55-22	100-78-55-22	100-78-55-22	100-75-50-25	100-75-50-25	100-75-50-25	100-75-50-25-0	100-75-50-25-0
Condenser Fans									
Qty. - diameter	2 – 26"	2 – 26"	2 – 26"	4 – 26"	4 – 26"	4 – 26"	4 – 26"	4 – 26"	6 – 26"
Qty. - hp	2 – 1.0	2 – 1.0	2 – 1.0	4 – 1.0	4 – 1.0	4 – 1.0	4 – 1.0	4 – 1.0	6 – 1.0

Model	RCS							
	072D	080D	092D	100D	110D	120D	125D	140D
Basic Data								
Number of refrigeration circuits	2	2	2	2	2	2	2	2
Unit operating charge (lb)[1] per circuit	15.1	19.0	19.2	19.2	29.1	29.1/34.7	32.3	32.3/37.5
Operating weight (lb)	3496	3603	3828	3764	4277	4858	5439	5619
Compressors								
Qty.- hp	6 – 10	6 – 11.5	6 – 13	3 – 13, 3 – 15	6 – 15	3 – 15, 3 – 20	6 – 20	3 – 20, 3 – 25
Capacity control	100-83-67-50-33-17-0	100-83-67-50-33-17-0	100-83-67-50-33-17-0	100-81-67-48-33-15-0	100-84-67-50-33-17-0	100-81-67-48-33-15-0	100-84-67-50-33-17-0	100-81-67-48-33-15-0
Condenser Fans								
Qty. - diameter	8 – 26"	6 – 26"	9 – 26"	9 – 26"	8 – 26"	9 – 26"	10 – 26"	12 – 26"
Qty. - hp	8 – 1.0	6 – 1.0	9 – 1.0	9 – 1.0	8 – 1.0	9 – 1.0	10 – 1.0	12 – 1.0

1. Unit shipped with dry nitrogen holding charge.

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Air-cooled Scroll Condensing Units

Air-cooled Scroll Condensing Units, Dual Circuit

RCS 015D through 140D, R-410A

Compressor Rated Load Amps

Unit Size	Voltage	MCA Total	MOCPD Total	Standard Fuse Size
015D	208	72	100	90
	230	66	91	90
	460	32	44	40
	575	25	34	30
020D	208	103	145	125
	230	93	131	125
	460	47	66	60
	575	35	49	45
025D	208	126	179	175
	230	114	162	150
	460	50	69	60
	575	39	55	50
030D	208	140	197	175
	230	128	179	175
	460	60	82	80
	575	49	268	60
035D	208	157	189	175
	230	143	172	150
	460	71	86	80
	575	59	71	70
040D	208	161	195	175
	230	147	177	175
	460	80	97	90
	575	59	71	70
045D	208	199	241	225
	230	181	219	200
	460	91	111	110
	575	67	81	80
050D	208	246	299	250
	230	223	271	250
	460	91	111	110
	575	76	92	90
062D	208	269	326	300
	230	245	296	250
	460	112	135	125
	575	96	116	110

Unit Size	Voltage	MCA Total	MOCPD Total	Standard Fuse Size
072D	208	300	342	300
	230	273	311	300
	460	138	157	150
	575	101	115	110
075D	208	369	422	400
	230	335	383	350
	460	138	157	150
	575	115	131	125
080D	208	361	414	400
	230	327	375	350
	460	134	153	150
	575	111	127	125
092D	208	395	452	450
	230	359	410	400
	460	165	188	175
	575	141	161	150
100D*	208	418	482	450
	230	380	438	400
	460	184	213	200
	575	153	177	175
110D	208	436	500	450
	230	396	454	450
	460	199	228	225
	575	163	186	175
120D	208	506	591	500
	230	460	536	500
	460	220	255	250
	575	180	208	200
125D	208	572	656	600
	230	519	596	500
	460	240	275	250
	575	196	224	200
140D*	208	630	729	700
	230	572	662	600
	460	277	323	300
	575	219	254	250

* Unit not ASHRAE 90.1-2013 compliant.

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Air-cooled Scroll Condensing Units

Air-cooled Scroll Condensing Units, Dual Circuit

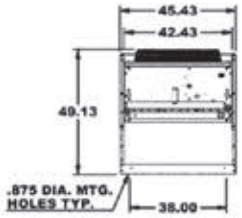
130 to 2,225 MBh

Compressor Rated Load Amps

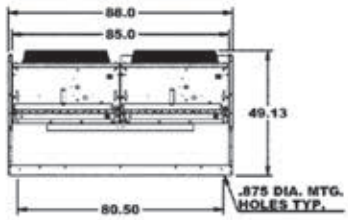
Air-cooled Condenser Dimensions (shown in inches)

End Views

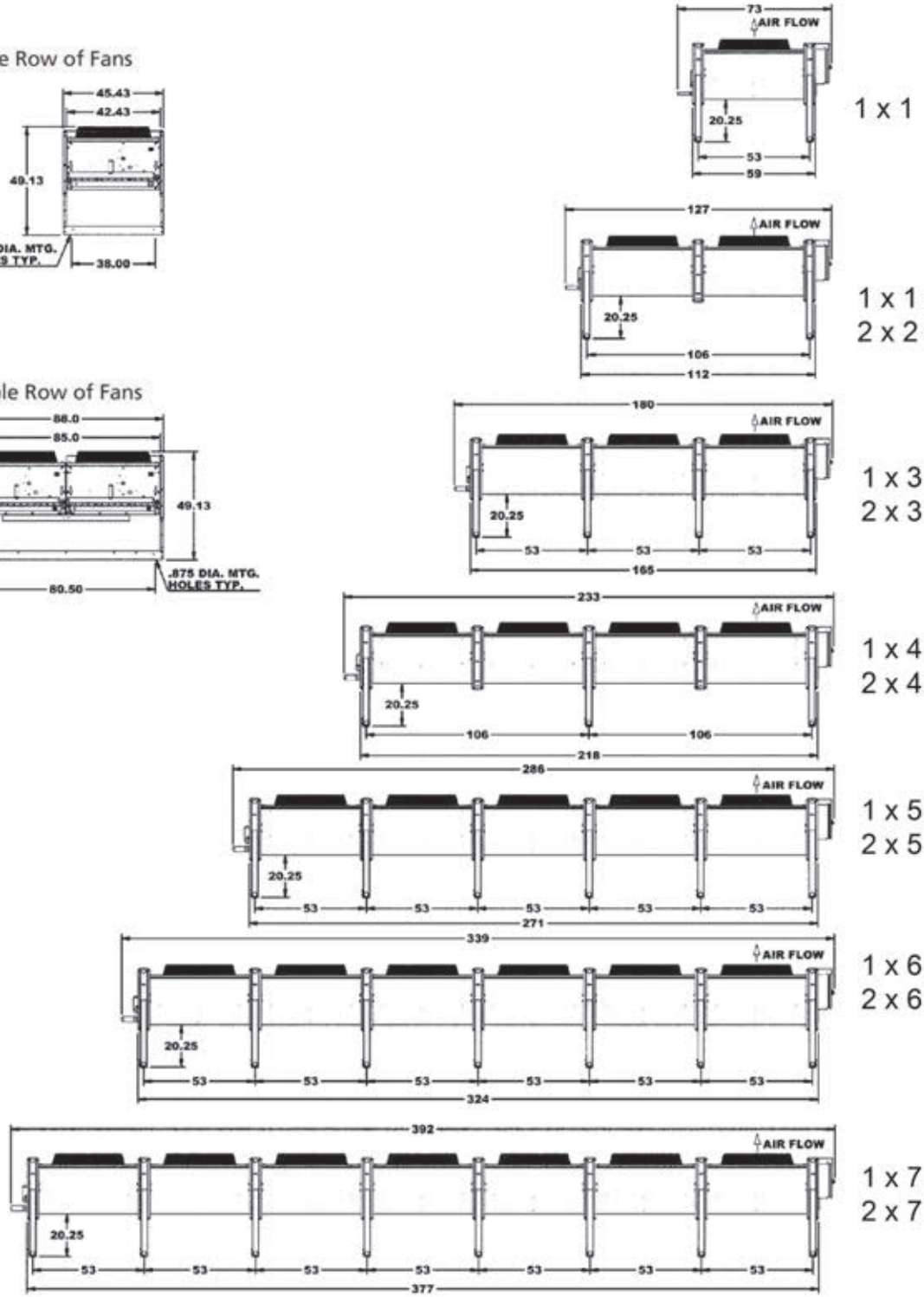
Single Row of Fans



Double Row of Fans



Side Views



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Air-cooled Scroll Condensing Units

Air-cooled Condensers

Model 014S through 225D

Physical Data - Air-cooled Condensers

Model number	Model ACH				Model ACL				Model ACX			
	Fans/ Row	CFM	Conn. (in)	Weight (lbs)	Fans/ Row	CFM	Conn. (in)	Weight (lbs)	Fans/ Row	CFM	Conn. (in)	Weight (lbs)
014S	1	9900	1-3/8	330	1	8400	1-3/8	330	1	7600	1-3/8	330
016S	1	9500	1-3/8	360	1	8000	1-3/8	360	1	7300	1-3/8	360
020S	2	20,500	1-3/8	580	2	17,500	1-3/8	580	2	15,900	1-3/8	580
025S	2	19,800	1-5/8	630	2	16,700	1-5/8	630	2	15,200	1-5/8	630
030S	2	19,000	2-1/8	680	2	16,100	2-1/8	680	2	14,700	2-1/8	680
040S	3	29,700	2-1/8	930	3	25,100	2-1/8	930	3	22,900	2-1/8	930
050S	3	28,500	2-1/8	1000	3	24,100	2-1/8	1000	3	22,000	2-1/8	1000
055S	4	38,600	2-1/8	1210	4	32,800	2-1/8	1210	4	29,800	2-1/8	1210
060S	4	37,000	2-5/8	1310	4	31,200	2-5/8	1310	4	28,400	2-5/8	1310
070S	5	48,300	2-5/8	1510	5	41,000	2-5/8	1510	5	37,300	2-5/8	1510
080S	5	46,200	2-5/8	1640	5	39,100	2-5/8	1640	5	35,500	2-5/8	1640
100S	6	55,400	2-5/8	1950	6	46,900	2-5/8	1950	6	42,600	2-5/8	1950
110S	7	64,700	(2)2-5/8	2240	7	54,700	(2)2-5/8	2240	7	49,700	(2)2-5/8	2240
040D	2	41,000	(2)1-3/8	1240	2	35,000	(2)1-3/8	1240	2	31,700	(2)1-3/8	1240
050D	2	39,600	(2)1-5/8	1340	2	33,500	(2)1-5/8	1340	2	30,500	(2)1-5/8	1340
060D	2	38,100	(2)2-1/8	1440	2	32,100	(2)2-1/8	1440	2	29,300	(2)2-1/8	1440
080D	3	59,400	(2)2-1/8	1990	3	50,200	(2)2-1/8	1990	3	45,700	(2)2-1/8	1990
100D	3	57,100	(2)2-1/8	2140	3	48,200	(2)2-1/8	2140	3	44,000	(2)2-1/8	2140
110D	4	77,200	(2)2-1/8	2630	4	65,600	(2)2-1/8	2630	4	59,700	(2)2-1/8	2630
130D	4	73,900	(2)2-5/8	2830	4	62,500	(2)2-5/8	2830	4	56,800	(2)2-5/8	2830
140D	5	96,500	(2)2-5/8	3290	5	82,000	(2)2-5/8	3290	5	74,600	(2)2-5/8	3290
160D	5	92,400	(2)2-5/8	3540	5	78,100	(2)2-5/8	3540	5	71,000	(2)2-5/8	3540
200D	6	110,900	(2)2-5/8	4230	6	93,700	(2)2-5/8	4230	6	85,200	(2)2-5/8	4230
225D	7	129,400	(4)2-5/8	4910	7	109,300	(4)2-5/8	4910	7	99,400	(4)2-5/8	4910

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Fluid Coolers

Direct-drive Fluid Coolers

Model 005 through 021

Physical Data - Direct-drive Fluid Coolers

AFS Model	Fan data		Operating Charge (Gal)	Approximate net weight (lb[1])	Approx. shipping weight (lb)	Approx. Operating Weight (lb)
	Fan config.	Fan diameter				
005	1 × 1	24	2.5	180	325	240
008	1 × 1	26	3.8	260	380	330
010	1 × 2	24	4.0	450	600	537
012	1 × 2	26	4.0	470	620	557
014	1 × 2	26	4.9	510	650	615
016	1 × 2	26	6.1	530	680	635
021	1 × 3	26	6.6	550	725	698

1. Net weight is dry unit only.

Model 023 through 212

Model	Fan data			Approx. Operating Charge (gal)	Approx. Net Weight (lbs)	Approx. shipping weight (lb)	Approx. Operating Weight (lb)
	Fan config.	Number of Fans	CFM				
AFS single row of fans							
023	1 × 2	2	23,000	6.7	730	800	788
027	1 × 2	2	23,200	9.2	790	840	870
031	1 × 2	2	21,900	9.2	790	860	870
035	1 × 2	2	20,700	11.8	889	950	992
041	1 × 3	3	34,800	13.0	1190	1280	1303
045	1 × 3	3	32,900	13.0	1210	1300	1323
049	1 × 3	3	31,800	16.7	1240	1330	1385
053	1 × 4	4	46,400	16.7	1580	1690	1725
061	1 × 4	4	43,900	16.7	1620	1730	1765
065	1 × 4	4	42,400	21.7	1650	1760	1839
071	1 × 4	4	41,500	21.7	1760	1870	1949
075	1 × 5	5	54,900	20.4	2000	2150	2177
079	1 × 5	5	54,800	26.6	2020	2150	2251
089	1 × 5	5	51,800	26.6	2200	2390	2431
097	1 × 6	6	65,800	31.6	2390	2610	2665
107	1 × 6	6	62,200	31.6	2630	2850	2905
AFD double row of fans							
046	2 × 2	4	46,000	13.5	1540	1730	1657
054	2 × 2	4	46,400	18.5	1580	1770	1741
060	2 × 2	4	43,900	18.5	1620	1820	1781
066	2 × 2	4	42,400	23.5	1650	1840	1854
070	2 × 2	4	41,500	23.5	1760	1950	1964
080	2 × 3	6	69,700	25.9	2360	2570	2585
086	2 × 3	6	67,000	25.9	2380	2620	2605
090	2 × 3	6	65,800	25.9	2420	2630	2645
098	2 × 3	6	63,600	33.4	2480	2690	2771
106	2 × 4	8	92,900	33.3	3150	3360	3440
120	2 × 4	8	87,800	33.3	3230	3420	3520
132	2 × 4	8	84,800	43.3	3300	3470	3677
140	2 × 4	8	83,000	43.3	3510	3730	3887
152	2 × 5	10	83,000	40.7	4040	4290	4394
162	2 × 5	10	109,700	53.1	3990	4270	4452
168	2 × 5	10	106,000	53.1	4130	4450	4592
178	2 × 5	10	103,700	53.1	4390	4680	4852
194	2 × 6	12	131,600	63.1	4790	5150	5339
202	2 × 6	12	127,200	63.1	4960	5330	5509
212	2 × 6	12	124,400	63.1	5270	5670	5819

1. Net weight is dry unit only.
2. Operating weight based on 50% ethylene glycol at 130°F.
3. All fans are 30 inches in diameter.

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Fluid Coolers

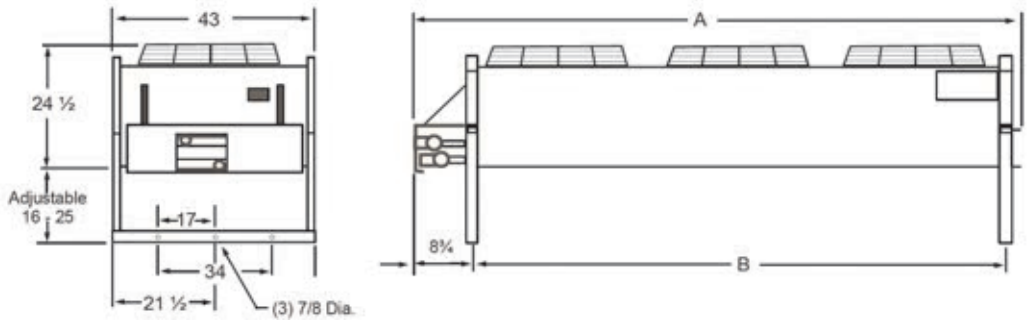
Direct-drive Fluid Coolers

Model 023 through 212

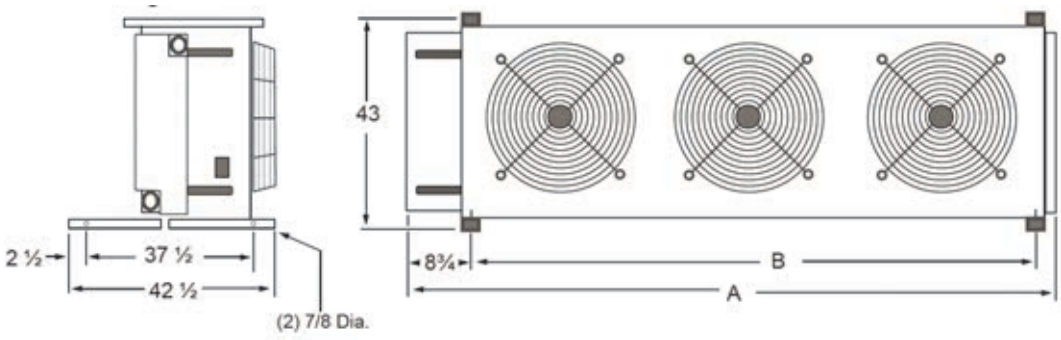
Sound Pressure

Model No.	Fans	FansSound Pressure, dBa, 1140 RPM Fans				Sound Pressure, dBa, 830 RPM Fans			
		Distance from Side of Unit, ft.				Distance from Side of Unit, ft.			
		5	10	20	40	5	10	20	40
023, 027, 031, 035	1 × 2	77	74	69	65	69	65	61	56
041, 045, 049	1 × 3	79	76	71	67	71	67	63	58
053, 061, 065, 071,	1 × 4	80	77	72	68	72	68	64	59
075, 079, 089	1 × 5	81	78	73	69	73	69	65	60
097, 107	1 × 6	82	79	74	70	74	70	65	61
046, 054, 060, 066, 070	2 × 2	79	76	71	67	71	67	63	58
080, 086, 090, 098	2 × 3	81	78	73	69	73	69	65	60
106, 120, 132, 140	2 × 4	82	79	74	70	74	70	66	61
152, 162, 168, 178	2 × 5	83	80	75	71	75	71	67	62
194, 202, 212	2 × 6	84	81	76	72	76	72	68	63

Direct-drive Fluid Coolers - Dimensions
AFS 005 through AFS 021 with Vertical Flow



AFS 005 through AFS 021 with Horizontal Flow



Notes: Inlet is the top connection, outlet the bottom.
The electrical box is on the same end as the fluid connections with knockouts on the bottom and sides.

AFS Model	Number of Fans	Dim. A (in.)	Dim. B (in.)
005	1	39-3/4	30
008	1	49-3/4	40
010	2	69-3/4	60
012	2	69-3/4	60
014	2	89-3/4	80
016	2	89-3/4	80
021	3	129-3/4	120

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Fluid Coolers

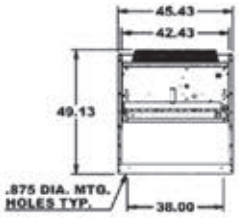
Direct-drive Fluid Coolers

Model 023 through 212

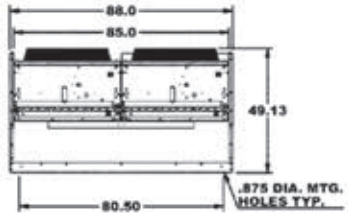
Direct-drive Fluid Cooler Dimensions (shown in inches)

End Views

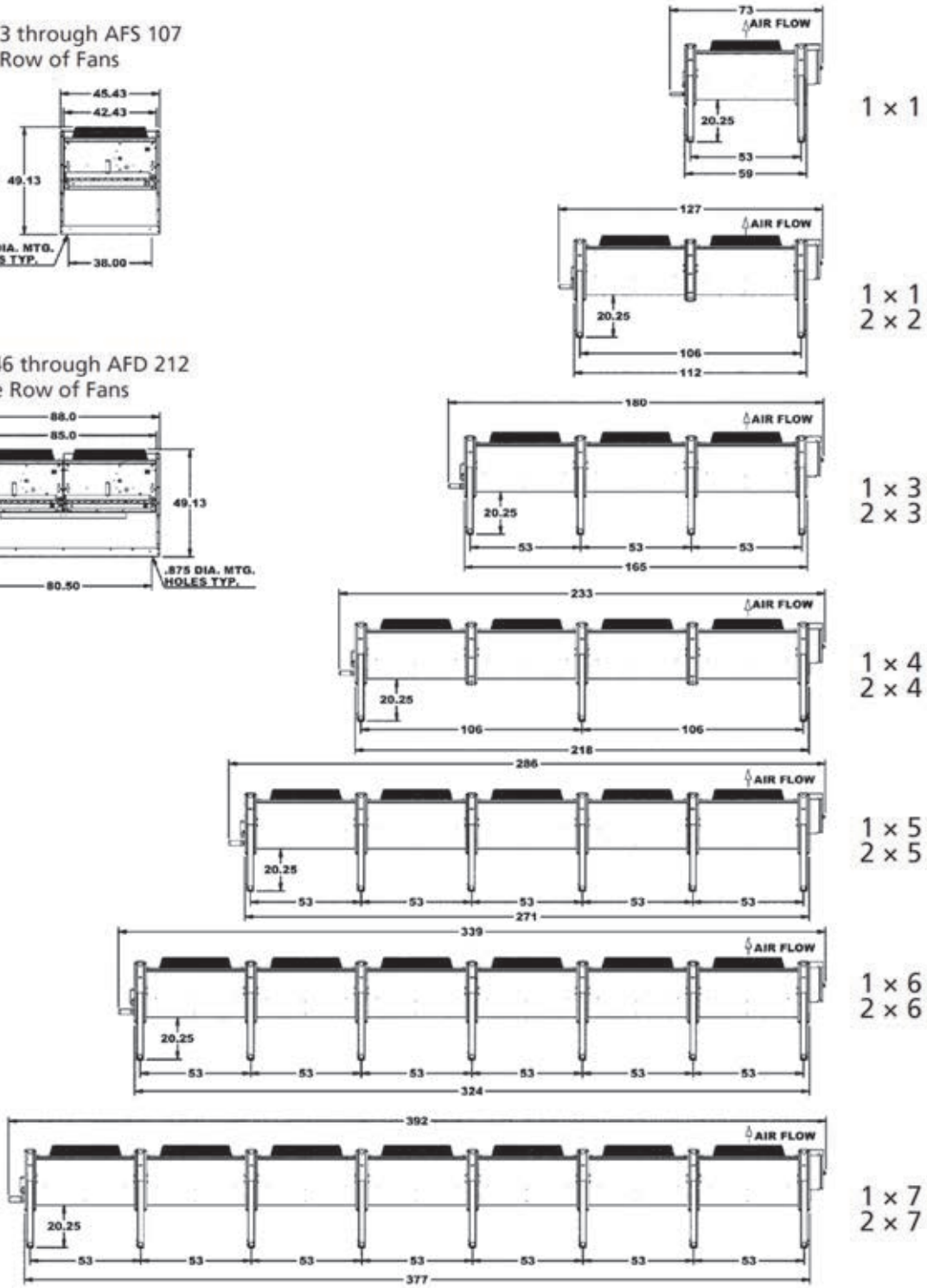
AFS 023 through AFS 107
Single Row of Fans



AFD 046 through AFD 212
Double Row of Fans



Side Views



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Air-cooled Chillers

Product Summary Chart

Model:

R-134a
AWS
Pathfinder®
Air-Cooled Screw
Compressor Chiller

EER range: up to 19.4 IPLV
170 — 550 tons
Optional VFD and remote evaporator available

R-134a
AWV
Pathfinder®
Air-Cooled Scroll
Compressor Chiller

EER range: up to 22.0 IPLV
165 — 550 tons

R-134a
AMZ
Trailblazer®
Air-Cooled Screw
Compressor Chiller

EER range: up to 16.5 IPLV
10 — 40 tons

R-410A
AGZ-E
Trailblazer®
Air-Cooled Scroll
Compressor Chiller

EER range: up to 16.2 IPLV
30 — 240 tons
Remote evaporator and pump package available

R-407C
AGZ-D
Air-Cooled Scroll
Compressor Chiller

EER range: up to 13.9 IPLV
30 — 190 tons

Tons
0 50 100 150 200 250 300 350 400 450 500 550

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Physical Data - Pathfinder® Standard Efficiency (Non-VFD)

AWS 190C through 260C, Standard Efficiency, non-VFD models

Data	AWS190CDS		AWS210CDS		AWS225CDS		AWS250CDS		AWS260CDS	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data										
Unit Cap. @ AHRI, tons (kW)	180.1 (633)		201.3 (708)		216.3 (760)		235.8 (829)		250.5 (881)	
Unit Operating Charge lbs (kg)	145 (66)	145 (66)	165 (75)	165 (75)	165 (75)	165 (75)	185 (84)	185 (84)	185 (84)	185 (84)
Unit Dimensions L × W × H, in. (mm)	246 × 88 × 100 (6248 × 2225 × 2548)		245 × 88 × 100 (6220 × 2225 × 2548)		245 × 88 × 100 (6220 × 2225 × 2548)		281 × 88 × 100 (7137 × 2225 × 2548)		280 × 88 × 100 (7121 × 2225 × 2548)	
Condensing Unit Operating Weight, lbs. (kg)	13072 (5930)		13788 (6255)		14335 (6503)		15188 (6890)		15188 (6890)	
Condensing Unit Shipping Weight, lbs (kg)	12829 (5819)		13575 (6158)		14092 (6392)		15015 (6811)		15015 (6811)	
Weight-Add for Copper Fins, lbs (kg)	1786 (810)		1786 (810)		1786 (810)		2084 (945)		2084 (945)	
Weight-Add for Louvered Panels, lbs (kg)	676 (307)		788 (357)		788 (357)		900 (408)		900 (408)	
Weight-Add for PFCC option, lbs (kg)	160 (73)		160 (73)		160 (73)		160 (73)		160 (73)	
Compressors, Screw, Semi-Hermetic										
Nominal Capacity, tons (kW)	95 (334)	95 (334)	95 (334)	115 (404)	115 (404)	115 (404)	115 (404)	135 (475)	135 (475)	135 (475)
Minimum Capacity (% of Full Load)	15		15		15		15		15	
Oil charge per circuit , gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)
Condensers, High Efficiency Fin and Tube Type										
Pumpdown Capacity, lbs (kg)	208 (94)	208 (94)	250 (113)	250 (113)	250 (113)	250 (113)	291 (132)	291 (132)	291 (132)	291 (132)
Coil Inlet Face Area, sq. ft. (sq. m.)	123.1 (11.4)	123.1 (11.4)	147.7 (13.7)	147.7 (13.7)	147.7 (13.7)	147.7 (13.7)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type										
Number of Fans per Circuit	5	5	6	6	6	6	7	7	7	7
Fan Diameter	31.5 in. (800 mm)									
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	110850 (52315)		133020 (62778)		133020 (62778)		155190 (73241)		155190 (73241)	
Evaporator, Direct Expansion Shell and Tube										
Shell Dia.-Tube Length, in.(mm)	16 × 406 (406 × 2750)		16 × 108 (406 × 2750)		16 × 108 (406 × 2750)		16 × 108 (406 × 2750)		16 × 108 (406 × 2750)	
Water Volume, gallons (liters)	68 (258)		66 (251)		66 (251)		64 (243)		64 (243)	
Victaulic inlet/outlet conn. in. (mm)	6 (168)		6 (168)		6 (168)		6 (168)		6 (168)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)		325 (2241)	

AWS 290C through 375C, Standard Efficiency, non-VFD models

Data	AWS290CDS		AWS310CDS		AWS350CDS		AWS375CDS	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data								
Unit Cap. @ AHRI, tons (kW)	282.9 (995)		300.4 (1056)		340.6 (1197)		361.4 (1271)	
Unit Operating Charge lbs (kg)	210 (95)	210 (95)	215 (98)	215 (98)	265 (120)	265 (120)	265 (120)	265 (120)
Unit Dimensions L × W × H, in. (mm)	317 × 88 × 100 (8052 × 2225 × 2548)		317 × 88 × 100 (8052 × 2225 × 2548)		387 × 88 × 100 (9823 × 2225 × 2548)		387 × 88 × 100 (9823 × 2225 × 2548)	
Condensing Unit Operating Weight, lbs. (kg)	17491 (7934)		18161 (8238)		19803 (8983)		19803 (8983)	
Condensing Unit Shipping Weight, lbs (kg)	17044 (7731)		17724 (8039)		19466 (8830)		19466 (8830)	
Weight-Add for Copper Fins, lbs (kg)	2372 (1076)		2372 (1076)		2968 (1346)		2968 (1346)	
Weight-Add for Louvered Panels, lbs (kg)	1012 (459)		1012 (459)		1236 (561)		1236 (561)	
Weight-Add for PFCC option, lbs (kg)	160 (73)		160 (73)		160 (73)		160 (73)	
Compressors, Screw, Semi-Hermetic								
Nominal Capacity, tons (kW)	135 (475)	155 (545)	155 (545)	155 (545)	155 (545)	185 (650)	185 (650)	185 (650)
Minimum Capacity (% of Full Load)	15		15		15		15	
Oil charge per circuit , gallons (liters)	5.5 (21)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type								
Pumpdown Capacity, lbs (kg)	333 (151)	333 (151)	333 (151)	333 (151)	416 (189)	416 (189)	416 (189)	416 (189)
Coil Inlet Face Area, sq. ft. (sq. m.)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type								
Number of Fans per Circuit	8	8	8	8	10	10	10	10
Fan Diameter	31.5 in. (800 mm)							
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	177360 (83704)		177360 (83704)		221700 (104630)		221700 (104630)	
Evaporator, Direct Expansion Shell and Tube								
Shell Dia.-Tube Length, in.(mm)	20 × 108 (508 × 2750)		20 × 108 (508 × 2750)		20 × 108 (508 × 2750)		20 × 108 (508 × 2750)	
Water Volume, gallons (liters)	107 (403)		107 (403)		102 (386)		102 (386)	
Victaulic inlet/outlet conn. in. (mm)	8 (219)		8 (219)		8 (219)		8 (219)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)	

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Physical Data - Pathfinder® Standard Efficiency (Non-VFD)

AWS 400C through 450C, Standard Efficiency, non-VFD models

Data	AWS400CTS			AWS425CTS			AWS450CTS		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
Basic Data									
Unit Cap. @ AHRI, tons (kW)	398.3 (1400)			418.7 (1472)			441.4 (1552)		
Unit Operating Charge lbs (kg)	185 (84)	185 (84)	220 (100)	185 (84)	185 (84)	220 (100)	210 (95)	210 (95)	220 (100)
Unit Dimensions L × W × H, in. (mm)	438 × 88 × 100 (11123 × 2225 × 2548)			438 × 88 × 100 (11123 × 2225 × 2548)			474 × 88 × 100 (12040 × 2225 × 2548)		
Condensing Unit Operating Weight, lbs. (kg)	24260 (11005)			24931 (11309)			26418 (11984)		
Condensing Unit Shipping Weight, lbs (kg)	23451 (10637)			24122 (10941)			25659 (11639)		
Weight-Add for Copper Fins, lbs (kg)	3256 (1477)			3256 (1477)			3553 (1612)		
Weight-Add for Louvered Panels, lbs (kg)	1348 (611)			1348 (611)			1460 (662)		
Weight-Add for PFCC option, lbs (kg)	120 (55)			120 (55)			120 (55)		
Compressors, Screw, Semi-Hermetic									
Nominal Capacity, tons (kW)	135 (475)	135 (475)	135 (475)	135 (475)	135 (475)	155 (545)	135 (475)	155 (545)	155 (545)
Minimum Capacity (% of Full Load)	8			8			8		
Oil charge per circuit , gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)	5.5 (21)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type									
Pumpdown Capacity, lbs (kg)	291 (132)	291 (132)	333 (151)	291 (132)	291 (132)	333 (151)	333 (151)	333 (151)	333 (151)
Coil Inlet Face Area, sq. ft. (sq. m.)	172.3 (16.0)	172.3 (16.0)	196.9 (18.3)	172.3 (16.0)	172.3 (16.0)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type									
Number of Fans per Circuit	7	7	8	7	7	8	8	8	8
Fan Diameter	31.5 in. (800 mm)								
Fan Motor, hp (kW)	1.4 (1.05)			1.4 (1.05)			1.4 (1.05)		
Fan & Motor RPM	850			850			850		
Fan Tip Speed, FPM (m/s)	6984 (35)			6984 (35)			6984 (35)		
Airflow, CFM (l/s)	266040 (125556)			243870 (115094)			266040 (125556)		
Evaporator, Direct Expansion Shell and Tube									
Shell Dia.-Tube Length, in.(mm)	26 × 130 (660 × 3300)			26 × 130 (660 × 3300)			26 × 130 (660 × 3300)		
Water Volume, gallons (liters)	225 (850)			225 (850)			225 (850)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)			10 (273)		
Max. Water Pressure, psi (kPA)	152 (1048)			152 (1048)			152 (1048)		
Max. Refrigerant Press., psi (kPA)	325 (2241)			325 (2241)			325 (2241)		

AWS 470C through 550C, Standard Efficiency, non-VFD models

Data	AWS470CTS			AWS500CTS			AWS525CTS			AWS550CTS		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
Basic Data												
Unit Cap. @ AHRI, tons (kW)	459.2 (1615)			488.3 (1717)			517.7 (1820)			547.3 (1924)		
Unit Operating Charge lbs (kg)	210 (95)	210 (95)	220 (100)	210 (95)	210 (95)	280 (127)	265 (120)	265 (120)	220 (100)	270 (122)	270 (122)	280 (127)
Unit Dimensions L × W × H, in. (mm)	474 × 88 × 100 (12040 × 2225 × 2548)			509 × 88 × 100 (12921 × 2225 × 2548)			545 × 88 × 100 (13643 × 2225 × 2548)			580 × 88 × 100 (14722 × 2225 × 2548)		
Condensing Unit Operating Weight, lbs. (kg)	27143 (12312)			27902 (12657)			28901 (13110)			29643 (13446)		
Condensing Unit Shipping Weight, lbs (kg)	26384 (11968)			27203 (12339)			28252 (12815)			29054 (13183)		
Weight-Add for Copper Fins, lbs (kg)	3553 (1612)			3870 (1755)			4168 (1891)			4466 (2026)		
Weight-Add for Louvered Panels, lbs (kg)	1460 (662)			1572 (713)			1684 (764)			1796 (815)		
Weight-Add for PFCC option, lbs (kg)	120 (55)			120 (55)			120 (55)			120 (55)		
Compressors, Screw, Semi-Hermetic												
Nominal Capacity, tons (kW)	155 (545)	155 (545)	155 (545)	155 (545)	155 (545)	185 (650)	185 (650)	185 (650)	155 (545)	185 (650)	185 (650)	185 (650)
Minimum Capacity (% of Full Load)	8			8			8			8		
Oil charge per circuit , gallons (liters)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type												
Pumpdown Capacity, lbs (kg)	333 (151)	333 (151)	333 (151)	333 (151)	333 (151)	416 (189)	416 (189)	416 (189)	333 (151)	416 (189)	416 (189)	416 (189)
Coil Inlet Face Area, sq. ft. (sq. m.)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	196.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type												
Number of Fans per Circuit	8	8	8	8	8	10	10	10	8	10	10	10
Fan Diameter	31.5 in. (800 mm)											
Fan Motor, hp (kW)	1.4 (1.05)			1.4 (1.05)			1.4 (1.05)			1.4 (1.05)		
Fan & Motor RPM	850			850			850			850		
Fan Tip Speed, FPM (m/s)	6984 (35)			6984 (35)			6984 (35)			6984 (35)		
Airflow, CFM (l/s)	266040 (125556)			288210 (136019)			310380 (146482)			332550 (156945)		
Evaporator, Direct Expansion Shell and Tube												
Shell Dia.-Tube Length, in.(mm)	26 × 130 (660 × 3300)			26 × 130 (660 × 3300)			26 × 130 (660 × 3300)			26 × 130 (660 × 3300)		
Water Volume, gallons (liters)	220 (831)			220 (831)			220 (831)			220 (831)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)			10 (273)			10 (273)		
Max. Water Pressure, psi (kPA)	152 (1048)			152 (1048)			152 (1048)			152 (1048)		
Max. Refrigerant Press., psi (kPA)	325 (2241)			325 (2241)			325 (2241)			325 (2241)		

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Physical Data - Pathfinder® High Efficiency (Non-VFD)

AWS 210C through 300C, High Efficiency, non-VFD models

Data	AWS210CDH		AWS230CDH		AWS250CDH		AWS280CDH*		AWS300CDH*	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data										
Unit Cap. @ AHRI, tons (kW)	205.7 (723)		225.2 (792)		240.6 (846)		271.9 (956)		288.7 (1015)	
Unit Operating Charge lbs (kg)	160 (73)	160 (73)	180 (82)	180 (82)	180 (82)	180 (82)	200 (91)	200 (91)	210 (95)	210 (95)
Unit Dimensions L × W × H, in. (mm)	246 × 88 × 100 (6248 × 2225 × 2548)		281 × 88 × 100 (7137 × 2225 × 2548)		281 × 88 × 100 (7137 × 2225 × 2548)		317 × 88 × 100 (8052 × 2225 × 2548)		317 × 88 × 100 (8052 × 2225 × 2548)	
Condensing Unit Operating Weight, lbs. (kg)	13653 (6193)		15165 (6879)		15825 (7179)		17461 (7921)		17461 (7921)	
Condensing Unit Shipping Weight, lbs (kg)	13470 (6110)		15042 (6623)		15722 (7131)		17094 (7754)		17094 (7754)	
Weight-Add for Copper Fins, lbs (kg)	1876 (851)		2084 (945)		2084 (945)		2372 (1076)		2372 (1076)	
Weight-Add for Louvered Panels, lbs (kg)	788 (357)		900 (408)		900 (408)		1012 (459)		1012 (459)	
Weight-Add for PFCC option, lbs (kg)	160 (73)		160 (73)		160 (73)		160 (73)		160 (73)	
Compressors, Screw, Semi-Hermetic										
Nominal Capacity, tons (kW)	105 (369)	105 (369)	105 (369)	125 (439)	125 (439)	125 (439)	125 (439)	150 (528)	150 (528)	150 (528)
Minimum Capacity (% of Full Load)	15		15		15		15		15	
Oil charge per circuit , gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)
Condensers, High Efficiency Fin and Tube Type										
Pumpdown Capacity, lbs (kg)	250 (113)	250 (113)	291 (132)	291 (132)	291 (132)	291 (132)	333 (151)	333 (151)	333 (151)	333 (151)
Coil Inlet Face Area, sq. ft. (sq. m.)	147.7 (13.7)	147.7 (13.7)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type										
Number of Fans per Circuit	6	6	7	7	7	7	8	8	8	8
Fan Diameter	31.5 in. (800 mm)									
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	133020 (62778)		155190 (73241)		155190 (73241)		177360 (83704)		177360 (83704)	
Evaporator, Direct Expansion Shell and Tube										
Shell Dia.-Tube Length, in.(mm)	16 × 108 (406 × 2750)		16 × 108 (406 × 2750)		16 × 108 (406 × 2750)		20 × 108 (508 × 2750)		20 × 108 (508 × 2750)	
Water Volume, gallons (liters)	66 (251)		64 (243)		64 (243)		107 (403)		107 (403)	
Victaulic inlet/outlet conn. in. (mm)	6 (168)		6 (168)		6 (168)		8 (219)		8 (219)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)		325 (2241)	

* Dimensions and weights are based on the largest control panel required. Confirm data for specific voltages in the sections for dimensional drawings and lifting and mounting weights

AWS 330C through 410C, High Efficiency, non-VFD models

Data	AWS330CDH		AWS350CDH		AWS390CDH		AWS410CDH	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data								
Unit Cap. @ AHRI, tons (kW)	327.3 (1151)		348.1 (1224)		378.7 (1332)		409.8 (1441)	
Unit Operating Charge lbs (kg)	260 (118)	260 (118)	265 (120)	265 (120)	270 (122)	320 (145)	320 (145)	320 (145)
Unit Dimensions L × W × H, in. (mm)	387 × 88 × 100 (9823 × 2225 × 2548)		387 × 88 × 100 (9823 × 2225 × 2548)		439 × 88 × 100 (11151 × 2225 × 2548)		474 × 88 × 101 (12040 × 2225 × 2548)	
Condensing Unit Operating Weight, lbs. (kg)	19764 (8965)		20444 (9274)		21864 (9918)		22657 (10278)	
Condensing Unit Shipping Weight, lbs (kg)	19442 (8819)		20174 (9139)		21613 (9804)		22452 (10184)	
Weight-Add for Copper Fins, lbs (kg)	2968 (1346)		2968 (1346)		3256 (1477)		3553 (1612)	
Weight-Add for Louvered Panels, lbs (kg)	1236 (561)		1236 (561)		1348 (611)		1460 (662)	
Weight-Add for PFCC option, lbs (kg)	160 (73)		160 (73)		160 (73)		160 (73)	
Compressors, Screw, Semi-Hermetic								
Nominal Capacity, tons (kW)	150 (528)	175 (615)	175 (615)	175 (615)	175 (615)	205 (721)	205 (721)	205 (721)
Minimum Capacity (% of Full Load)	15		15		15		15	
Oil charge per circuit , gallons (liters)	5.5 (21)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type								
Pumpdown Capacity, lbs (kg)	416 (189)	416 (189)	416 (189)	416 (189)	416 (189)	500 (227)	500 (227)	500 (227)
Coil Inlet Face Area, sq. ft. (sq. m.)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	295.3 (27.4)	295.3 (27.4)	295.3 (27.4)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type								
Number of Fans per Circuit	10	10	10	10	10	12	12	12
Fan Diameter	31.5 in. (800 mm)							
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	221700 (104630)		221700 (104630)		243870 (115094)		266040 (125556)	
Evaporator, Direct Expansion Shell and Tube								
Shell Dia.-Tube Length, in.(mm)	20 × 108 (508 × 2750)		20 × 108 (508 × 2750)		20 × 108 (508 × 2750)		20 × 108 (508 × 2750)	
Water Volume, gallons (liters)	102 (386)		102 (386)		100 (377)		100 (377)	
Victaulic inlet/outlet conn. in. (mm)	8 (219)		8 (219)		8 (219)		8 (219)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)	

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Physical Data - Pathfinder® High Efficiency (Non-VFD)

AWS 450C through 530C, High Efficiency, non-VFD models

Data	AWS450CTH			AWS475CTH			AWS500CTH			AWS530CTH		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
Basic Data												
Unit Cap. @ AHRI, tons (kW)	446.3 (1569)			470.3 (1654)			499.4 (1756)			528.3 (1857)		
Unit Operating Charge lbs (kg)	210 (95)	210 (95)	220 (100)	210 (95)	210 (95)	280 (127)	265 (120)	265 (120)	220 (100)	265 (120)	265 (120)	280 (127)
Unit Dimensions L × W × H, in. (mm)	474 × 88 × 100 (12040 × 2225 × 2548)			509 × 88 × 100 (12921 × 2225 × 2548)			545 × 88 × 100 (13843 × 2225 × 2548)			580 × 88 × 100 (14722 × 2225 × 2548)		
Condensing Unit Operating Weight, lbs. (kg)	26057 (11820)			27542 (12493)			29181 (13237)			30608 (13884)		
Condensing Unit Shipping Weight, lbs (kg)	25408 (11525)			26938 (12219)			28622 (12983)			30094 (13651)		
Weight-Add for Copper Fins, lbs (kg)	3553 (1612)			3870 (1755)			4168 (1891)			4466 (2026)		
Weight-Add for Louvered Panels, lbs (kg)	1460 (662)			1572 (713)			1684 (764)			1796 (815)		
Weight-Add for PFCC option, lbs (kg)	120 (55)			120 (55)			120 (55)			120 (55)		
Compressors, Screw, Semi-Hermetic												
Nominal Capacity, tons (kW)	150 (528)	150 (528)	150 (528)	150 (528)	150 (528)	175 (615)	175 (615)	175 (615)	150 (528)	175 (615)	175 (615)	175 (615)
Minimum Capacity (% of Full Load)	8			8			8			8		
Oil charge per circuit , gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)	6 (23)	6 (23)	5.5 (21)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type												
Pumpdown Capacity, lbs (kg)	333 (151)	333 (151)	333 (151)	333 (151)	333 (151)	416 (189)	416 (189)	416 (189)	333 (151)	416 (189)	416 (189)	416 (189)
Coil Inlet Face Area, sq. ft. (sq. m.)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	196.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type												
Number of Fans per Circuit	8	8	8	8	10	10	10	10	8	10	10	10
Fan Diameter	31.5 in. (800 mm)											
Fan Motor, hp (kW)	1.4 (1.05)			1.4 (1.05)			1.4 (1.05)			1.4 (1.05)		
Fan & Motor RPM	850			850			850			850		
Fan Tip Speed, FPM (m/s)	6984 (35)			6984 (35)			6984 (35)			6984 (35)		
Airflow, CFM (l/s)	266040 (125556)			288210 (136019)			310380 (146482)			332550 (156945)		
Evaporator, Direct Expansion Shell and Tube												
Shell Dia.-Tube Length, in.(mm)	26 × 130 (660 × 3300)			26 × 130 (660 × 3300)			26 × 130 (660 × 3300)			26 × 130 (660 × 3300)		
Water Volume, gallons (liters)	225 (850)			220 (831)			220 (831)			220 (831)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)			10 (273)			10 (273)		
Max. Water Pressure, psi (kPA)	152 (1048)			152 (1048)			152 (1048)			152 (1048)		
Max. Refrigerant Press., psi (kPA)	325 (2241)			325 (2241)			325 (2241)			325 (2241)		

Physical Data - Pathfinder® Premium Efficiency (Non-VFD)

AWS 240C through 310C, Premium Efficiency, non-VFD models

Data	AWS240CDP		AWS265CDP		AWS290CDP		AWS310CDP*	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data								
Unit Cap. @ AHRI, tons (kW)	232.8 (818)		256.4 (901)		277.5 (976)		303.9 (1068)	
Unit Operating Charge lbs (kg)	200 (91)	200 (91)	225 (102)	225 (102)	(235) (107)	(235) (107)	250 (113)	250 (113)
Unit Dimensions L × W × H, in. (mm)	316 × 88 × 100 (8022 × 2225 × 2548)		351 × 88 × 100 (8923 × 2225 × 2548)		351 × 88 × 100 (8923 × 2225 × 2548)		387 × 88 × 100 (9823 × 2225 × 2545)	
Condensing Unit Operating Weight, lbs. (kg)	17210 (7807)		18631 (8451)		20722 (9400)		21559 (9779)	
Condensing Unit Shipping Weight, lbs (kg)	16358 (7420)		17829 (8087)		19539 (8863)		20426 (9265)	
Weight-Add for Copper Fins, lbs (kg)	2372 (1076)		2679 (1215)		2679 (1215)		2968 (1346)	
Weight-Add for Louvered Panels, lbs (kg)	1012 (459)		1124 (510)		1124 (510)		1236 (561)	
Weight-Add for PFCC option, lbs (kg)	160 (73)		160 (73)		160 (73)		160 (73)	
Compressors, Screw, Semi-Hermetic								
Nominal Capacity, tons (kW)	105 (369)	105 (369)	105 (369)	125 (439)	125 (439)	125 (439)	125 (439)	150 (528)
Minimum Capacity (% of Full Load)	15		15		15		15	
Oil charge per circuit , gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)
Condensers, High Efficiency Fin and Tube Type								
Pumpdown Capacity, lbs (kg)	333 (151)	333 (151)	375 (170)	375 (170)	375 (170)	375 (170)	416 (189)	416 (189)
Coil Inlet Face Area, sq. ft. (sq. m.)	196.9 (18.3)	196.9 (18.3)	221.5 (20.6)	221.5 (20.6)	221.5 (20.6)	221.5 (20.6)	246.1 (22.8)	246.1 (22.8)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type								
Number of Fans per Circuit	8	8	9	9	9	9	10	10
Fan Diameter	31.5 in. (800 mm)							
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	177360 (83704)		199530 (94167)		199530 (94167)		221700 (104630)	
Evaporator, Direct Expansion Shell and Tube								
Shell Dia.-Tube Length, in.(mm)	20 × 154 (508 × 3900)		20 × 154 (508 × 3900)		26 × 154 (660 × 3900)		26 × 154 (660 × 3900)	
Water Volume, gallons (liters)	158 (599)		158 (599)		276 (1043)		276 (1043)	
Victaulic inlet/outlet conn. in. (mm)	8 (219)		8 (219)		10 (273)		10 (273)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)	

* Dimensions and weights are based on the largest control panel required. Confirm data for specific voltages in the sections for dimensional drawings and lifting and mounting weights.

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Physical Data - Pathfinder® Premium Efficiency (Non-VFD)

AWS 330C through 400C, Premium Efficiency, non-VFD models

Data	AWS330CDP*		AWS365CDP		AWS400CDP	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data						
Unit Cap. @ AHRI, tons (kW)	324.9 (1142)		355 (1248)		385.4 (1355)	
Unit Operating Charge lbs (kg)	260 (118)	260 (118)	260 (118)	300 (136)	310 (141)	310 (141)
Unit Dimensions L × W × H, in. (mm)	387 × 88 × 100 (9823 × 2225 × 2545)		439 × 88 × 100 (11151 × 2225 × 2548)		474 × 88 × 100 (12040 × 2225 × 2548)	
Condensing Unit Operating Weight, lbs. (kg)	21559 (9779)		23659 (10732)		25093 (11382)	
Condensing Unit Shipping Weight, lbs (kg)	20426 (9265)		22566 (10236)		24060 (10914)	
Weight-Add for Copper Fins, lbs (kg)	2968 (1346)		3256 (1477)		3553 (1612)	
Weight-Add for Louvered Panels, lbs (kg)	1236 (561)		1348 (611)		1460 (662)	
Weight-Add for PFCC option, lbs (kg)	160 (73)		160 (73)		160 (73)	
Compressors, Screw, Semi-Hermetic						
Nominal Capacity, tons (kW)	150 (528)	150 (528)	150 (528)	175 (615)	175 (615)	175 (615)
Minimum Capacity (% of Full Load)	15					
Oil charge per circuit , gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type						
Pumpdown Capacity, lbs (kg)	416 (189)	416 (189)	416 (189)	500 (227)	500 (227)	500 (227)
Coil Inlet Face Area, sq. ft. (sq. m.)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	295.3 (27.4)	295.3 (27.4)	295.3 (27.4)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type						
Number of Fans per Circuit	10	10	10	12	12	12
Fan Diameter	31.5 in. (800 mm)					
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	221700 (104630)		243870 (115093)		266040 (125556)	
Evaporator, Direct Expansion Shell and Tube						
Shell Dia.-Tube Length, in.(mm)	26 × 154 (660 × 3900)		26 × 154 (660 × 3900)		26 × 154 (660 × 3900)	
Water Volume, gallons (liters)	259 (979)		259 (979)		259 (979)	
Victaulic inlet/outlet conn. in. (mm)	10 (273)		10 (273)		10 (273)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)	

* Dimensions and weights are based on the largest control panel required. Confirm data for specific voltages in the sections for dimensional drawings and lifting and mounting weights.

Physical Data - Pathfinder® Standard Efficiency (VFD)

AWS 170C through 200C, Standard Efficiency, VFD models

Data	AWS170CDS VFD		AWS190CDS VFD		AWS200CDS VFD	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data						
Unit Cap. @ AHRI, tons (kW)	162.6 (572)		181.3 (637)		195.1 (686)	
Unit Operating Charge lbs (kg)	145 (66)	145 (66)	165 (75)	165 (75)	165 (75)	165 (75)
Unit Dimensions L × W × H, in. (mm)	254 × 88 × 100 (6444 × 2225 × 2548)		254 × 88 × 100 (6444 × 2225 × 2548)		254 × 88 × 100 (6444 × 2225 × 2548)	
Condensing Unit Operating Weight, lbs. (kg)	13660 (6196)		14944 (6779)		14971 (6791)	
Condensing Unit Shipping Weight, lbs (kg)	13117 (5950)		14401 (6532)		14438 (6544)	
Weight-Add for Copper Fins, lbs (kg)	1776 (806)		1776 (806)		1776 (806)	
Weight-Add for Louvered Panels, lbs (kg)	676 (307)		788 (357)		788 (357)	
Compressors, Screw, Semi-Hermetic						
Nominal Capacity, tons (kW)	95 (334)	95 (334)	95 (334)	115 (404)	115 (404)	115 (404)
Minimum Capacity (% of Full Load)	20		20		20	
Oil charge per circuit , gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)
Condensers, High Efficiency Fin and Tube Type						
Pumpdown Capacity, lbs (kg)	250 (113)	250 (113)	250 (113)	250 (113)	250 (113)	250 (113)
Coil Inlet Face Area, sq. ft. (sq. m.)	123.1 (11.4)	123.1 (11.4)	147.7 (13.7)	147.7 (13.7)	147.7 (13.7)	147.7 (13.7)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type						
Number of Fans per Circuit	5	5	6	6	6	6
Fan Diameter	31.5 in. (800 mm)					
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	110850 (52315)		133020 (62778)		133020 (62778)	
Evaporator, Direct Expansion Shell and Tube						
Shell Dia.-Tube Length, in.(mm)	16 × 108 (406 × 2750)		16 × 108 (406 × 2750)		16 × 108 (406 × 2750)	
Water Volume, gallons (liters)	68 (258)		68 (258)		66 (251)	
Victaulic inlet/outlet conn. in. (mm)	6 (168)		6 (168)		6 (168)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)	

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Physical Data - Pathfinder® Standard Efficiency (VFD)

AWS 210C through 300C, High Efficiency, VFD models

Data	AWS210CDH VFD		AWS230CDH VFD		AWS250CDH VFD		AWS280CDH VFD (460V)*		AWS300CDH VFD (460V)*	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data										
Unit Cap. @ AHRI, tons (kW)	205.2 (721)		224.8 (790)		240.0 (844)		270.6 (951)		287.7 (1012)	
Unit Operating Charge lbs (kg)	160 (73)	160 (73)	180 (82)	180 (82)	180 (82)	180 (82)	200 (91)	200 (91)	210 (95)	210 (95)
Unit Dimensions L × W × H, in. (mm)	254 x 88 x 100 (6444 x 2225 x 2548)		289 x 88 x 100 (7344 x 2225 x 2548)		289 x 88 x 100 (7344 x 2225 x 2548)		325 x 88 x 100 (8244 x 2225 x 2548)		325 x 88 x 100 (8244 x 2225 x 2548)	
Condensing Unit Operating Weight, lbs. (kg)	14130 (6409)		15403 (6987)		15953 (7236)		18608 (8841)		18608 (8441)	
Condensing Unit Shipping Weight, lbs (kg)	13587 (6163)		14860 (6740)		15410 (6990)		17739 (8046)		17739 (8046)	
Weight-Add for Copper Fins, lbs (kg)	1876 (851)		2084 (945)		2084 (945)		2372 (1076)		2372 (1076)	
Weight-Add for Louvered Panels, lbs (kg)	788 (357)		900 (408)		900 (408)		1012 (459)		1012 (459)	
Compressors, Screw, Semi-Hermetic										
Nominal Capacity, tons (kW)	105 (369)	105 (369)	105 (369)	125 (439)	125 (439)	125 (439)	125 (439)	150 (528)	150 (528)	150 (528)
Minimum Capacity (% of Full Load)	20		20		20		20		20	
Oil charge per circuit , gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)
Condensers, High Efficiency Fin and Tube Type										
Pumpdown Capacity, lbs (kg)	250 (113)	250 (113)	291 (132)	291 (132)	291 (132)	291 (132)	333 (151)	333 (151)	333 (151)	333 (151)
Coil Inlet Face Area, sq. ft. (sq. m.)	147.7 (13.7)	147.7 (13.7)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type										
Number of Fans per Circuit	6	6	7	7	7	7	8	8	8	8
Fan Diameter	31.5 in. (800 mm)									
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	133020 (62778)		155190 (73241)		155190 (73241)		177360 (83704)		177360 (83704)	
Evaporator, Direct Expansion Shell and Tube										
Shell Dia.-Tube Length, in.(mm)	16 x 108 (406 x 2750)		16 x 108 (406 x 2750)		16 x 108 (406 x 2750)		20 x 108 (508 x 2750)		20 x 108 (508 x 2750)	
Water Volume, gallons (liters)	66 (251)		64 (243)		64 (243)		107 (403)		107 (403)	
Victaulic inlet/outlet conn. in. (mm)	6 (168)		6 (168)		6 (168)		8 (219)		8 (219)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)		325 (2241)	

* Dimensions and weights are based on the largest control panel required. Confirm data for specific voltages in the sections for dimensional drawings and lifting and mounting weights.

AWS 330C through 410C, High Efficiency, VFD models

Data	AWS330CDH VFD		AWS350CDH VFD		AWS390CDH VFD		AWS410CDH VFD	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data								
Unit Cap. @ AHRI, tons (kW)	326.3 (1147)		347.1 (1220)		377.8 (1328)		408.7 (1437)	
Unit Operating Charge lbs (kg)	260 (118)	260 (118)	265 (120)	265 (120)	270 (122)	320 (145)	320 (145)	320 (145)
Unit Dimensions L × W × H, in. (mm)	410 × 88 × 100 (10404 × 2225 × 2545)		410 × 88 × 100 (10402 × 2225 × 2545)		461 × 88 × 100 (11701 × 2225 × 2548)		496 × 88 × 100 (12604 × 2225 × 2545)	
Condensing Unit Operating Weight, lbs. (kg)	19960 (9054)		21596 (9796)		22900 (10387)		23705 (10753)	
Condensing Unit Shipping Weight, lbs (kg)	19093 (8661)		20729 (9403)		22033 (9994)		22838 (10359)	
Weight-Add for Copper Fins, lbs (kg)	2968 (1346)		2968 (1346)		3256 (1477)		3553 (1612)	
Weight-Add for Louvered Panels, lbs (kg)	1236 (561)		1236 (561)		1348 (611)		1460 (662)	
Compressors, Screw, Semi-Hermetic								
Nominal Capacity, tons (kW)	150 (528)	175 (615)	175 (615)	175 (615)	175 (615)	205 (721)	205 (721)	205 (721)
Minimum Capacity (% of Full Load)	20		20		20		20	
Oil charge per circuit , gallons (liters)	5.5 (21)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type								
Pumpdown Capacity, lbs (kg)	416 (189)	416 (189)	416 (189)	416 (189)	416 (189)	500 (227)	500 (227)	500 (227)
Coil Inlet Face Area, sq. ft. (sq. m.)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	295.3 (27.4)	295.3 (27.4)	295.3 (27.4)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type								
Number of Fans per Circuit	10	10	10	10	10	12	12	12
Fan Diameter	31.5 in. (800 mm)							
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	221700 (104630)		221700 (104630)		243870 (115094)		266040 (125556)	
Evaporator, Direct Expansion Shell and Tube								
Shell Dia.-Tube Length, in.(mm)	20 × 108 (508 × 2750)		20 × 108 (508 × 2750)		20 × 108 (508 × 2750)		20 × 108 (508 × 2750)	
Water Volume, gallons (liters)	102 (386)		102 (386)		100 (377)		100 (377)	
Victaulic inlet/outlet conn. in. (mm)	8 (219)		8 (219)		8 (219)		8 (219)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)	

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Physical Data - Pathfinder® Standard Efficiency (VFD)

AWS 450C through 530C, High Efficiency, VFD models

Data	AWS450CTH VFD			AWS475CTH VFD			AWS500CTH VFD			AWS530CTH VFD		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
Basic Data												
Unit Cap. @ AHRI, tons (kW)	445.2 (1565)			467.7 (1644)			497.8 (1750)			524.8 (1845)		
Unit Operating Charge lbs (kg)	210 (95)	210 (95)	220 (100)	210 (95)	210 (95)	280 (187)	265 (120)	265 (120)	220 (100)	265 (120)	265 (120)	280 (187)
Unit Dimensions L × W × H, in. (mm)	532 × 88 × 100 (13504 × 2225 × 2548)			532 × 88 × 100 (13504 × 2225 × 2545)			567 × 88 × 100 (14405 × 2225 × 2548)			602 × 88 × 100 (15288 × 2225 × 2545)		
Condensing Unit Operating Weight, lbs. (kg)	28300 (12837)			28300 (12837)			30117 (13661)			31446 (14264)		
Condensing Unit Shipping Weight, lbs (kg)	26901 (12202)			26901 (12202)			28718 (13026)			30047 (13629)		
Weight-Add for Copper Fins, lbs (kg)	3553 (1612)			3870 (1755)			4168 (1891)			4466 (2026)		
Weight-Add for Louvered Panels, lbs (kg)	1460 (662)			1572 (713)			1684 (764)			1796 (815)		
Compressors, Screw, Semi-Hermetic												
Nominal Capacity, tons (kW)	150 (528)	150 (528)	150 (528)	150 (528)	150 (528)	175 (615)	175 (615)	175 (615)	150 (528)	175 (615)	175 (615)	175 (615)
Minimum Capacity (% of Full Load)	13			13			13			13		
Oil charge per circuit , gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)	6 (23)	6 (23)	5.5 (21)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type												
Pumpdown Capacity, lbs (kg)	333 (151)	333 (151)	333 (151)	333 (151)	333 (151)	416 (189)	416 (189)	416 (189)	333 (151)	416 (189)	416 (189)	416 (189)
Coil Inlet Face Area, sq. ft. (sq. m.)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	196.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type												
Number of Fans per Circuit	8	8	8	8	8	10	10	10	8	10	10	10
Fan Diameter	31.5 in. (800 mm)											
Fan Motor, hp (kW)	1.4 (1.05)			1.4 (1.05)			1.4 (1.05)			1.4 (1.05)		
Fan & Motor RPM	850			850			850			850		
Fan Tip Speed, FPM (m/s)	6984 (35)			6984 (35)			6984 (35)			6984 (35)		
Airflow, CFM (l/s)	266040 (125556)			288210 (136019)			310380 (146482)			332550 (156945)		
Evaporator, Direct Expansion Shell and Tube												
Shell Dia.-Tube Length, in.(mm)	26 × 130 (660 × 3300)			26 × 130 (660 × 3300)			26 × 130 (660 × 3300)			26 × 130 (660 × 3300)		
Water Volume, gallons (liters)	225 (850)			220 (831)			220 (831)			220 (831)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)			10 (273)			10 (273)		
Max. Water Pressure, psi (kPA)	152 (1048)			152 (1048)			152 (1048)			152 (1048)		
Max. Refrigerant Press., psi (kPA)	325 (2241)			325 (2241)			325 (2241)			325 (2241)		

Physical Data - Pathfinder® Premium Efficiency (VFD)

AWS 240C through 310C, Premium Efficiency, VFD models

Data	AWS240CDP VFD		AWS265CDP VFD		AWS290CDP VFD		AWS310CDP VFD (460V)*	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data								
Unit Cap. @ AHRI, tons (kW)	232.7 (818)		256.3 (901)		277.6 (976)		303.8 (1068)	
Unit Operating Charge lbs (kg)	200 (91)	200 (91)	225 (102)	225 (102)	(235) (107)	(235) (107)	250 (113)	250 (113)
Unit Dimensions L × W × H, in. (mm)	325 × 88 × 100 (8244 × 2225 × 2548)		360 × 88 × 100 (9144 × 2225 × 2545)		360 × 88 × 100 (9144 × 2225 × 2545)		396 × 88 × 100 (10044 × 2225 × 2545)	
Condensing Unit Operating Weight, lbs. (kg)	17427 (7905)		18676 (8471)		18676 (8471)		22485 (10199)	
Condensing Unit Shipping Weight, lbs (kg)	16175 (7337)		17424 (7904)		17424 (7904)		20832 (9449)	
Weight-Add for Copper Fins, lbs (kg)	2372 (1076)		2679 (1215)		2679 (1215)		2968 (1346)	
Weight-Add for Louvered Panels, lbs (kg)	1012 (459)		1124 (510)		1124 (510)		1236 (561)	
Compressors, Screw, Semi-Hermetic								
Nominal Capacity, tons (kW)	105 (369)	105 (369)	105 (369)	125 (439)	125 (439)	125 (439)	125 (439)	150 (528)
Minimum Capacity (% of Full Load)	20		20		20		20	
Oil charge per circuit , gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)
Condensers, High Efficiency Fin and Tube Type								
Pumpdown Capacity, lbs (kg)	333 (151)	333 (151)	375 (170)	375 (170)	375 (170)	375 (170)	416 (189)	416 (189)
Coil Inlet Face Area, sq. ft. (sq. m.)	196.9 (18.3)	196.9 (18.3)	221.5 (20.6)	221.5 (20.6)	221.5 (20.6)	221.5 (20.6)	246.1 (22.8)	246.1 (22.8)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type								
Number of Fans per Circuit	8	8	9	9	9	9	10	10
Fan Diameter	31.5 in. (800 mm)							
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	177360 (83704)		199530 (94167)		199530 (94167)		221700 (104630)	
Evaporator, Direct Expansion Shell and Tube								
Shell Dia.-Tube Length, in.(mm)	20 × 154 (508 × 3900)		20 × 154 (508 × 3900)		26 × 154 (660 × 3900)		26 × 154 (660 × 3900)	
Water Volume, gallons (liters)	158 (599)		158 (599)		276 (1043)		276 (1043)	
Victaulic inlet/outlet conn. in. (mm)	8 (219)		8 (219)		10 (273)		10 (273)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)	

* Dimensions and weights are based on the largest control panel required. Confirm data for specific voltages in the sections for dimensional drawings and lifting and mounting weights.

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Physical Data - Pathfinder® Premium Efficiency (VFD)

AWS 330C through 400C, Premium Efficiency, VFD models

Data	AWS330CDP VFD (460V)*		AWS365CDP VFD		AWS400CDP VFD	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data						
Unit Cap. @ AHRI, tons (kW)	324.7 (1142)		354.8 (1247)		385.4 (1355)	
Unit Operating Charge lbs (kg)	260 (118)	260 (118)	260 (118)	300 (136)	310 (141)	310 (141)
Unit Dimensions L × W × H, in. (mm)	461 × 88 × 100 (11701 × 2225 × 2545)		461 × 88 × 100 (11701 × 2225 × 2548)		496 × 88 × 100 (12604 × 2225 × 2545)	
Condensing Unit Operating Weight, lbs. (kg)	24441 (11086)		24441 (11086)		25881 (11740)	
Condensing Unit Shipping Weight, lbs (kg)	22788 (10337)		22788 (10337)		24228 (10990)	
Weight-Add for Copper Fins, lbs (kg)	2968 (1346)		3256 (1477)		3553 (1612)	
Weight-Add for Louvered Panels, lbs (kg)	1236 (561)		1348 (611)		1460 (662)	
Compressors, Screw, Semi-Hermetic						
Nominal Capacity, tons (kW)	150 (528)	150 (528)	150 (528)	175 (615)	175 (615)	175 (615)
Minimum Capacity (% of Full Load)	20		20		20	
Oil charge per circuit , gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type						
Pumpdown Capacity, lbs (kg)	416 (189)	416 (189)	416 (189)	500 (227)	500 (227)	500 (227)
Coil Inlet Face Area, sq. ft. (sq. m.)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	295.3 (27.4)	295.3 (27.4)	295.3 (27.4)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type						
Number of Fans per Circuit	10	10	10	12	12	12
Fan Diameter	31.5 in. (800 mm)					
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	221700 (104630)		243870 (115093)		266040 (125556)	
Evaporator, Direct Expansion Shell and Tube						
Shell Dia.-Tube Length, in.(mm)	26 × 154 / (660 × 3900)		26 × 154 / (660 × 3900)		26 × 154 / (660 × 3900)	
Water Volume, gallons (liters)	259 (979)		259 (979)		259 (979)	
Victaulic inlet/outlet conn. in. (mm)	10 (273)		10 (273)		10 (273)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)	

* Dimensions and weights are based on the largest control panel required. Confirm data for specific voltages in the sections for dimensional drawings and lifting and mounting weights.

Physical Data - Pathfinder® Standard Efficiency (Non-VFD)

AWS 190C through 260C, Standard Efficiency, non-VFD models

Data	AWS190CDS Remote Evap		AWS210CDS Remote Evap		AWS225CDS Remote Evap		AWS250CDS Remote Evap		AWS260CDS Remote Evap	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data										
Unit Cap. @ AHRI, tons (kW)	180.1 (633)		201.3 (708)		216.3 (760)		235.8 (829)		250.5 (881)	
Unit Operating Charge lbs (kg)	145 (66)	145 (66)	165 (75)	165 (75)	165 (75)	165 (75)	185 (84)	185 (84)	185 (84)	185 (84)
Unit Dimensions L × W × H, in. (mm)	246 × 88 × 100 (6248 × 2225 × 2548)		246 × 88 × 100 (6248 × 2225 × 2548)		246 × 88 × 100 (6248 × 2225 × 2548)		281 × 88 × 100 (7137 × 2225 × 2548)		281 × 88 × 100 (7137 × 2225 × 2548)	
Condensing Unit Operating Weight, lbs. (kg)	11515 (5223)		12244 (5554)		12746 (5782)		13666 (6199)		13666 (6199)	
Condensing Unit Shipping Weight, lbs (kg)	11515 (5223)		12244 (5554)		12746 (5782)		13666 (6199)		13666 (6199)	
Weight-Add for Copper Fins, lbs (kg)	1786 (810)		1786 (810)		1786 (810)		2084 (945)		2084 (945)	
Weight-Add for Louvered Panels, lbs (kg)	676 (307)		788 (357)		788 (357)		900 (408)		900 (408)	
Weight-Add for PFCC option, lbs (kg)	160 (73)		160 (73)		160 (73)		160 (73)		160 (73)	
Compressors, Screw, Semi-Hermetic										
Nominal Capacity, tons (kW)	95 (334)	95 (334)	95 (334)	115 (404)	115 (404)	115 (404)	115 (404)	135 (475)	135 (475)	135 (475)
Minimum Capacity (% of Full Load)	15		15		15		15		15	
Oil charge per circuit , gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)
Condensers, High Efficiency Fin and Tube Type										
Pumpdown Capacity, lbs (kg)	208 (94)	208 (94)	250 (113)	250 (113)	250 (113)	250 (113)	291 (132)	291 (132)	291 (132)	291 (132)
Coil Inlet Face Area, sq. ft. (sq. m.)	123.1 (11.4)	123.1 (11.4)	147.7 (13.7)	147.7 (13.7)	147.7 (13.7)	147.7 (13.7)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type										
Number of Fans per Circuit	5	5	6	6	6	6	7	7	7	7
Fan Diameter	31.5 in. (800 mm)									
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	110850 (52315)		133020 (62778)		133020 (62778)		155190 (73241)		155190 (73241)	
Remote Evaporator, Direct Expansion Shell and Tube										
Shell Dia.-Tube Length, in.(mm)	16 × 406 (406 × 2750)		16 × 108 (406 × 2750)		16 × 108 (406 × 2750)		16 × 108 (406 × 2750)		16 × 108 (406 × 2750)	
Water Volume, gallons (liters)	68 (258)		66 (251)		66 (251)		64 (243)		64 (243)	
Victaulic inlet/outlet conn. in. (mm)	6 (168)		6 (168)		6 (168)		6 (168)		6 (168)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)		325 (2241)	

Note: Dimensions and Weights are based on the largest Switch Box required. Condensing unit Operating and Shipping Weights are the same.

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Physical Data - Pathfinder® Standard Efficiency (Non-VFD)

AWS 290C through 375C, Standard Efficiency, non-VFD models

Data	AWS290CDS Remote Evap		AWS310CDS Remote Evap		AWS350CDS Remote Evap		AWS375CDS Remote Evap	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data								
Unit Cap. @ AHRI, tons (kW)	282.9 (995)		300.4 (1056)		340.6 (1197)		361.4 (1271)	
Unit Operating Charge lbs (kg)	210 (95)	210 (95)	215 (98)	215 (98)	265 (120)	265 (120)	265 (120)	265 (120)
Unit Dimensions L × W × H, in. (mm)	317 × 88 × 100 (8052 × 2225 × 2548)		317 × 88 × 100 (8052 × 2225 × 2548)		387 × 88 × 100 (9823 × 2225 × 2548)		387 × 88 × 100 (9823 × 2225 × 2548)	
Condensing Unit Operating Weight, lbs. (kg)	15158 (6876)		15854 (7191)		17550 (7961)		17550 (7961)	
Condensing Unit Shipping Weight, lbs (kg)	15158 (6876)		15854 (7191)		17550 (7961)		17550 (7961)	
Weight-Add for Copper Fins, lbs (kg)	2372 (1076)		2372 (1076)		2968 (1346)		2968 (1346)	
Weight-Add for Louvered Panels, lbs (kg)	1012 (459)		1012 (459)		1236 (561)		1236 (561)	
Weight-Add for PFCC option, lbs (kg)	160 (73)		160 (73)		160 (73)		160 (73)	
Compressors, Screw, Semi-Hermetic								
Nominal Capacity, tons (kW)	135 (475)	155 (545)	155 (545)	155 (545)	155 (545)	185 (650)	185 (650)	185 (650)
Minimum Capacity (% of Full Load)	15		15		15		15	
Oil charge per circuit , gallons (liters)	5.5 (21)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type								
Pumpdown Capacity, lbs (kg)	333 (151)	333 (151)	333 (151)	333 (151)	416 (189)	416 (189)	416 (189)	416 (189)
Coil Inlet Face Area, sq. ft. (sq. m.)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type								
Number of Fans per Circuit	8	8	8	8	10	10	10	10
Fan Diameter	31.5 in. (800 mm)							
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	177360 (83704)		177360 (83704)		221700 (104630)		221700 (104630)	
Remote Evaporator, Direct Expansion Shell and Tube								
Shell Dia.-Tube Length, in.(mm)	20 × 108 (508 × 2750)		20 × 108 (508 × 2750)		20 × 108 (508 × 2750)		20 × 108 (508 × 2750)	
Water Volume, gallons (liters)	107 (403)		107 (403)		102 (386)		102 (386)	
Victaulic inlet/outlet conn. in. (mm)	8 (219)		8 (219)		8 (219)		8 (219)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)	

Note: Dimensions and Weights are based on the largest Switch Box required. Condensing unit Operating and Shipping Weights are the same.

AWS 400C through 450C, Standard Efficiency, non-VFD models

Data	AWS400CTS Remote Evap			AWS425CTS Remote Evap			AWS450CTS Remote Evap		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
Basic Data									
Unit Cap. @ AHRI, tons (kW)	398.3 (1400)			418.7 (1472)			441.4 (1552)		
Unit Operating Charge lbs (kg)	185 (84)	185 (84)	220 (100)	185 (84)	185 (84)	220 (100)	210 (95)	210 (95)	220 (100)
Unit Dimensions L × W × H, in. (mm)	438 × 88 × 100 (11123 × 2225 × 2548)			438 × 88 × 100 (11123 × 2225 × 2548)			474 × 88 × 100 (12040 × 2225 × 2548)		
Condensing Unit Operating Weight, lbs. (kg)	20379 (9244)			21044 (9545)			22357 (10141)		
Condensing Unit Shipping Weight, lbs (kg)	20379 (9244)			21044 (9545)			22357 (10141)		
Weight-Add for Copper Fins, lbs (kg)	3256 (1477)			3256 (1477)			3553 (1612)		
Weight-Add for Louvered Panels, lbs (kg)	1348 (611)			1348 (611)			1460 (662)		
Weight-Add for PFCC option, lbs (kg)	120 (55)			120 (55)			120 (55)		
Compressors, Screw, Semi-Hermetic									
Nominal Capacity, tons (kW)	135 (475)	135 (475)	135 (475)	135 (475)	135 (475)	155 (545)	135 (475)	155 (545)	155 (545)
Minimum Capacity (% of Full Load)	8			8			8		
Oil charge per circuit , gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)	5.5 (21)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type									
Pumpdown Capacity, lbs (kg)	291 (132)	291 (132)	333 (151)	291 (132)	291 (132)	333 (151)	333 (151)	333 (151)	333 (151)
Coil Inlet Face Area, sq. ft. (sq. m.)	172.3 (16.0)	172.3 (16.0)	196.9 (18.3)	172.3 (16.0)	172.3 (16.0)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type									
Number of Fans per Circuit	7	7	8	7	7	8	8	8	8
Fan Diameter	31.5 in. (800 mm)								
Fan Motor, hp (kW)	1.4 (1.05)			1.4 (1.05)			1.4 (1.05)		
Fan & Motor RPM	850			850			850		
Fan Tip Speed, FPM (m/s)	6984 (35)			6984 (35)			6984 (35)		
Airflow, CFM (l/s)	266040 (125556)			243870 (115094)			266040 (125556)		
Remote Evaporator, Direct Expansion Shell and Tube									
Shell Dia.-Tube Length, in.(mm)	26 × 130 (660 × 3300)			26 × 130 (660 × 3300)			26 × 130 (660 × 3300)		
Water Volume, gallons (liters)	225 (850)			225 (850)			225 (850)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)			10 (273)		
Max. Water Pressure, psi (kPA)	152 (1048)			152 (1048)			152 (1048)		
Max. Refrigerant Press., psi (kPA)	325 (2241)			325 (2241)			325 (2241)		

Note: Condensing unit Operating and Shipping Weights are the same.

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Physical Data - Pathfinder® Standard Efficiency (Non-VFD)

AWS 470C through 550C, Standard Efficiency, non-VFD models

Data	AWS470CTS Remote Evap			AWS500CTS Remote Evap			AWS525CTS Remote Evap			AWS550CTS Remote Evap		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
Basic Data												
Unit Cap. @ AHRI, tons (kW)	459.2 (1615)			488.3 (1717)			517.7 (1820)			547.3 (1924)		
Unit Operating Charge lbs (kg)	210 (95)	210 (95)	220 (100)	210 (95)	210 (95)	280 (127)	265 (120)	265 (120)	220 (100)	270 (122)	270 (122)	280 (127)
Unit Dimensions L × W × H, in. (mm)	474 × 88 × 100 (12040 × 2225 × 2548)			509 × 88 × 100 (12921 × 2225 × 2548)			545 × 88 × 100 (13843 × 2225 × 2548)			580 × 88 × 100 (14722 × 2225 × 2548)		
Condensing Unit Operating Weight, lbs. (kg)	23051 (10456)			23835 (10811)			25064 (11369)			25875 (11737)		
Condensing Unit Shipping Weight, lbs (kg)	23051 (10456)			23835 (10811)			25064 (11369)			25875 (11737)		
Weight-Add for Copper Fins, lbs (kg)	3553 (1612)			3870 (1755)			4168 (1891)			4466 (2026)		
Weight-Add for Louvered Panels, lbs (kg)	1460 (662)			1572 (713)			1684 (764)			1796 (815)		
Weight-Add for PFCC option, lbs (kg)	120 (55)			120 (55)			120 (55)			120 (55)		
Compressors, Screw, Semi-Hermetic												
Nominal Capacity, tons (kW)	155 (545)	155 (545)	155 (545)	155 (545)	155 (545)	185 (650)	185 (650)	185 (650)	155 (545)	185 (650)	185 (650)	185 (650)
Minimum Capacity (% of Full Load)	8			8			8			8		
Oil charge per circuit , gallons (liters)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type												
Pumpdown Capacity, lbs (kg)	333 (151)	333 (151)	333 (151)	333 (151)	333 (151)	416 (189)	416 (189)	416 (189)	333 (151)	416 (189)	416 (189)	416 (189)
Coil Inlet Face Area, sq. ft. (sq. m.)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	196.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type												
Number of Fans per Circuit	8	8	8	8	8	10	10	10	8	10	10	10
Fan Diameter	31.5 in. (800 mm)											
Fan Motor, hp (kW)	1.4 (1.05)			1.4 (1.05)			1.4 (1.05)			1.4 (1.05)		
Fan & Motor RPM	850			850			850			850		
Fan Tip Speed, FPM (m/s)	6984 (35)			6984 (35)			6984 (35)			6984 (35)		
Airflow, CFM (l/s)	266040 (125556)			288210 (136019)			310380 (146482)			332550 (156945)		
Remote Evaporator, Direct Expansion Shell and Tube												
Shell Dia.-Tube Length, in.(mm)	26 × 130 (660 × 3300)			26 × 130 (660 × 3300)			26 × 130 (660 × 3300)			26 × 130 (660 × 3300)		
Water Volume, gallons (liters)	220 (831)			220 (831)			220 (831)			220 (831)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)			10 (273)			10 (273)		
Max. Water Pressure, psi (kPA)	152 (1048)			152 (1048)			152 (1048)			152 (1048)		
Max. Refrigerant Press., psi (kPA)	325 (2241)			325 (2241)			325 (2241)			325 (2241)		

Note: Condensing unit Operating and Shipping Weights are the same.

Physical Data - Pathfinder® High Efficiency (Non-VFD)

AWS 210C through 300C, High Efficiency, non-VFD models

Data	AWS210CDH Remote Evap		AWS230CDH Remote Evap		AWS250CDH Remote Evap		AWS280CDH Remote Evap *		AWS300CDH Remote Evap *	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data										
Unit Cap. @ AHRI, tons (kW)	205.7 (723)		225.2 (792)		240.6 (846)		271.9 (956)		288.7 (1015)	
Unit Operating Charge lbs (kg)	160 (73)	160 (73)	180 (82)	180 (82)	180 (82)	180 (82)	200 (91)	200 (91)	210 (95)	210 (95)
Unit Dimensions L × W × H, in. (mm)	246 × 88 × 100 (6248 × 2225 × 2548)		281 × 88 × 100 (7137 × 2225 × 2548)		281 × 88 × 100 (7137 × 2225 × 2548)		317 × 88 × 100 (8052 × 2225 × 2548)		317 × 88 × 100 (8052 × 2225 × 2548)	
Condensing Unit Operating Weight, lbs. (kg)	12229 (5547)		13754 (6239)		14417 (6540)		15230 (6908)		15230 (6908)	
Condensing Unit Shipping Weight, lbs (kg)	12229 (5547)		13754 (6239)		14417 (6540)		15230 (6908)		15230 (6908)	
Weight-Add for Copper Fins, lbs (kg)	1876 (851)		2084 (945)		2084 (945)		2372 (1076)		2372 (1076)	
Weight-Add for Louvered Panels, lbs (kg)	788 (357)		900 (408)		900 (408)		1012 (459)		1012 (459)	
Weight-Add for PFCC option, lbs (kg)	160 (73)		160 (73)		160 (73)		160 (73)		160 (73)	
Compressors, Screw, Semi-Hermetic										
Nominal Capacity, tons (kW)	105 (369)	105 (369)	105 (369)	125 (439)	125 (439)	125 (439)	125 (439)	150 (528)	150 (528)	150 (528)
Minimum Capacity (% of Full Load)	15		15		15		15		15	
Oil charge per circuit , gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)
Condensers, High Efficiency Fin and Tube Type										
Pumpdown Capacity, lbs (kg)	250 (113)	250 (113)	291 (132)	291 (132)	291 (132)	291 (132)	333 (151)	333 (151)	333 (151)	333 (151)
Coil Inlet Face Area, sq. ft. (sq. m.)	147.7 (13.7)	147.7 (13.7)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type										
Number of Fans per Circuit	6	6	7	7	7	7	8	8	8	8
Fan Diameter	31.5 in. (800 mm)									
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	133020 (62778)		155190 (73241)		155190 (73241)		177360 (83704)		177360 (83704)	
Remote Evaporator, Direct Expansion Shell and Tube										
Shell Dia.-Tube Length, in.(mm)	16 × 108 (406 × 2750)		16 × 108 (406 × 2750)		16 × 108 (406 × 2750)		20 × 108 (508 × 2750)		20 × 108 (508 × 2750)	
Water Volume, gallons (liters)	66 (251)		64 (243)		64 (243)		107 (403)		107 (403)	
Victaulic inlet/outlet conn. in. (mm)	6 (168)		6 (168)		6 (168)		8 (219)		8 (219)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)		325 (2241)	

Note: Condensing unit Operating and Shipping Weights are the same.
* Dimensions and weights are based on the largest control panel required. Confirm data for specific voltages in the sections for dimensional drawings and lifting and mounting weights.

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Physical Data - Pathfinder® High Efficiency (Non-VFD)

AWS 330C through 410C, High Efficiency, non-VFD models

Data	AWS330CDH Remote Evap		AWS350CDH Remote Evap		AWS390CDH Remote Evap		AWS410CDH Remote Evap	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data								
Unit Cap. @ AHRI, tons (kW)	288.7 (1015)		327.3 (1151)		378.7 (1332)		409.8 (1441)	
Unit Operating Charge lbs (kg)	260 (118)	260 (118)	265 (120)	265 (120)	270 (129)	320 (145)	320 (145)	320 (145)
Unit Dimensions L × W × H, in. (mm)	317 × 88 × 100 (8052 × 2225 × 2548)		387 × 88 × 100 (9823 × 2225 × 2548)		439 × 88 × 100 (11151 × 2225 × 2548)		474 × 88 × 101 (12040 × 2225 × 2548)	
Condensing Unit Operating Weight, lbs. (kg)	17576 (7972)		18282 (8293)		19750 (8959)		20581 (9335)	
Condensing Unit Shipping Weight, lbs (kg)	17576 (7972)		18282 (8293)		19750 (8959)		20581 (9335)	
Weight-Add for Copper Fins, lbs (kg)	2372 (1076)		2968 (1346)		3256 (1477)		3553 (1612)	
Weight-Add for Louvered Panels, lbs (kg)	1012 (459)		1236 (561)		1348 (611)		1460 (662)	
Weight-Add for PFCC option, lbs (kg)	160 (73)		160 (73)		160 (73)		160 (73)	
Compressors, Screw, Semi-Hermetic								
Nominal Capacity, tons (kW)	150 (528)	175 (615)	175 (615)	175 (615)	175 (615)	205 (721)	205 (721)	205 (721)
Minimum Capacity (% of Full Load)	15		15		15		15	
Oil charge per circuit , gallons (liters)	5.5 (21)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type								
Pumpdown Capacity, lbs (kg)	416 (189)	416 (189)	416 (189)	416 (189)	416 (189)	500 (227)	500 (227)	500 (227)
Coil Inlet Face Area, sq. ft. (sq. m.)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	295.3 (27.4)	295.3 (27.4)	295.3 (27.4)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type								
Number of Fans per Circuit	10	10	10	10	10	12	12	12
Fan Diameter	31.5 in. (800 mm)							
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	221700 (104630)		221700 (104630)		243870 (115094)		266040 (125556)	
Remote Evaporator, Direct Expansion Shell and Tube								
Shell Dia.-Tube Length, in.(mm)	20 × 108 (508 × 2750)		20 × 108 (508 × 2750)		20 × 108 (508 × 2750)		20 × 108 (508 × 2750)	
Water Volume, gallons (liters)	102 (386)		102 (386)		100 (377)		100 (377)	
Victaulic inlet/outlet conn. in. (mm)	8 (219)		8 (219)		8 (219)		8 (219)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)	

Note: Dimensions and Weights are based on the largest Switch Box required. Condensing unit Operating and Shipping Weights are the same.

AWS 450C through AWS 530C, High Efficiency, non-VFD models

Data	AWS450CTH Remote Evap			AWS475CTH Remote Evap			AWS500CTH Remote Evap			AWS530CTH Remote Evap		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
Basic Data												
Unit Cap. @ AHRI, tons (kW)	446.3 (1569)			470.3 1654)			499.4 (1756)			528.3 (1857)		
Unit Operating Charge lbs (kg)	210 (95)	210 (95)	220 (100)	210 (95)	210 (95)	280 (127)	265 (120)	265 (120)	220 (100)	265 (120)	265 (120)	280 (127)
Unit Dimensions L × W × H, in. (mm)	474 × 88 × 100 (12040 × 2225 × 2548)			509 × 88 × 100 (12921 × 2225 × 2548)			545 × 88 × 100 (13843 × 2225 × 2548)			580 × 88 × 100 (14722 × 2225 × 2548)		
Condensing Unit Operating Weight, lbs. (kg)	22135 (10040)			23608 (10709)			25528 (11579)			26997 (12248)		
Condensing Unit Shipping Weight, lbs (kg)	22135 (10040)			23608 (10709)			25528 (11579)			26997 (12248)		
Weight-Add for Copper Fins, lbs (kg)	3553 (1612)			3870 (1755)			4168 (1891)			4466 (2026)		
Weight-Add for Louvered Panels, lbs (kg)	1460 (662)			1572 (713)			1684 (764)			1796 (815)		
Weight-Add for PFCC option, lbs (kg)	120 (55)			120 (55)			120 (55)			120 (55)		
Compressors, Screw, Semi-Hermetic												
Nominal Capacity, tons (kW)	150 (528)	150 (528)	150 (528)	150 (528)	150 (528)	175 (615)	175 (615)	175 (615)	150 (528)	175 (615)	175 (615)	175 (615)
Minimum Capacity (% of Full Load)	8			8			8			8		
Oil charge per circuit , gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)	6 (23)	6 (23)	5.5 (21)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type												
Pumpdown Capacity, lbs (kg)	333 (151)	333 (151)	333 (151)	333 (151)	333 (151)	416 (189)	416 (189)	416 (189)	333 (151)	416 (189)	416 (189)	416 (189)
Coil Inlet Face Area, sq. ft. (sq. m.)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	196.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type												
Number of Fans per Circuit	8	8	8	8	8	10	10	10	8	10	10	10
Fan Diameter	31.5 in. (800 mm)											
Fan Motor, hp (kW)	1.4 (1.05)			1.4 (1.05)			1.4 (1.05)			1.4 (1.05)		
Fan & Motor RPM	850			850			850			850		
Fan Tip Speed, FPM (m/s)	6984 (35)			6984 (35)			6984 (35)			6984 (35)		
Airflow, CFM (l/s)	266040 (125556)			288210 (136019)			310380 (146482)			332550 (156945)		
Remote Evaporator, Direct Expansion Shell and Tube												
Shell Dia.-Tube Length, in.(mm)	26 × 130 (660 × 3300)			26 × 130 (660 × 3300)			26 × 130 (660 × 3300)			26 × 130 (660 × 3300)		
Water Volume, gallons (liters)	225 (850)			220 (831)			220 (831)			220 (831)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)			10 (273)			10 (273)		
Max. Water Pressure, psi (kPA)	152 (1048)			152 (1048)			152 (1048)			152 (1048)		
Max. Refrigerant Press., psi (kPA)	325 (2241)			325 (2241)			325 (2241)			325 (2241)		

Note: Dimensions and Weights are based on the largest Switch Box required. Condensing unit Operating and Shipping Weights are the same.

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Physical Data - Pathfinder® Premium Efficiency (Non-VFD)

AWS 240C through 310C, Premium Efficiency, non-VFD models

Data	AWS240CDP Remote Evap		AWS265CDP Remote Evap		AWS290CDP Remote Evap		AWS310CDP Remote Evap *	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data								
Unit Cap. @ AHRI, tons (kW)	232.8 (818)		256.4 (901)		277.5 (976)		303.9 (1068)	
Unit Operating Charge lbs (kg)	200 (91)	200 (91)	225 (102)	225 (102)	235 (107)	235 (107)	250 (113)	250 (113)
Unit Dimensions L × W × H, in. (mm)	317 × 88 × 100 (8052 × 2225 × 2548)		352 × 88 × 100 (8941 × 2225 × 2548)		352 × 88 × 100 (8941 × 2225 × 2548)		387 × 88 × 100 (9823 × 2225 × 2545)	
Condensing Unit Operating Weight, lbs. (kg)	14142 (6415)		15558 (7057)		16075 (7292)		16970 (7698)	
Condensing Unit Shipping Weight, lbs (kg)	14142 (6415)		15558 (7057)		16075 (7292)		16970 (7698)	
Weight-Add for Copper Fins, lbs (kg)	2372 (1076)		2679 (1215)		2679 (1215)		2968 (1346)	
Weight-Add for Louvered Panels, lbs (kg)	1012 (459)		1124 (510)		1124 (510)		1236 (561)	
Weight-Add for PFCC option, lbs (kg)	160 (73)		160 (73)		160 (73)		160 (73)	
Compressors, Screw, Semi-Hermetic								
Nominal Capacity, tons (kW)	105 (369)	105 (369)	105 (369)	125 (439)	125 (439)	125 (439)	125 (439)	150 (528)
Minimum Capacity (% of Full Load)	15		15		15		15	
Oil charge per circuit , gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)
Condensers, High Efficiency Fin and Tube Type								
Pumpdown Capacity, lbs (kg)	333 (151)	333 (151)	375 (170)	375 (170)	375 (170)	375 (170)	416 (189)	416 (189)
Coil Inlet Face Area, sq. ft. (sq. m.)	196.9 (18.3)	196.9 (18.3)	221.5 (20.6)	221.5 (20.6)	221.5 (20.6)	221.5 (20.6)	246.1 (22.8)	246.1 (22.8)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct- drive Propeller Type								
Number of Fans per Circuit	8	8	9	9	9	9	10	10
Fan Diameter	31.5 in. (800 mm)							
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	177360 (83704)		199530 (94167)		199530 (94167)		221700 (104630)	
Remote Evaporator, Direct Expansion Shell and Tube								
Shell Dia.-Tube Length, in.(mm)	20 × 154 (508 × 3900)		20 × 154 (508 × 3900)		26 × 154 (660 × 3900)		26 × 154 (660 × 3900)	
Water Volume, gallons (liters)	158 (599)		158 (599)		276 (1043)		276 (1043)	
Victaulic inlet/outlet conn. in. (mm)	8 (219)		8 (219)		10 (273)		10 (273)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)	

Note: Condensing unit Operating and Shipping Weights are the same.
* Dimensions and weights are based on the largest control panel required. Confirm data for specific voltages in the sections for dimensional drawings and lifting and mounting weights.

AWS 330C through 400C, Premium Efficiency, non-VFD models

Data	AWS330CDP Remote Evap *		AWS365CDP Remote Evap		AWS400CDP Remote Evap	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data						
Unit Cap. @ AHRI, tons (kW)	324.9 (1142)		355 (1248)		385.4 (1355)	
Unit Operating Charge lbs (kg)	260 (118)	260 (118)	260 (118)	300 (136)	310 (141)	310 (141)
Unit Dimensions L × W × H, in. (mm)	387 × 88 × 100 (9823 × 2225 × 2545)		439 × 88 × 100 (11151 × 2225 × 2548)		474 × 88 × 100 (12040 × 2225 × 2548)	
Condensing Unit Operating Weight, lbs. (kg)	16970 (7698)		19102 (8665)		20581 (9335)	
Condensing Unit Shipping Weight, lbs (kg)	16970 (7698)		19102 (8665)		20581 (9335)	
Weight-Add for Copper Fins, lbs (kg)	2968 (1346)		3256 (1477)		3553 (1612)	
Weight-Add for Louvered Panels, lbs (kg)	1236 (561)		1348 (611)		1460 (662)	
Weight-Add for PFCC option, lbs (kg)	160 (73)		160 (73)		160 (73)	
Compressors, Screw, Semi-Hermetic						
Nominal Capacity, tons (kW)	150 (528)	150 (528)	150 (528)	175 (615)	175 (615)	175 (615)
Minimum Capacity (% of Full Load)	15		15		15	
Oil charge per circuit , gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type						
Pumpdown Capacity, lbs (kg)	416 (189)	416 (189)	416 (189)	500 (227)	500 (227)	500 (227)
Coil Inlet Face Area, sq. ft. (sq. m.)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	295.3 (27.4)	295.3 (27.4)	295.3 (27.4)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type						
Number of Fans per Circuit	10	10	10	12	12	12
Fan Diameter	31.5 in. (800 mm)					
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	221700 (104630)		243870 (115093)		266040 (125556)	
Remote Evaporator, Direct Expansion Shell and Tube						
Shell Dia.-Tube Length, in.(mm)	26 × 154 (660 × 3900)		26 × 154 (660 × 3900)		26 × 154 (660 × 3900)	
Water Volume, gallons (liters)	259 (979)		259 (979)		259 (979)	
Victaulic inlet/outlet conn. in. (mm)	10 (273)		10 (273)		10 (273)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)	

Note: Condensing unit Operating and Shipping Weights are the same.
* Dimensions and weights are based on the largest control panel required. Confirm data for specific voltages in the sections for dimensional drawings and lifting and mounting weights.

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Physical Data - Pathfinder® Standard Efficiency (VFD)

AWS 170C through 200C, Standard Efficiency, VFD models

Data	AWS170CDS VFD Remote Evap		AWS190CDS VFD Remote Evap		AWS200CDS VFD Remote Evap	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data						
Unit Cap. @ AHRI, tons (kW)	162.6 (572)		181.3 (637)		195.1 (686)	
Unit Operating Charge lbs (kg)	145 (66)	145 (66)	165 (75)	165 (75)	165 (75)	165 (75)
Unit Dimensions L × W × H, in. (mm)	254 × 88 × 100 (6444 × 2225 × 2548)		254 × 88 × 100 (6444 × 2225 × 2548)		254 × 88 × 100 (6444 × 2225 × 2548)	
Condensing Unit Operating Weight, lbs. (kg)	11840 (5371)		13037 (5914)		13084 (5935)	
Condensing Unit Shipping Weight, lbs (kg)	11840 (5371)		13037 (5914)		13084 (5935)	
Weight-Add for Copper Fins, lbs (kg)	1786 (810)		1786 (810)		1786 (810)	
Weight-Add for Louvered Panels, lbs (kg)	788 (357)		788 (357)		788 (357)	
Compressors, Screw, Semi-Hermetic						
Nominal Capacity, tons (kW)	95 (334)	95 (334)	95 (334)	115 (404)	115 (404)	115 (404)
Minimum Capacity (% of Full Load)	20		20		20	
Oil charge per circuit , gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)
Condensers, High Efficiency Fin and Tube Type						
Pumpdown Capacity, lbs (kg)	250 (113)	250 (113)	250 (113)	250 (113)	250 (113)	250 (113)
Coil Inlet Face Area, sq. ft. (sq. m.)	147.7 (13.7)	147.7 (13.7)	147.7 (13.7)	147.7 (13.7)	147.7 (13.7)	147.7 (13.7)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type						
Number of Fans per Circuit	5	5	6	6	6	6
Fan Diameter	31.5 in. (800 mm)					
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	110850 (52315)		133020 (62778)		133020 (62778)	
Remote Evaporator, Direct Expansion Shell and Tube						
Shell Dia.-Tube Length, in.(mm)	16 × 108 (406 × 2750)		16 × 108 (406 × 2750)		16 × 108 (406 × 2750)	
Water Volume, gallons (liters)	68 (258)		68 (258)		66 (251)	
Victaulic inlet/outlet conn. in. (mm)	6 (168)		6 (168)		6 (168)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)	

Note: Condensing unit Operating and Shipping Weights are the same.

Physical Data - Pathfinder® Standard Efficiency (VFD)

AWS 210C through 300C, High Efficiency, VFD models

Data	AWS210CDH VFD REM EVAP		AWS230CDH VFD REM EVAP		AWS250CDH VFD REM EVAP		AWS280CDH VFD REM EVAP*		AWS300CDH VFD REM EVAP*	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data										
Unit Cap. @ AHRI, tons (kW)	205.2 (721)		224.8 (790)		240.0 (844)		270.6 (951)		287.7 (1012)	
Unit Operating Charge lbs (kg)	160 (73)	160 (73)	180 (82)	180 (82)	180 (82)	180 (82)	200 (91)	200 (91)	210 (95)	210 (95)
Unit Dimensions L × W × H, in. (mm)	254 × 88 × 100 (6444 × 2225 × 2548)		289 × 88 × 100 (7344 × 2225 × 2548)		289 × 88 × 100 (7344 × 2225 × 2548)		325 × 88 × 100 (8244 × 2225 × 2548)		325 × 88 × 100 (8244 × 2225 × 2548)	
Condensing Unit Operating Weight, lbs. (kg)	12288 (5574)		13643 (6188)		14116 (6403)		16193 (7345)		16193 (7345)	
Condensing Unit Shipping Weight, lbs (kg)	12288 (5574)		13643 (6188)		14116 (6403)		16193 (7345)		16193 (7345)	
Weight-Add for Copper Fins, lbs (kg)	1786 (810)		2084 (945)		2084 (945)		2372 (1076)		2372 (1076)	
Weight-Add for Louvered Panels, lbs (kg)	788 (357)		900 (408)		900 (408)		1012 (459)		1012 (459)	
Compressors, Screw, Semi-Hermetic										
Nominal Capacity, tons (kW)	105 (369)	105 (369)	105 (369)	125 (439)	125 (439)	125 (439)	125 (439)	150 (528)	150 (528)	150 (528)
Minimum Capacity (% of Full Load)	20		20		20		20		20	
Oil charge per circuit , gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)
Condensers, High Efficiency Fin and Tube Type										
Pumpdown Capacity, lbs (kg)	250 (113)	250 (113)	291 (132)	291 (132)	291 (132)	291 (132)	333 (151)	333 (151)	333 (151)	333 (151)
Coil Inlet Face Area, sq. ft. (sq. m.)	147.7 (13.7)	147.7 (13.7)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)	172.3 (16.0)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type										
Number of Fans per Circuit	6	6	7	7	7	7	8	8	8	8
Fan Diameter	31.5 in. (800 mm)									
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	133020 (62778)		155190 (73241)		155190 (73241)		177360 (83704)		177360 (83704)	
Remote Evaporator, Direct Expansion Shell and Tube										
Shell Dia.-Tube Length, in.(mm)	16 × 108 (406 × 2750)		16 × 108 (406 × 2750)		16 × 108 (406 × 2750)		20 × 108 (508 × 2750)		20 × 108 (508 × 2750)	
Water Volume, gallons (liters)	66 (251)		64 (243)		64 (243)		107 (403)		107 (403)	
Victaulic inlet/outlet conn. in. (mm)	6 (168)		6 (168)		6 (168)		8 (219)		8 (219)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)		325 (2241)	

Note: Condensing unit Operating and Shipping Weights are the same.
* Dimensions and weights are based on the largest control panel required. Confirm data for specific voltages in the sections for dimensional drawings and lifting and mounting weights.

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Physical Data - Pathfinder® High Efficiency (VFD)

AWS 330C through 410C, High Efficiency, VFD models

Data	AWS330CDH VFD REM EVAP		AWS350CDH VFD REM EVAP		AWS390CDH VFD REM EVAP		AWS410CDH VFD REM EVAP	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data								
Unit Cap. @ AHRI, tons (kW)	326.3 (1147)		347.1 (1220)		377.8 (1328)		408.7 (1437)	
Unit Operating Charge lbs (kg)	260 (118)	260 (118)	265 (120)	265 (120)	270 (122)	320 (145)	320 (145)	320 (145)
Unit Dimensions L × W × H, in. (mm)	410 x 88 x 100 (10404 x 2225 x 2545)		410 x 88 x 100 (10404 x 2225 x 2545)		461 x 88 x 100 (11701 x 2225 x 2548)		496 x 88 x 100 (12604 x 2225 x 2545)	
Condensing Unit Operating Weight, lbs. (kg)	17913 (8125)		18625 (8448)		20609 (9348)		21337 (9678)	
Condensing Unit Shipping Weight, lbs (kg)	17913 (8125)		18625 (8448)		20609 (9348)		21337 (9678)	
Weight-Add for Copper Fins, lbs (kg)	2968 (1346)		2968 (1346)		3256 (1477)		3553 (1612)	
Weight-Add for Louvered Panels, lbs (kg)	1236 (561)		1236 (561)		1348 (611)		1460 (662)	
Compressors, Screw, Semi-Hermetic								
Nominal Capacity, tons (kW)	150 (528)	175 (615)	175 (615)	175 (615)	175 (615)	205 (721)	205 (721)	205 (721)
Minimum Capacity (% of Full Load)	20		20		20		20	
Oil charge per circuit , gallons (liters)	5.5 (21)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type								
Pumpdown Capacity, lbs (kg)	416 (189)	416 (189)	416 (189)	416 (189)	416 (189)	500 (227)	500 (227)	500 (227)
Coil Inlet Face Area, sq. ft. (sq. m.)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	295.3 (27.4)	295.3 (27.4)	295.3 (27.4)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type								
Number of Fans per Circuit	10	10	10	10	10	12	12	12
Fan Diameter	31.5 in. (800 mm)							
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	221700 (104630)		221700 (104630)		243870 (115094)		266040 (125556)	
Remote Evaporator, Direct Expansion Shell and Tube								
Shell Dia.-Tube Length, in.(mm)	20 × 108 / (508 × 2750)		20 × 108 / (508 × 2750)		20 × 108 / (508 × 2750)		20 × 108 / (508 × 2750)	
Water Volume, gallons (liters)	102 (386)		102 (386)		100 (377)		100 (377)	
Victaulic inlet/outlet conn. in. (mm)	8 (219)		8 (219)		8 (219)		8 (219)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)	

Note: Dimensions and Weights are based on the largest Switch Box required. Condensing unit Operating and Shipping Weights are the same

AWS 350B through 410B, High Efficiency, VFD models

Data	AWS450CTH VFD Remote Evap			AWS475CTH VFD Remote Evap		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
Basic Data						
Unit Cap. @ AHRI, tons (kW)	445.2 (1565)			467.7 (1644)		
Unit Operating Charge lbs (kg)	210 (95)	210 (95)	220 (100)	210 (95)	210 (95)	280 (187)
Unit Dimensions L × W × H, in. (mm)	496 x 88 x 100 (12605 x 2225 x 2548)			532 x 88 x 100 (13504 x 2225 x 2545)		
Condensing Unit Operating Weight, lbs. (kg)	22841 (10361)			24273 (11010)		
Condensing Unit Shipping Weight, lbs (kg)	22841 (10361)			24273 (11010)		
Weight-Add for Copper Fins, lbs (kg)	3553 (1612)			3870 (1755)		
Weight-Add for Louvered Panels, lbs (kg)	1460 (662)			1572 (713)		
Compressors, Screw, Semi-Hermetic						
Nominal Capacity, tons (kW)	150 (528)	150 (528)	150 (528)	150 (528)	150 (528)	175 (615)
Minimum Capacity (% of Full Load)	13			13		
Oil charge per circuit , gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)
Condensers, High Efficiency Fin and Tube Type						
Pumpdown Capacity, lbs (kg)	333 (151)	333 (151)	333 (151)	333 (151)	333 (151)	416 (189)
Coil Inlet Face Area, sq. ft. (sq. m.)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	196.9 (18.3)	246.1 (22.8)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type						
Number of Fans per Circuit	8	8	8	8	8	10
Fan Diameter	31.5 in. (800 mm)					
Fan Motor, hp (kW)	1.4 (1.05)			1.4 (1.05)		
Fan & Motor RPM	850			850		
Fan Tip Speed, FPM (m/s)	6984 (35)			6984 (35)		
Airflow, CFM (l/s)	266040 (125556)			288210 (136019)		
Remote Evaporator, Direct Expansion Shell and Tube						
Shell Dia.-Tube Length, in.(mm)	26 × 130 (660 × 3300)			26 × 13 (660 × 3300)		
Water Volume, gallons (liters)	225 (850)			220 (831)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)		
Max. Water Pressure, psi (kPA)	152 (1048)			152 (1048)		
Max. Refrigerant Press., psi (kPA)	325 (2241)			325 (2241)		

Note: Dimensions and Weights are based on the largest Switch Box required. Condensing unit Operating and Shipping Weights are the same.

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Physical Data - Pathfinder® Premium Efficiency (VFD)

AWS 240C through 290C, Premium Efficiency, VFD models

Data	AWS240CDP VFD Remote Evap		AWS265CDP VFD Remote Evap		AWS290CDP VFD Remote Evap	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data						
Unit Cap. @ AHRI, tons (kW)	232.7 (818)		256.3 (901)		277.6 (976)	
Unit Operating Charge lbs (kg)	200 (91)	200 (91)	225 (102)	225 (102)	235 (107)	235 (107)
Unit Dimensions L × W × H, in. (mm)	325 × 88 × 100 (8244 × 2225 × 2548)		360 × 88 × 100 (9144 × 2225 × 2545)		360 × 88 × 100 (9144 × 2225 × 2545)	
Condensing Unit Operating Weight, lbs. (kg)	14063 (6379)		15250 (6917)		15641 (7095)	
Condensing Unit Shipping Weight, lbs (kg)	14063 (6379)		15250 (6917)		15641 (7095)	
Weight-Add for Copper Fins, lbs (kg)	2372 (1076)		2679 (1215)		2679 (1215)	
Weight-Add for Louvered Panels, lbs (kg)	1012 (459)		1124 (510)		1124 (510)	
Compressors, Screw, Semi-Hermetic						
Nominal Capacity, tons (kW)	105 (369)	105 (369)	105 (369)	125 (439)	125 (439)	125 (439)
Minimum Capacity (% of Full Load)	20		20		20	
Oil charge per circuit , gallons (liters)	4.5 (17)	4.5 (17)	4.5 (17)	5.5 (21)	5.5 (21)	5.5 (21)
Condensers, High Efficiency Fin and Tube Type						
Pumpdown Capacity, lbs (kg)	333 (151)	333 (151)	375 (170)	375 (170)	375 (170)	375 (170)
Coil Inlet Face Area, sq. ft. (sq. m.)	196.9 (18.3)	196.9 (18.3)	221.5 (20.6)	221.5 (20.6)	221.5 (20.6)	221.5 (20.6)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type						
Number of Fans per Circuit	8	8	9	9	9	9
Fan Diameter	31.5 in. (800 mm)					
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	177360 (83704)		199530 (94167)		199530 (94167)	
Remote Evaporator, Direct Expansion Shell and Tube						
Shell Dia.-Tube Length, in.(mm)	20 × 154 (508 × 3900)		20 × 154 (508 × 3900)		26 × 154 (660 × 3900)	
Water Volume, gallons (liters)	158 (599)		158 (599)		276 (1043)	
Victaulic inlet/outlet conn. in. (mm)	8 (219)		8 (219)		10 (273)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)	

Note: Dimensions and Weights are based on the largest Switch Box required. Condensing unit Operating and Shipping Weights are the same.

AWS 310C through 400C, Premium Efficiency, VFD models

Data	AWS310CDP VFD Remote Evap*		AWS330CDP VFD Remote Evap*		AWS365CDP VFD Remote Evap		AWS400CDP VFD Remote Evap	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data								
Unit Cap. @ AHRI, tons (kW)	303.8 (1068)		324.7 (1142)		354.8 (1247)		385.4 (1355)	
Unit Operating Charge lbs (kg)	250 (113)	250 (113)	260 (118)	260 (118)	260 (118)	300 (136)	310 (141)	310 (141)
Unit Dimensions L × W × H, in. (mm)	396 × 88 × 100 (10044 × 2225 × 2545)		396 × 88 × 100 (10044 × 2225 × 2545)		461 × 88 × 100 (11701 × 2225 × 2548)		496 × 88 × 100 (12604 × 2225 × 2545)	
Condensing Unit Operating Weight, lbs. (kg)	17587 (7977)		17587 (7977)		19926 (9038)		21337 (9678)	
Condensing Unit Shipping Weight, lbs (kg)	17587 (7977)		17587 (7977)		19926 (9038)		21337 (9678)	
Weight-Add for Copper Fins, lbs (kg)	2968 (1346)		2968 (1346)		3256 (1477)		3553 (1612)	
Weight-Add for Louvered Panels, lbs (kg)	1236 (561)		1236 (561)		1348 (611)		1460 (662)	
Compressors, Screw, Semi-Hermetic								
Nominal Capacity, tons (kW)	125 (439)	150 (528)	150 (528)	150 (528)	150 (528)	175 (615)	175 (615)	175 (615)
Minimum Capacity (% of Full Load)	20		20		20		20	
Oil charge per circuit , gallons (liters)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	5.5 (21)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type								
Pumpdown Capacity, lbs (kg)	416 (189)	416 (189)	416 (189)	416 (189)	416 (189)	500 (227)	500 (227)	500 (227)
Coil Inlet Face Area, sq. ft. (sq. m.)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)	295.3 (27.4)	295.3 (27.4)	295.3 (27.4)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type								
Number of Fans per Circuit	10	10	10	10	10	12	12	12
Fan Diameter	31.5 in. (800 mm)							
Fan Motor, hp (kW)	1.4 (1.05)		1.4 (1.05)		1.4 (1.05)		1.4 (1.05)	
Fan & Motor RPM	850		850		850		850	
Fan Tip Speed, FPM (m/s)	6984 (35)		6984 (35)		6984 (35)		6984 (35)	
Airflow, CFM (l/s)	221700 (104630)		221700 (104630)		243870 (115093)		266040 (125556)	
Remote Evaporator, Direct Expansion Shell and Tube								
Shell Dia.-Tube Length, in.(mm)	26 × 154 (660 × 3900)		26 × 154 (660 × 3900)		26 × 154 (660 × 3900)		26 × 154 (660 × 3900)	
Water Volume, gallons (liters)	276 (1043)		259 (979)		259 (979)		259 (979)	
Victaulic inlet/outlet conn. in. (mm)	10 (273)		10 (273)		10 (273)		10 (273)	
Max. Water Pressure, psi (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Max. Refrigerant Press., psi (kPA)	325 (2241)		325 (2241)		325 (2241)		325 (2241)	

Note: Condensing unit Operating and Shipping Weights are the same.
* Dimensions and weights are based on the largest control panel required. Confirm data for specific voltages in the sections for dimensional drawings and lifting and mounting weights.

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Physical Data - Pathfinder® Premium Efficiency (VFD)

AWS 500C through 530C, Premium Efficiency, VFD models

Data	AWS500CTH VFD REM			AWS530CTH VFD REM		
	Circuit 1	Circuit 2	Circuit 3	Circuit 1	Circuit 2	Circuit 3
Basic Data						
Unit Cap. @ AHRI, tons (kW)	497.8 (1750)			524.8 (1845)		
Unit Operating Charge lbs (kg)	265 (120)	265 (120)	220 (100)	265 (120)	265 (120)	280 (187)
Unit Dimensions L × W × H, in. (mm)	567 × 88 × 100 (14405 × 2225 × 2548)			602 × 88 × 100 (15288 × 2225 × 2545)		
Condensing Unit Operating Weight, lbs. (kg)	25924 (11759)			27363 (12412)		
Condensing Unit Shipping Weight, lbs (kg)	25924 (11759)			27363 (12412)		
Weight-Add for Copper Fins, lbs (kg)	4168 (1891)			4466 (2026)		
Weight-Add for Louvered Panels, lbs (kg)	1684 (764)			1796 (815)		
Compressors, Screw, Semi-Hermetic						
Nominal Capacity, tons (kW)	175 (615)	175 (615)	150 (528)	175 (615)	175 (615)	175 (615)
Minimum Capacity (% of Full Load)	13			13		
Oil charge per circuit , gallons (liters)	6 (23)	6 (23)	5.5 (21)	6 (23)	6 (23)	6 (23)
Condensers, High Efficiency Fin and Tube Type						
Pumpdown Capacity, lbs (kg)	416 (189)	416 (189)	333 (151)	416 (189)	416 (189)	416 (189)
Coil Inlet Face Area, sq. ft. (sq. m.)	246.1 (22.8)	246.1 (22.8)	196.9 (18.3)	246.1 (22.8)	246.1 (22.8)	246.1 (22.8)
Rows Deep/Fins Per Inch	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16	3 / 16
Condenser Fans, Direct-drive Propeller Type						
Number of Fans per Circuit	10	10	8	10	10	10
Fan Diameter	31.5 in. (800 mm)					
Fan Motor, hp (kW)	1.4 (1.05)			1.4 (1.05)		
Fan & Motor RPM	850			850		
Fan Tip Speed, FPM (m/s)	6984 (35)			6984 (35)		
Airflow, CFM (l/s)	310380 (146482)			332550 (156945)		
Remote Evaporator, Direct Expansion Shell and Tube						
Shell Dia.-Tube Length, in.(mm)	26 × 130 (660 × 3300)			26 × 130 (660 × 3300)		
Water Volume, gallons (liters)	220 (831)			220 (831)		
Victaulic inlet/outlet conn. in. (mm)	10 (273)			10 (273)		
Max. Water Pressure, psi (kPA)	152 (1048)			152 (1048)		
Max. Refrigerant Press., psi (kPA)	325 (2241)			325 (2241)		

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Physical Data - Pathfinder® Air Cooled Screw Chillers

AWV 12 through 30, Unit Dimensions and Weights, AWV models

Figure 5: Unit Illustration for Dimensions

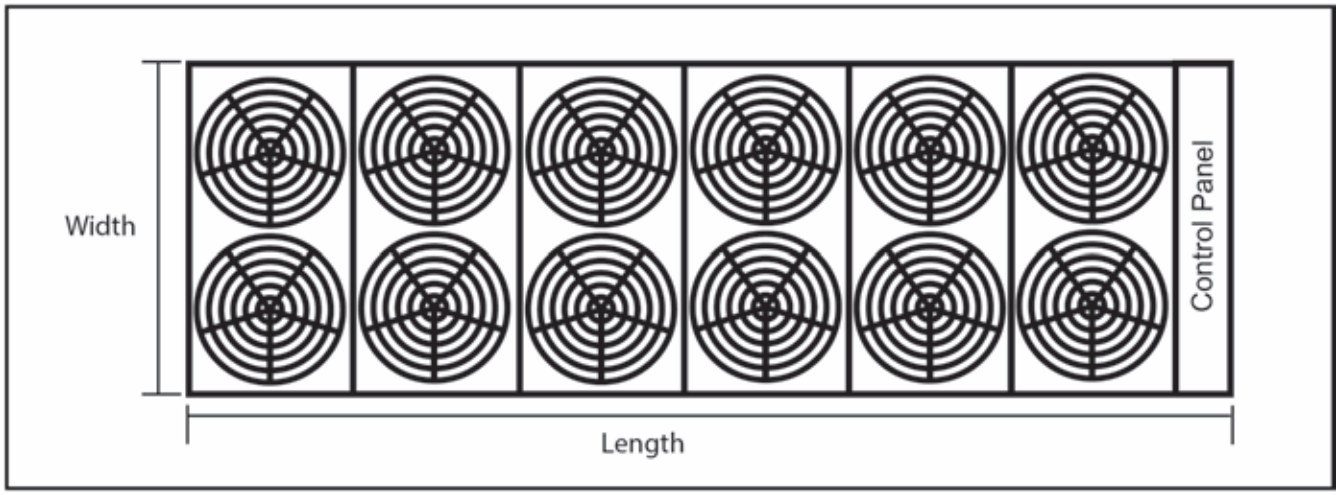

Table 2: Dimensions and Shipping Weights

Number of Fans	Length	Width	Height	Shipping Weight	Operating Weight	Additional Weights - lb (kg)	
	in (mm)	in (mm)	in (mm)	lb (kg)	lb (kg)	Sound Enclosures	Grilles/ Louver Panels
12	258.1 (6,556)	87.6 (2,225)	100.1 (2,543)	13,775 (6,248)	14,336 (6,503)	610 (277)	860 (390)
14	296.0 (7,518)			15,252 (6,918)	16,140 (7,321)	680 (308)	980 (445)
16	334.0 (8,484)			16,290 (7,389)	17,574 (7,971)		1,090 (494)
18	371.7 (9,441)			17,962 (8,147)	19,246 (8,730)		1,215 (551)
20	409.6 (10,404)			19,830 (8,995)	21,750 (9,866)		1,325 (601)
22	447.5 (11,367)			21,002 (9,526)	23,266 (10,553)		1,440 (653)
24	485.4 (12,329)			22,670 (10,283)	24,934 (11,310)		1,560 (708)
26	523.2 (13,289)			24,497 (11,112)	26,761 (12,139)		1,670 (758)
28	561.0 (14,249)			25,239 (11,448)	27,503 (12,475)		1,785 (810)
30	598.9 (15,212)			26,110 (11,843)	28,374 (12,870)		1,895 (860)

Drawing Notes

1. Weights shown reflect the largest possible evaporator and control panel box.
2. Minimum clearances are required for unit operation and service. See page 11 for installation requirements.
3. 3.0-inch diameter lifting holes are provided. See lifting instructions in the current version of the installation, operation, and maintenance manual, available at www.DaikinApplied.com.
4. The unit is shipped with a full operating charge of refrigerant.
5. Installation specific drawings are available from a Daikin Applied sales representative.

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Physical Data - AMZ A - MicroChannel (Package) (AMZ)

AMZ 010A through 040A, Standard Efficiency, AMZ models

Data	AMZ010A	AMZ015A	AMZ020A	AMZ025A	AMZ030A	AMZ035A	AMZ040A
Basic Data							
Unit Cap. @ AHRI tons	10.7	15.1	19.7	24.8	29.5	34.5	39
Unit Operating Charge lbs	17	17	17	26	26	26	26
Unit Dimensions L x W x H, in.	88.0 x 50.9 x 91.9	88.0 x 50.9 x 91.9	88.0 x 50.9 x 91.9	88.0 x 50.9 x 91.9	88.0 x 50.9 x 91.9	88.0 x 50.9 x 91.9	88.0 x 50.9 x 91.9
Package Unit Operating Weight, lbs. (kg)	1401 (638)	1461 (664)	1447 (658)	1532 (696)	1547 (703)	1775 (807)	1908 (867)
Package Unit Shipping Weight, lbs (kg)	1394 (634)	1454 (661)	1440 (655)	1524 (693)	1538 (699)	1759 (800)	1890 (859)
Remote Evap. Unit Weight, lbs. (kg) Note 2							
Weight-Add for Copper Fins, lbs (kg)							
Weight-Add for (Upper) Louvered Panels, lbs (kg)	183 (83)						
Weight-Add for (Lower) Louvered Panels, lbs (kg)	114 (52)						
Compressors, Scroll, Hermetic							
Nominal HP	5 / 5	7.5 / 7.5	10.0 / 10.0	13.0 / 13.0	15.0 / 15.0	15.0 /20.0	20.0 / 20.0
Oil charge per Compressor , oz (g)	56 (1588)	85 (2410)	85 (2410)	110 (3119)	110 (3119)	110 (3119) / 152 (4495)	152 (4495)
Staging, 2 Stages (If Circuit is in Lead)	0-50-100	0-50-100	0-50-100	0-50-100	0-50-100	0-50-100	0-50-100
Condensers, High Efficiency Microchannel Type							
Pumpdown Capacity, lbs (kg)							
Coil Inlet Face Area, sq. ft. (sq. m.)	26.5 (2.46)	26.5 (2.46)	26.5 (2.46)	53 (4.92)	53 (4.92)	53 (4.92)	53 (4.92)
Rows Deep/Fins Per Inch	1 / 21	1 / 21	1 / 21	1 / 21	1 / 21	1 / 21	1 / 21
Condenser Fans, Direct Drive Propeller Type							
# of Fans per Circuit – Fan Diameter in (mm)	2 - 30 (762)	2 - 30 (762)	2 - 30 (762)	2 - 30 (762)	2 - 30 (762)	2 - 30 (762)	2 - 30 (762)
Fan Motor, hp (kW)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	1.5 (1.1)	2.0 (1.5)	2.0 (1.5)
Fan & Motor RPM	1140	1140	1140	1140	1140	1140	1140
Fan Tip Speed, fpm (m/s)	8950 (45)	8950 (45)	8950 (45)	8950 (45)	8950 (45)	8950 (45)	8950 (45)
Airflow, cfm (l/s)	17,000 (8023)	17,000 (8023)	17,000 (8023)	20,200 (9533)	20,200 (9533)	24000 (11327)	24000 (11327)
Evaporator, Direct Expansion Plate To Plate							
Evaporator, Model (1 Evaporator / 1 Circuits)	F85x46	F85x70	F200x40	F200x48	F200x56	F200x64	F200x76
Dry Weight lbs (kg)	19.7 (8.9)	27.6 (12.5)	57.9 (26.3)	65.8	72.7	80.1	91.3
Water Volume, gallons (liters)	0.6 (2.3)	0.8 (3.0)	1.3 (4.9)	1.5 (5.7)	1.8 (6.8)	2 (7.6)	2.4 (9.1)
Victaulic inlet/outlet conn. in. (mm)	2 (50.8)	2 (50.8)	2 (50.8)	2 (50.8)	2 (50.8)	2 (50.8)	2 (50.8)
Max. Water Pressure, psi (kPa)	696 (48)	696 (48)	652 (48)	652 (48)	652 (48)	652 (48)	652 (48)
Max. Refrigerant Press., psi (kPa)	696 (48)	696 (48)	652 (48)	652 (48)	652 (48)	652 (48)	652 (48)

Note: Dimensions and Weights are based on the largest Switch Box required.

Note 1 - Based on AHRI Conditions

Note 2 - Operation Weight Includes Refrigerant Charge of the Unit Only

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Physical Data - Air-cooled Scroll Compressor Chiller

AGZ 030E through AGZ 050E, Packaged

Physical Data	AGZ-E (Microchannel Packaged Chiller)									
	AGZ030E		AGZ035E		AGZ040E		AGZ045E		AGZ050E	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data										
Unit Cap. @ AHRI tons (kW) – See Note 1	28.1 (98.8)		34.9 (122.7)		39.2 (137.9)		42.6 (149.8)		48.3 (169.8)	
Unit Operating Charge lbs. (kg) - Sealed FD	16 (7.3)		16 (7.3)		21 (9.5)		21 (9.5)		21 (9.5)	
Unit Dimensions L × W × H, in. (mm)	94.4 × 88 × 100.4 (2398 × 2235 × 2550)		94.4 × 88 × 100.4 (2398 × 2235 × 2550)		94.4 × 88 × 100.4 (2398 × 2235 × 2550)		94.4 × 88 × 100.4 (2398 × 2235 × 2550)		94.4 × 88 × 100.4 (2398 × 2235 × 2550)	
Package Unit Operating Weight, lbs. (kg)	2960 (1343)		2887 (1310)		2964 (1344)		3112 (1412)		3114 (1412)	
Package Unit Shipping Weight, lbs. (kg)	2947 (1337)		2873 (1303)		2948 (1337)		3094 (1403)		3093 (1403)	
Weight-Add for (Upper) Louvered Panels, lbs.(kg)	N/A		N/A		167 (76)		167 (76)		167 (76)	
Weight-Add for (Lower) Louvered Panels, lbs.(kg)	144 (65)		144 (65)		144 (65)		144 (65)		144 (65)	
Compressors, Scroll, Hermetic										
Nominal hp	7.5 / 7.5		9.0 / 9.0	10.0 / 10.0	10.0 / 10.0	10.0 / 10.0	12.0 / 12.0	12.0 / 12.0	13.0 / 13.0	13.0 / 13.0
Oil charge per Compressor, oz. (g)	85 (2410)		85 (2410)		85 (2410)		110 (3119)		110 (3119)	
Staging, 4 Stages (If Circuit is in Lead)	0-25-50-75-100		0-23-50-73-100	0-27-50-77- 100	0-25-50-75-100		0-25-50-75-100		0-25-50-75-100	
Microchannel Condenser										
Coil Inlet Face Area, sq.ft. (sq.m.)	24.9 (2.3)		24.9 (2.3)		49.8 (4.6)		49.8 (4.6)		49.8 (4.6)	
Rows Deep/Fins Per Inch	1 / 21		1 / 21		1 / 21		1 / 21		1 / 21	
Condenser Fans, Direct-drive Propeller Type										
# of Fans per Circuit - Fan Diameter in. (mm)	2 - 30 (762)		2 - 30 (762)		2 - 30 (762)		2 - 30 (762)		2 - 30 (762)	
Fan Motor, hp (kW)	1.5 (1.1)		1.5 (1.1)		1.5 (1.1)		1.5 (1.1)		1.5 (1.1)	
Fan & Motor RPM	1140		1140		1140		1140		1140	
Fan Tip Speed, fpm (m/s)	8950 (45)		8950 (45)		8950 (45)		8950 (45)		8950 (45)	
Airflow, CFM (l/s)	34,000 (16047)		34,000 (16047)		40,400 (19,067)		40,400 (19,067)		40,400 (19,067)	
Evaporator, Brazed Plate										
Evaporator, Model (1 Evaporator / 2 Circuits)	ACH-230DQ-78H		ACH-230DQ-86H		ACH-230DQ-94H		ACH-230DQ-110H		ACH-230DQ-126H	
Dry Weight lbs (kg)	84 (38.1)		91 (41.3)		98 (44.5)		112 (50.1)		126 (57.2)	
Water Volume, gallons (liters)	2.0 (7.6)		2.2 (8.4)		2.4 (9.2)		2.3 (8.7)		2.6 (9.8)	
Victaulic inlet/outlet conn. in. (mm)	2.5 (65)		2.5 (65)		2.5 (65)		2.5 (65)		2.5 (65)	
Max. Water Pressure, psi (kPA)	653 (4502)		653 (4502)		653 (4502)		653 (4502)		653 (4502)	
Max. Refrigerant Pressure, psi (kPA)	653 (4502)		653 (4502)		653 (4502)		653 (4502)		653 (4502)	

Note 1: Nominal capacity based on 95° F ambient air and 54° F/44° F water range.
Note 2: For all 380V/60 & 575V/60 models, hp = 2.0.
Note 3: Water connection shown is nominal pipe size.
Note 4: Brazed plate evaporators do not have drain or vent connections integral to the heat exchanger. The connections must be installed in the field inlet and outlet piping as shown in Piping Section of IM 1100, available on www.DaikinApplied.com.

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Physical Data - Air-cooled Scroll Compressor Chiller

AGZ 055E through AGZ 070E, Packaged

Physical Data	AGZ-E (Microchannel Packaged Chiller)							
	AGZ055E		AGZ060E		AGZ065E		AGZ070E	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data								
Unit Cap. @ AHRI tons (kW) – See Note 1	51.8 (182.1)		57.0 (200.5)		58.7 (206.4)		65.1 (228.9)	
Unit Operating Charge lbs. (kg) - Sealed FD	21 (9.5)		21 (9.5)		21 (9.5)		22 (10.0)	
Unit Dimensions L × W × H, in. (mm)	94.4 × 88 × 100.4 (2398 × 2235 × 2550)		94.4 × 88 × 100.4 (2398 × 2235 × 2550)		94.4 × 88 × 100.4 (2398 × 2235 × 2550)		94.4 × 88 × 100.4 (2398 × 2235 × 2550)	
Package Unit Operating Weight, lbs. (kg)	3128 (1419)		3155 (1431)		3155 (1431)		3497 (1586)	
Package Unit Shipping Weight, lbs. (kg)	3106 (1409)		3130 (1420)		3130 (1420)		3472 (1575)	
Weight-Add for (Upper) Louvered Panels, lbs.(kg)	167 (76)		167 (76)		167 (76)		167 (76)	
Weight-Add for (Lower) Louvered Panels, lbs.(kg)	144 (65)		144 (65)		144 (65)		144 (65)	
Compressors, Scroll, Hermetic								
Nominal hp	13.0 / 13.0	15.0 / 15.0	15.0 / 15.0		15.0 / 20.0		15.0 / 20.0	
Oil charge per Compressor, oz. (g)	110 (3119)		110 (3119)		110 (3119)		110 (3119)	
Staging, 4 Stages (If Circuit is in Lead)	0-23-50-73-100	0-27-50-77-100	0-25-50-75-100		0-25-50-75-100		0-21-50-71-100	0-28-50-78-100
Microchannel Condenser								
Coil Inlet Face Area, sq.ft. (sq.m.)	49.8 (4.6)		49.8 (4.6)		49.8 (4.6)		49.8 (4.6)	
Rows Deep/Fins Per Inch	1 / 21		1 / 21		1 / 21		1 / 21	
Condenser Fans, Direct-drive Propeller Type								
# of Fans per Circuit - Fan Diameter in. (mm)	2 - 30 (762)		2 - 30 (762)		2 - 30 (762)		2 - 30 (762)	
Fan Motor, hp (kW)	1.5 (1.1)		1.5 (1.1)		2.0 (1.5)		2.0 (1.5)	
Fan & Motor RPM	1140		1140		1140		1140	
Fan Tip Speed, fpm (m/s)	8950 (45)		8950 (45)		8950 (45)		8950 (45)	
Airflow, CFM (l/s)	40,400 (19,067		40,400 (19,067		48,000 (22654)		48,000 (22654)	
Evaporator, Brazed Plate								
Evaporator, Model (1 Evaporator / 2 Circuits)	ACH-230DQ-134H		ACH-230DQ-154H		ACH-230DQ-154H		ACH-230DQ-154H	
Dry Weight lbs (kg)	133 (60.3)		150 (68.1)		150 (68.1)		150 (68.1)	
Water Volume, gallons (liters)	2.8 (10.6)		2.8 (10.6)		2.8 (10.6)		2.8 (10.6)	
Victaulic inlet/outlet conn. in. (mm)	2.5 (65)		2.5 (65)		2.5 (65)		2.5 (65)	
Max. Water Pressure, psi (kPA)	653 (4502)		653 (4502)		653 (4502)		653 (4502)	
Max. Refrigerant Pressure, psi (kPA)	653 (4502)		653 (4502)		653 (4502)		653 (4502)	

Note 1: Nominal capacity based on 95° F ambient air and 54° F/44° F water range.
Note 2: For all 380V/60 & 575V/60 models, hp = 2.0.
Note 3: Water connection shown is nominal pipe size.
Note 4: Brazed plate evaporators do not have drain or vent connections integral to the heat exchanger. The connections must be installed in the field inlet and outlet piping as shown in Piping Section of IM 1100, available on www.DaikinApplied.com.

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Physical Data - Air-cooled Scroll Compressor Chiller

AGZ 075D through AGZ 100D, Packaged

Data	AGZ075DH		AGZ080DH		AGZ090DH		AGZ100DH	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data								
Unit Capacity @ AHRI Conditions (See Note 1), Tons (kW)	73 (257)		81 (285)		89 (314)		100 (351)	
Number of Refrigerant Circuits	2		2		2		2	
Unit Operating Charge, R-410A, lbs (kg)	75 (34)	75 (34)	80 (36)	80 (36)	86 (39)	86 (39)	88 (40)	88 (40)
Cabinet Dimensions, L × W × H, in. (mm)	134.9 × 88.0 × 100.4 (3426 × 2235 × 2550)		134.9 × 88.0 × 100.4 (3426 × 2235 × 2550)		134.9 × 88.0 × 100.4 (3426 × 2235 × 2550)		134.9 × 88.0 × 100.4 (3426 × 2235 × 2550)	
Unit Operating Weight, lbs (kg)	5350 (2427)		5385 (2443)		5420 (2459)		5675 (2574)	
Unit Shipping Weight, lbs (kg)	5305 (2406)		5335 (2420)		5365 (2434)		5610 (2545)	
Add'l Weight for Copper Finned Coils, lbs (kg)	801 (363)		801 (363)		950 (431)		950 (431)	
Add'l Weight for Optional Louvers - Upper, lbs (kg)	237 (108)		237 (108)		237 (108)		237 (108)	
Add'l Weight for Optional Louvers - Lower, lbs (kg)	187 (85)		187 (85)		187 (85)		187 (85)	
Compressors								
Type	Tandem Scrolls		Tandem Scrolls		Tandem Scrolls		Tandem Scrolls	
Nominal tonnage of each Compressor	20	20	20	25	25	25	25/30	25/30
Number of Compressors per Circuit	2	2	2	2	2	2	2	2
Oil Charge per Compressor, oz (g)	135 (3827)	135 (3827)	135 (3827)	145 (4111)	145 (4111)	145 (4111)	145/213 (4111/6038)	145/213 (4111/6038)
Capacity Reduction Steps - Percent of Compressor Displacement								
Staging, 4 Stages, Circuit #1 in Lead	0-25-50-75-100		0-22-50-72-100		0-25-50-75-100		0-22-50-72-100	
Staging, 4 Stages, Circuit #2 in Lead	0-25-50-75-100		0-28-50-78-100		0-25-50-75-100		0-22-50-72-100	
Condensers - High Efficiency Fin and Tube Type with Integral Subcooling								
Coil Face Area, ft^2 (m^2)	66.2 (6.1)	66.2 (6.1)	66.2 (6.1)	66.2 (6.1)	78.8 (7.3)	78.8 (7.3)	78.8 (7.3)	78.8 (7.3)
Finned Height × Finned Length, in.(mm)	42 × 113.4 (1069 × 2880)	42 × 113.4 (1069 × 2880)	42 × 113.4 (1069 × 2880)	42 × 113.4 (1069 × 2880)	50 × 113.4 (1270 × 2880)	50 × 113.4 (1270 × 2880)	50 × 113.4 (1270 × 2880)	50 × 113.4 (1270 × 2880)
Fins per Inch × Rows Deep	16 × 3	16 × 3	16 × 3	16 × 3	16 × 3	16 × 3	16 × 3	16 × 3
Pumpdown Capacity, 90% Full, lbs (kg)	111 (50)	111 (50)	111 (50)	111 (50)	130 (59)	130 (59)	130 (59)	130 (59)
Condenser Fans – Direct-drive Propeller Type								
Number of Fans - Fan Diameter, in. (mm)	6 - 30 (762)		6 - 30 (762)		6 - 30 (762)		6 - 30 (762)	
Number of Motors - hp (kW) (Note 2)	6 - 2.0 (1.5)		6 - 2.0 (1.5)		6 - 2.0 (1.5)		6 - 2.0 (1.5)	
Fan and Motor RPM, 60Hz	1140		1140		1140		1140	
60 Hz Fan Tip Speed, FPM (m/sec)	8950 (45)		8950 (45)		8950 (45)		8950 (45)	
60 Hz Total Unit Airflow, CFM (l/sec)	61,200 (28,888)		61,200 (28,888)		65,178 (30,765)		65,178 (30,765)	
Evaporator - Brazed Plate-to-Plate								
Number of Evaporators	1		1		1		1	
Number of Refrigerant Circuits	2		2		2		2	
Water Volume, Gallons, (l)	5.47 (20.7)		6.18 (23.4)		6.66 (25.2)		7.85 (29.7)	
Max. Water Pressure, psig (kPA)	653 (4502)		653 (4502)		653 (4502)		653 (4502)	
Maximum Refrigerant Working Pressure, psig (kPA)	653 (4502)		653 (4502)		653 (4502)		653 (4502)	
Water Inlet / Outlet Victaulic Connection, in. (mm)	3 (80)		3 (80)		3 (80)		3 (80)	
Drain - NPT int, in. (mm) (Note 3)	Field Piping		Field Piping		Field Piping		Field Piping	
Vent - NPT int, in. (mm) (Note 3)	Field Piping		Field Piping		Field Piping		Field Piping	

Nominal capacity based on 95°F ambient air temperature and 54°F/44°F water range.
For all 380V/60 and 575V/60, hp = 2.0.
Water connection shown is nominal pipe size.
Brazed plate evaporators do not have drain or vent connections integral to the heat exchanger. The connections must be installed in the field. Inlet and outlet piping as shown in Piping Section of Catalog 611.

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Physical Data - Air-cooled Scroll Compressor Chiller

AGZ 110D through AGZ 130D, Packaged, 208/230-Volt Models

Data	AGZ110DH		AGZ125DH		AGZ130DH	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data						
Unit Capacity @ AHRI Conditions (See Note 1), Tons (kW)	106 (373)		117 (412)		130 (456)	
Number of Refrigerant Circuits	2		2		2	
Unit Operating Charge, R-410A, lbs (kg)	102 (46)	102 (46)	115 (52)	115 (52)	115 (52)	115 (52)
Cabinet Dimensions, L × W × H, in. (mm)	173.1 × 88.0 × 100.4 (4397 × 2235 × 2550)		173.1 × 88.0 × 100.4 (4397 × 2235 × 2550)		173.1 × 88.0 × 100.4 (4397 × 2235 × 2550)	
Unit Operating Weight, lbs (kg)	7120 (3230)		7265 (3295)		7320 (3320)	
Unit Shipping Weight, lbs (kg)	7050 (3198)		7185 (3259)		7230 (3280)	
Add'l Weight for Copper Finned Coils, lbs (kg)	1070 (486)		1269 (576)		1269 (576)	
Add'l Weight for Optional Louvers - Upper, lbs (kg)	307 (139)		307 (139)		307 (139)	
Add'l Weight for Optional Louvers - Lower, lbs (kg)	230 (105)		230 (105)		230 (105)	
Compressors						
Type	Trio Scrolls		Trio Scrolls		Trio Scrolls	
Nominal tonnage of each Compressor	20	20	20	25	25	25
Number of Compressors per Circuit	3	3	3	3	3	3
Oil Charge per Compressor, oz (g)	135 (3827)	135 (3827)	135 (3827)	145 (4111)	145 (4111)	145 (4111)
Capacity Reduction Steps - Percent of Compressor Displacement						
Staging, 4 Stages, Circuit #1 in Lead	0-17-33-50-67-83-100		0-15-33-48-67-81-100		0-17-33-50-67-83-100	
Staging, 6 Stages, Circuit #2 in Lead	0-17-33-50-67-83-100		0-19-33-52-67-86-100		0-17-33-50-67-83-100	
Condensers - High Efficiency Fin and Tube Type with Integral Subcooling						
Coil Face Area, ft^2 (m^2)	88.4 (8.2)	88.4 (8.2)	105.3 (9.8)	105.3 (9.8)	105.3 (9.8)	105.3 (9.8)
Finned Height × Finned Length, in. (mm)	42 × 151.6 (1069 × 3851)	42 × 51.6 (1069 × 3851)	50 × 51.6 (1270 × 3851)	50 × 151.6 (1270 × 3851)	50 × 151.6 (1270 × 3851)	50 × 151.6 (1270 × 3851)
Fins per Inch × Rows Deep	16 × 3	16 × 3	16 × 3	16 × 3	16 × 3	16 × 3
Pumpdown Capacity, 90% Full, lbs (kg)	142/64	142/64	166/75	166/75	166/75	166/75
Condenser Fans - Direct Drive Propeller Type						
Number of Fans - Fan Diameter, in. (mm)	8 - 30 (762)		8 - 30 (762)		8 - 30 (762)	
Number of Motors - hp (kW) (Note 2)	8 - 2.0 (1.5)		8 - 2.0 (1.5)		8 - 2.0 (1.5)	
Fan and Motor RPM, 60Hz	1140		1140		1140	
60 Hz Fan Tip Speed, FPM (m/sec)	8950 (45)		8950 (45)		8950 (45)	
60 Hz Total Unit Airflow, CFM (l/sec)	81,600 (38,517)		86,904 (41,020)		86,904 (41,020)	
Evaporator - Brazed Plate-to-Plate						
Number of Evaporators	1		1		1	
Number of Refrigerant Circuits	2		2		2	
Water Volume, Gallons, (l)	8.32 (31.5)		9.51 (36.0)		10.7 (40.5)	
Max. Water Pressure, psig (kPA)	653 (4502)		653 (4502)		653 (4502)	
Maximum Refrigerant Working Pressure, psig (kPA)	653 (4502)		653 (4502)		653 (4502)	
Water Inlet / Outlet Victaulic Connection, in. (mm)	3 (80)		3 (80)		3 (80)	
Drain - NPT int, in. (mm) (Note 3)	Field Piping		Field Piping		Field Piping	
Vent - NPT int, in. (mm) (Note 3)	Field Piping		Field Piping		Field Piping	

Nominal capacity based on 95°F ambient air temperature and 54°F/44°F water range.
For all 380V/60 and 575V/60, hp = 2.0.
Water connection shown is nominal pipe size.
Brazed plate evaporators do not have drain or vent connections integral to the heat exchanger. The connections must be installed in the field. Inlet and outlet piping as shown in Piping Section of Catalog 611

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Physical Data - Air-cooled Scroll Compressor Chiller

AGZ 110D through AGZ 130D, Packaged, 380/575-Volt Models

Data	AGZ110DH		AGZ125DH		AGZ130DH	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data						
Unit Capacity @ AHRI Conditions (See Note 1), Tons (kW)	106 (373)		117 (412)		130 (456)	
Number of Refrigerant Circuits	2		2		2	
Unit Operating Charge, R-410A, lbs (kg)	102 (46)	102 (46)	115 (52)	115 (52)	115 (52)	115 (52)
Cabinet Dimensions, L × W × H, in. (mm)	173.1 × 88.0 × 100.4 (4397 × 2235 × 2550)		173.1 × 88.0 × 100.4 (4397 × 2235 × 2550)		173.1 × 88.0 × 100.4 (4397 × 2235 × 2550)	
Unit Operating Weight, lbs (kg)	7060(3202)		7205 (3268)		7260 (3293)	
Unit Shipping Weight, lbs (kg)	6990 (3170)		7125 (3232)		7170 (3252)	
Add'l Weight for Copper Finned Coils, lbs (kg)	1070 (486)		1269 (576)		1269 (576)	
Add'l Weight for Optional Louvers – Upper, lbs (kg)	307 (139)		307 (139)		307 (139)	
Add'l Weight for Optional Louvers – Lower, lbs (kg)	230 (105)		230 (105)		230 (105)	
Compressors						
Type	Trio Scrolls		Trio Scrolls		Trio Scrolls	
Nominal tonnage of each Compressor	20	20	20	25	25	25
Number of Compressors per Circuit	3	3	3	3	3	3
Oil Charge per Compressor, oz (g)	135 (3827)	135 (3827)	135 (3827)	145 (4111)	145 (4111)	145 (4111)
Capacity Reduction Steps – Percent of Compressor Displacement						
Staging, 6 Stages, Circuit #1 in Lead	0-17-33-50-67-83-100		0-15-33-48-67-81-100		0-17-33-50-67-83-100	
Staging, 6 Stages, Circuit #2 in Lead	0-17-33-50-67-83-100		0-19-33-52-67-86-100		0-17-33-50-67-83-100	
Condensers – High Efficiency Fin and Tube Type with Integral Subcooling						
Coil Face Area, ft^2 (m^2)	88.4 (8.2)	88.4 (8.2)	105.3 (9.8)	105.3 (9.8)	105.3 (9.8)	105.3 (9.8)
Finned Height × Finned Length, in. (mm)	42 × 151.6 (1069 × 3851)	42 × 151.6 (1069 × 3851)	50 × 151.6 (1270 × 3851)	50 × 151.6 (1270 × 3851)	50 × 151.6 (1270 × 3851)	50 × 151.6 (1270 × 3851)
Fins per Inch × Rows Deep	16 × 3	16 × 3	16 × 3	16 × 3	16 × 3	16 × 3
Pumpdown Capacity, 90% Full, lbs (kg)	142/64	142/64	166/75	166/75	166/75	166/75
Condenser Fans – Direct-drive Propeller Type						
Number of Fans - Fan Diameter, in. (mm)	8 – 30 (762)		8 – 30 (762)		8 – 30 (762)	
Number of Motors - hp (kW) (Note 2)	8 – 2.0 (1.5)		8 – 2.0 (1.5)		8 – 2.0 (1.5)	
Fan and Motor RPM, 60Hz	1140		1140		1140	
60 Hz Fan Tip Speed, FPM (m/sec)	8950 (45)		8950 (45)		8950 (45)	
60 Hz Total Unit Airflow, CFM (l/sec)	81,600 (38,517)		86,904 (41,020)		86,904 (41,020)	
Evaporator – Shell-and-Tube						
Number of Evaporators	1		1		1	
Number of Refrigerant Circuits	2		2		2	
Water Volume, Gallons, (l)	8.32 (31.5)		9.51 (36.0)		10.7 (40.5)	
Max. Water Pressure, psig (kPA)	653 (4502)		653 (4502)		653 (4502)	
Maximum Refrigerant Working Pressure, psig (kPA)	653 (4502)		653 (4502)		653 (4502)	
Water Inlet / Outlet Victaulic Connection, in. (mm)	3 (80)		3 (80)		3 (80)	
Drain - NPT int, in.	Field Piping		Field Piping		Field Piping	
Vent - NPT int, in.	Field Piping		Field Piping		Field Piping	

Nominal capacity based on 95°F ambient air temperature and 54°F/44°F water range.
For all 380V/60 and 575V/60, hp = 2.0.
Water connection shown is nominal pipe size.
Brazed plate evaporators do not have drain or vent connections integral to the heat exchanger. The connections must be installed in the field. Inlet and outlet piping as shown in Piping Section of Catalog 611.

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Physical Data - Air-cooled Scroll Compressor Chiller

AGZ 140D through AGZ 190D, Packaged

Data	AGZ140DH		AGZ160DH		AGZ180DH		AGZ190DH	
	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2	Circuit 1	Circuit 2
Basic Data								
Unit Capacity @ AHRI Conditions (See Note 1), Tons (kW)	136 (479)		153 (539)		172 (605)		180 (633)	
Number of Refrigerant Circuits	2		2		2		2	
Unit Operating Charge, R-410A, lbs (kg)	125 (57)	125 (57)	130 (59)	130 (59)	130 (59)	130 (59)	140 (64)	140 (64)
Cabinet Dimensions, L × W × H, in. (mm)	218.6 x 88.0 x 100.4 (5552 x 2235 x 2545)		218.6 × 88.0 × 100.4 (5552 × 2235 × 2545)		218.6 × 88.0 × 100.4 (5552 × 2235 × 2545)		256.9 × 88.0 ×100.4 (6525 × 2235 × 2545)	
Unit Operating Weight, lbs (kg)	9432(4278)		9762 (4428)		10107 (4578)		11070 (5015)	
Unit Shipping Weight, lbs (kg)	8950 (4060)		9280 (4209)		9625 (4360)		10585 (4795)	
Add'l Weight for Copper Finned Coils, lbs (kg)	1588 (720)		1588 (720)		1588 (720)		1908 (865)	
Add'l Weight for Optional Louvers – Upper, lbs (kg)	376 (171)		376 (171)		376 (171)		446 (202)	
Add'l Weight for Optional Louvers – Lower, lbs (kg)	225 (102)		225 (102)		225 (102)		323 (146)	
Compressors								
Type	Trio Scrolls		Trio Scrolls		Trio Scrolls		Trio Scrolls	
Nominal tonnage of each Compressor	25	25	25	30	30	30	30	30
Number of Compressors per Circuit	3	3	3	3	3	3	3	3
Oil Charge per Compressor, oz (g)	145 (4111)	145 (4111)	145 (4111)	213 (6038)	213 (6038)	213 (6038)	213 (6038)	213 (6038)
Capacity Reduction Steps – Percent of Compressor Displacement								
Staging, 6 Stages, Circuit #1 in Lead	0-17-33-50-67-83-100		0-15-33-48-67-81-100		0-17-33-50-67-83-100		0-17-33-50-67-83-100	
Staging, 6 Stages, Circuit #2 in Lead	0-17-33-50-67-83-100		0-19-33-52-67-86-100		0-17-33-50-67-83-100		0-17-33-50-67-83-100	
Condensers – High Efficiency Fin and Tube Type with Integral Subcooling								
Coil Face Area, ft^2 (m^2)	131.8 (12.2)	131.8 (12.2)	131.8 (12.2)	131.8 (12.2)	131.8 (12.2)	131.8 (12.2)	158.3 (14.7)	158.3 (14.7)
Finned Height × Finned Length, in. (mm)	50 x 190 (1270 x 4821)	50 x 190 (1270 x 4821)	50 × 190 (1270 × 4821)	50 × 190 (1270 × 4821)	50 × 190 (1270 × 4821)	50 × 190 (1270 × 4821)	50 × 228 (1270 × 5791)	50 × 228 (1270 × 5791)
Fins per Inch × Rows Deep	16 x 3	16 x 3	16 x 3	16 x 3	16 x 3	16 x 3	16 x 3	16 x 3
Pumpdown Capacity, 90% Full, lbs (kg)	202 (92)	202 (92)	202 (92)	202 (92)	202 (92)	202 (92)	242 (110)	242 (110)
Condenser Fans – Direct-drive Propeller Type								
Number of Fans - Fan Diameter, in. (mm)	10 – 30 (762)		10 – 30 (762)		10 – 30 (762)		12 – 30 (762)	
Number of Motors - hp (kW) (Note 2)	10 – 2.0 (1.5)		10 – 2.0 (1.5)		10 – 2.0 (1.5)		12 - 2.0 (1.5)	
Fan and Motor RPM, 60Hz	1140		1140		1140		1140	
60 Hz Fan Tip Speed, FPM (m/sec)	8950 (45)		8950 (45)		8950 (45)		8950 (45)	
60 Hz Total Unit Airflow, CFM (l/sec)	108,630 (51,268)		108,630 (51,268)		108,630 (51,268)		130,356 (61,522)	
Evaporator - Shell-and-Tube								
Number of Evaporators	1		1		1		1	
Number of Refrigerant Circuits	2		2		2		2	
Water Volume, Gallons, (l)	60 (227)		60 (227)		58 (219)		57 (215)	
Max. Water Pressure, psig (kPA)	152 (1048)		152 (1048)		152 (1048)		152 (1048)	
Maximum Refrigerant Working Pressure, psig (kPA)	450 (3103)		450 (3103)		450 (3103)		450 (3103)	
Water Inlet / Outlet Victaulic Connection, in. (mm)	8.0 (200)		8.0 (200)		8.0 (200)		8.0 (200)	
Drain - NPT int, in.	1/2-in. NPTF		1/2-in. NPTF		1/2-in. NPTF		1/2-in. NPTF	
Vent - NPT int, in.	1/2-in. NPTF		1/2-in. NPTF		1/2-in. NPTF		1/2-in. NPTF	

Nominal capacity based on 95°F ambient air temperature and 54°F/44°F water range.
For all 380V/60 and 575V/60, hp = 2.0.
Water connection shown is nominal pipe size.
Brazed plate evaporators do not have drain or vent connections integral to the heat exchanger. The connections must be installed in the field. Inlet and outlet piping as shown in Piping Section of Catalog 611.

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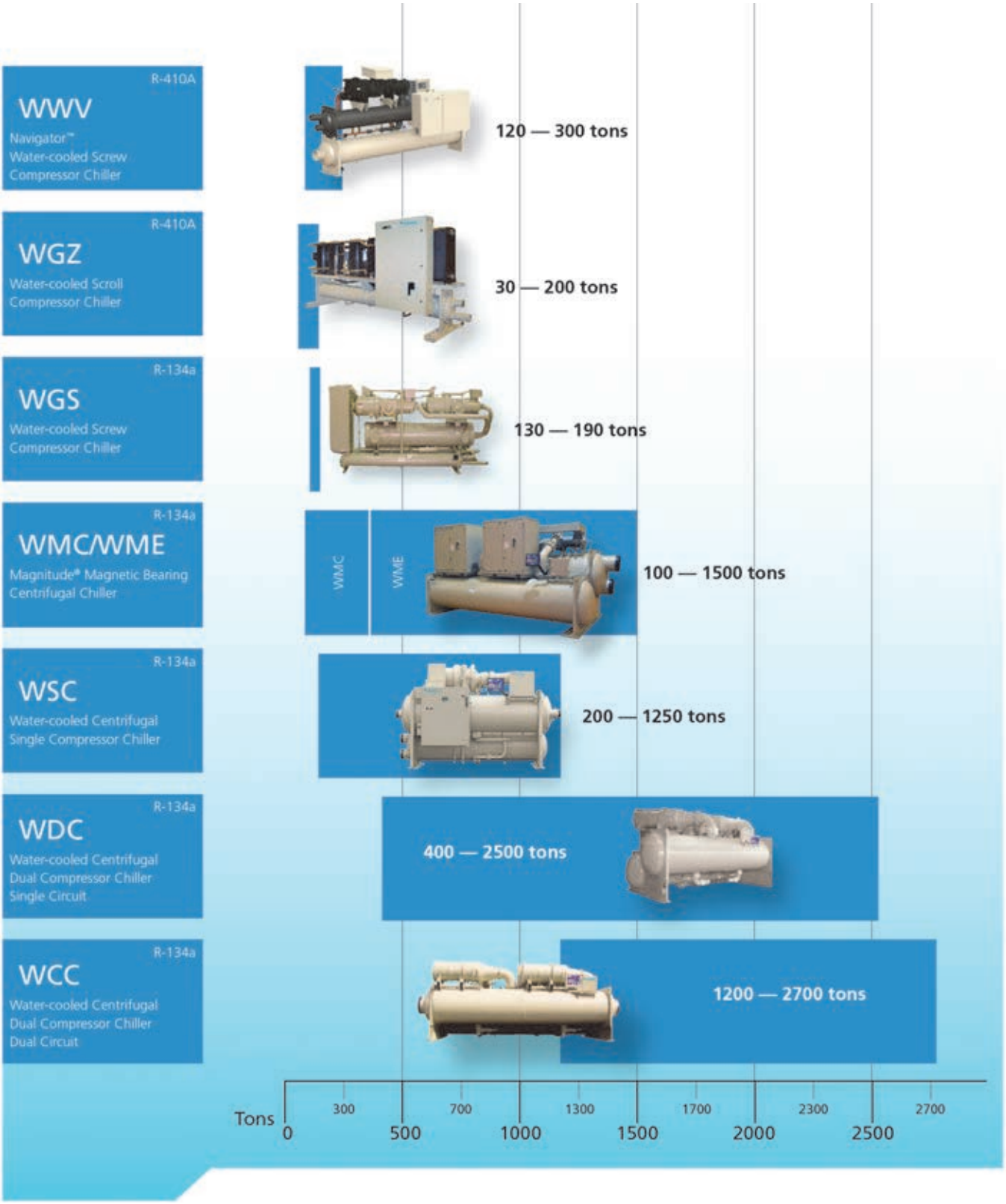
Water-cooled Chillers

Product Summary Chart

Model:



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Physical Data-WWV Water-cooled Screw Compressor Packaged Chiller

Unit Dimensions and Shipping Weight

Figure 3: WWV Single Compressor Unit

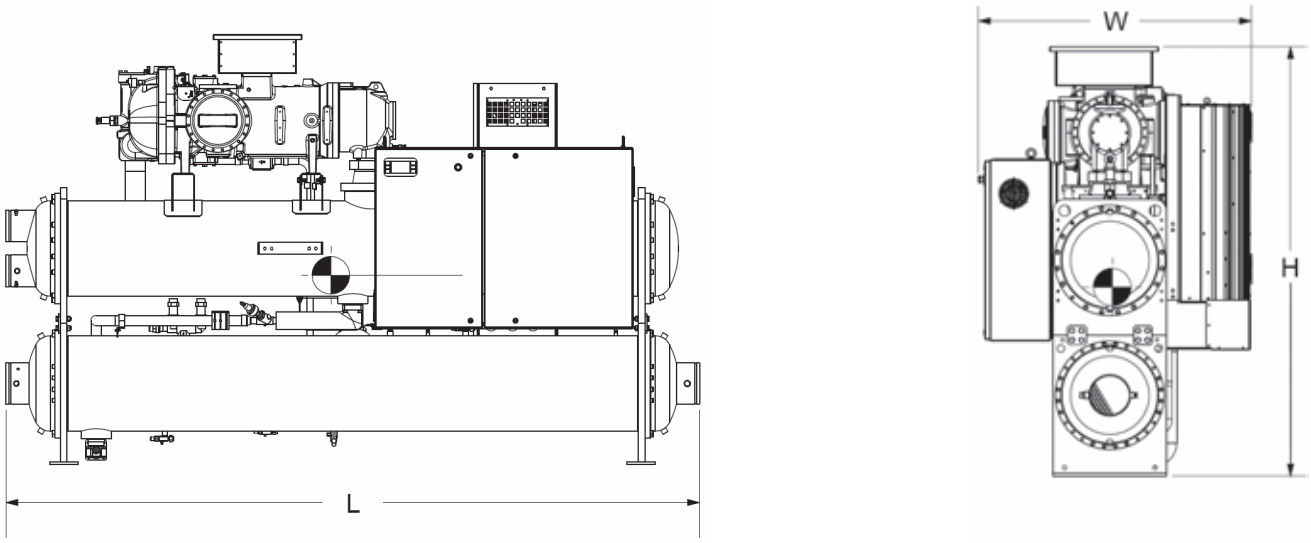

Table 2: WWV Single Dimensions and Shipping Weights

	Evaporator		Condenser						
Compressor	Size	Tube Count	Size	Tube Count	Length (in)	Width (in)	Height (in)	Shipping Weight	Operating Weight
J	E1610	KB	C1810	KB	146.5	55.1	84.8	4648 lbs	6518 lbs
J	E1610	JB	C1810	JB	146.5	55.1	84.8	4779 lbs	6567 lbs
J	E1610	HB	C2010	JB	147.6	55.1	84.8	5351 lbs	7302 lbs
M	E1610	HB	C1810	HB	146.5	55.1	84.8	4885 lbs	6624 lbs
M	E1610	HB	C2010	JB	147.6	55.1	84.8	5520 lbs	7471 lbs
M	E1610	GB	C2010	JB	147.6	55.1	84.8	5632 lbs	7553 lbs
M	E1610	GB	C2010	JB	147.6	55.1	84.8	5510 lbs	7431 lbs
M	E2010	HB	C2010	HB	145.3	57.1	90.2	6032 lbs	8361 lbs
M	E2010	GB	C2010	HB	145.3	57.1	90.2	6447 lbs	8707 lbs
M	E2410	HB	C2410	JB	150.5	61.6	97.7	7940 lbs	11373 lbs
R	E2010	HB	C2010	HB	145.3	57.1	90.2	7511 lbs	9840 lbs
R	E2410	JB	C2410	JB	150.5	61.6	97.9	9343 lbs	12810 lbs
R	E2410	HB	C2410	JB	150.5	61.6	97.9	9377 lbs	12810 lbs
R	E2410	GB	C2410	HB	150.5	61.6	97.9	9617 lbs	12899 lbs

NOTE: See certified drawings for additional dimensional data

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Physical Data-WGZ Water-cooled Scroll Compressor Packaged Chiller

WGZ 030D through 055D

WGZ unit size	30		35		40		45		50		55	
Unit capacity @ AHRI tons, (kW) (Note 1)	30.0 (105.5)		34.6 (121.7)		40.7 (143.1)		45.5 (160.0)		51.4 (180.7)		56.4 (198.3)	
Number of Circuits	2		2		2		2		2		2	
Compressors												
Nominal Tons	7.5	7.5	9	9	10	10	12	12	13	13	13	15
Number Per Circuit	2	2	2	2	2	2	2	2	2	2	2	2
Capacity reduction steps percent of compressor displacement												
Staging, Circuit #1 in Lead	25 / 50 / 75 / 100		25 / 50 / 75 / 100		25 / 50 / 75 / 100		25 / 50 / 75 / 100		25 / 50 / 75 / 100		23 / 50 / 73 / 100	
Staging, Circuit #2 in Lead	25 / 50 / 75 / 100		25 / 50 / 75 / 100		25 / 50 / 75 / 100		25 / 50 / 75 / 100		25 / 50 / 75 / 100		27 / 50 / 77 / 100	
Oil Charge per Compressor- oz. (l)	85 (2.5)		110 (3.3)		110 (3.3)		110 (3.3)		110 (3.3)		110 (3.3)	
Condenser												
Number	1		1		1		1		1		1	
No. Refrigerant Circuits	2		2		2		2		2		2	
Diameter- in. (mm)	10 (254)		10 (254)		10 (254)		10 (254)		10 (254)		10 (254)	
Tube Length-in. (mm)	120 (3048)		120 (3048)		120 (3048)		120 (3048)		120 (3048)		120 (3048)	
Design working pressure psig, (kPA):												
Refrigerant Side	500 (3447)		500 (3447)		500 (3447)		500 (3447)		500 (3447)		500 (3447)	
Water Side	232 (1599)		232 (1599)		232 (1599)		232 (1599)		232 (1599)		232 (1599)	
Pump-Out Capacity lb. (kg) (Note 2)	245.8 (111.7)		245.8 (111.7)		228.2 (103.7)		228.2 (103.7)		205.4 (93.4)		205.4 (93.4)	
Connections												
Victaulic Conn. In & Out - in. (mm)	4 (102)		4 (102)		4 (102)		4 (102)		4 (102)		4 (102)	
Relief Valve, Flare - in. (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)	
Purge Valve, Flare - in. (mm)	1/2 (12.7)		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)	
Vent & Drain - in. (mm) NPT	1/4 (6.4)		1/4 (6.4)		1/4 (6.4)		1/4 (6.4)		1/4 (6.4)		1/4 (6.4)	
Liquid Subcooling	Integral		Integral		Integral		Integral		Integral		Integral	
Evaporator, brazed plate												
Number	1		1		1		1		1		1	
No. Refrigerant Circuits	2		2		2		2		2		2	
Water Volume- gal (l)	1.6 (6.1)		1.8 (6.8)		2.0 (7.6)		2.3 (8.7)		2.6 (9.8)		2.8 (10.6)	
Design working pressure- psig, (kPA):												
Refrigerant Side	653 (4500)		653 (4500)		653 (4500)		653 (4500)		653 (4500)		653 (4500)	
Water Side	653 (4500)		653 (4500)		653 (4500)		653 (4500)		653 (4500)		653 (4500)	
Water connections												
Victaulic Conn. In & Out - in. (mm)	2.5 (65)		2.5 (65)		2.5 (65)		2.5 (65)		2.5 (65)		2.5 (65)	
Relief Valve, Flare - in. (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)	
Vent & Drain	Field		Field		Field		Field		Field		Field	
Unit dimensions												
Length - in. (mm)	136.0 (3455)		136.0 (3455)		136.0 (3455)		136.0 (3455)		136.0 (3455)		136.0 (3455)	
Width - in. (mm)	32.8 (832)		32.8 (832)		32.8 (832)		32.8 (832)		32.8 (832)		32.8 (832)	
Height - in. (mm)	63.4 (1609)		63.4 (1609)		63.4 (1609)		63.4 (1609)		63.4 (1609)		63.4 (1609)	
Unit weights												
Operating Weight - lb. (kg)	2484 (1127)		2564 (1163)		2615 (1186)		2631 (1193)		2719 (1233)		2731 (1239)	
Shipping Weight - lb. (kg)	2408 (1092)		2488 (1129)		2523 (1144)		2539 (1152)		2606 (1182)		2618 (1188)	
Cir #1 R410A Oper Charge - lb. (kg)	43 (19.5)		43 (19.5)		43 (19.5)		47 (21.4)		47 (21.4)		50 (22.7)	
Cir #2 R410A Oper Charge - lb. (kg)	43 (19.5)		43 (19.5)		43 (19.5)		47 (21.4)		47 (21.4)		50 (22.7)	

1. Capacity certified in accordance with AHRI Standard 550/590.
2. 90% full R410A at 90°F (32°C).

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Physical Data-WGZ Water-cooled Scroll Compressor Packaged Chiller

WGZ 060D through 100D

WGZ unit size	60		70		80		90		100	
Unit capacity @ AHRI tons, (kW) (Note 1)	60.5 (212.7)		70.2 (246.8)		78.3 (275.3)		87.1 (306.3)		97.8 (343.9)	
Number of Circuits	2		2		2		2		2	
Compressors										
Nominal Tons	15	15	15 / 20	15 / 20	20	20	20 / 26	20 / 26	26	26
Number Per Circuit	2	2	2	2	2	2	2	2	2	2
Capacity reduction steps percent of compressor displacement										
Staging, Circuit #1 in Lead	25 / 50 / 75 / 100		22 / 50 / 72 / 100		25 / 50 / 75 / 100		22 / 50 / 72 / 100		25 / 50 / 75 / 100	
Staging, Circuit #2 in Lead	25 / 50 / 75 / 100		22 / 50 / 72 / 100		25 / 50 / 75 / 100		22 / 50 / 72 / 100		25 / 50 / 75 / 100	
Oil Charge per Compressor- oz. (l)	110 (3.3)		110 (3.3)	110 (3.3)	145 (4.3)		145 (4.3)		145 (4.3)	
			145 (4.3)	145 (4.3)						
Condenser										
Number	1		1		1		1		1	
No. Refrigerant Circuits	2		2		2		2		2	
Diameter- in. (mm)	10 (254)		14 (356)		14 (356)		14 (356)		14 (356)	
Tube Length-in. (mm)	120 (3048)		120 (3048)		120 (3048)		120 (3048)		120 (3048)	
Design working pressure psig, (kPA):										
Refrigerant Side	500 (3447)		500 (3447)		500 (3447)		500 (3447)		500 (3447)	
Water Side	232 (1599)		232 (1599)		232 (1599)		232 (1599)		232 (1599)	
Pump-Out Capacity lb. (kg) (Note 2)	205.4 (93.4)		415.1 (188.7)		397.5 (180.7)		371.1 (168.7)		344.7 (156.7)	
Connections										
Victaulic Conn. In & Out - in. (mm)	4 (102)		4 (102)		4 (102)		4 (102)		4 (102)	
Relief Valve, Flare - in. (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)	
Purge Valve, Flare - in. (mm)	1/2 (12.7)		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)	
Vent & Drain - in. (mm) NPT	1/4 (6.4)		1/4 (6.4)		1/4 (6.4)		1/4 (6.4)		1/4 (6.4)	
Liquid Subcooling	Integral		Integral		Integral		Integral		Integral	
Evaporator, brazed plate										
Number	1		1		1		1		1	
No. Refrigerant Circuits	2		2		2		2		2	
Water Volume- gal (l)	3.2 (12.0)		5.6 (21.2)		6.3 (23.8)		6.8 (25.7)		8.0 (30.2)	
Design working pressure- psig, (kPA):										
Refrigerant Side	653 (4500)		653 (4500)		653 (4500)		653 (4500)		653 (4500)	
Water Side	653 (4500)		653 (4500)		653 (4500)		653 (4500)		653 (4500)	
Water connections										
Victaulic Conn. In & Out - in. (mm)	2.5 (65)		3 (76)		3 (76)		3 (76)		3 (76)	
Relief Valve, Flare - in. (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)	
Vent & Drain	Field		Field		Field		Field		Field	
Unit dimensions										
Length - in. (mm)	136.0 (3455)		145.5 (3695)		149.6 (3799)		149.4 (3795)		149.4 (3795)	
Width - in. (mm)	32.8 (832)		35.0 (889)		35.0 (889)		35.0 (889)		35.0 (889)	
Height - in. (mm)	63.4 (1609)		65.5 (1664)		65.5 (1664)		65.5 (1664)		65.5 (1664)	
Unit weights										
Operating Weight - lb. (kg)	2771 (1257)		3696 (1676)		4128 (1872)		4320 (1960)		4515 (2048)	
Shipping Weight - lb. (kg)	2658 (1206)		3555 (1613)		3971 (1801)		4140 (1878)		4311 (1955)	
Cir #1 R410A Oper Charge - lb. (kg)	50 (22.7)		74 (33.6)		80 (36.4)		80 (36.4)		90 (40.9)	
Cir #2 R410A Oper Charge - lb. (kg)	50 (22.7)		74 (33.6)		80 (36.4)		80 (36.4)		90 (40.9)	

1. Capacity certified in accordance with AHRI Standard 550/590.
2. 90% full R410A at 90°F (32°C).

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Physical Data-WGZ Water-cooled Scroll Compressor Packaged Chiller

WGZ 115D through 200D

WGZ unit size	115		130		150		170		200	
Unit capacity @ AHRI tons, (kW) (Note 1)	112.9 (397.0)		126.7 (445.5)		148.2 (521.1)		169.3 (595.3)		188.1 (661.4)	
Number of Circuits	2		2		2		2		2	
Compressors										
Nominal Tons	26/30	26/30	30	30	26	26	26	30	30	30
Number Per Circuit	2	2	2	2	3	3	3	3	3	3
Capacity reduction steps percent of compressor displacement										
Staging, Circuit #1 in Lead	22 / 50 / 72 / 100		25 / 50 / 75 / 10		17 / 33 / 50 / 67 / 83 / 100		15 / 33 / 48 / 67 / 81 / 100		17 / 33 / 50 / 67 / 83 / 100	
Staging, Circuit #2 in Lead	22 / 50 / 72 / 100		25 / 50 / 75 / 100		17 / 33 / 50 / 67		19 / 33 / 52 / 67 / 86 / 100		17 / 33 / 50 / 67 / 83 / 100	
Oil Charge per Compressor- oz. (l)	145 (4.3)	145 (4.3)	213 (6.3)		145 (4.3)		213 (6.3)		213 (6.3)	
	213 (6.3)	213 (6.3)								
Condenser										
Number	1		1		1		1		1	
No. Refrigerant Circuits	2		2		2		2		2	
Diameter- in. (mm)	14 (356)		14 (356)		16 (406.4)		16 (406.4)		16 (406.4)	
Tube Length-in. (mm)	120 (3048)		120 (3048)		144 (3658)		144 (3658)		144 (3658)	
Design working pressure psig, (kPA):										
Refrigerant Side	500 (3447)		500 (3447)		500 (3447)		500 (3447)		500 (3447)	
Water Side	232 (1599)		232 (1599)		232 (1599)		232 (1599)		232 (1599)	
Pump-Out Capacity lb. (kg) (Note 2)	344.7 (156.7)		344.7 (156.7)		572.3 (260.1)		508.9 (231.3)		508.9 (231.3)	
Connections										
Victaulic Conn. In & Out - in. (mm)	4 (102)		4 (102)		5 (127)		5 (127)		5 (127)	
Relief Valve, Flare - in. (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)	
Purge Valve, Flare - in. (mm)	1/2 (12.7)		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)	
Vent & Drain - in. (mm) NPT	1/4 (6.4)		1/4 (6.4)		1/4 (6.4)		1/4 (6.4)		1/4 (6.4)	
Liquid Subcooling	Integral		Integral		Integral		Integral		Integral	
Evaporator, brazed plate					**Shell and Tube**					
Number	1		1		1		1		1	
No. Refrigerant Circuits	2		2		2		2		2	
Water Volume- gal (l)	9.6 (36.3)		10.8 (40.9)		57.6 (218.0)		56.9 (215.4)		56.9 (215.4)	
Design working pressure- psig, (kPA):										
Refrigerant Side	653 (4500)		653 (4500)		450 (3102)		450 (3102)		450 (3102)	
Water Side	653 (4500)		653 (4500)		150 (1034)		150 (1034)		150 (1034)	
Water connections										
Victaulic Conn. In & Out - in. (mm)	3 (76)		3 (76)		8 (203)		8 (203)		8 (203)	
Relief Valve, Flare - in. (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)	
Vent & Drain	Field		Field		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)	
Unit dimensions										
Length - in. (mm)	149.4 (3795)		149.4 (3795)		170.3 (4326)		170.3 (4326)		170.3 (4326)	
Width - in. (mm)	35.0 (889)		35.0 (889)		37.1 (927)		37.1 (927)		37.1 (927)	
Height - in. (mm)	65.5 (1664)		65.5 (1664)		76.9 (1953)		76.9 (1953)		77.7(1974)	
Unit weights										
Operating Weight - lb. (kg)	4434 (2011)		4737 (2149)		6662 (3022)		7214 (3272)		7509 (3406)	
Shipping Weight - lb. (kg)	4230 (1919)		4533 (2056)		5873 (2664)		6377 (2893)		6672 (3026)	
Cir #1 R410A Oper Charge - lb. (kg)	100 (45.5)		100 (45.5)		150 (68.2)		150 (68.2)		150 (68.2)	
Cir #2 R410A Oper Charge - lb. (kg)	100 (45.5)		100 (45.5)		150 (68.2)		150 (68.2)		150 (68.2)	

1. Capacity certified in accordance with AHRI Standard 550/590.
2. 90% full R410A at 90°F (32°C).

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Physical Data-WGZ Water-cooled Scroll Compressor Chiller with Remote Condenser

WGZ 030D through 055D, Less Condenser

WGZ unit size	30		35		40		45		50		55	
Tons (kW) (at 44°F LWT/125°F SDT)	26.9 (94.6)		31.2 (109.7)		36.2 (127.3)		40.3 (141.7)		46.3 (162.8)		50.6 (177.9)	
Number of Circuits	2		2		2		2		2		2	
Compressors												
Nominal Tons	7.5	7.5	9	9	10	10	12	12	13	13	13	15
Number Per Circuit	2	2	2	2	2	2	2	2	2	2	2	2
Capacity reduction steps percent of compressor displacement												
Staging, Circuit #1 in Lead	25 / 50 / 75 / 100		25 / 50 / 75 / 100		25 / 50 / 75 / 100		25 / 50 / 75 / 100		25 / 50 / 75 / 100		23 / 50 / 73 / 100	
Staging, Circuit #2 in Lead	25 / 50 / 75 / 100		25 / 50 / 75 / 100		25 / 50 / 75 / 100		25 / 50 / 75 / 100		25 / 50 / 75 / 100		27 / 50 / 77 / 100	
Oil Charge per Compressor- oz. (l)	85 (2.5)		110 (3.3)		110 (3.3)		110 (3.3)		110 (3.3)		110 (3.3)	
Evaporator, brazed plate												
No. Refrigerant Circuits	2		2		2		2		2		2	
Water Volume- gal (l)	1.6 (6.1)		1.8 (6.8)		2.0 (7.6)		2.3 (8.7)		2.6 (9.8)		2.8 (10.6)	
Design Working Pressure psig, (kPA):												
Refrigerant Side	653 (4500)		653 (4500)		653 (4500)		653 (4500)		653 (4500)		653 (4500)	
Water Side	653 (4500)		653 (4500)		653 (4500)		653 (4500)		653 (4500)		653 (4500)	
Victaulic Conn. In & Out - in. (mm)	2.5 (65)		2.5 (65)		2.5 (65)		2.5 (65)		2.5 (65)		2.5 (65)	
Relief Valve, Flare - in. (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)	
Vent & Drain	Field		Field		Field		Field		Field		Field	
Unit dimensions												
Length - in. (mm)	137.0 (3480)		137.0 (3480)		137.0 (3480)		137.0 (3480)		137.0 (3480)		137.0 (3480)	
Width - in. (mm)	34.0 (864)		34.0 (864)		34.0 (864)		34.0 (864)		34.0 (864)		34.0 (864)	
Height - in. (mm)	60.0 (1524)		60.0 (1524)		60.0 (1524)		60.0 (1524)		60.0 (1524)		60.0 (1524)	
Unit weights												
Operating Weight - lb. (kg)	1604 (728)		1690 (767)		1699 (771)		1719 (780)		1740 (789)		1755 (796)	
Shipping Weight - lb. (kg)	1578 (716)		1662 (754)		1669 (757)		1685 (764)		1702 (772)		1714 (778)	

1. Nominal capacity based on unit capacity without derate for refrigerant piping losses.

WGZ 060D through 100D, Less Condenser

WGZ unit size	60		70		80		90		100	
Tons (kW) (at 44°F LWT/125°F SDT)	55.0 (193.4)		62.5 (219.8)		70.7 (248.6)		79.3 (278.8)		88.7 (311.9)	
Number of Circuits	2		2		2		2		2	
Compressors										
Nominal Tons	15	15	15 / 20	15 / 20	20	20	20 / 26	20 / 26	26	26
Number Per Circuit	2	2	2	2	2	2	2	2	2	2
Capacity reduction steps percent of compressor displacement										
Staging, Circuit #1 in Lead	25 / 50 / 75 / 100		22 / 50 / 72 / 100		25 / 50 / 75 / 100		22 / 50 / 72 / 100		25 / 50 / 75 / 100	
Staging, Circuit #2 in Lead	25 / 50 / 75 / 100		22 / 50 / 72 / 100		25 / 50 / 75 / 100		22 / 50 / 72 / 100		25 / 50 / 75 / 100	
Oil Charge per Compressor- oz. (l)	110 (3.3)		110 (3.3) 145 (4.3)	110 (3.3) 145 (4.3)	145 (4.3)		145 (4.3)		145 (4.3)	
Evaporator, brazed plate										
No. Refrigerant Circuits	2		2		2		2		2	
Water Volume- gal (l)	3.2 (12.0)		5.6 (21.2)		6.3 (23.8)		6.8 (25.7)		8.0 (30.2)	
Design working pressure- psig, (kPA):										
Refrigerant Side	653 (4500)		653 (4500)		653 (4500)		653 (4500)		653 (4500)	
Water Side	653 (4500)		653 (4500)		653 (4500)		653 (4500)		653 (4500)	
Victaulic Conn. In & Out - in. (mm)	2.5 (63)		3 (76)		3 (76)		3 (76)		3 (76)	
Relief Valve, Flare - in. (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)	
Vent & Drain	Field		Field		Field		Field		Field	
Unit dimensions										
Length - in. (mm)	137.0 (3480)		144.0 (3658)		144.0 (3658)		144.0 (3658)		144.0 (3658)	
Width - in. (mm)	34.0 (864)		34.0 (864)		34.0 (864)		34.0 (864)		34.0 (864)	
Height - in. (mm)	60.0 (1524)		60.0 (1524)		60.0 (1524)		60.0 (1524)		60.0 (1524)	
Unit weights										
Operating Weight - lb. (kg)	1786 (810)		2296 (1041)		2649 (1202)		2778 (1260)		2923 (1326)	
Shipping Weight - lb. (kg)	1741 (790)		2228 (1010)		2579 (1170)		2701 (1225)		2841 (1289)	

1. Nominal capacity based on unit capacity without derate for refrigerant piping losses.

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Physical Data-WGZ Water-cooled Scroll Compressor Chiller with Remote Condenser

WGZ 115D through 200D, Less Condenser

WGZ Unit Size	115		130		150		170		200	
Tons (kW) (at 44°F LWT/125°F SDT)	101.9 (358.3)		115.1 (404.7)		133.1 (468.0)		153.7 (540.4)		174.3 (612.8)	
Number of Circuits	2		2		2		2		2	
Compressors										
Nominal Tons	26/30	26/30	30	30	26	26	26	30	30	30
Number Per Circuit	2	2	2	2	3	3	3	3	3	3
Capacity reduction steps percent of compressor displacement										
Staging, Circuit #1 in Lead	22 / 50 / 72 / 100		25 / 50 / 75 / 100		17 / 33 / 50 / 67 / 83		15 / 33 / 48 / 67 / 81		17 / 33 / 50 / 67 / 83	
Staging, Circuit #2 in Lead	22 / 50 / 72 / 100		25 / 50 / 75 / 100		17 / 33 / 50 / 67 / 83		19 / 33 / 52 / 67 / 86		17 / 33 / 50 / 67 / 83	
Oil Charge per Compressor - oz. (l)	145 (4.3)	145 (4.3)	213 (6.3)		145 (4.3)		145 (4.3)	213 (6.3)	213 (6.3)	
	213 (6.3)	213 (6.3)								
Evaporator, brazed plate										
No. Refrigerant Circuits	2		2		2		2		2	
Water Volume- gal (l)	8.5 (32.1)		10.5 (39.7)		57.6 (218.0)		56.9 (215.4)		56.9 (215.4)	
Design working pressure- psig, (kPA):										
Refrigerant Side	653 (4500)		653 (4500)		450 (3102)		450 (3102)		450 (3102)	
Water Side	653 (4500)		653 (4500)		150 (1034)		150 (1034)		150 (1034)	
Victaulic Conn. In & Out - in. (mm)	3 (76)		3 (76)		8 (203)		8 (203)		8 (203)	
Relief Valve, Flare - in. (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)	
Vent & Drain	Field		Field		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)	
Unit dimensions										
Length - in. (mm)	144.0 (3658)		144.0 (3658)		154.0 (3912)		154.0 (3912)		154.0 (3912)	
Width - in. (mm)	34.0 (864)		34.0 (864)		34.0 (864)		34.0 (864)		34.0 (864)	
Height - in. (mm)	60.0 (1524)		60.0 (1524)		75.0 (1905)		75.0 (1905)		75.0 (1905)	
Unit weights										
Operating Weight - lb. (kg)	2878 (1305)		3196 (1450)		4571 (2073)		4841 (2196)		5134 (2334)	
Shipping Weight - lb. (kg)	2792 (1266)		3094 (1403)		4071 (1847)		4347 (1972)		4640 (2105)	

1. Nominal capacity based on unit capacity without derate for refrigerant piping losses.

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Physical Data-WGS Water-cooled Screw Compressor Packaged Chiller

WGS 130AW through 190AW, Packaged

Physical data	130AW	140AW	160AW	170AW	190AW
Unit capacity @ AHRI conditions tons, (kW)[1]	130.0 (457.1)	140.7 (494.7)	156.7 (551.0)	169.6 (596.3)	182.1 (640.3)
No. circuits	2	2	2	2	2
Compressors					
Nominal horsepower	65 / 65	65 / 80	80 / 80	80 / 95	95 / 95
Number[2]	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
% minimum capacity (modulated)[3]	15	13/17	15	14/16	15
Oil charge per compressor, oz (L)	256 (7.6)	256 (7.6)	256 (7.6)	256 (7.6)	256 (7.6)
Condenser					
Number	2	2	2	2	2
No. refrigerant circuits per condenser	1	1	1	1	1
Diameter, in (mm)	12 (305)	12 (305)	12 (305)	12 (305)	12 (305)
Tube length, in (mm)	120 (3048)	120 (3048)	120 (3048)	120 (3048)	120 (3048)
Design w.p. psig, (kPA): refrigerant side	350 (2413)	350 (2413)	350 (2413)	350 (2413)	350 (2413)
Design w.p. psig, (kPA): water side	225 (1551)	225 (1551)	225 (1551)	225 (1551)	225 (1551)
No. of passes	2	2	2	2	2
Pump-out capacity per circuit, lb (kg)[4]	330 (150)	330 (150)	330 (150)	296 (134)	296 (134)
Connections: water in and out, in, (mm) victaulic	4.0 (101)	4.0 (101)	4.0 (101)	4.0 (101)	4.0 (101)
Connections: relief valve, in (mm)	0.5 (12.7)	0.5 (12.7)	0.5 (12.7)	0.5 (12.7)	0.5 (12.7)
Connections: purge valve, flare in (mm)	.625 (15.9)	.625 (15.9)	.625 (15.9)	.625 (15.9)	.625 (15.9)
Connections: vent and drain, in (mm) FPT	0.5 (12.7)	0.5 (12.7)	0.5 (12.7)	0.5 (12.7)	0.5 (12.7)
Connections: liquid subcooling	Integral	Integral	Integral	Integral	Integral
Evaporator					
Number	1	1	1	1	1
No. refrigerant circuits	2	2	2	2	2
Water volume, gallons, (L)	68 (257)	68 (257)	115 (435)	115 (435)	115 (435)
Refrig. side D.W.P., psig, (kPA)	354 (2441)	354 (2441)	354 (2441)	354 (2441)	354 (2441)
Water side D.W.P., psig, (kPA)	150 (1034)	150 (1034)	150 (1034)	150 (1034)	150 (1034)
Water connections: inlet and outlet, in (mm) victaulic6.0	6.0 (152)	6.0 (152)	8.0 (203)	8.0 (203)	8.0 (203)
Water connections: drain and vent (NPT int.)	0.5	0.5	0.5	0.5	0.5
Unit dimensions[5]					
Length - in. (mm)	169.9 (4315)	169.9 (4315)	169.9 (4315)	169.9 (4315)	169.9 (4315)
Width - in. (mm)	34 (864)	34 (864)	34 (864)	34 (864)	34 (864)
Height - in. (mm)	74.6 (1895)	74.6 (1895)	76.6 (1946)	76.6 (1946)	76.6 (1946)
Unit weights					
Operating Weight - lb. (kg)	8557 (3881)	8557 (3881)	9314 (4225)	9505 (4311)	9505 (4311)
Shipping Weight - lb. (kg)	7840 (3556)	7840 (3556)	8206 (3722)	8345 (3785)	8345 (3785)
Operating charge per circuit, R-134a, lb (kg)	127 (58)	127 (58)	128 (58)	124 (56)	124 (56)

1. Certified in accordance with AHRI Standard 550/590-98.
2. All units have one compressor per circuit.
3. 80% full R-134a at 90°F (32°C) per refrigerant circuit.
4. On units with mixed capacity compressors, the minimum capacity depends on which compressor is lag.
5. Without sound enclosure – see dimension drawing for enclosure dimensions.

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Physical Data-WGS Water-cooled Screw Compressor Chiller with Remote Condenser

WGS 130AA through 190AA

Physical data	130AA	140AA	160AA	170AA	190AA
Unit capacity @ 44°F LWT and 125°F SDT tons, (kW)	116.0 (407.9)	125.9 (442.7)	136.1 (478.5)	148.0 (520.4)	148.0 (520.4)
No. circuits	2	2	2	2	2
Compressors					
Nominal horsepower	65 / 65	65 / 80	80 / 80	80 / 95	95 / 95
Number[1]	1 / 1	1 / 1	1 / 1	1 / 1	1 / 1
% minimum capacity (modulated)[2]	15	13/17	15	14/16	15
Oil charge per compressor, oz (L)	256 (7.6)	256 (7.6)	256 (7.6)	256 (7.6)	256 (7.6)
Condenser					
	Remote				
Evaporator					
Number	1	1	1	1	1
No. refrigerant circuits per condenser	2	2	2	2	2
Water volume, gallons (L)	68 (257)	68 (257)	115 (435)	115 (435)	115 (435)
Refrig. side D.W.P., psig, (kPA)	354 (2441)	354 (2441)	354 (2441)	354 (2441)	354 (2441)
Water side D.W.P., psig, (kPA)	150 (1034)	150 (1034)	150 (1034)	150 (1034)	150 (1034)
Water connections: inlet and outlet, in (mm) victaulic	6.0 (152)	6.0 (152)	8.0 (203)	8.0 (203)	8.0 (203)
Water connections: drain and vent (NPT int.)	0.5	0.5	0.5	0.5	0.5
Unit dimensions[4]					
Length - in. (mm)	179.3 (4554)	179.3 (4554)	179.3 (4554)	179.3 (4554)	179.3 (4554)
Width – in. (mm)	34.0 (864)	34.0 (864)	34.0 (864)	34.0 (864)	34.0 (864)
Height – in. (mm)	60.8 (1544)	60.8 (1544)	62.8 (1595)	62.8 (1595)	62.8 (1595)
Unit weights[5]					
Operating Weight - lb. (kg)	6265 (2841)	6265 (2841)	7022 (3185)	7022 (3185)	7022 (3185)
Shipping Weight - lb. (kg)	5659 (2567)	5659 (2567)	6024 (2732)	6024 (2732)	6024 (2732)
Operating charge per circuit, lb (kg)[5]	35 (15.9)	35 (15.9)	36 (16.5)	36 (16.5)	36 (16.5)

1. All units have one compressor per circuit.
2. On units with mixed capacity compressors, the minimum capacity depends on which compressor is lag.
3. Without sound enclosure – see dimension drawing for enclosure dimensions.
4. Add 650 lbs (295 kg) for sound enclosure.
5. Indoor unit only. Does not include field piping or condenser charge. System charge of R-134a supplied by the installing contractor.

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Physical Data-WME Water-cooled Screw Compressor Chiller with Remote Condenser

WME Weights and Overall Dimensions (2-pass with Right-hand Connections)

For the most current information on the Magnitude WME unit, please visit DaikinApplied.com/Magnitude.

Unit	WME0500S				WME0700S	
	E3012 C2612		E3612 C3012		E3612 C3012	E3612 C3612
	M2 Motor	M3 Motor	M2 Motor	M3 Motor	M4 Motor	M4 Motor
	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)
Length	148 (3764)	148 (3764)	148 (3764)	148 (3764)	148 (3764)	148 (3764)
Width	68 (1737)	71 (1796)	75 (1903)	77 (1962)	77 (1962)	79 (2012)
Height	95 (2421)	95 (2421)	99 (2523)	99 (2523)	99 (2523)	105 (2662)
Operating Weight, lbs (kg)	15,036 (6,820)	16,086 (7,297)	19,580 (8,882)	20,630 (9,358)	22,010 (9,984)	25,255 (11,455)

Physical Data-Model WSC Series Single Compressor Chiller

Chiller model	Nominal capacity tons (kW)	Dimensions (in)[1]			Max. unit operating weight (lb)[1]
		Maximum length	Maximum width (w/o starter)	Maximum height	
WSC 063	200–300 (700–1050)	175 (4445)	96 (2438)	96 (2438)	16,769 (7606)
WSC 079/087	300–600 (1050–2100)	175 (4445)	80 (2032)	105 (2667)	24,999 (11,340)
WSC 100/113/126	600–1300 (2100–4550)	181 (4597)	104 (2642)	106 (2692)	43,017 (19,513)

1. Lengths in inches (mm), weight in pounds (kg).

Physical Data-Models WDC and WCC Dual Compressor Chiller

Chiller model	Nominal capacity tons (kW)	Dimensions (in)[1]			Max. unit operating weight (lb)[1]
		Maximum length	Maximum width (w/o starter)	Maximum height	
WDC 063	400–600 (1400–2100)	221 (5623)	64 (1619)	90 (2280)	28,815 (13,070)
WDC 079	600–700 (2100–2450)	224 (5698)	74 (1865)	106 (2686)	38,515 (17,470)
WDC 087	700–1200 (2450–4200)	224 (5698)	74 (1865)	106 (2686)	39,875 (18,087)
WCC100/113/126	1200–2700 (4200–8750)	230 (5848)	110 (2792)	116 (2956)	68,996 (31,296)
WCC100/113/126	1200–2700 (4200–9450)	278 (7071)	104 (2651)	110 (2084)	65,806 (29,849)

1. Lengths in inches (mm), weight in pounds (kg).

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Physical Data-WME Water-cooled Screw Compressor Chiller with Remote Condenser

Unit Dimensions and Shipping Weight

Figure 4: WME0501/502-0701/702S (2-pass, right-hand configuration, with grooved connection)

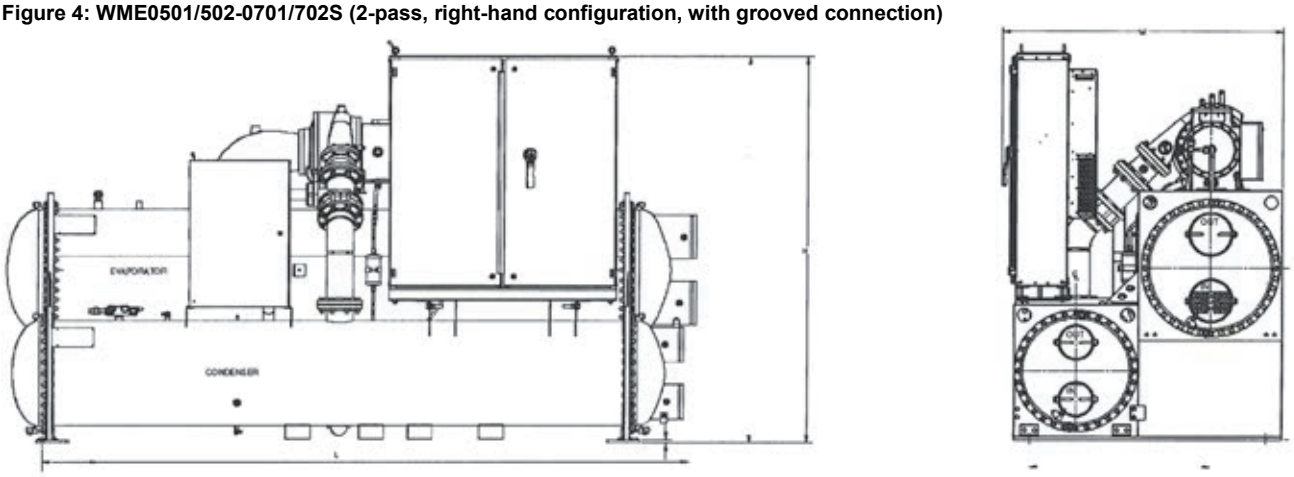

Figure 5: WME1000/1500D (2-pass, right-hand configuration, with grooved connection)

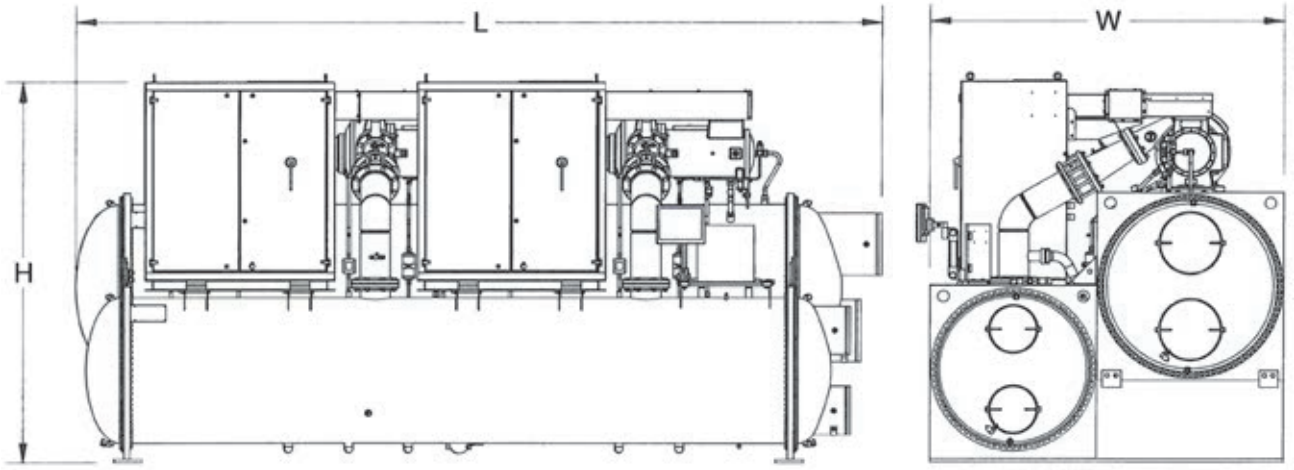

Table 2: WME0501-1500 Dimensions and Shipping Weights

Model	Heat Exchanger	Length in (mm)	Width in (mm)	Height ** in (mm)	Shipping Weight* lb (kg)
WME0501/502S	E3012 / C2612	168.5 (4280)	65.00	89.54-104.54	11333 [5141]
	E3012 / C 3012	168.5 (4280)	70.00	93.54-108.54	13099 (5942)
	E3612 / C3012	170.0 (4318)	76.00	93.54-108.54	14186 (6434)
WME0701/702S	E3612 / C3012	170.0 (4318)	87.86	91.54.106.54	14795 (6711)
	E3612 / C3612	170.0 (4318)	88.89	97.54-112.54	16955 (7691)
WME1000D	E4216 / C3616	218.3 (5545	89.0 (2261)	102.8 (2611)	28172 (12779)
WME1500D	E4816 / C4216	230.0 (5842)	101.0 (2565)	109.8 (2789)	38114 (17288)

* Shipping weight is based on unit with standard tube configuration.
** Unit height dose not include height of removable eye bolt. Range of heights indicated due to size options of VFD.

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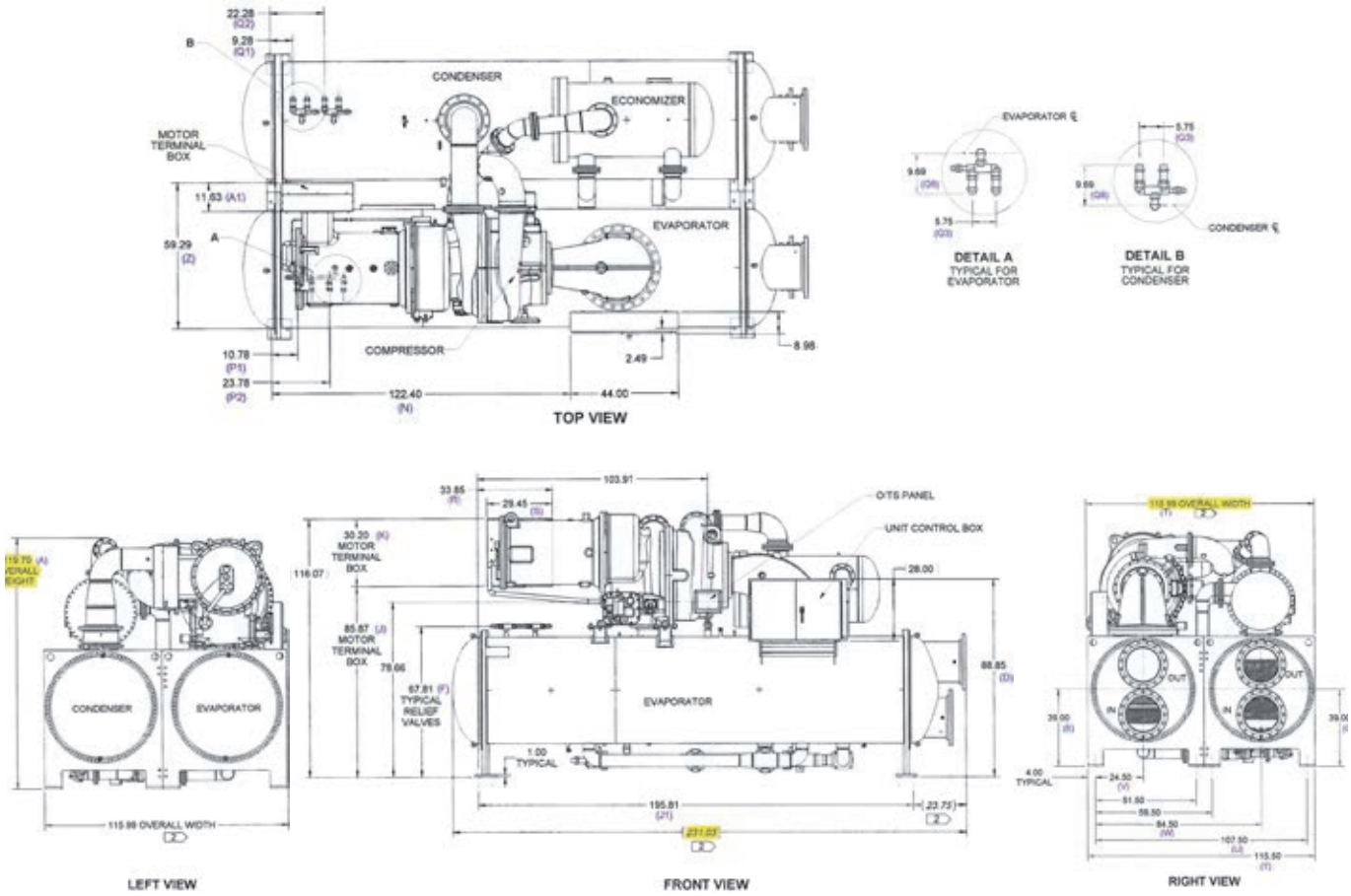
Physical Data- WTS Water-cooled Screw Compressor Chiller with Remote Condenser

Unit Dimensions and Shipping Weight

Typical Unit Representative view with 2-Pass Dished Head with Flanged Connections



(TYPICAL UNIT REPRESENTATIVE VIEW WITH 2-PASS DISHED HEADS WITH FLANGED CONNECTIONS)

NOTES:

1. Unit Shown WTS1500 E4816 / C4816
   - K-Series Compressor
   - Motor Housing: 5800 Frame [⌀ 686.8MM Stator]

2. Dimension will vary based on dished head-marine Water-box configuraton, and nozzle connections.

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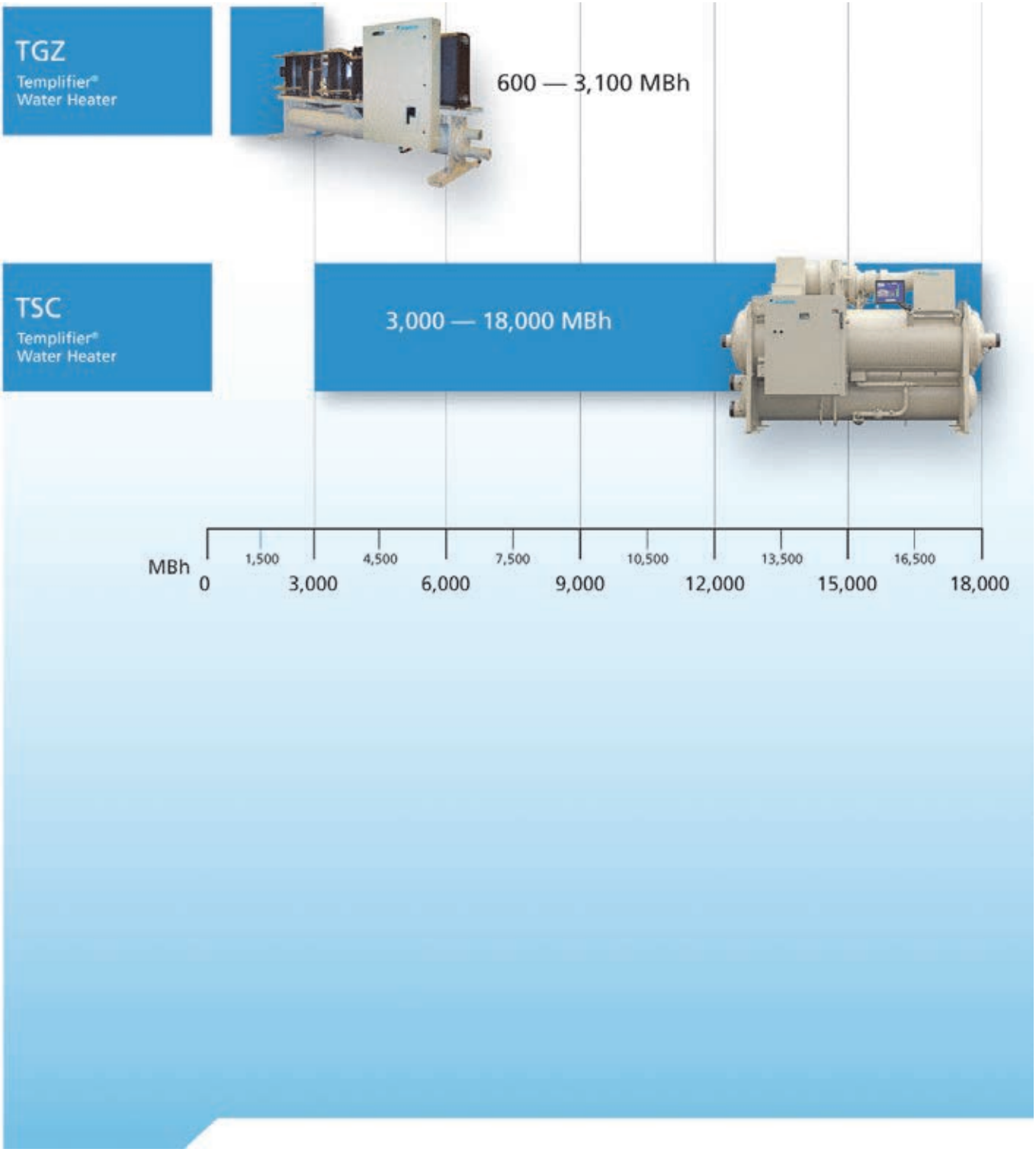
Templifier® Water Heaters

Product Summary Chart

Model:



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TSC Centrifugal Compressor Templifier® Water Heater

Physical Data - TSC 063 through 126

TSC unit size	TSC 063	TSC 079	TSC 087	TSC 100	TSC 126
Compressor					
Model	CE 063	CE 079	CE 087	CE 100	CE 126
Number	1	1	1	1	1
Motor speed 60/50 Hz	3550/2960	3550/2960	3550/2960	3550/2960	3550/2960
Condenser					
Diameter/length, in/ft	22/12	26/12	36/12	36/12	36/12
Diameter/length, (mm/mm)	(559/3658)	(660/3658)	(914/3658)	(914/3658)	(914/3658)
Water volume, gal (L)	76 (290)	111 (419)	234 (884)	234 (884)	234 (884)
Two pass connection size, in (mm)	8 (203)	8 (203)	12 (305)	12 (305)	12 (305)
Working press., water, psi (kPA)	150 (1034)	150 (1034)	150 (1034)	150 (1034)	150 (1034)
Working press., refrig, psi (kPA)	300 (2070)	300 (2070)	300 (2070)	300 (2070)	300 (2070)
Evaporator					
Diameter/length, in/ft	26/12	30/12	42/12	42/12	48/12
Diameter/length, (mm/mm)	(660/3658)	(762/3658)	(1067/3658)	(1067/3658)	(1219/3658)
Water volume, gal (L)	72 (273)	101 (381)	222 (841)	222 (841)	327 (1237)
Two pass connection size, in (mm)	8 (203)	10 (254)	14 (356)	14 (356)	18 (457)
Working press., water, psi (kPA)	150 (1034)	150 (1034)	150 (1034)	150 (1034)	150 (1034)
Working press., refrig, psi (kPA)	200 (1380)	200 (1380)	200 (1380)	200 (1380)	200 (1380)
Dimensions					
Length, in (mm)	169 (4293)	175 (4445)	175 (4445)	175 (4445)	175 (4445)
Width w/o starter, in (mm)	48 (1219)	56 (1422)	86 (2184)	86 (2184)	104 (2642)
Height, in (mm)	80 (2032)	88 (2235)	111 (2819)	99 (2515)	99 (2515)
Weights, (w/starter)					
Shipping, lb (kg)	12,777 (5796)	15,835 (7183)	24,657 (11,170)	27,657 (13,545)	33,224 (15,070)
Shipping, lb (kg)	14,017 (6358)	17,501 (7938)	28,460 (12,892)	31,460 (14,270)	38,823 (17,610)
Weights, (w/o starter)					
Shipping, lb (kg)	11,577 (5251)	14,635 (6638)	23,457 (10,626)	26,457 (12,001)	32,024 (14,526)
Operating, lb (kg)	12,517 (5678)	16,301 (7394)	27,260 (12,349)	30,260 (13,726)	37,623 (17,066)

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TGZ Scroll Compressor Templifier® Water Heaters

Physical Data - TGZ 040B through 100B, R-134a

TGZ Unit Model	TGZ040B		TGZ050B		TGZ060B		TGZ080B		TGZ100B	
No. of Circuits	2		2		2		2		2	
Compressors										
Nominal Horsepower	10	10	13	13	15	15	20	20	25	25
Number per Circuit	2	2	2	2	2	2	2	2	2	2
Unloading Steps, %	25/50/75/100		25/50/75/100		25/50/75/100		25/50/75/100		25/50/75/100	
Oil Charge per compressor. oz (l)	110 (3.3)		110 (3.3)		110 (3.3)		158 (4.7)		200 (5.9)	
Condenser										
Number	1		1		1		1		1	
No. Refrigerant Circuits	2		2		2		2		2	
Diameter, in. (mm)	10.75 (273)		10.75 (273)		10.75 (273)		10.75 (273)		10.75 (273)	
Tube Length, in (mm)	122 (3099)		122 (3099)		122 (3099)		122 (3099)		122 (3099)	
Design water pressure, psig (kPA):										
Refrigerant Side	500 (3447)		500 (3447)		500 (3447)		500 (3447)		500 (3447)	
Water Side	232 (1599)		232 (1599)		232 (1599)		232 (1599)		232 (1599)	
Relief Valve Setting, psig (kPA)	500 (3447)		500 (3447)		500 (3447)		500 (3447)		500 (3447)	
No. Of Water Passes - Standard	4		4		4		4		4	
No. Of Water Passes - Optional	2		2		2		2		2	
Water Volume, gallons (l)	13.6 (51.5)		13.6 (51.5)		16.3 (61.8)		27.5 (104)		27.5 (104)	
Pump-Down Capacity lb., (kg)	121.7 (55.2)	121.7 (55.2)	121.7 (55.2)	121.7 (55.2)	107.3 (48.7)	107.3 (48.7)	186 (84)	186 (84)	186 (84)	186 (84)
Connections										
Water In & Out, in., (mm) (4 Pass)	3 (76)		3 (76)		3 (76)		4 (102)		4 (102)	
Water In & Out, in., (mm) (2 Pass)	4 (102)		4 (102)		4 (102)		4 (102)		4 (102)	
Relief Valve, Flare in., (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)	
Purge Valve, Flare in., (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)	
Vent & Drain, in (mm) FPT	1/2 (12.7)		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)	
Liquid Sub-cooling	Integral		Integral		Integral		Integral		Integral	
Evaporator, brazed-plate										
Number	1		1		1		1		1	
No. Refrigerant Circuits	2		2		2		2		2	
Water Volume, gallons (l)	3.7 (14.0)		5.0 (18.9)		5.0 (18.9)		8.7 (32.9)		8.7 (32.9)	
Refrigerant Side D.W.P., psig, (kPA)	450 (3102)		450 (3102)		450 (3102)		450 (3102)		450 (3102)	
Relief Valve Setting, psig (kPA)	450 (3102)		450 (3102)		450 (3102)		450 (3102)		450 (3102)	
Water Side D.W.P., psig (kPA)	450 (3102)		450 (3102)		450 (3102)		450 (3102)		450 (3102)	
Water connections:										
In & Out, in. (mm) Victaulic	3 (76)		3 (76)		3 (76)		3 (76)		3 (76)	
Drain & Vent in Field Piping	Field Supplied		Field Supplied		Field Supplied		Field Supplied		Field Supplied	
Unit dimensions										
Length, in. (mm)	138 (3506)		138 (3506)		138 (3506)		149.1 (3787)		150.7 (3828)	
Width, in. (mm)	33 (838)		33 (838)		33 (838)		35.2 (894)		35.2 (894)	
Height, in. (mm)	63.4 (1610)		63.4 (1610)		63.4 (1610)		65.5 (1664)		65.5 (1664)	
Unit weights										
Operating weight, lb. (kg)	2604 (1181)		2644 (1199)		2699 (1224)		4422 (2006)		4749 (2154)	
Shipping weight, lb. (kg)	2434 (1104)		2464 (1118)		2496 (1132)		4116 (1867)		4418 (2004)	
R-134a Ref. Charge, lb. (kg)	45 (20.4)	45 (20.4)	45 (20.4)	45 (20.4)	50 (22.7)	50 (22.7)	85 (38.6)	85 (38.6)	90 (40.8)	90 (40.8)

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TGZ Scroll Compressor Templifier® Water Heaters

Physical Data - TGZ 110B through 190B, R-134a

TGZ Unit Model	TGZ110B		TGZ120B		TGZ150B		TGZ170B		TGZ190B	
No. Of Circuits	2		2		2		2		2	
Compressors										
Nominal Horsepower	25	30	30	30	25	25	25	30	30	30
Number per Circuit	2	2	2	2	3	3	3	3	3	3
Staging, 4 Stages, Circuit #1 in Lead	23/50/73/100		25/50/75/100		—		—		—	
Staging, 4 Stages, Circuit #2 in Lead	27/50/77/100		25/50/75/100		—		—		—	
Staging, 6 Stages, Circuit #1 in Lead	—		—		17/33/50/67/83/100		15/33/48/67/81/100		17/33/50/67/83/100	
Staging, 6 Stages, Circuit #2 in Lead	—		—		17/33/50/67/83/100		19/33/52/67/85/100		17/33/50/67/83/100	
Oil Charge per compressor. oz (l)	200 (5.9)	213 (6.3)	213 (6.3)		200 (5.9)		200 (5.9)	213 (6.3)	213 (6.3)	
Condenser										
Number	1		1		1		1		1	
No. Refrigerant Circuits	2		2		2		2		2	
Diameter, in. (mm)	16.0 (406.4)		16.0 (406.4)		16 (406.4)		16 (406.4)		16 (406.4)	
Tube Length, in (mm)	120 (3048)		120 (3048)		144 (3658)		144 (3658)		144 (3658)	
Design water pressure, psig (kPA):										
Refrigerant Side	500 (3447)		500 (3447)		500 (3447)		500 (3447)		500 (3447)	
Water Side	232 (1599)		232 (1599)		232 (1599)		232 (1599)		232 (1599)	
Relief Valve Setting, psig (kPA)	500 (3447)		500 (3447)		500 (3447)		500 (3447)		500 (3447)	
No. Of Water Passes - Standard	4		4		4		4		4	
No. Of Water Passes - Optional	2		2		2		2		2	
Water Volume, gallons (l)	35.4 (134)		35.4 (134)		42.5 (160.9)		47.1 (178.4)		47.1 (178.4)	
Pump-Down Refrigerant Capacity, lb. (kg)	252 (114)	252 (114)	252 (114)	252 (114)	302 (137)	302 (137)	277 (126)	277 (126)	277 (126)	277 (126)
Connections										
Water In & Out, in., (mm) (4 Pass)	4 (102)		4 (102)		4 (102)		4 (102)		4 (102)	
Water In & Out, in., (mm) (2 Pass)	5 (127)		5 (127)		5 (127)		5 (127)		5 (127)	
Relief Valve, Flare in., (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)	
Purge Valve, Flare in., (mm)	5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)		5/8 (15.9)	
Vent & Drain, in (mm) FPT	1/2 (12.7)		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)	
Liquid Sub-cooling	Integral		Integral		Integral		Integral		Integral	
Evaporator, brazed-plate										
Number	1		1		1		1		1	
No. Refrigerant Circuits	2		2		2		2		2	
Water Volume, gallons (l)	9.7 (36.7)		9.7 (36.7)		57.6 (218)		56.9 (215.4)		56.9 (215.4)	
Refrigerant Side D.W.P., psig, (kPA)	450 (3102)		450 (3102)		450 (3102)		450 (3102)		450 (3102)	
Relief Valve Setting, psig (kPA)	450 (3102)		450 (3102)		150 (1034)		150 (1034)		150 (1034)	
Water Side D.W.P., psig, (kPA)	450 (3102)		450 (3102)		450 (3102)		450 (3102)		450 (3102)	
Water connections:										
In & Out, in. (mm) Victaulic	3 (76)		3 (76)		8 (203)		8 (203)		8 (203)	
Drain & Vent in Field Piping	Field Supplied		Field Supplied		1/2 (12.7)		1/2 (12.7)		1/2 (12.7)	
Unit dimensions										
Length, in. (mm)	148.8 (3780)		148.8 (3780)		170.1 (4321)		170.1 (4321)		170.1 (4321)	
Width, in. (mm)	35.2 (894)		35.2 (894)		36.8 (935)		36.8 (935)		36.8 (935)	
Height, in. (mm)	67 (1702)		67 (1702)		77.7 (1974)		77.7 (1974)		77.7 (1974)	
Unit weights										
Operating WT., lb., (kg)	5373 (2437)		5319 (2413)		7877 (3573)		7991 (3625)		7972 (3616)	
Shipping WT., lb. (kg)	4967 (2253)		4913 (2229)		7019 (3184)		7101 (3221)		7082 (3212)	
R-134a Ref. Charge, lb. (kg)	110 (49.9)	110 (49.9)	110 (49.9)	110 (49.9)	140 (63.5)	140 (63.5)	150 (68)	150 (68)	150 (68)	150 (68)

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Modular Central Plants - 300 to 1000 Tons Per Single Package, up to 3,750 Total Tons

- Pre-engineered modular design - combining chillers, boilers, cooling tower, pumps, interconnecting condenser water piping and structure results in a fully factory-assembled, ETL listed unit
- Pre-assembled, high efficient design creates cost effective, low life-cycle cost alternative to site-built central plants.
- Factory assembly and testing simplifies trade coordination, reduces total project risk and time, expedites project completion
- Modules from 300 to 1000 tons cooling or 3000 to 20000 MBH heating in a single compact package allowing for central plants up to 3750 tons and/or 60000 MBH
- Available with Daikin water-cooled centrifugal and Magnitude® magnetic bearing compressor chillers.

Modular Central Plant

For more detail, refer to A/SP 31-355.

For the most current information, refer to www.DaikinApplied.com.

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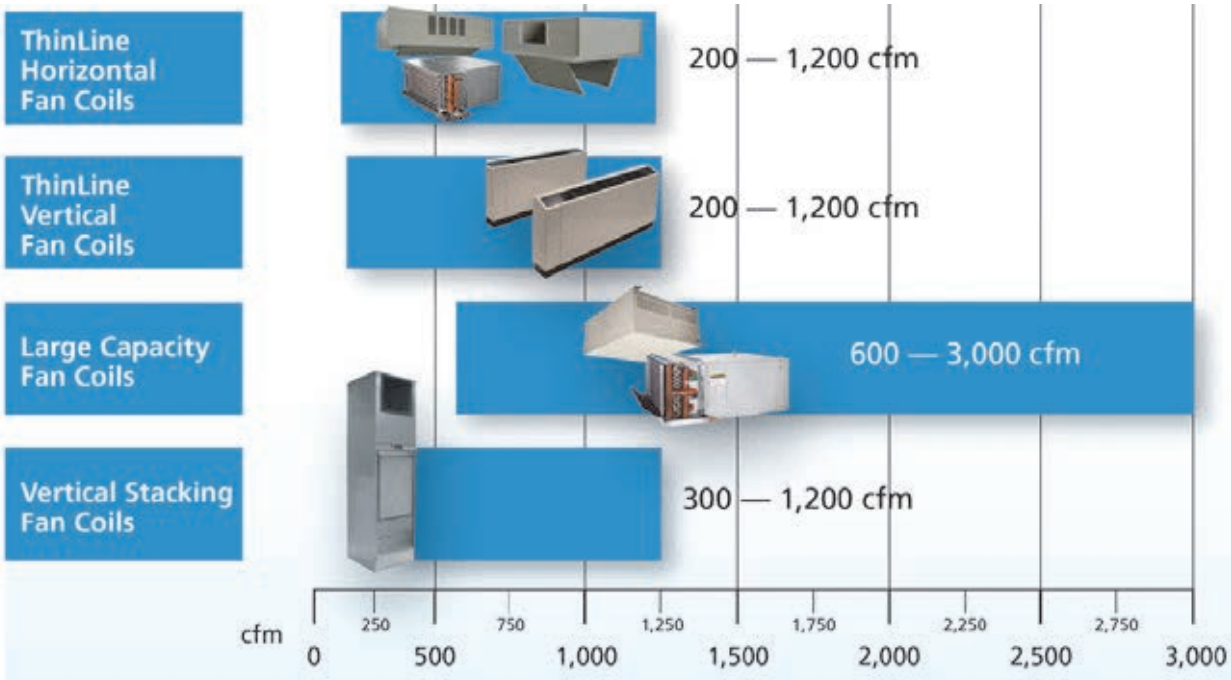
Fan Coils

Product Summary Chart

Model:



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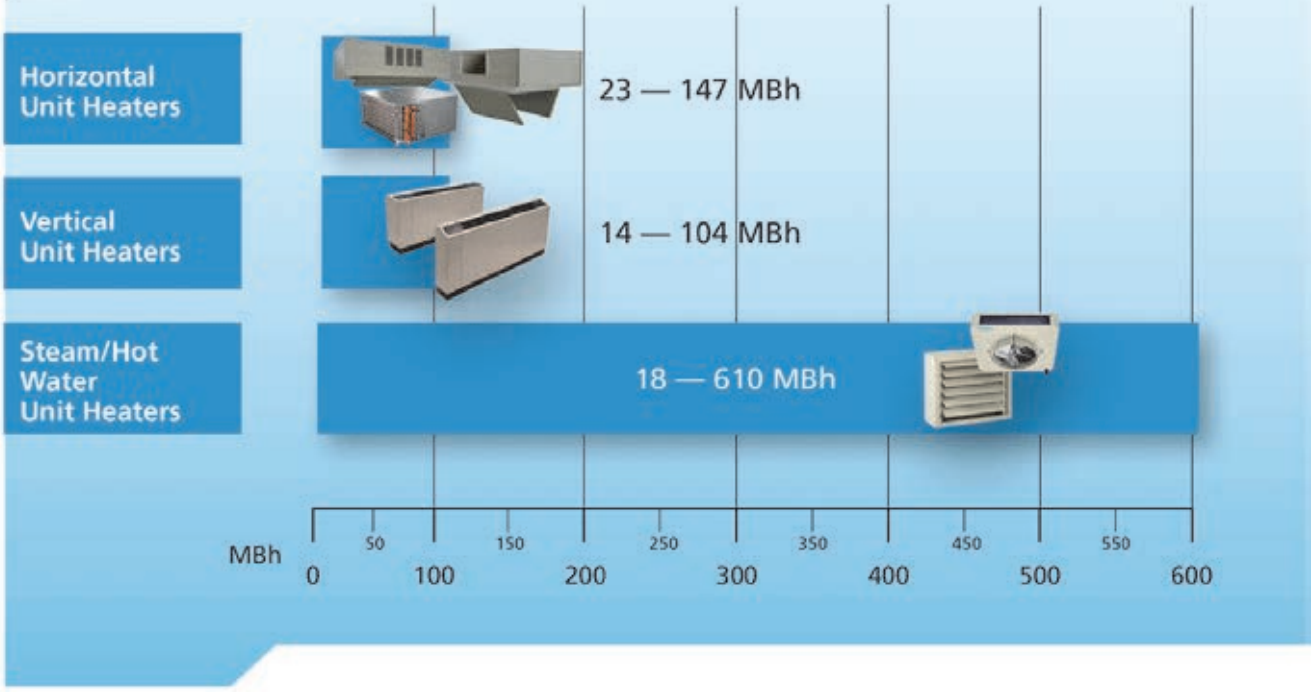

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Performance Data - FTHC Fan Coils

Model		FTHCH02		FTHCH03		FTHCH04		FTHCH06		FTHCH08		FTHCH10		FTHCH12	
System		2-pipe	4-pipe	2-pipe	4-pipe	2-pipe	4-pipe	2-pipe	4-pipe	2-pipe	4-pipe	2-pipe	4-pipe	2-pipe	4-pipe
Air flow (CFM)[3]		200		300		400		600		800		1000		1200	
AHRI total cooling cap. (BTU/h)[1]		8500		11,100		14,500		21,200		22,700		25,300		34,200	
AHRI sensible clog. cap. (BTU/h)		6100		8400		10,800		16,100		18,000		20,000		27,000	
AHRI heating cap. (BTU/h)[2]		14,900	11,500	20,300	16,300	26,800	20,400	37,600	29,600	42,400	36,100	48,300	40,300	68,800	49,800
Water flow - 3-row (GPM)		1.94		2.51		3.26		4.70		5.14		5.70		7.75	
Water flow - 1-row (GPM)		N/A	0.64	N/A	0.91	N/A	1.12	N/A	1.65	N/A	2.00	N/A	2.24	N/A	2.76
Water PD–3-row (ft WC)		5.10		3.26		5.80		12.82		3.68		4.76		8.29	
Water PD–1-row (ft WC)		N/A	1.47	N/A	2.89	N/A	5.32	N/A	10.72	N/A	3.24	N/A	4.07	N/A	6.45
Fan(s)	Type	Centrifugal fan (forward curved galvanized steel fan wheel)													
	Number	1		1		2		2		3		3		4	
	Fan housing	Galvanized steel													
Coil	Type	Water													
	Rows[4]	3-row	3/1-row	3-row	3/1-row	3-row	3/1-row	3-row	3/1-row	3-row	3/1-row	3-row	3/1-row	3-row	3/1-row
	Testing press.	425 psi for 1 minute; leak test: 225 psi for 5 minutes													
Motor(s)	Type	PSC													
	Number	1		1		1		1		2		2		2	
	Power supply	115/60/1, 208-230/50-60/1, 277/60/1													
Watts - high speed	50 HHBB	62		91		109		171		242		249		321	
	60 HHBB	75		109		131		205		291		299		385	
Coil connection		3/4" FPT													
Drain pipe		3/4" MPT													
Ship weight (lbs.)[5]		61.00	63.00	69.00	73.00	83.00	88.00	97.00	102.00	127.00	134.00	137.00	143.00	146.00	153.00

1. Conditions: Cooling capacity: Entering air temperature 80°F (OB), 67°F (WB); Entering water temperature 45°F, Leaving Water Temperature 55°F.
2. Heating capacity: Entering air temperature 70°F (OB); Entering water temperature 140°F, the same amount of water flow as with cooling.
3. Nominal air flow: Under dry coil conditions; Fan speed high.
4. 3-Row = 3-row chilled water/hot water coil; 4-Row = 3-row chilled water, 1-row hot water coil.
5. Weight includes return air plenum and packing.

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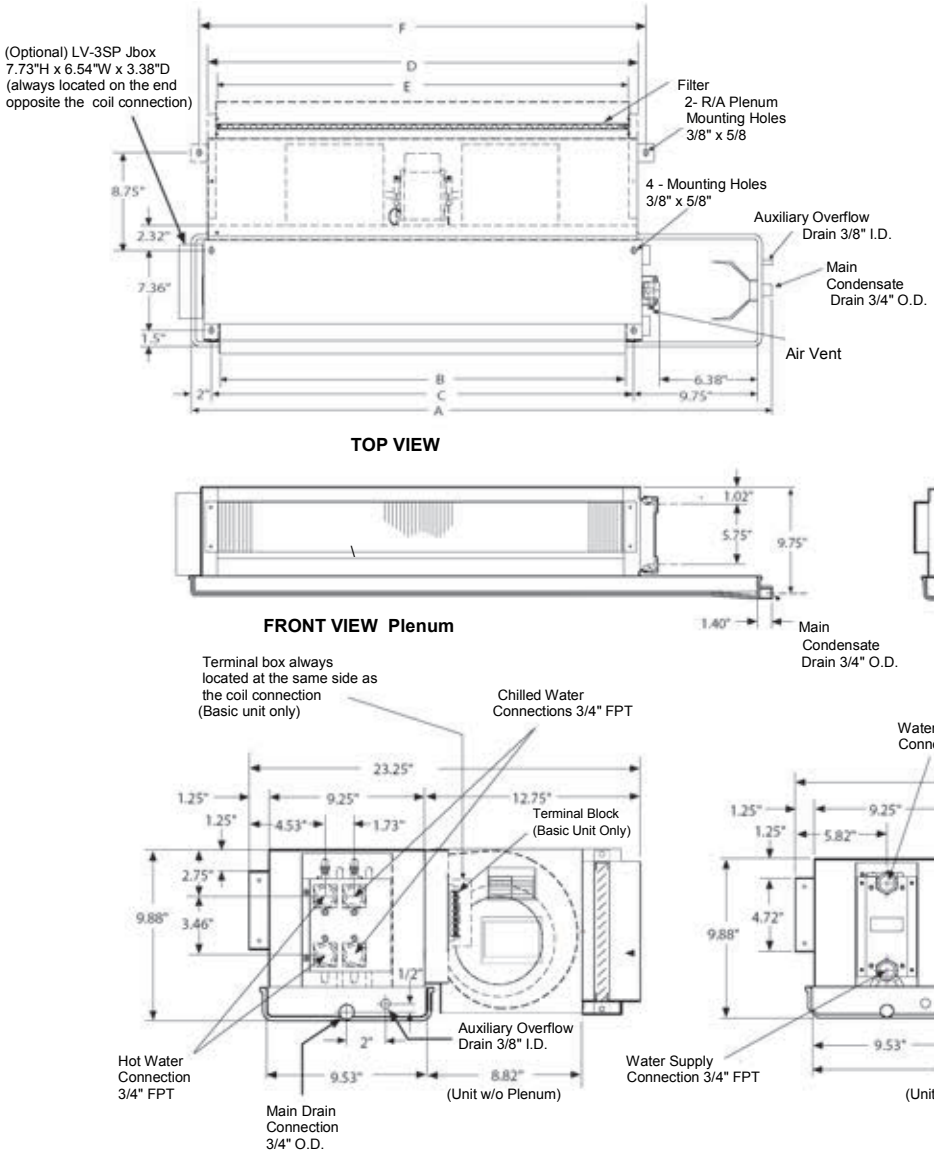
Performance Data - FTHC Fan Coils

Dimensional Data—Ceiling Concealed Fan Coils



Available options:

- Two-pipe or four-pipe systems
- Low voltage junction box
- Three-speed control switch
- Wall mounted, low and high-voltage thermostats
- A variety of field installed valve packages, line or low voltage
- Stainless steel drain pan with overflow drain connection
- Condensate overflow detection kits
- Transformers
- Anticorrosion fin coil coating

Dimensional Data - FTHC Fan Coils

Model	A	B	C	D	E	Number of Fans	Filters	
							Size[1]	Qty
FTHCH02	32.05”	17.64”	19.17”	19.96”	18.46”	1	18-1/8" × 8" × 1"	1
FTHCH03	38.74”	24.33”	25.87”	26.65”	25.15”	1	24-7/8" × 8" × 1"	1
FTHCH04	43.86”	29.45”	30.98”	31.77”	30.20”	2	29-7/8" × 8" × 1"	1
FTHCH06	51.73”	37.32”	38.86”	39.65”	38.07”	2	18-7/8" × 8" × 1"	2
FTHCH08	61.57”	47.17”	48.70”	49.49”	47.91”	3	23-3/4" × 8" × 1"	2
FTHCH10	65.51”	51.10”	52.64”	53.43”	51.85”	3	25-3/4" × 8" × 1"	2
FTHCH12	75.75"	61.34”	62.87”	63.66”	62.09”	4	30-7/8" × 8" × 1"	2

1. Dimensions based on unit with return air plenum and filter.

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Performance Data - ThinLine Horizontal Fan Coils

Cooling and Heating Performance: Standard Rating 2-Pipe

Unit Model	Unit Size	Nominal Air Flow SCFM	Number of Primary Rows	Cooling Performance		Heating Performance MBH	Chilled Water Flow GPM	CW Pressure Drop ft
				Total, MBH	Sensible, MBH			
FCHH	02	200	3	8.9	7.0	28.1	1.8	1.0
	03	300	3	10.7	8.5	32.9	2.2	1.3
	04	400	3	13.9	10.6	40.5	2.8	2.4
	06	600	3	20.4	15.4	63.8	4.1	6.1
	08	800	3	23.6	17.6	71.4	4.7	8.4
	10	1000	3	34.7	26.1	100.6	7.0	13.5
	12	1200	3	45.2	33.7	124.1	9.1	26.6
FCHC	02	200	3	8.5	6.7	27.1	1.7	0.9
	03	300	3	10.6	8.3	32.5	2.1	1.3
	04	400	3	13.4	10.2	39.2	2.7	2.3
	06	600	3	19.7	14.9	61.6	4.0	5.8
	08	800	3	21.5	15.8	64.2	4.3	7.2
	10	1000	3	30.8	22.8	88.4	6.1	9.9
	12	1200	3	39.5	28.9	107.2	7.9	19.6

Cooling: EAT (WB/DB) = 80°F/67°F; EWT/LWT = 45°F/55°F; Heating: EAT=70; EWT/LWT=180°F/150°F.
Hideaway unit without plenum at 0.05” ESP;
Cabinet unit with 1" Throwaway filter, bottom return / front discharge configuration at 0” ESP.

Cooling and Heating Performance: Standard Rating 4-Pipe

Unit Model	Unit Size	Nominal Air Flow SCFM	Number of Primary Rows	Cooling Performance				Heating Performance			
				Total, MBH	Sensible, MBH	Chilled Water Flow GPM	CW Pressure Drop, ft	Standard Capacity Coil, MBH	High Capacity Coil, MBH	Hot Water Flow (Hi Cap), GPM	Hot Water Pressure Drop (Hi Cap), ft
FCHH	02	200	3	8.3	6.5	1.7	0.9	8.1	11.6	0.8	1.6
	03	300	3	10.1	8.0	2.0	1.2	8.8	12.7	0.9	1.9
	04	400	3	13.1	10.0	2.6	2.2	12.2	19.1	1.3	5.3
	06	600	3	19.4	14.6	3.9	5.6	18.6	27.8	1.9	12.6
	08	800	3	22.5	16.6	4.5	7.7	21.0	31.9	2.1	16.8
	10	1000	3	33.1	24.7	6.6	12.0	33.7	42.9	2.9	36.2
	12	1200	3	43.0	31.8	8.6	23.2	40.5	57.8	3.9	71.1

Hideaway unit without plenum at 0.05" ESP; 115/1/60 PSC motor at High speed setting.
Free discharge.
Cooling: EAT (WB/DB) = 80°F/67°F; EWT/LWT = 45°F/55°F; dry coil Heating: EAT=70; EWT/LWT=180°F/150°F.

Units with ECM Cooling and Heating Performance 2- & 4-Pipe

Unit Model	Unit Size	Air Flow SCFM	Number of Primary Rows	Cooling Performance		Heating Performance		
				Total, MBH	Sensible, MBH	Primary Coil, MBH	Secondary Std Capacity Coil, MBH	Secondary High Capacity Coil, MBH
FCHH, FCHC, FCHR any configuration	02	329	3	9.6	7.5	28.6	8.4	12.2
	03	393	3	11.1	8.8	32.7	8.9	13.1
	04	459	3	14.6	11.3	41.1	12.6	19.9
	06	704	3	21.5	16.4	65.3	19.2	29.1
	08	755	3	24.5	18.3	71.2	21.3	32.9
	10	1124	3	36.0	27.2	101.2	34.4	44.4
	12	1464	3	47.5	35.7	126.4	41.6	60.2

ECM motor at High speed setting, any external static pressure up to 0.5".
Unit of any configuration with standard throwaway (MERV 4) filter.
Cooling: EAT (WB/DB) = 80°F/67°F; EWT/LWT = 45°F/55°F; Heating: EAT=70; EWT/LWT=180°F/150°F.
The ratings above are shown for 3-row primary coil only. For other coil configurations, refer to Catalog 724 or Daikin Tools selection software.

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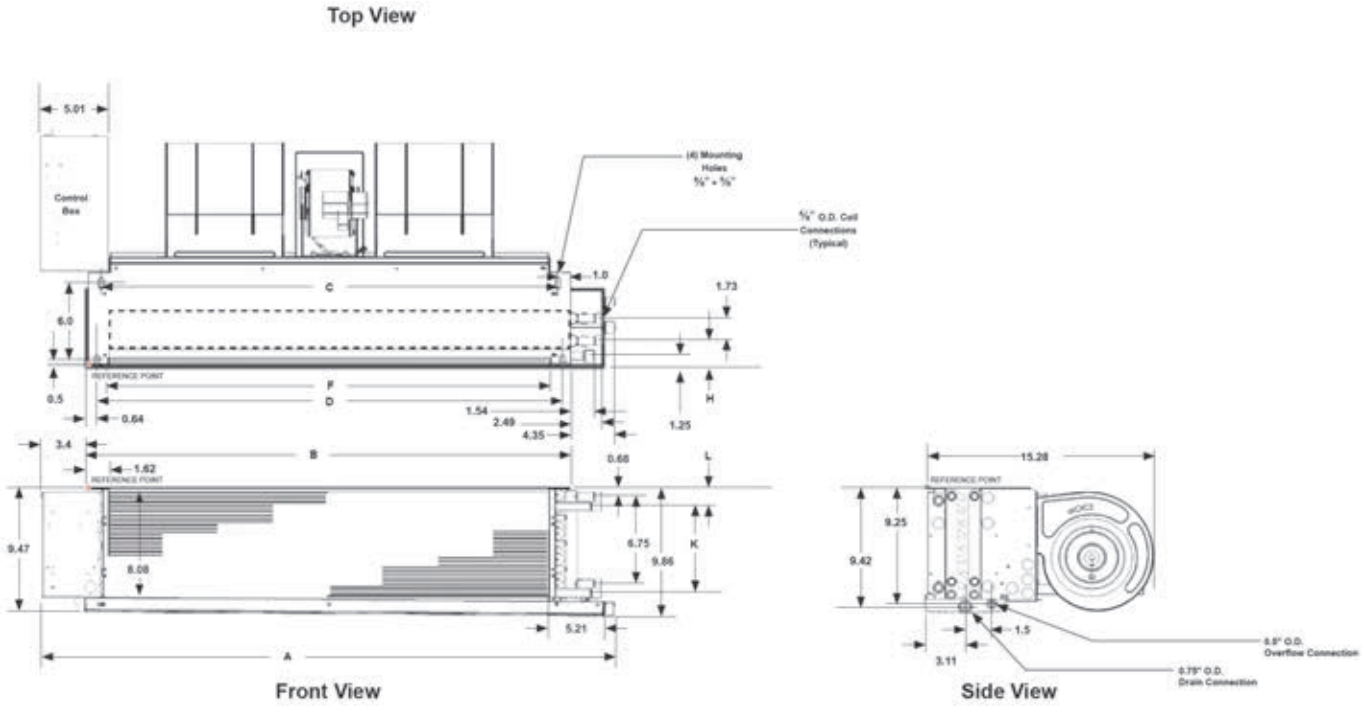
Performance Data - ThinLine Horizontal Fan Coils

Dimensional Data

Hideaway fan coil, front discharge – free return

Reheat coil shown



Dimension		S02	S03	S04	S06	S08	S10	S12
		inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)
Overall Unit Width	A	28.48 (723)	28.48 (723)	33.98 (863)	44.98 (1142)	50.48 (12.82)	61.48 (1562)	72.48 (1841)
Chassis Width	B	20.63 (524)	20.63 (524)	26.13 (664)	37.13 (943)	42.63 (1083)	53.63 (1362)	64.63 (1641)
Mounting Hole Distance (Rear)	C	18.64 (473)	18.64 (473)	24.14 (613)	35.14 (892)	40.64 (1032)	51.64 (1312)	62.44 (1702)
Mounting Slot Location (Front)	D	19.35 (491)	19.35 (491)	24.85 (631)	35.85 (911)	41.35 (1050)	52.35 (1330)	63.35 (1609)
Discharge Opening - Width	F	17.39 (442)	17.39 (442)	22.84 (581)	33.89 (867)	39.39 (1000)	50.39 (1280)	61.39 (1559)
Primary Coil Location	H	1.81 (46) for 2- or 3-row primary coil; 2.81 (71) for 4-row primary coil						
Secondary Coil - Standard Capacity	L	2.86 (73)						
Secondary Coil - High Capacity		0.86 (22)						
Secondary Coil - Standard Capacity	K	5.0 (127)						
Secondary Coil - High Capacity		7.0 (178)						

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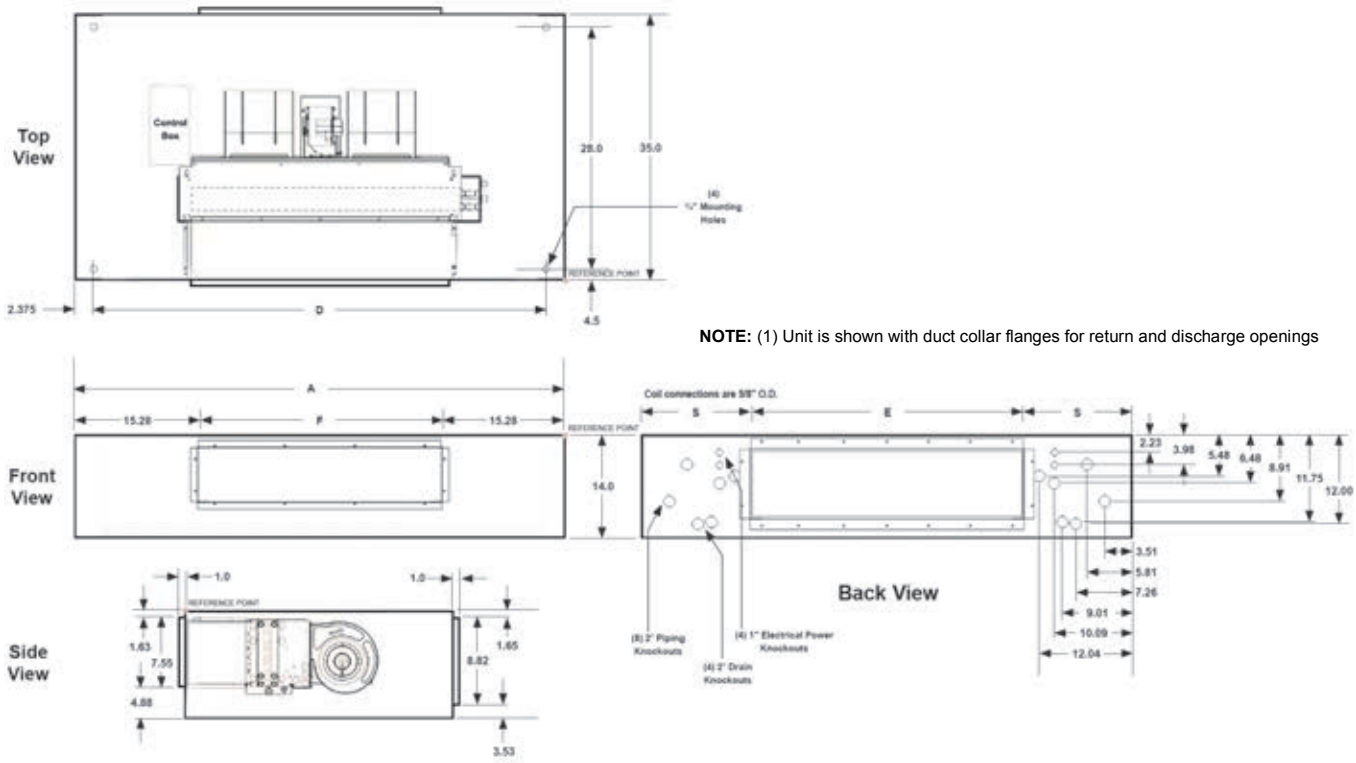
Performance Data - ThinLine Horizontal Fan Coils

Dimensional Data

Cabinet fan coil, front discharge – rear return



NOTE: (1) Unit is shown with duct collar flanges for return and discharge openings

Dimension		S02	S03	S04	S06	S08	S10	S12
		inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)
Overall Unit Width	A	47.64 (1210)	47.64 (1210)	53.14 (1350)	64.14 (1629)	69.64 (1769)	80.63 (2048)	91.64 (2328)
Mounting Hole Distance	D	40.64 (1032)	40.64 (1032)	46.14 (1172)	57.14 (1451)	62.64 (1591)	73.64 (1870)	84.64 (2150)
Return Air Opening - Width	E	19.0 (483)	19.0 (483)	22.9 (581)	34.5 (876)	38.4 (975)	50.0 (1270)	61.6 (1565)
Discharge Opening - Width	F	17.09 (434)	17.09 (434)	22.59 (574)	33.59 (853)	39.09 (993)	50.09 (1272)	61.09 (1552)
Return Air Opening Location	S	14.32 (364)	14.32 (364)	15.13 (384)	14.82 (376)	15.63 (397)	15.32 (389)	15.01 (381)

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Performance Data - ThinLine Horizontal Fan Coils

Cooling and Heating Performance - Two-Pipe Systems

Unit Size	Main Coil Rows	SCFM	Cooling Performance				Heating Performance	
			Total MBh (kW)	Sensible MBh (kW)	GPM (L/s)	WPD ft of H_2O (kPA)	MBh (kW)	GPM (L/s)
02	4 Row	200	5.9 (1.7)	4.7 (1.4)	1.2 (0.08)	0.6 (1.8)	19.2 (5.6)	1.2 (0.08)
03	4 Row	265	9.4 (2.8)	6.9 (2.0)	1.9 (0.12)	1.5 (4.5)	27.2 (8.0)	1.9 (0.12)
04	4 Row	374	14.3 (4.2)	10.2 (3.0)	2.9 (0.18)	3.4 (10.2)	38.9 (11.4)	2.9 (0.18)
06	4 Row	554	22.4 (6.6)	15.2 (4.5)	4.6 (0.29)	9.0 (26.9)	52.6 (15.4)	4.6 (0.29)
08	4 Row	634	26.4 (7.7)	17.8 (5.2)	5.5 (0.35)	14.8 (44.2)	64.3 (18.8)	5.5 (0.35)
10	4 Row	795	32.4 (9.5)	21.9 (6.4)	6.7 (0.42)	11.1 (33.2)	80.8 (23.7)	6.7 (0.42)
12	4 Row	1022	40.2 (11.8)	27.0 (7.9)	8.3 (0.52)	18.3 (54.7)	103.8 (30.4)	8.3 (0.52)

* Rated in accordance with AHRI Standard 440. Cooling performance is based on 80/67°F (27/19°C) entering air temperature, 45°F (7°C) entering chilled water temperature with a 10°F (5.5°C) ΔT. Heating performance is based on 70°F (21°C) entering air temperature, 180°F (82°C) entering hot water temperature with a 30°F (17°C) ΔT.
* Ratings shown are for 2-pipe systems with 4-row coil. For ratings with 4-pipe systems and other coil configurations, consult catalog 722.

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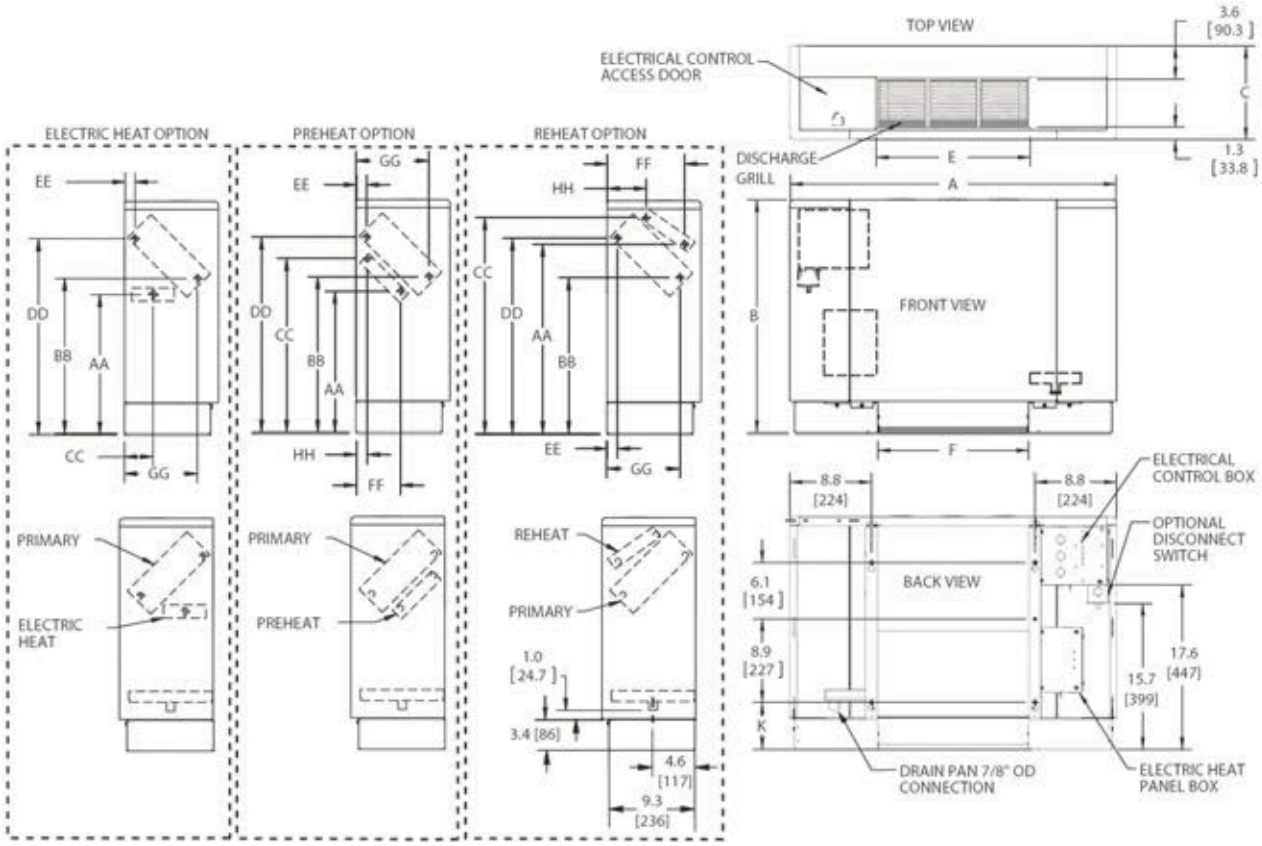
Performance Data - ThinLine Horizontal Fan Coils

Performance Data - Unit Dimensions



Dimension		S02		S03		S04		S06		S08		S10		S12	
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
Unit Width	A	35.0	889	40.5	1029	46.0	1168	57.0	1448	62.5	1588	73.5	1867	84.5	2146
Unit Height	B	25.0	635	25.0	635	25.0	635	25.0	635	25.0	635	25.0	635	25.0	635
Unit Depth	C	10.0	254	10.0	254	10.0	254	10.0	254	10.0	254	10.0	254	10.0	254
Discharge Grille - Width	E	16.3	414	21.8	554	27.3	693	38.3	973	43.8	1113	54.8	1392	65.8	1671
Return Air Opening - Width	F	16.2	411	21.7	551	27.2	691	38.2	970	43.7	1110	54.7	1389	65.7	1669
Primary Coil - Water Supply	BB	16.7	424	16.7	424	16.7	424	16.7	424	16.7	424	16.7	424	16.7	424
	GG	7.8	198	7.8	198	7.8	198	7.8	198	7.8	198	7.8	198	7.8	198
Primary Coil - Water Return	DD	21	533	21	533	21	533	21	533	21	533	21	533	21	533
	EE	1.1	28	1.1	28	1.1	28	1.1	28	1.1	28	1.1	28	1.1	28
Preheat Coil - Water Return	CC	18.7	475	18.7	475	18.7	475	18.7	475	18.7	475	18.7	475	18.7	475
	HH	1.2	30	1.2	30	1.2	30	1.2	30	1.2	30	1.2	30	1.2	30
Preheat Coil - Water Supply	AA	15	381	15	381	15	381	15	381	15	381	15	381	15	381
	FF	4.7	119	4.7	119	4.7	119	4.7	119	4.7	119	4.7	119	4.7	119
Reheat Coil - Water Return	CC	23.2	589	23.2	589	23.2	589	23.2	589	23.2	589	23.2	589	23.2	589
	HH	4.2	107	4.2	107	4.2	107	4.2	107	4.2	107	4.2	107	4.2	107
Reheat Coil - Water Supply	AA	20.3	516	20.3	516	20.3	516	20.3	516	20.3	516	20.3	516	20.3	516
	FF	8.3	211	8.3	211	8.3	211	8.3	211	8.3	211	8.3	211	8.3	211
Electric Heat Connection	AA	15.1	384	15.1	384	15.1	384	15.1	384	15.1	384	15.1	384	15.1	384
	CC	3.0	76	3.0	76	3.0	76	3.0	76	3.0	76	3.0	76	3.0	76

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Performance Data - HiLine Vertical Stacking Fan Coils

AHRI Certified Standard Ratings

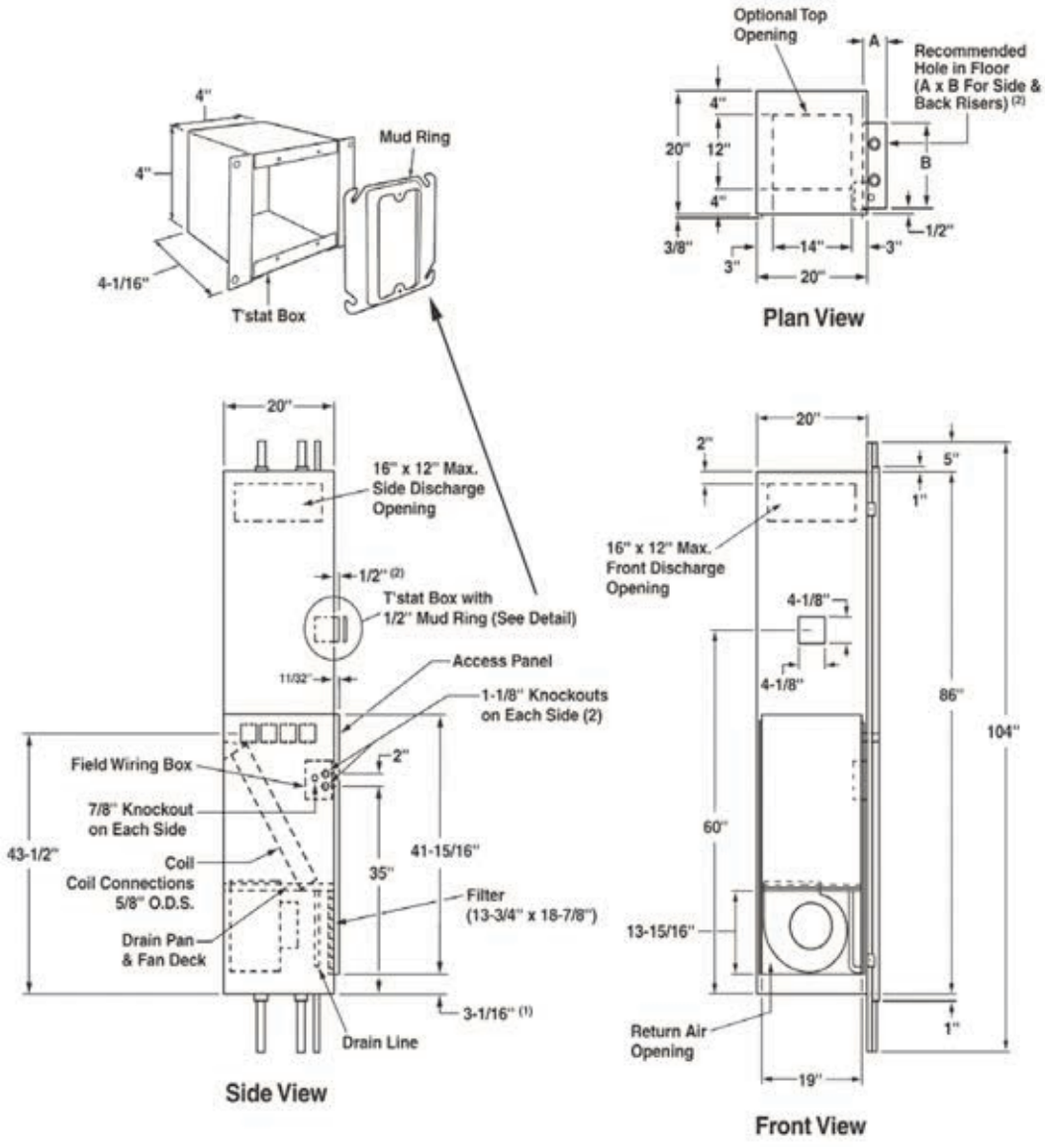
Standard coil water cooling capacity ratings.[1] Capacity rating details available in Catalog 770.

Unit size	Cooling capacity[2]		Water flow (GPM)	Water flow p.d. ft. w.c.
	Total BTU/h	Sensible BTU/h		
S03	10,500	7,200	2.0	14.6
S04	17,000	11,400	3.5	44.7
S06	22,200	14,200	4.6	28.8
S08	28,800	20,180	5.7	44.1
S10	39,600	26,600	7.9	29.7
S12	44,900	30,400	8.9	39.6

1. Rated in accordance with AHRI Standard 440. Cooling capacities based on 80°F DB/67°F WB entering air, 45°F entering water, 10°F water temperature rise and high fan speed with standard 115/60/1 motor.
2. For cooling coil capacity ratings at conditions other than those listed, consult your Daikin representative. Riser sizes available from 3/4" to 2 1/2".

Dimensional Data—sizes 03 to 08

Right hand unit shown. Hand of unit determined by facing return air opening.Risers on right = Right hand of unit; Risers on left = Left hand of unit;
Risers on back = Neutral unit.



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Performance Data - Large Capacity Fan Coils, Direct-drive

Standard Coil Water Cooling Capacity Ratings[1]

High capacity and heating capacity detail is available in Catalog 720.

Unit types	Size	Cooling capacity[2]		Water flow (GPM)	Water flow p.d. (ft. w.c.)
		Total BTU/h	Sensible BTU/h		
HCDB, HHDB	S06	17,600	14,500	3.5	3.7
HCDB, HHDB	S08	26,000	19,700	5.2	3.5
HCDB, HHDB	S12	37,000	26,800	7.4	8.1
HCDB, HHDB	S16	53,000	40,000	10.6	3.2
HCDB, HHDB	S20	61,000	48,000	12.2	3.2

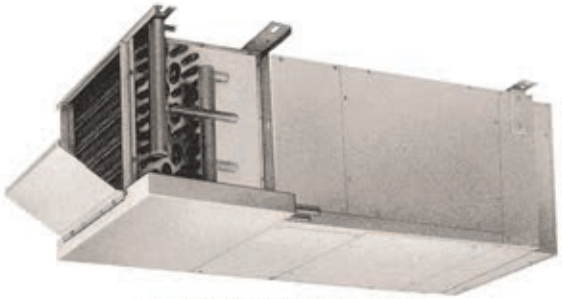
1. Cooling capacities based on 80°F DB/67°F WB entering air, 45°F entering water, 10°F water temperature rise in HHDB unit with plenum operating at high fan speed with no external static pressure.
2. For cooling coil capacity ratings at conditions other than those listed, consult your Daikin representative.

Performance Data - Large Capacity Fan Coils, Belt-drive

Standard Coil Water Cooling Capacity Ratings[1]

Unit types	Size	Airflow (CFM)	Cooling capacity[2]		Water flow (GPM)	Water flow p.d.(ft. w.c.)
			Total BTU/h	Sensible BTU/h		
Cabinet and hideaway	S08	800	24,000	17,700	4.8	3.1
		900	25,615	19,241	5.1	3.4
	S12	1200	37,265	27,027	7.5	8.2
		1300	38,898	28,581	7.8	8.8
	S16	1600	48,421	35,472	9.7	2.7
		1800	51,521	38,482	10.3	3.0
	S20	2000	57,596	45,014	11.5	2.9
		2200	60,565	48,102	12.1	3.1
	S30	3000	91,633	66,864	18.3	2.9
		3200	94,813	69,923	19.0	3.1

1. Cooling capacities based on 80°F DB/67°F WB entering air, 45°F entering water, 10°F water temperature rise.
2. For cooling coil capacity ratings at conditions other than those listed, consult your Daikin representative.



Belt drive hideaway unit

Belt drive cabinet ceiling unit

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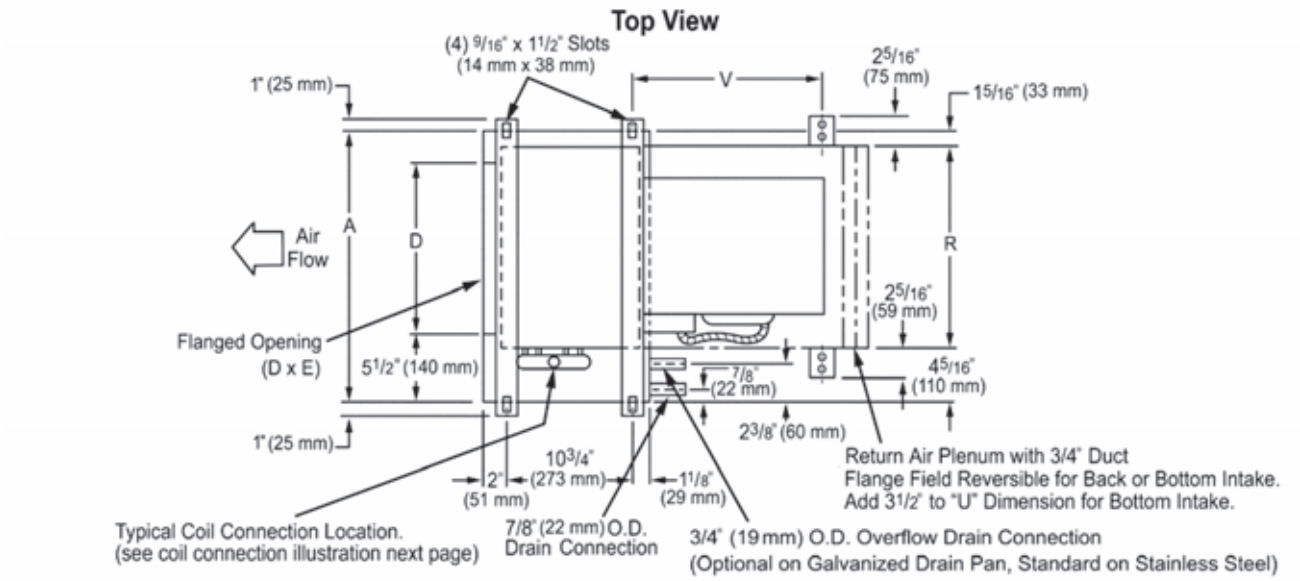
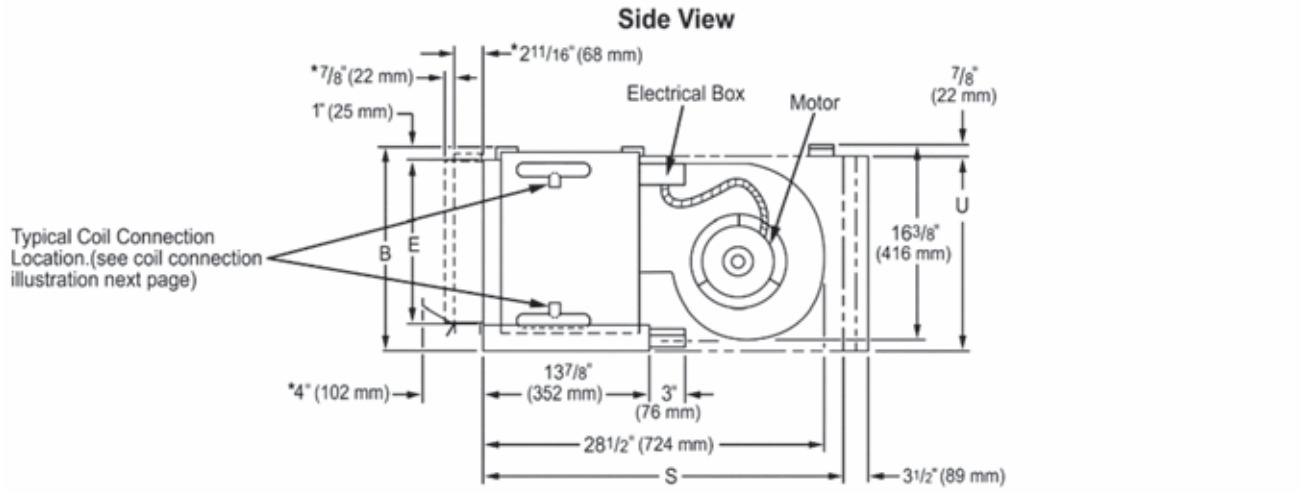
Dimensional Data - Large Capacity Fan Coils, Hideaway, Direct-drive

Right-hand unit shown. (Hand of unit determined by cooling unit connection *when facing discharge.*)





HHDB model	Unit dimensions (in)[1]							
	A	B	D	E	R	S	U	V
S06	22	14	14	10-7/8	16-3/8	29-5/8	15-3/4	15-3/8
S08	24	16-1/2	16	13-3/8	18-3/8	29-5/8	15-3/4	15-3/8
S12	31	16-1/2	23	13-3/8	25-3/8	29-5/8	15-3/4	15-3/8
S16	39	16-1/2	31	13-3/8	33-3/8	29-5/8	15-3/4	15-3/8
S20	41	19	33	15-5/8	35-3/8	32-1/8	18-1/4	17-3/8

1. All dimensions approximate. Certified drawings available upon request.

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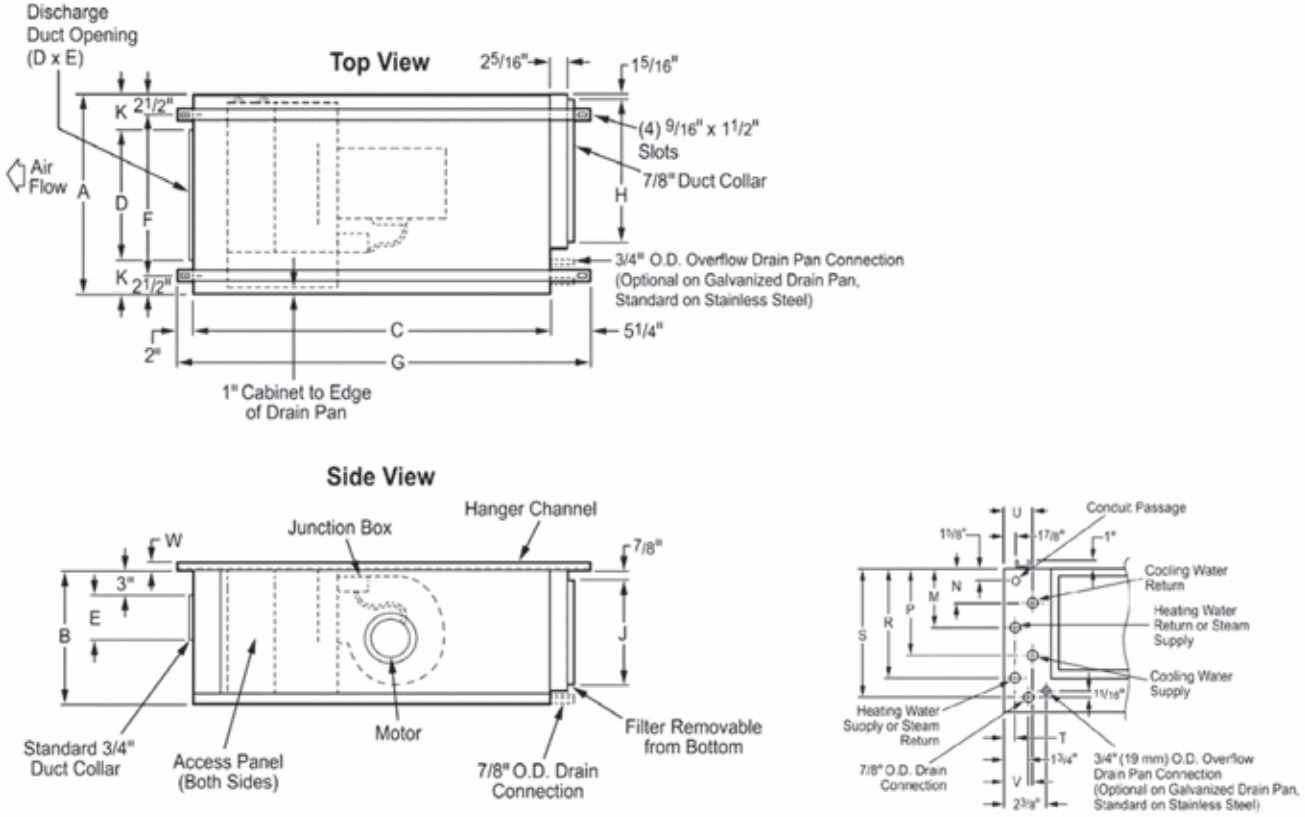
Dimensional Data - Large Capacity Fan Coils, Cabinet, Direct-drive

Right-hand unit shown. (Hand of unit determined by cooling unit connection *when facing discharge*.)



HCDB model	Unit dimensions (in)[1]																		
	A	B	C	D	E	F	G	H	J	K	M	N	P	R	S	T	U	V	W
S06	24	17-5/8	37	20	4	19	44-1/4	18-1/2	14-5/8	2	4-7/16	2-11/16	9-9/16	11-3/8	14-1/4	1-9/16	1-9/16	1-9/16	1
S08	26	17-5/8	46	20	6	21	53-1/4	18-1/2	14-5/8	3	4-7/16	4-7/16	12-1/16	13-7/8	16-3/4	1-9/16	1-9/16	3-3/4	1
S12	33	17-5/8	46	24	8	28	53-1/4	23-1/2	14-5/8	4-1/2	4-7/16	4-7/16	12-1/16	13-7/8	16-3/4	1-9/16	1-9/16	3-3/4	1
S16	44	17-5/8	46	36	8	39	53-1/4	38-1/2	14-5/8	4	4-7/16	4-7/16	8-3/16	13-3/4	16-3/4	2-1/4	2-1/4	2-1/4	1
S20	46	21-1/8	50	41-3/4	6	41	57-1/4	38-1/2	18-5/8	2-1/8	5-1/16	4-1/8	9-7/16	16-1/4	19-1/4	2-1/4	4-3/16	4-3/16	1-1/4

1. All dimensions approximate. Certified drawings available upon request.

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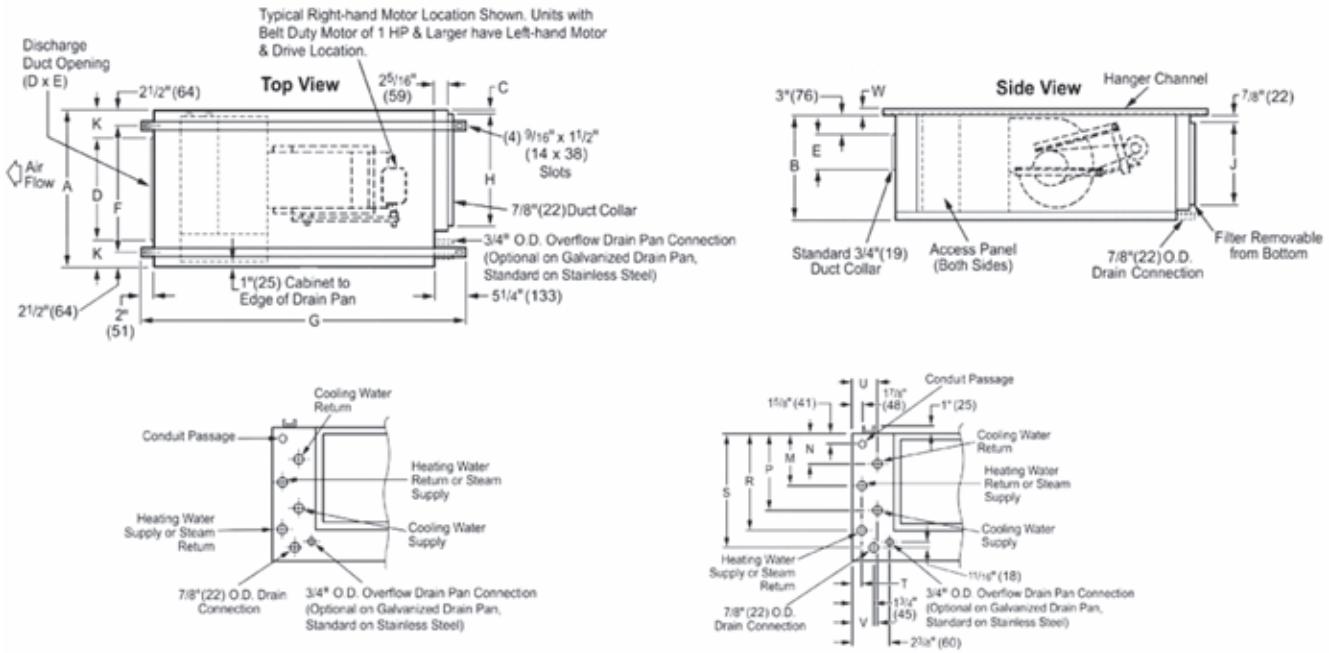
Dimensional Data - Large Capacity Fan Coils, Cabinet, Belt-drive

Right-hand unit shown. (Hand of unit determined by cooling unit connection *when facing discharge.*)



HCBB Model	No. of Fans	Unit dimensions (in)[1]									
		A	C	D	E	F	J	N	P	Q	R
S08	1	24	28-1/2	16-1/4	13-3/8	24	21	16-1/2	15-3/4	3	18-1/2
S12	1	31	28-1/2	23	13-3/8	31	28	16-1/2	15-3/4	3	25-1/2
S16	2	39	28-1/2	31	13-3/8	39	36	16-1/2	15-3/4	3	33-1/2
S20	2	41	28-1/2	33-1/4	15-3/8	41	38	18-3/4	18-1/4	3	35-1/2
S30	2	60	30	49	15-3/8	57	54	18-3/4	18-1/4	6	51-1/2

1. All dimensions approximate. Certified drawings available upon request.

Heating Performance - Hot Water Coil

Unit Size	Main Coil Rows	SCFM	Heating Performance			
			MBh (kW)	Q/ITD	GPM (L/s)	WPD ft of H_2O (kPA)
02	4 Row	200	19.2 (5.6)	0.175 (0.092)	1.2 (0.08)	0.6 (1.8)
03	4 Row	265	27.2 (8.0)	0.247 (0.131)	1.9 (0.12)	1.5 (4.5)
04	4 Row	374	38.9 (11.4)	0.354 (0.187)	2.9 (0.18)	3.4 (10.2)
06	4 Row	554	52.6 (15.4)	0.478 (0.252)	4.6 (0.29)	9.0 (26.9)
08	4 Row	634	64.3 (18.8)	0.585 (0.308)	5.5 (0.35)	14.8 (44.2)
10	4 Row	795	80.8 (23.7)	0.735 (0.388)	6.7 (0.42)	11.1 (33.2)
12	4 Row	1022	103.8 (30.4)	0.944 (0.497)	8.3 (0.52)	18.3 (54.7)

* All performance measured on high speed tap, 115 V, zero ESP, with a throwaway filter. Heating performance is based on 70°F (21°C) entering air temperature, 180°F (82°C) entering hot water temperature with a 30°F (17°C) DT.
* Capacities shown are for 4-row coil configuration. For other configurations, consult Catalog 723.

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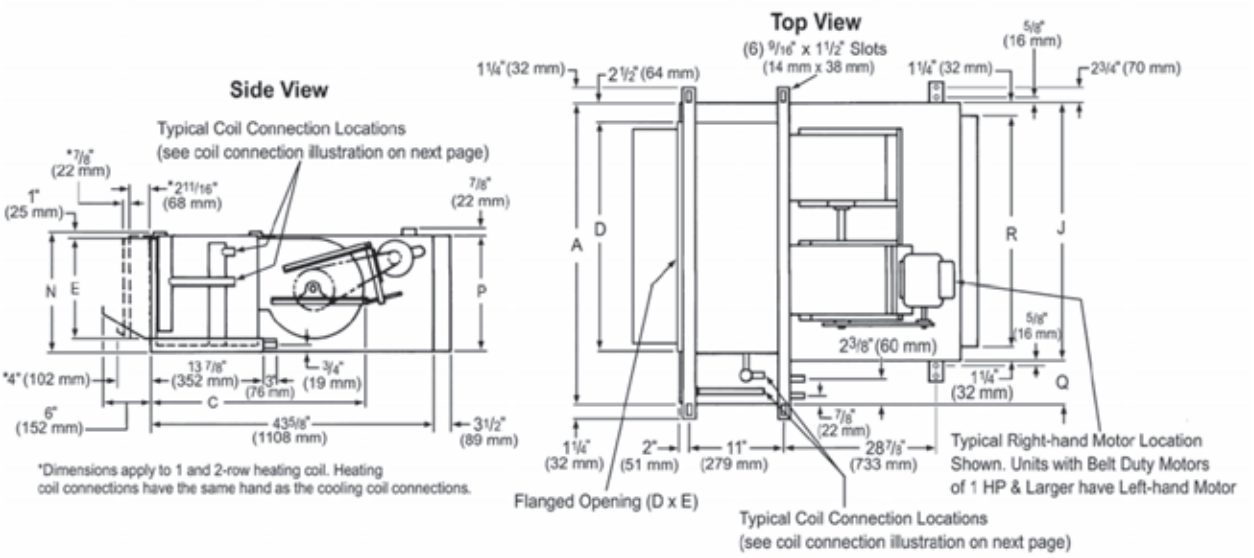
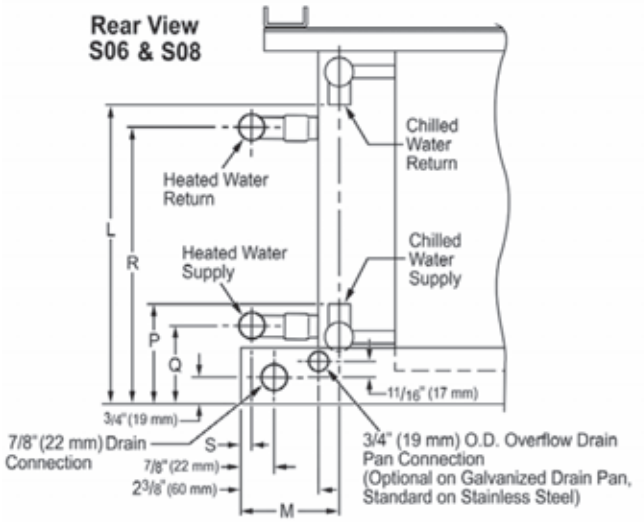
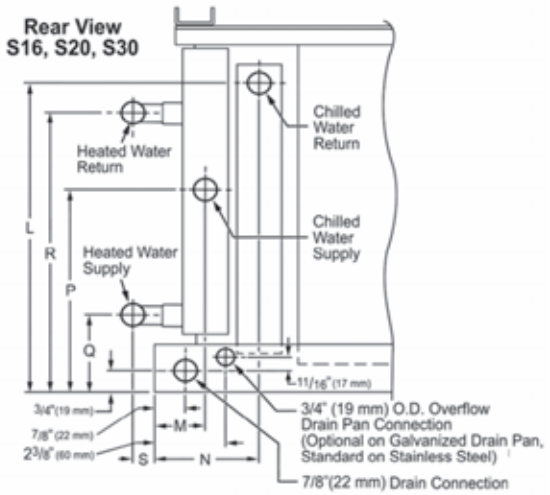
Dimensional Data - Large Capacity Fan Coils, Hideaway, Belt-drive

Right-hand unit shown. (Hand of unit determined by cooling unit connection *when facing discharge*.)







HHBB model	No. of fans	Unit dimensions (in)[1]									
		A	C	D	E	F	J	N	P	Q	R
S08	1	24	28-1/2	16-1/4	13-3/8	24	21	16-1/2	15-3/4	3	18-1/2
S12	1	31	28-1/2	23	13-3/8	31	28	16-1/2	15-3/4	3	25-1/2
S16	2	39	28-1/2	31	13-3/8	39	36	16-1/2	15-3/4	3	33-1/2
S20	2	41	28-1/2	33-1/4	15-3/8	41	38	18-3/4	18-1/4	3	35-1/2
S30	2	60	30	49	15-3/8	57	54	18-3/4	18-1/4	6	51-1/2

1. All dimensions approximate. Certified drawings available upon request.

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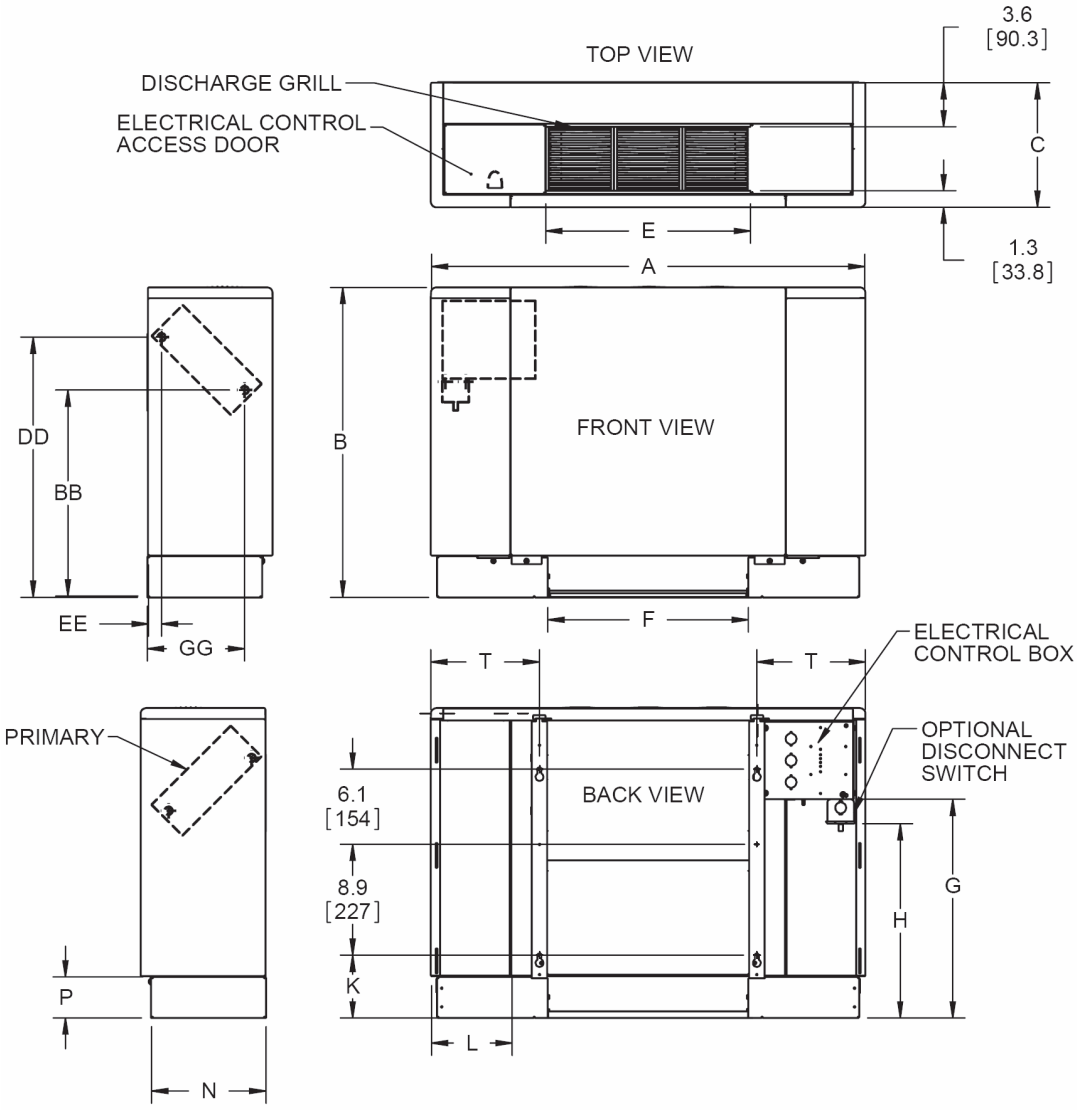
Dimensional Data - Flat Top Unit Heaters



Dimension		S02		S03		S04		S06		S08		S10		S12	
		inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
Unit Width	A	35.0	889	40.5	1029	46.0	1168	57.0	1448	62.5	1588	73.5	1867	84.5	2146
Unit Height	B	25.0	635	25.0	635	25.0	635	25.0	635	25.0	635	25.0	635	25.0	635
Unit Depth	C	10.0	254	10.0	254	10.0	254	10.0	254	10.0	254	10.0	254	10.0	254
Discharge Grille - Width	E	16.3	414	21.8	554	27.3	693	38.3	973	43.8	1113	54.8	1392	65.8	1671
Return Air Opening - Width	F	16.2	411	21.7	551	27.2	691	38.2	970	43.7	1110	54.7	1389	65.7	1669
Floor to Bottom Mtg Hole	K	5	127	5	127	5	127	5	127	5	127	5	127	5	127
Water Supply	BB	16.7	424	16.7	424	16.7	424	16.7	424	16.7	424	16.7	424	16.7	424
	GG	7.8	198	7.8	198	7.8	198	7.8	198	7.8	198	7.8	198	7.8	198
Water Return	DD	21	533	21	533	21	533	21	533	21	533	21	533	21	533
	EE	1.1	28	1.1	28	1.1	28	1.1	28	1.1	28	1.1	28	1.1	28

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Performance Data - ThinLine Horizontal Unit Heaters

Heating Performance: Standard Rating Coil

Unit Model	Unit Size	Nominal Air Flow SCFM	Number of Heating Rows	Heating Performance MBH	Hot Water Flow GPM	HW Pressure Drop ft
FHHH	02	200	3	29.9	2.0	0.9
	03	300	3	35.1	2.4	1.3
	04	400	3	42.3	2.9	2.0
	06	600	3	65.2	4.4	5.9
	08	800	3	73.6	5.0	8.2
	10	1000	3	104.8	7.1	8.3
	12	1200	3	133.6	9.1	15.0
FHHC	02	200	3	28.8	1.9	0.9
	03	300	3	34.6	2.3	1.2
	04	400	3	40.9	2.8	1.9
	06	600	3	62.9	4.3	5.5
	08	800	3	66.2	4.5	6.6
	10	1000	3	92.1	6.2	6.5
	12	1200	3	115.3	7.8	11.3

Hideaway unit without plenum at 0.05" ESP; Cabinet unit with 1" Throwaway filter, bottom return/front discharge configuration at 0" ESP
Heating: EAT=70; EWT/LWT=180°F/150°F.

Units with ECM Heating Performance

Unit Model	Unit Size	Air Flow SCFM	Number of Primary Rows	Heating Performance		
				Heating Capacity, MBH	Hot Water Flow, GPM	Water Pressure Drop, ft
FHHH, FHHC, FHHR any configuration	02	329	3	30.4	2.0	1.0
	03	393	3	34.7	2.3	1.2
	04	459	3	42.8	2.9	2.1
	06	704	3	64.2	4.4	5.7
	08	755	3	74.5	5.1	8.4
	10	1124	3	105.4	7.1	8.4
	12	1464	3	135.9	9.2	15.5

ECM motor at High speed setting, any external static pressure up to 0.5".
Unit of any configuration with standard throwaway (MERV 4) filter.
Heating: EAT=70; EWT/LWT=180°F/150°F.

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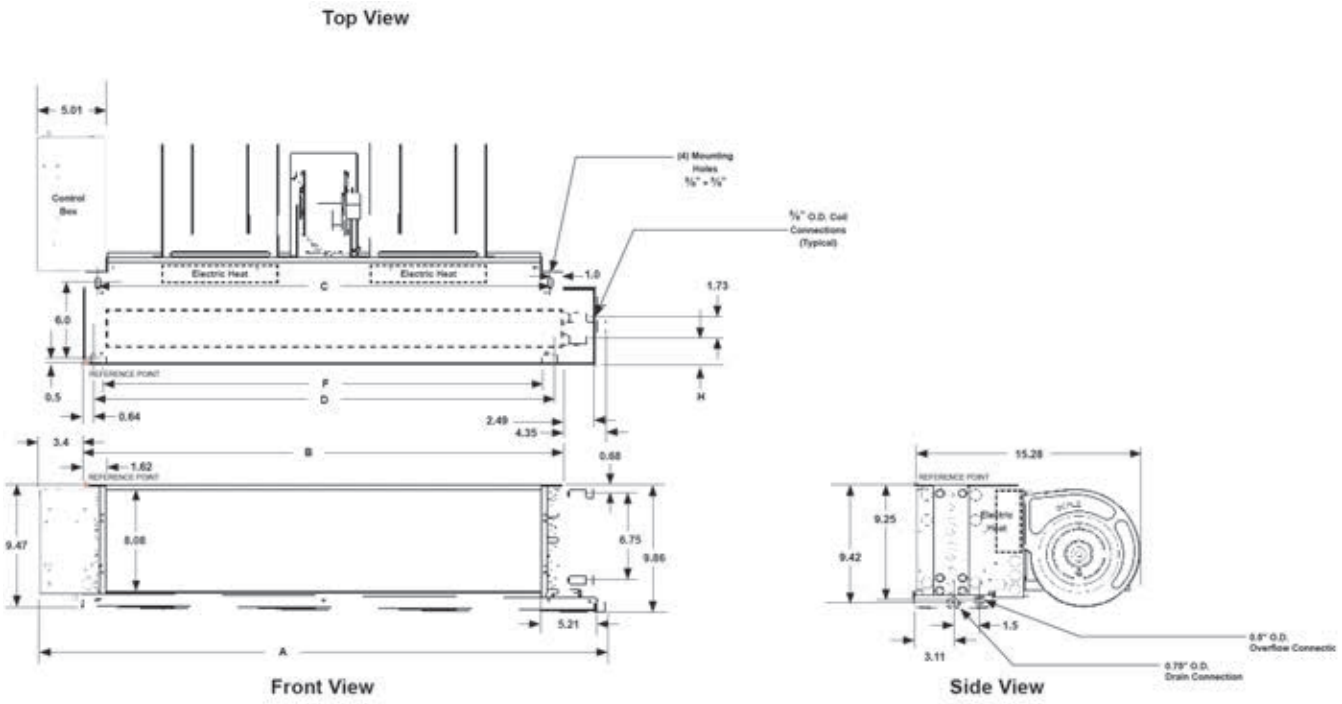
Performance Data - ThinLine Horizontal Unit Heaters

Dimensional Data

Hideaway Cabinet Unit Heater, front discharge – free return



Dimension		S02	S03	S04	S06	S08	S10	S12
		inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)
Overall Unit Width	A	28.48 (723)	28.48 (723)	33.98 (863)	44.98 (1142)	50.48 (12.82)	61.48 (1562)	72.48 (1841)
Chassis Width	B	20.63 (524)	20.63 (524)	26.13 (664)	37.13 (943)	42.63 (1083)	53.63 (1362)	64.63 (1641)
Mounting Hole Distance (Rear)	C	18.64 (473)	18.64 (473)	24.14 (613)	35.14 (892)	40.64 (1032)	51.64 (1312)	62.44 (1702)
Mounting Slot Location (Front)	D	19.35 (491)	19.35 (491)	24.85 (631)	35.85 (911)	41.35 (1050)	52.35 (1330)	63.35 (1609)
Discharge Opening - Width	F	17.39 (442)	17.39 (442)	22.84 (581)	33.89 (867)	39.39 (1000)	50.39 (1280)	61.39 (1559)
Primary Coil Location	H	1.81 (46) for 2- or 3-row primary coil; 2.81 (71) for 4- row primary coil						
Secondary Coil - Standard Capacity	L	2.86 (73)						
Secondary Coil - High Capacity		0.86 (22)						
Secondary Coil - Standard Capacity	K	5.0 (127)						
Secondary Coil - High Capacity		7.0 (178)						

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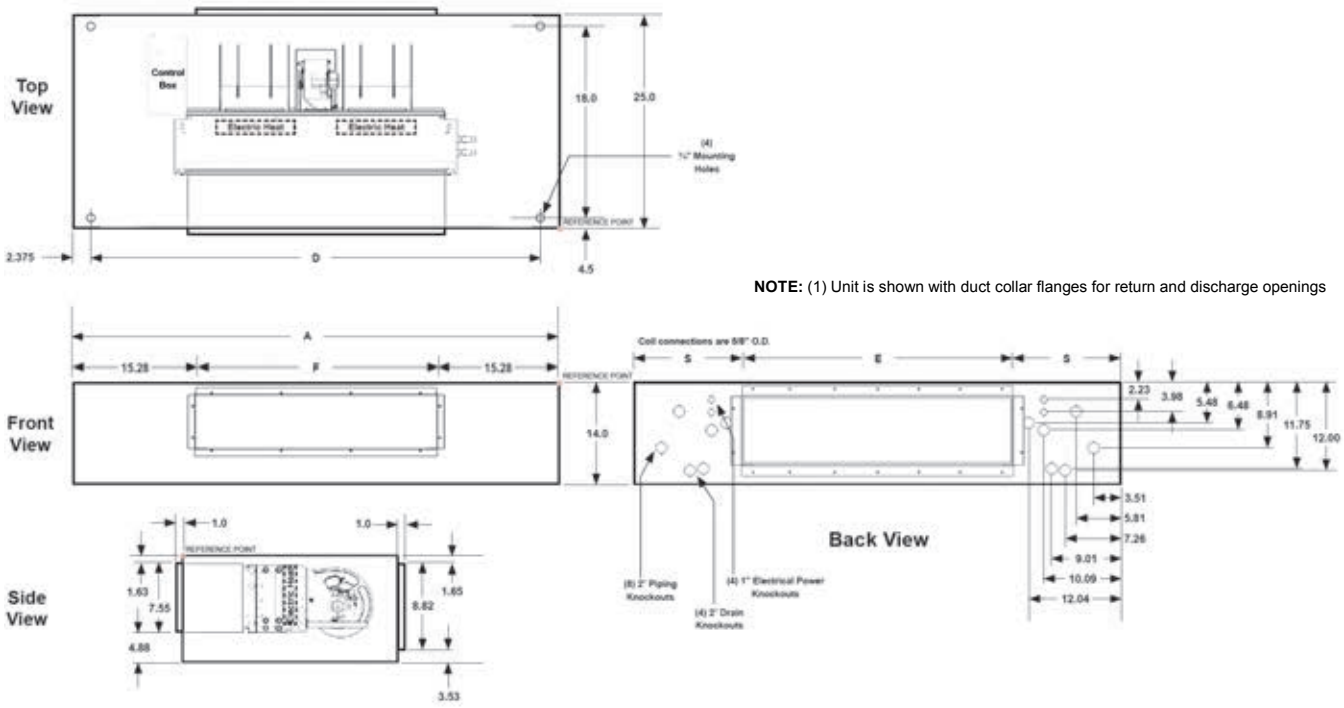
Performance Data - ThinLine Horizontal Unit Heaters

Dimensional Data

Exposed Cabinet Unit Heater, front discharge – rear return



NOTE: (1) Unit is shown with duct collar flanges for return and discharge openings

Dimension		S02	S03	S04	S06	S08	S10	S12
		inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)	inch (mm)
Overall Unit Width	A	47.64 (1210)	47.64 (1210)	53.14 (1350)	64.14 (1629)	69.64 (1769)	80.63 (2048)	91.64 (2328)
Mounting Hole Distance	D	40.64 (1032)	40.64 (1032)	46.14 (1172)	57.14 (1451)	62.64 (1591)	73.64 (1870)	84.64 (2150)
Return Air Opening - Width	E	19.0 (483)	19.0 (483)	22.9 (581)	34.5 (876)	38.4 (975)	50.0 (1270)	61.6 (1565)
Discharge Opening - Width	F	17.09 (434)	17.09 (434)	22.59 (574)	33.59 (853)	39.09 (993)	50.09 (1272)	61.09 (1552)
Return Air Opening Location	S	14.32 (364)	14.32 (364)	15.13 (384)	14.82 (376)	15.63 (397)	15.32 (389)	15.01 (381)

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Performance Data - Model FUHH and Model FUDH; 2 lbs Steam[1], 60°F Entering Air, High Motor Speed

Model	BTU/h	Condensate lb/hr	Sq ft EDR	CFM	Outlet velocity (FPM)	Final air temp (°F)	Air Data					Heat spread @ max height	Sound class
							Max. mounting height (ft)[2]		Heat spread @ max height		Sound class		
Vertical Units													
FUDH-42	42,000	43	175	950	779	103	11	15	17	11	II	1/20	1550
FUDH-59	59,000	61	246	1150	943	111	13	18	20	13	II	1/20	1550
FUDH-78	78,000	81	325	1550	992	110	14	19	22	14	II	1/8	1550
FUDH-95	95,000	99	396	1775	1136	113	16	21	24	16	II	1/8	1550
FUDH-139	139,000	144	579	2500	1284	116	18	24	27	18	III	1/4	1075
FUDH-161	161,000	167	671	2900	1490	115	21	28	31	21	III	1/4	1075
FUDH-193	193,000	200	804	3900	1643	109	23	31	34	23	IV	1/2	900
FUDH-212	212,000	219	883	4300	1812	109	25	33	37	25	IV	1/2	1075
FUDH-247	247,000	256	1029	5130	1805	107	26	34	39	26	IV	5/8	900
FUDH-279	279,000	288	1163	5800	2040	107	30	37	45	30	V	5/8	1075
FUDH-333	333,000	345	1388	6600	1968	110	30	37	45	30	V	1	1075
FUDH-385	385,000	398	1604	7860	1930	106	30	36	45	30	VI	1	1140
FUDH-500	500,000	518	2083	10,790	2490	103	37	44	56	37	VI	1-1/2	1140
FUDH-610	610,000	631	2542	12,350	2345	106	36	43	54	36	VI	1-1/2	1140
Horizontal Units													
FUHH-18	18,000	18	75	400	510	102	9	15	17	11	II	1/30	1550
FUHH-24	24,000	25	100	450	580	109	9	18	18	13	II	1/30	1550
FUHH-33	33,000	35	138	630	510	109	10	19	20	14	II	1/15	1550
FUHH-47	47,000	49	196	730	600	120	12	21	25	16	III	1/15	1550
FUHH-63	63,000	66	263	1120	605	112	14	24	29	18	III	1/10	1550
FUHH-86	86,000	89	358	1340	730	119	15	28	31	21	III	1/10	1550
FUHH-108	108,000	111	450	1550	625	125	15	31	32	23	III	1/8	1075
FUHH-121	121,000	126	504	1775	715	123	16	34	33	25	III	1/8	1075
FUHH-165	165,000	170	688	2500	750	121	17	37	34	26	IV	1/4	1075
FUHH-193	193,000	200	804	2900	870	122	18	37	37	30	IV	1/4	1075
FUHH-258	258,000	267	1075	3900	920	121	19	36	40	30	V	1/3	1075
FUHH-290	290,000	300	1208	4300	1010	122	20	44	44	37	V	1/2	1100
FUHH-340	340,000	352	1417	5130	965	121	20	43	46	36	V	1/2	1100

1. For hot water performance data, see Catalog FC-FUHH00.
2. Applies to most popular motor.

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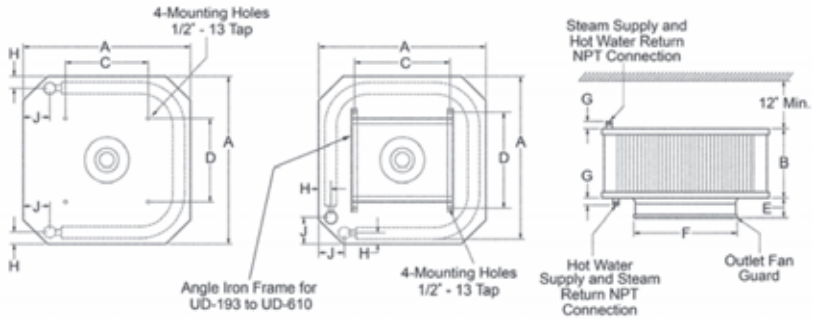
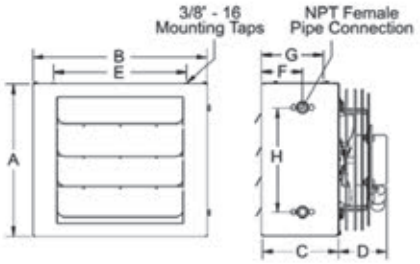
Dimensional Data-Steam/Hot Water Unit Heaters

Model FUDH

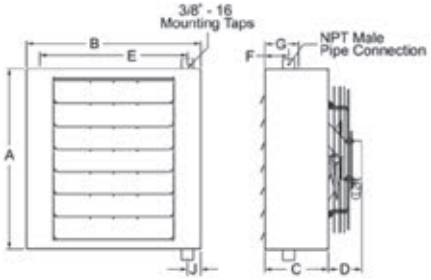


Model FUHH

Sizes 18—86



Sizes 108—340



Model FUHH and Model FUDH Dimensions (inches)

Model	A	B	C	D	E	F	G	H	J	NPT connections	Fan dia.	Approx. shipping weight (lbs)
Vertical Units												
FUDH-42, FUDH-59	23	6-3/8	12	12	3-1/8	15	2-3/4	1-7/8	3-1/4	1-1/2	13-3/4	52
FUDH-78, FUDH-95	25	6-3/8	13	13	3-1/8	17	2-3/4	1-7/8	3-1/4	1-1/2	15-3/4	64
FUDH-139, FUDH-161	35	10-3/8	14-7/16	14-7/16	3-1/8	18-7/8	2-3/4	2	3-1/4	1-1/2	17-3/4	99
FUDH-193, FUDH-212	30	12-3/8	19	17	4	20-7/8	2-3/4	2	3-5/8	2	19-3/4	126
FUDH-247, FUDH-279	35	12-3/8	20	18	4	22-7/8	2-3/4	2	3-5/8	2	21-3/4	154
FUDH-333, FUDH-385	35	18-3/8	21	21	4	24-3/4	2-3/4	2-1/2	4-1/2	2-1/2	23-3/4	189
FUDH-510	43	18-3/8	25	25	4	28-3/4	2-3/4	2-1/2	4-1/2	2-1/2	27-3/4	270
FUDH-610	43	18-3/8	27	27	4	30-3/4	2-3/4	2-1/2	4-1/2	2-1/2	29-3/4	290
Horizontal Units												
FUHH-18	15	16-7/8	7-1/2	4-1/2	12	3-1/2	5	10	–	3/4	9	18
FUHH-24	15	16-7/8	7-1/2	4-1/2	12	3-1/2	5	10	–	3/4	9	19
FUHH-33	19	19-3/4	7-1/2	4-3/4	12	3-1/2	5	14	–	3/4	12	35
FUHH-47	19	19-3/4	7-1/2	4-3/4	12	3-1/2	5	14	–	3/4	12	36
FUHH-63	19	25-3/4	8-1/2	4-3/4	18	3-1/2	5	14	–	3/4	14	51
FUHH-86	19	25-3/4	8-1/2	4-3/4	18	3-1/2	5	14	–	3/4	14	52
FUHH-108	27	25-7/8	9-1/2	6-1/4	18	3-1/2	5-1/4	–	2	1-1/2	18	76
FUHH-121	27	25-7/8	9-1/2	6-1/4	18	3-1/2	5-1/4	–	2	1-1/2	18	77
FUHH-165	27	31-7/8	10	6-1/4	24-7/8	3-1/2	6-1/4	–	2	1-1/2	20	95
FUHH-193	27	31-7/8	10	8-3/8	24-7/8	3-1/2	6-1/4	–	2	1-1/2	20	96
FUHH-258	33	40-13/16	11	8-3/8	32-7/8	3-1/2	6-1/4	–	2-1/4	2	22	165
FUHH-290	33	40-13/16	11	8-3/8	32-7/8	3-1/2	6-1/4	–	2-1/4	2	22	167
FUHH-340	39	40-13/16	12	8-3/8	32-7/8	3-1/2	7-1/4	–	2-1/4	2	24	182

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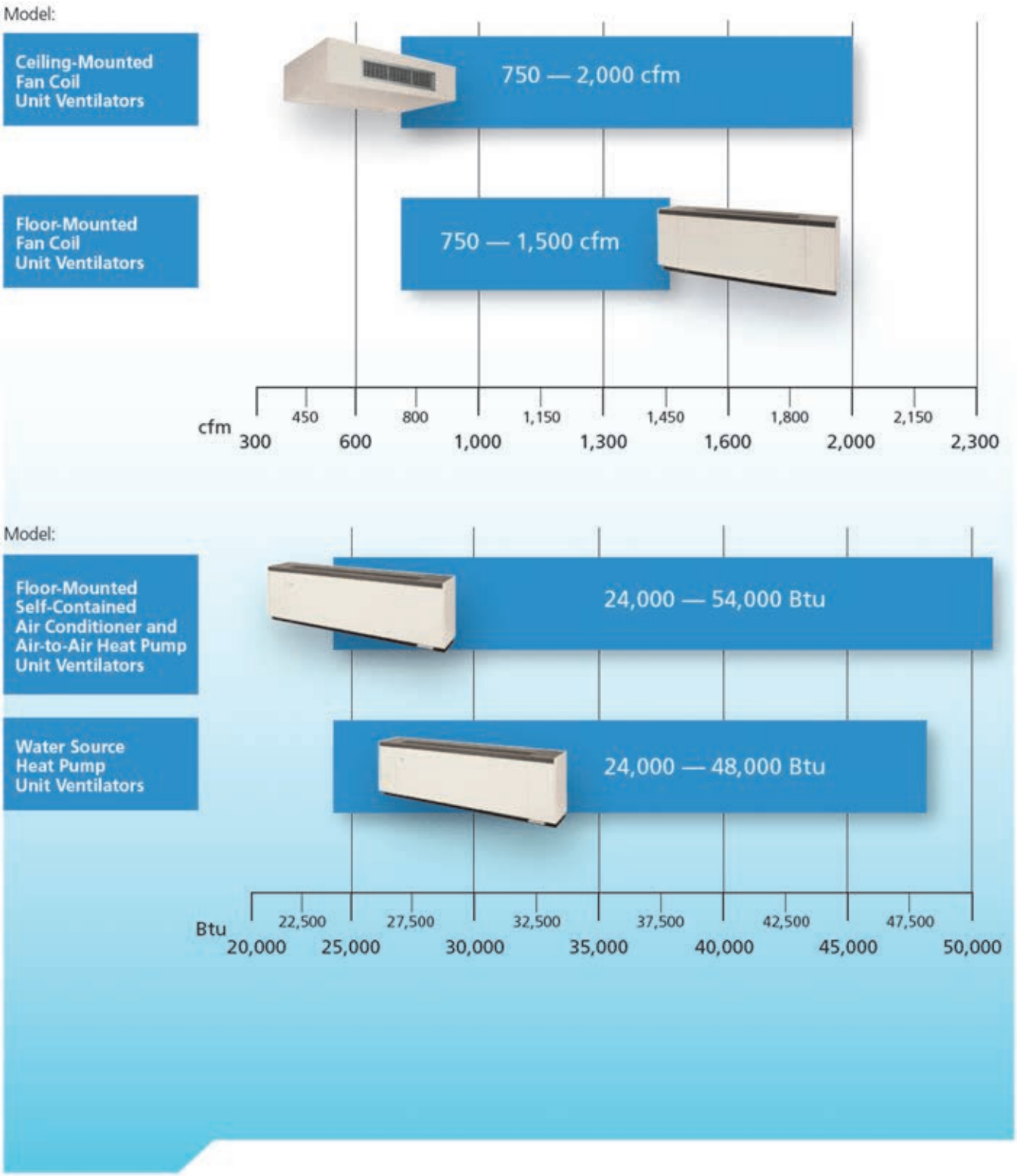
Unit Ventilators

Product Summary Chart



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Physical Data - Unit Ventilators

Built Up Floor Units - Models AV

Unit series			07	10	13	15
Nominal airflow, CFM (L/s)			750 (354)	1000 (472)	1250 (590)	1500 (708)
Filter data	Nominal size	inches	10 × 36-1/2 × 1	10 × 48-1/2 × 1	10 × 60-1/2 × 1	10 × 36-1/2 × 1
		mm	254 × 927 × 25	254 × 1232 × 25	254 × 1537 × 25	254 × 927 × 25
	Area	ft² (m²)	2.54 (0.24)	3.37 (0.31)	4.2 (0.39)	5.08 (0.47)
	Quantity		1	1	1	2
Shipping weight, lb (kg)[1]	16 5/8" deep units		350 (158)	425 (193)	495 (225)	570 (259)
	21 7/8" deep units		370 (168)	445 (202)	525 (238)	600 (272)
Height, inches (mm)			30-1/8 (765)			
Depth, inches (mm)		Standard	16-5/8 (422)	16-5/8 (422)	16-5/8 (422)	16-5/8 (422)
		Optional	21-7/8 (556)	21-7/8 (556)	21-7/8 (556)	21-7/8 (556)
Width, inches (mm)[2]			62 (1575)	74 (1880)	86 (2184)	98 (2489)

1. Approximate weights based on face and bypass damper controlled unit with 4-row cooling coil, high capacity hot water coil and MicroTech® II controls.
2. Measurement is without end panels.

Built Up Ceiling Units - Models AH

Unit series			07	10	13	15	20
Nominal airflow, CFM (L/s)			750 (354)	1000 (472)	1250 (590)	1500 (708)	2000 (994)
Filter data	Nominal size	inches	10 × 36-1/2 × 1	10 × 48-1/2 × 1	10 × 60-1/2 × 1	10 × 36-1/2 × 1	10 × 36-1/2 × 1
		mm	254 × 927 × 25	254 × 1232 × 25	254 × 1537 × 25	254 × 927 × 25	254 × 914 × 25
	Area	ft² (m²)	2.54 (0.24)	3.37 (0.31)	4.2 (0.39)	5.08 (0.47)	5.08 (0.47)
	Quantity		1	1	1	2	2
Shipping weight, lb (kg)[1]	Discharge air arrangement	AH, AT, BD, FD, FG[2]	385 (179)	465 (211)	540 (245)	600 (272)	680 (309)
Height, inches (mm)			16-5/8 (422)	16-5/8 (422)	16-5/8 (422)	16-5/8 (422)	16-5/8 (422)
Depth, inches (mm)		AH, AT	36 (914)	36 (914)	36 (914)	36 (914)	—
		BD, FD, FG[2]	40 (1016)	40 (1016)	40 (1016)	40 (1016)	40 (1016)
Width, inches (mm)			62 (1575)	74 (1880)	86 (2184) 98	98 (2489)	98 (2489)

1. Approximate weights based on face and bypass damper controlled unit with 4-row cooling coil, high capacity hot water coil and MicroTech® II controls.
2. FD and FG are for 2000 CFM only.

Self-Contained Floor Units - Models AZ & AE

Unit series			024	036	044	054
Nominal airflow, CFM (L/s)			1000 (472)	1250 (590)	1500 (708)	1500 (708)
Filter data	Nominal size	inches	10 × 48-1/2 × 1	10 × 60-1/2 × 1	10 × 36-1/2 × 1	10 × 36-1/2 × 1
		mm	254 × 1232 × 25	254 × 1537 × 25	254 × 927 × 25	254 × 927 × 25
	Area	ft² (m²)	3.37 (0.31)	4.2 (0.39)	5.08 (0.47)	5.08 (0.47)
	Quantity		1	1	2	2
Shipping weight, lb (kg)			885 (402)	975 (442)	1075 (448)	1075 (448)
Height, inches (mm)			30 (762)	30 (762)	30 (762)	30 (762)
Room depth, inches (mm)		Standard	16-5/8 (422)	16-5/8 (422)	16-5/8 (422)	16-5/8 (422)
		Optional	21-7/8 (556)	21-7/8 (556)	21-7/8 (556)	21-7/8 (556)
			28 (711)	28 (711)	28 (711)	28 (711)
			19-5/8 (498)	19-5/8 (498)	19-5/8 (498)	19-5/8 (498)
Width, inches (mm)[1]			86 (2184)	98 (2489)	110 (2794)	110 (2794)

1. Measurement is without end panels.

Water Source Heat Pump Floor Units - Models AR, ER & GR

Unit series			024	040	048
Nominal airflow, CFM (L/s)			1000 (472)	1250 (590)	1500 (708)
Filter data	Nominal size	inches	10 × 48-1/2 × 1	10 × 60-1/2 × 1	10 × 36-1/2 × 1
		mm	254 × 1232 × 25	254 × 1537 × 25	254 × 927 × 25
	Area	ft² (m²)	3.37 (0.31)	4.2 (0.39)	5.08 (0.47)
	Quantity		1	1	2
Shipping weight, lb (kg)			885 (402)	975 (442)	1075 (448)
Height, inches (mm)			30 (762)	30 (762)	30 (762)
Room depth, inches (mm)		Standard	16-5/8 (422)	16-5/8 (422)	16-5/8 (422)
		Optional	21-7/8 (556)	21-7/8 (556)	21-7/8 (556)
Width, inches (mm)[1]			86 (2184)	98 (2489)	110 (2794)

1. Measurement is without end panels.

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Performance Data - Unit Ventilators

Nominal Capacity Data - Models AV/AH

Unit series[1]		07, 07	10, 10	13, 13	15, 15	20, 20
Cooling capacity (BTU/h)[3]	CFM	750	1000	1250	1500	2000
	2-row	17,900	23,600	31,500	38,800	44,900
	3-row	21,700	33,300	41,100	51,200	50,800
	4-row	27,800	35,600	43,400	56,700	62,200
	5-row	27,900	35,200	45,400	54,500	—
Steam heat (BTU/h)[4]	Standard	50,300	75,200	89,000	111,500	140,800
	High	66,500	89,900	112,500	128,500	227,900
Electric heat (BTU/h)	Low	20,500	27,300	34,100	41,000	41,000
	High	41,000	54,600	68,300	81,900	81,900
Hot water heat[5]	1-row	37,000	49,500	57,000	66,000	69,800
	2-row	48,300	62,000	74,100	97,200	96,700
	3-row	56,800	72,000	84,500	97,500	115,000

1. All data is for F Vintage units.
2. 80°F/67°F entering air temperature; 45°F entering water temperature; 10°F water temperature rise; 10 GPM.
3. 0°F entering air temperature; 2 PSI steam at 218.5°F.
4. 60°F entering air temperature; 160°F entering water temperature; 6 GPM water flow.

Nominal Capacity Data - Model AZ

Unit series			AZ024	AZ036	AZ044	AZ054
Full load cooling capacity[1]	Total	BTU/h	22,100	36,800	44,000	52,100
		Watts	6478	10,786	12,986	15,271
	Sensible	BTU/h	15,500	23,800	31,500	35,500
		Watts	4543	6976	9233	10,405
	Efficiency	EER	9.7	9.5	9.4	9.3
	Power	kW	2.3	3.9	4.7	5.6
Part load cooling capacity[2]	Total	BTU/h	18,000	28,000	36,300	42,700
		Watts	5276	8207	10,640	12,515
	Sensible	BTU/h	12,200	19,000	24,900	27,500
		Watts	3576	5569	7298	8060
	Efficiency	EER	12.6	12.4	11.8	11.8
	Power	kW	1423	2259	3060	3600
Steam heat[3]	Low capacity (68)	BTU/h	52,000	64,000	77,800	77,800
		Watts	15,236	18,752	22,795	22,795
	High capacity (69)	BTU/h	85,700	105,000	128,500	128,500
		Watts	25,110	30,765	37,650	37,650
Electric heat	Low	kW	8.0	10.0	12.0	12.0
		MBh	27.3	34.1	41.0	41.0
	High	kW	16.0	20.0	24.0	24.0
		MBh	54.6	68.3	81.9	81.9
Hot water heat[4]	1-row coil	BTU/h	49,500	57,000	66,000	66,000
		Watts	13,390	15,851	18,693	18,693
	2-row coil	BTU/h	62,000	74,100	97,200	97,200
		Watts	18,313	21,536	25,959	25,959

1. Conditions: Indoor 80ºF (27ºC) DB / 67ºF (19ºC) WB, Outdoor 95ºF (35ºC) DB / 75ºF (24ºC) WB.
2. Conditions: Indoor 80ºF (27ºC) DB / 67ºF (19ºC) WB, Outdoor 82ºF (28ºC) DB / 65ºF (18ºC) WB.
3. Steam Heating @ 2 psig Steam (13.8 kPA); 60°F (16ºC) Entering Air Temperature.
4. 60°F (16ºC) Entering Air Temperature; 160°F (71ºC) Entering Water Temperature; 6 GPM (22.7 Lpm) Water Flow.

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Performance Data - Unit Ventilators

Nominal Capacity Data - Model AE

Unit series			AE024	AE036	AE044	AE054
Full load cooling capacity[1]	Total	BTU/h	21,100	39,300	43,700	51,200
		Watts	6180	11,520	1,810	15,000
	Sensible	BTU/h	15,700	25,500	30,000	34,400
		Watts	4530	7500	8790	10,080
	Efficiency	EER	9.1	9.7	9.1	9.1
	Power	kW	2.3	4.1	4.8	5.6
Part load cooling capacity[2]	Total	BTU/h	16,900	30,800	35,500	41,600
		Watts	4950	9030	10,410	12,180
	Sensible	BTU/h	12,100	20,000	23,800	26,600
		Watts	3540	5850	6990	7770
	Efficiency	EER	11.7	11.7	11.8	11.5
	Power	kW	1450	2630	3010	3620
Full load heating Capacity[3]	Total	BTU/h	20,700	35,000	41,600	49,700
		Watts	6090	10,230	12,180	14,580
	Efficiency	COP	3.0	2.6	2.6	2.5
	Power	kW	2.1	3.9	4.6	5.8
Part load heating capacity[4]	Total	BTU/h	17,700	29,100	36,100	43,000
		Watts	5160	8520	10,560	12,600
	Efficiency	COP	3.3	2.8	3.0	2.8
	Power	kW	1560	3055	3525	4500
Electric heat	Low	kW	8.0	10.0	12.0	12.0
		MBh	27.3	34.1	41.0	41.0
	High	kW	16.0	20.0	24.0	24.0
		MBh	54.6	68.3	81.9	81.9

1. Conditions: Indoor 80ºF (27ºC) DB / 67ºF (19ºC) WB, Outdoor 95ºF (35ºC) DB / 75ºF (24ºC) WB.
2. Conditions: Indoor 80ºF (27ºC) DB / 67ºF (19ºC) WB, Outdoor 82ºF (28ºC) DB / 65ºF (18ºC) WB.
3. Conditions: Indoor 70ºF (21ºC) DB / 60ºF (16ºC) WB, Outdoor 47ºF (8ºC) DB / 43ºF (6ºC) WB.
4. Conditions: Indoor 70ºF (21ºC) DB / 60ºF (16ºC) WB, Outdoor 62ºF (17ºC) DB / 56.5ºF (14ºC) WB.

Nominal Capacity Data - Water Loop at High Indoor Fan Speed-Models AR/ER

Unit series				AR/ER024	AR/ER040	AR/ER048
Boiler/ tower	Water flow		GPM	6.5	10.0	12.0
			L/s	0.41	0.63	0.76
	Cooling[1]	Total	BTU/h	23,000	39,200	48,100
			Watts	6740	11,490	14,100
		Sensible	BTU/h	17,600	28,000	35,900
			Watts	5160	8210	10,520
		Efficiency	EER	13.0	13.5	14.0
		Power	kW	1.8	2.9	3.4
		Nominal Airflow CFM (L/s)		1000 (472)	1250 (590)	1500 (708)
	Heating[2]	Total	BTU/h	28,500	45,900	56,000
			Watts	8350	13,450	16,410
		Efficiency	COP	4.5	4.2	4.4
		Power	kW	1.8	3.2	3.7
Electric heat	Low		kW	8.0	10.0	12.0
			MBh	27.3	34.1	41.0
	High		kW	16.0	20.0	24.0
			MBh	54.6	68.3	81.9

1. Based on ASHRAE and ISO 13256-1 conditions of 86°F (30°C) entering water temperature.
2. Based on ASHRAE and ISO 13256-1 conditions of 68°F (20°C) entering water temperature.

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Performance Data - Unit Ventilators

Nominal Capacity Data - Ground Loop at High Indoor Fan Speed - Model GR

Unit series				GR024	GR040	GR048
Boiler/ tower	Coolant flow		GPM	6.5	10.0	12.0
			L/s	0.41	0.63	0.76
	Cooling[1]	Total	BTU/h	23,800	40,300	49,800
			Watts	6980	11,810	14,600
		Sensible	BTU/h	18,100	28,400	36,500
			Watts	5310	8320	10,700
		Efficiency	EER	14.6	15.0	15.6
		Power	kW	1.2	1.9	2.3
		Nominal Airflow CFM (L/s)		1000 (472)	1250 (590)	1500 (708)
	Heating[2]	Total	BTU/h	17,500	35,100	34,000
			Watts	5130	10,290	9970
		Efficiency	COP	3.3	3.5	3.3
		Power	kW	1.6	2.9	3.0
Electric heat	Low		kW	8.0	10.0	12.0
			MBh	27.3	34.1	41.0
	High		kW	16.0	20.0	24.0
			MBh	54.6	68.3	81.9

1. Based on ASHRAE and ISO 13256-1 conditions of 77°F (25°C) entering water temperature of 15% brine solution.
2. Based on ASHRAE and ISO 13256-1 conditions of 32°F (0°C) entering water temperature of 15% brine solution.

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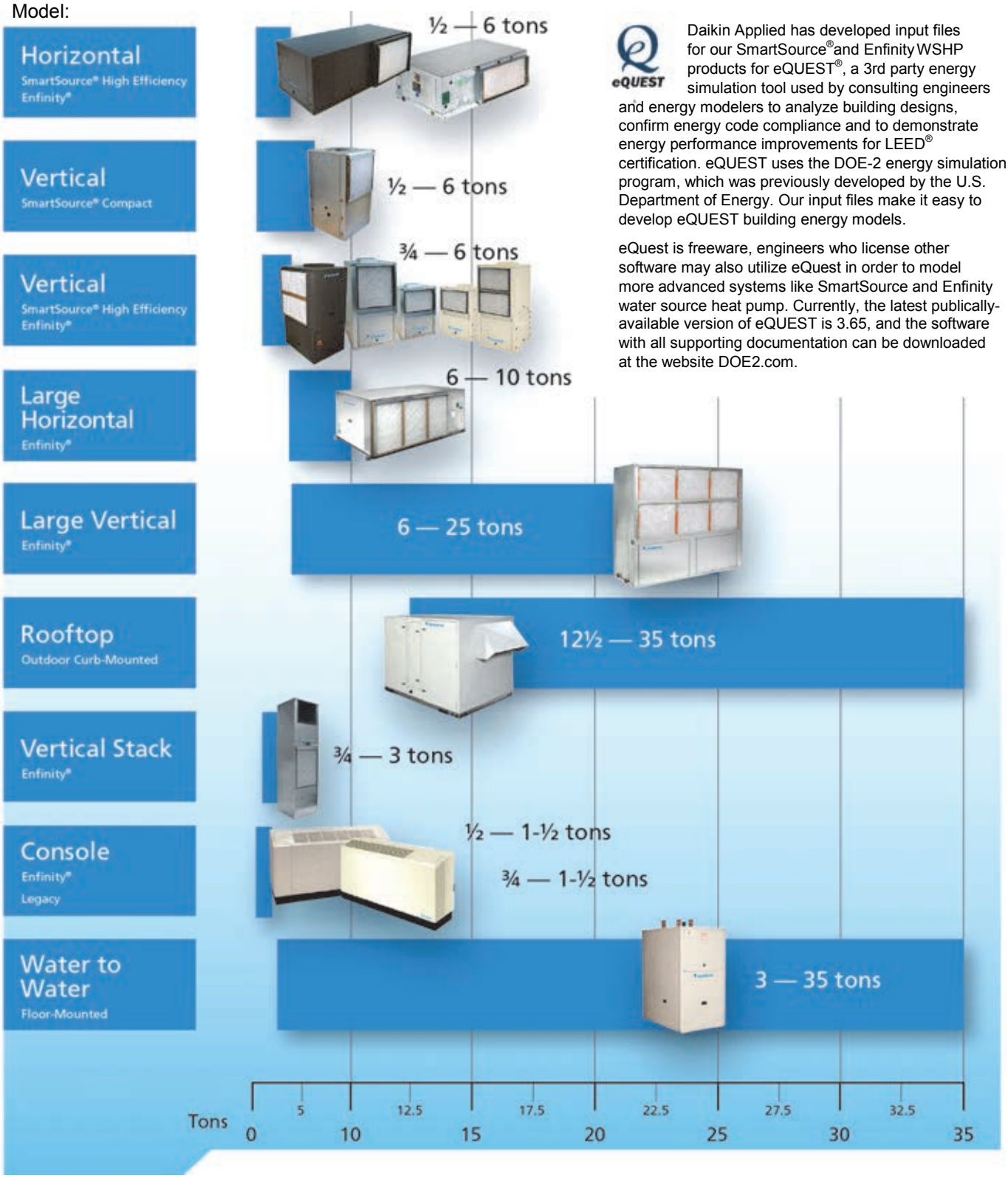
Water Source Heat Pumps

Product Summary Chart



Daikin Applied has developed input files for our SmartSource® and Enfinity WSHP products for eQUEST®, a 3rd party energy simulation tool used by consulting engineers and energy modelers to analyze building designs, confirm energy code compliance and to demonstrate energy performance improvements for LEED® certification. eQUEST uses the DOE-2 energy simulation program, which was previously developed by the U.S. Department of Energy. Our input files make it easy to develop eQUEST building energy models.

eQuest is freeware, engineers who license other software may also utilize eQuest in order to model more advanced systems like SmartSource and Enfinity water source heat pump. Currently, the latest publically-available version of eQUEST is 3.65, and the software with all supporting documentation can be downloaded at the website DOE2.com.

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SmartSource® High Efficiency Water Source Heat Pumps

GSV/GSH, GTV/GTH Dimensional Data

Single Stage Unit Size	Model GSV			Model GSH		
	W (in.)	D (in.)	H (in.)	W (in.)	L (in.)	H (in.)
007, 009, 012	21.6	22.65	34.5	21.6	45.0	17.3
015, 019	22.4	25.6	37.5	22.4	50.3	19.3
024, 030	22.4	26.0	48.0	22.4	63.3	19.3
036	25.0	32.5	50.50	25.0	73.0	21.3
042, 048	25.0	32.5	54.5	25.0	78.4	21.3
060, 070	25.0	32.5	58.5	25.00	83.8	21.3
2-Stage Unit Size	**Model GTV**			**Model GTH**		
026, 032	22.4	26.0	48.0	22.4	63.3	19.3
038	25.0	32.5	50.5	25.0	73.0	21.3
044, 049	25.0	32.5	54.5	25.0	78.4	21.3
064, 072	25.0	32.5	58.5	25.0	83.8	21.3

Single Stage Models GSV and GSH - AHRI Performance Data

(Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-1)

Unit Size	Stage	CFM	GPM	Water Loop (Boiler Tower)				Ground Loop (Geothermal)			
				Cooling		Heating		Cooling		Heating	
				BTU/h	EER	BTU/h	COP	BTU/h	EER	BTU/h	COP
007	Full Load	250	2.2	8000	15.4	9800	5.5	8400	19.8	6200	3.9
009	Full Load	300	2.4	9700	12.8	12000	4.8	10200	18.8	7500	3.8
012	Full Load	400	3.3	12700	15.5	15700	5.4	13300	18.1	10000	3.9
015	Full Load	500	3.8	15300	18.1	19100	5.9	16000	21.2	11700	4.1
019	Full Load	600	4.4	17500	15.7	22600	5.7	18700	20.6	13800	4.1
024	Full Load	800	6.5	26,200	16.9	28,900	6.0	27,500	22.2	17,700	4.1
030	Full Load	1,000	7.5	30,000	17.3	33,600	5.8	31,300	20.1	21,600	4.1
036	Full Load	1,250	9.0	37,300	19.2	40,800	6.0	38,500	22.0	26,200	4.3
042	Full Load	1,400	10.5	43,900	17.5	48,600	5.4	45,500	20.2	31,300	4.0
048	Full Load	1,600	12.2	50,500	17.2	57,100	5.4	52,700	19.9	36,900	4.0
060	Full Load	2,000	16.0	63,700	17.4	74,200	5.2	66,300	20.0	46,500	3.8
070	Full Load	2,160	17.5	73,400	15.9	89,000	5.0	75,700	18.0	55,800	3.7

2-Stage Models GTV and GTH - AHRI Performance Data

(Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-1)

Unit Size	Stage	CFM	GPM	Water Loop (Boiler Tower)				Ground Loop (Geothermal)			
				Cooling		Heating		Cooling		Heating	
				BTU/h	EER	BTU/h	COP	BTU/h	EER	BTU/h	COP
026	Part Load	700	6.5	19,800	20.3	21,800	6.4	22,200	29.8	15,100	4.6
	Full Load	800	6.5	26,400	18.0	29,300	5.7	27,600	20.7	18,100	4.1
032	Part Load	875	7.5	24,700	18.5	27,800	6.0	26,800	25.9	19,800	4.5
	Full Load	1,000	7.5	32,500	16.5	36,400	5.3	33,800	18.9	23,700	4.1
038	Part Load	1,090	9.0	28,300	20.2	32,600	6.4	30,500	28.8	22,500	4.7
	Full Load	1,250	9.0	39,000	17.6	44,400	5.6	40,200	20.1	28,100	4.2
044	Part Load	1,225	10.5	32,900	19.7	36,600	6.0	35,500	28.3	25,600	4.3
	Full Load	1,400	10.5	44,400	17.3	50,100	5.4	45,900	19.8	31,700	4.0
049	Part Load	1,400	12.2	36,900	19.6	40,800	6.0	39,600	28.2	29,200	4.3
	Full Load	1,600	12.2	48,900	16.7	55,300	5.3	50,600	19.2	35,900	4.0
064	Part Load	1,750	16.0	48,200	19.7	53,800	5.8	52,200	28.0	38,300	4.3
	Full Load	2,000	16.0	64,800	17.4	76,100	5.2	67,100	19.7	47,000	3.9
072	Part Load	1,920	17.5	56,400	18.5	64,600	5.5	60,700	26.1	46,200	4.2
	Full Load	2,160	17.5	72,700	15.9	88,400	5.0	75,300	18.1	55,200	3.7

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SmartSource® Compact Vertical Water Source Heat Pump WGCV

GCV Dimensional Data

Unit size	L (in.)	W (in.)	H (in.)
007, 009, 012	19	19	24
015, 019	21-1/2	21-1/2	32
024, 030	21-1/2	21-1/2	39
036, 042	21-1/2	26	44
048, 060	24	32-1/2	46
070	26	33-1/4	54-1/8

Compact model GCV with PSC motor - AHRI Performance Data

Note: *Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-1.*

Unit Size	Motor Type	CFM	GPM	Water Loop (Boiler Tower)				Ground Loop (Geothermal)			
				Cooling		Heating		Cooling		Heating	
				Btu/hr	EER	Btu/hr	COP	Btu/hr	EER	Btu/hr	COP
007	PSC	250	1.8	6100	12.8	7000	4.5	6400	15.1	4800	3.3
009		300	2.3	8000	12.2	9500	4.3	8400	14.8	6300	3.2
012		400	3.0	10900	12.2	13600	4.3	11600	14.1	8900	3.2
015	PSC	500	3.5	13700	13.8	16600	5.1	14500	15.6	10500	3.4
019		600	4.5	17300	13.8	20300	4.7	18300	15.8	13000	3.4
024	PSC	775	6.0	24000	13.4	25900	4.4	25200	15.5	17200	3.2
030		1000	7.1	28900	14.0	33000	4.4	30500	16.0	21200	3.3
036	PSC	1200	9.1	36100	13.0	42300	4.3	37900	15.0	27300	3.3
042		1400	10.0	40300	13.7	45800	4.6	42000	15.7	29700	3.3
048	PSC	1600	12.0	47800	14.2	58400	5.0	49800	16.3	38000	3.6
060		2000	15.0	58700	13.2	74500	4.6	61400	14.8	49200	3.3
070	PSC	2200	18.0	66500	13.5	79900	4.6	69000	14.9	53200	3.3

Compact model GCV with EC motor - AHRI Performance Data

Note: *Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-1.*

Unit Size	Motor Type	CFM	GPM	Water Loop (Boiler Tower)				Ground Loop (Geothermal)			
				Cooling		Heating		Cooling		Heating	
				Btu/hr	EER	Btu/hr	COP	Btu/hr	EER	Btu/hr	COP
007	*ECM	250	1.8	6200	13.8	6900	4.8	6500	16.2	4700	3.3
009		300	2.3	8100	13.0	9200	4.3	8400	14.8	6100	3.2
012		400	3.0	10900	13.2	13500	4.6	11700	15.1	8700	3.4
015	ECM	500	3.5	13900	14.6	16400	5.2	14700	16.5	10300	3.5
019		600	4.5	17500	14.3	20100	5.0	18500	16.7	12900	3.5
024	ECM	775	6.0	24200	13.5	25700	4.5	25400	15.9	17100	3.4
030		1000	7.1	28900	14.1	33000	4.4	30500	16.2	21200	3.3
036	ECM	1200	9.1	36500	13.7	41900	4.5	38300	15.8	27000	3.4
042		1400	10.0	41000	14.5	45000	4.8	42700	16.7	28900	3.4
048	ECM	1600	12.0	48200	14.7	57400	5.1	50100	16.9	37000	3.6
060		2000	15.0	59300	13.9	73100	4.9	62000	15.7	47800	3.6
070	ECM	2200	18.0	67500	14.6	78900	4.8	70000	16.2	52200	3.5

Legend:

Btuh = British Thermal Units per Hour
COP = Coefficient of Performance
GPM = Gallons per Minute
CFM = Airflow Rate, Cubic Feet per Minute
EER = Energy Efficiency Ratio
** = Constant torque EC motor only*

Water Loop:

1. *Cooling capacity is based on 80.6°F db, 66.2°F wb (27/19°C) EAT and 86°F (30°C) EWT.*
2. *Heating capacity is based on 68°F db, 59.0°F wb (20/15°C) EAT and 68°F (20°C) EWT.*
3. *All ratings based on 208V operation.*

Ground Loop:

1. *Cooling capacity is based on 80.6°F db, 66.2°F wb (27/19°C) EAT and 77°F (25°C) EWT.*
2. *Heating capacity is based on 68°F db, 59.0°F wb (20/15°C) EAT and 32°F (0°C) EWT.*
3. *All ratings based on 208V operation.*

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Enfinity Small Horizontal Ceiling-mounted Water Source Heat Pumps

WCCH/WCCW Dimensional Data

Unit size	Dimensions (inches)		
	L	W	H
007	34.0	20.0	11.5
009	34.0	20.0	11.5
012	40.0	20.0	11.5
015	42.0	20.0	19.0
019	42.0	20.0	19.0
024	42.0	20.0	19.0
030	46.0	21.0	20.0
036	46.0	21.0	20.0
042	52.0	28.0	23.0
048	52.0	28.0	23.0
060	52.0	28.0	23.0

Enfinity R-410A Models WCCH/WCCW with PSC Fan Motor

AHRI Performance Data (Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-1)

Unit Size	Airflow		Water flow		Water loop [1]				Ground loop [2]			
					Cooling 86°F (30°C)		Heating 68°F (20°C)		Cooling 77°F (25°C)		Heating 32°F (0°C)	
	CFM	L/S	GPM	L/S	BTU/h	EER	BTU/h	COP	BTU/h	EER	BTU/h	COP
007	300	142	2.1	0.14	8000	11.8	10,700	4.2	8900	14.4	7100	3.1
009	300	142	2.3	0.14	8800	12.9	11,800	4.6	9200	14.8	7400	3.3
012	400	189	3.0	0.19	12,900	12.7	15,800	4.3	13,900	15.0	10,400	3.1
015	630	297	3.8	0.24	15,700	16.0	18,100	5.2	16,900	18.7	11,500	3.7
019	630	297	5.3	0.33	21,000	14.9	23,600	4.8	22,600	17.3	14,700	3.6
024	800	378	6.2	0.39	24,700	14.4	28,400	4.7	26,300	16.6	18,000	3.6
030	1000	472	7.6	0.48	30,400	15.3	36,200	5.0	31,500	17.7	23,100	3.6
036	1200	566	9.0	0.57	35,800	15.2	42,500	4.9	37,800	17.7	28,400	3.6
042	1400	661	10.7	0.68	43,000	15.0	50,700	5.0	44,500	17.1	33,900	3.7
048	1600	755	12.3	0.78	48,400	14.1	57,100	4.7	50,200	16.1	38,400	3.7
060	2000	944	15.2	0.96	59,500	14.6	69,400	4.9	61,500	16.8	47,500	3.7
070*	2330	1100	17.5	1.00	67,100	13.0	80,400	4.4	69,800	15.0	53,000	3.3

1. Cooling capacity is based on 80.6°F db, 66.2°F wb (27/19°C) Entering Air Temperature.
2. Heating capacity is based on 68°F db (20°C) Entering Air Temperature.
3. Rated in accordance with ISO Standard 13256-1 Boiler/Tower.
4. Rated in accordance with ISO Standard 13256-1 Ground Loop.
5. All ratings based on 208V operation.

* 208-230/60/3 voltage

Enfinity R-410A Models WCCH/WCCW with EC Fan Motor

AHRI Performance Data (Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-1)

Unit Size	Airflow		Water flow		Water loop [1]				Ground loop [2]			
					Cooling 86°F (30°C)		Heating 68°F (20°C)		Cooling 77°F (25°C)		Heating 32°F (0°C)	
	CFM	L/S	GPM	L/S	BTU/h	EER	BTU/h	COP	BTU/h	EER	BTU/h	COP
007	300	142	2.1	0.14	8000	11.8	10,700	4.2	8900	14.4	7100	3.1
009	300	142	2.3	0.14	8800	12.9	11,800	4.6	9200	14.8	7400	3.3
012	400	189	3.0	0.19	12,900	12.7	15,800	4.3	13,900	15.0	10,400	3.1
015	630	297	3.8	0.24	15,700	16.0	18,100	5.2	16,900	18.7	11,500	3.7
019	630	297	5.3	0.33	21,000	14.9	23,600	4.8	22,600	17.3	14,700	3.6
024	800	378	6.2	0.39	24,700	14.4	28,400	4.7	26,300	16.6	18,000	3.6
030	1000	472	7.6	0.48	30,400	15.3	36,200	5.0	31,500	17.7	23,100	3.6
036	1200	566	9.0	0.57	35,800	15.2	42,500	4.9	37,800	17.7	28,400	3.6
042	1400	661	10.7	0.68	43,000	15.0	50,700	5.0	44,500	17.1	33,900	3.7
048	1600	755	12.3	0.78	48,400	14.1	57,100	4.7	50,200	16.1	38,400	3.7
060	2000	944	15.2	0.96	59,500	14.6	69,400	4.9	61,500	16.8	47,500	3.7
070*	2330	1100	17.5	1.00	68,300	13.5	80,400	4.6	71,100	15.5	53,000	3.4

1. Cooling capacity is based on 80.6°F db, 66.2°F wb (27/19°C) Entering Air Temperature.
2. Heating capacity is based on 68°F db (20°C) Entering Air Temperature.
3. Rated in accordance with ISO Standard 13256-1 Boiler/Tower.
4. Rated in accordance with ISO Standard 13256-1 Ground Loop.
5. All ratings based on 208V operation.

* 208-230/60/3 voltage

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Enfinity Large Horizontal Ceiling-mounted Water Source Heat Pumps

CCH/CCW Dimensional Data

Unit size	Dimensions (inches)		
	L	W	H
072	78.0	44.0	29.0
096			
120			

Performance Data - Large Horizontal Ceiling-Mounted

AHRI Performance Data (Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-1)

Unit size	Air flow CFM (L/S)	Water flow GPM (L/S)	Voltage	Water loop				Ground loop			
				Cooling[2]		Heating[3]		Cooling[4]		Heating[5]	
				BTU/h (Watts)	EER[1]	BTU/h (Watts)	COP[1]	BTU/h (Watts)	EER[1]	BTU/h (Watts)	COP[1]
072	2400 (1133)	20.1 (1.27)	208-60-3 230-60-3 460-60-3 575-60-3	78,100 (22,868)	13.4	82,700 (24,215)	4.4	77,700 (22,751)	16.3	58,700 (17,188)	3.7
096	3000 (1416)	223.6 (1.49)	208-60-3 230-60-3 460-60-3 575-60-3	94,900 (27,788)	14.8	94,300 (27,612)	4.3	97,300 (28,490)	16.8	66,100 (19,355)	3.3
120	4000 (1888)	30.1 (1.9)	208-60-3 230-60-3 460-60-3 575-60-3	121,800 (35,696)	14.4	126,299 (37,015)	4.4	124,600 (36,517)	16.0	92,500 (27,109)	3.6

1. EER = Energy Efficiency Ratio COP = Coefficient of Performance.
2. Water Loop cooling capacity is based on 80.6°F db, 66.2°F wb (27/19°C) entering air temperature and 86°F (30°C) entering water temperature.
3. Water Loop heating capacity is based on 68°F db, 59.0°F wb (20/15°C) entering air temperature and 68°F (20°C) entering water temperature.
4. Ground Loop cooling capacity is based on 80.6°F db, 66.2°F wb (27/19°C) entering air temperature and 77°F (25°C) entering water temperature at full load or 68°F (20°C) at part load.
5. Ground Loop heating capacity is based on 68°F db, 59.0°F wb (20/15°C) entering air temperature and 32°F (0°C) entering water temperature at full load or 41°F (5°C) at part load.

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Enfinity Large Vertical Water Source Heat Pumps

LVC/LVW Dimensional Data

Unit size	W (in)	D (in)	H (in)
072	54-5/8	28	55-3/4
096			
120			
180	80-3/8	30	67
215			
290			

LVC/LVW AHRI Performance Data

Rated in accordance with AHRI/ASHRAE/ISO 13256-1

In English (IP) Units				Water loop				Ground loop			
				Cooling[1] - EWT 86°F		Heating[2] - EWT 68°F		Cooling[3] - EWT 68°F		Heating[4] - EWT 32°F	
Unit size	Airflow CFM	Fluid Flow Rate GPM	Voltages	Capacity Btuh/hr	EER	Capacity Btuh/hr	COP	Capacity Btuh/hr	EER	Capacity Btuh/hr	COP
072	2300	18.5	208-60-3 230-60-3 460-60-3	72800	13.1	88500	4.6	74500	14.6	59100	3.4
096	3000	22.2	208-60-3 230-60-3 460-60-3 575-60-3	86500	13.0	100800	4.7	89200	14.6	69700	3.6
120	4000	30.0	208-60-3 230-60-3 460-60-3 575-60-3	119700	14.0	150200	5.3	123200	15.9	98000	3.9
180	6000	46.0	208-60-3 230-60-3 460-60-3 575-60-3	189200	14.9	209800	4.9	191200	16.1	132000	3.6
215	7200	54.0	208-60-3 230-60-3 460-60-3 575-60-3	220800	14.2	254800	4.9	229200	16.3	147600	3.7
290	9700	80.0	208-60-3 230-60-3 460-60-3 575-60-3	308800	11.0	422100	4.1	322400	12.4	260700	3.3

Notes:
1. Water Loop cooling capacity is based on 80.6°F db, 66.2°F wb (27/19°C) entering air temperature and 86°F (30°C) entering water temperature.
2. Water Loop heating capacity is based on 68°F db, 59.0°F wb (20/15°C) entering air temperature and 68°F (20°C) entering water temperature.
3. Ground Loop cooling capacity is based on 80.6°F db, 66.2°F wb (27/19°C) entering air temperature and 68°F (20°C) entering water temperature.
4. Ground Loop heating capacity is based on 68°F db, 59.0°F wb (20/15°C) entering air temperature and 32°F (0°C) entering water temperature.

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Enfinity Small Vertical Floor-mounted Water Source Heat Pumps

WVFC/WVFW Dimensional Data

Unit size	Dimensions (inches)		
	L	W	H
009	22.25	20.0	37.0
012	22.25	20.0	37.0
015	24.25	23.0	46.5
019	24.25	23.0	46.5
024	24.25	23.0	46.5
030	24.25	23.0	50.5
036	24.25	23.0	50.5
042	32.5	25.0	46.5
048	32.5	25.0	46.5
060	32.5	25.0	58.5
070	32.5	25.0	58.5

Enfinity Vertical Floor-mounted Models WVFC and WVFW - Water Loop

AHRI Performance Data (Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-1)

Unit size	Airflow	Water flow	Water loop - standard unit				Water loop - ECM @ high static			
			Cooling[2] 86°F (30°C)		Heating[3] 68°F (20°C)		Cooling[2] 86°F (30°C)		Heating[3] 68°F (20°C)	
	CFM	GPM	BTU/h	EER[1]	BTU/h	COP[1]	BTU/h	EER[1]	BTU/h	COP[1]
009	300	2.3	9060	14.0	10,600	4.7	N/A	N/A	N/A	N/A
012	400	3.0	12,000	14.4	14,000	4.8	N/A	N/A	N/A	N/A
015	500	3.6	14,700	16.0	16,100	5.1	N/A	N/A	N/A	N/A
019	600	4.7	19,200	15.2	18,300	4.4	19,500	16.6	18,000	4.6
024	800	5.8	23,800	15.1	26,700	4.9	24,100	16.3	26,300	5.2
030	1000	7.3	30,000	17.0	33,400	5.2	29,900	17.0	33,400	5.4
036	1300	9.5	39,500	14.8	45,000	4.6	39,900	15.0	44,500	4.6
042	1400	11.0	43,900	15.0	52,500	4.8	44,200	16.2	52,300	5.1
048	1600	12.0	48,100	14.7	56,800	4.8	48,700	16.0	56,400	5.1
060	2000	15.5	63,200	15.1	68,300	4.7	63,600	15.7	67,700	4.4
070	2160	19.0	75,400	13.5	87,300	4.4	76,200	14.0	86,300	4.5

1. EER = Energy Efficiency Ratio COP = Coefficient of Performance.
2. Cooling capacity is based on 80.6°F db. 66.2°F wb. (27/19°C) entering air temperature and 86°F (30°C) entering water temperature.
3. Heating capacity is based on 68°F (20°C) entering air temperature and 68°F (20°C) entering water temperature.
4. Data based on 208/230 voltage.

N/A = Option not available.

Enfinity Vertical Floor-mounted Models WVFC and WVFW - Ground Loop

AHRI Performance Data (Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-1)

Unit size	Airflow	Water flow	Ground loop - standard unit				Ground loop - ECM @ high static			
			Cooling[2] 77°F (25°C)		Heating[3] 32°F (0°C)		Cooling[2] 77°F (25°C)		Heating[3] 32°F (0°C)	
	CFM	GPM	BTU/h	EER[1]	BTU/h	COP[1]	BTU/h	EER[1]	BTU/h	COP[1]
009	300	2.3	9720	16.7	7020	3.3	N/A	N/A	N/A	N/A
012	400	3.0	12,700	16.9	9300	3.5	N/A	N/A	N/A	N/A
015	500	3.6	15,700	19.6	10,000	3.5	N/A	N/A	N/A	N/A
019	600	4.7	19,400	17.3	13,700	3.5	19,700	19.0	13,400	3.7
024	800	5.8	24,800	14.9	17,800	3.1	25,100	19.2	17,500	3.8
030	1000	7.3	30,700	19.1	22,300	3.9	30,600	19.3	22,300	4.0
036	1300	9.5	40,300	17.3	30,300	3.4	40,500	16.6	30,000	3.3
042	1400	11.0	45,400	17.0	35,100	3.6	46,100	18.9	34,400	3.8
048	1600	12.0	51,600	15.8	40,300	3.4	50,200	18.2	37,600	3.8
060	2000	15.5	65,100	16.3	47,000	3.5	66,000	18.0	46,000	3.8
070	2160	19.0	76,500	13.7	58,900	3.1	78,400	16.2	56,800	3.6

1. EER = Energy Efficiency Ratio COP = Coefficient of Performance.
2. Cooling capacity is based on 80.6°F db. 66.2°F wb. (27/19°C) entering air temperature and 77°F (25°C) entering water temperature.
3. Heating capacity is based on 68°F (20°C) entering air temperature and 32°F (0°C) entering water temperature.
4. Data based on 208/230 voltage.

N/A = Option not available.

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Enfinity Vertical Floor-mounted Water Source Heat Pumps

WLVC/WLVW Dimensional Data

Unit size	Dimensions (inches)		
	W	D	H
072	54.625	28.0	55.75
096			
120			
180	80.25	30.0	67.0
215			
290			

Enfinity Large Vertical Floor-mounted - AHRI Performance Data

(Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-1)

Unit size[6]	Airflow CFM (L/S)	Water flow GPM (L/S)	Voltage	Water loop				Ground loop			
				Cooling[2]		Heating[3]		Cooling[4]		Heating[5]	
				BTU/h (Watts)	EER[1]	BTU/h (Watts)	COP[1]	BTU/h (Watts)	EER[1]	BTU/h (Watts)	COP[1]
072	2300 (1085)	18.5 (1.17)	208-60-3 230-60-3 460-60-3 575-60-3	72,800 (21,317)	13.1	88,500 (25,914)	4.6	74,500 (21.814)	14.6	59,100 (17,305)	3.4
096	3600 (1699)	22.2 (1.4)	208-60-3 230-60-3 460-60-3 575-60-3	86,500 (25,328)	13.0	100,800 (29,515)	4.7	89,200 (26,119)	14.6	69,700 (20,409)	3.6
120	4000 (1888)	30.0 (1.89)	208-60-3 230-60-3 460-60-3 575-60-3	119,700 (35,049)	14.0	150,200 (43,980)	5.3	123,200 (36,074)	15.9	98,000 (28,695)	3.9
180	6000 (2832)	46.0 (2.9)	208-60-3 230-60-3 460-60-3 575-60-3	189,200 (55,400)	14.9	209,800 (61,432)	4.9	191,200 (55,985)	16.1	132,000 (38,651)	3.6
215	7200 (3398)	54.0 (3.4)	208-60-3 230-60-3 460-60-3 575-60-3	220,800 (64,653)	14.2	254,800 (74,608)	4.9	229,200 (67,112)	16.3	147,600 (43,219)	3.7
290	9700 (4578)	80.0 (5.04)	208-60-3 230-60-3 460-60-3 575-60-3	308,800 (90,420)	11.0	422,100 (123,595)	4.1	322,400 (94,402)	12.4	260,700 (76404)	3.3

2. Water Loop cooling capacity is based on 80.6°F db. 66.2°F wb entering air temperature and 86°F entering water temperature.
3. Water Loop heating capacity is based on 68°F entering air temperature and 68°F entering water temperature.
4. Ground Loop cooling capacity is based on 80.6°F db, 66.2°F wb entering air temperature and 77°F entering water temperature.
5. Ground Loop heating capacity is based on 68°F entering air temperature and 32°F entering water temperature.
6. Vertical unit sizes 180 through 290 are not AHRI certified since they exceed 135,000 BTU/h for standard 320.S.

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Physical Data - Rooftop Outdoor Curb-Mounted

WRWA, WRGA, WRWC and WRGC Dimensional Data

Dimensions, inches (mm)	150	180	210	200	300	360	420
RWA, RGA Downflow Discharge							
Depth	150-420 = 96.0						
Width(1)	97.0 (2464)	97.0 (2464)	97.0 (2464)	130.75 (3321)	130.75 (3321)	130.75 (3321)	130.75 (3321)
Width(2)	82.5 (2096)	82.5 (2096)	82.5 (2096)	112.56 (2859)	112.56 (2859)	112.56 (2859)	112.56 (2859)
Height	62.0 (1575)	62.0 (1575)	62.0 (1575)	83.0 (2108)	83.0 (2108)	83.0 (2108)	83.0 (2108)
RWC, RGC Horizontal Discharge							
Depth	150-420 = 96.0						
Width(1)	107.75 (2737)	107.75 (2737)	107.75 (2737)	146.63 (3724)	146.63 (3724)	146.63 (3724)	146.63 (3724)
Width(2)	82.5 (3321)	82.5 (3321)	82.5 (3321)	112.5 (2858)	112.5 (2858)	112.5 (2858)	112.5 (2858)
Height	62.0 (1575)	62.0 (1575)	62.0 (1575)	83.0 (2108)	83.0 (2108)	83.0 (2108)	83.0 (2108)

(1) with intake hood.
(2) without intake hood.

Roof Curb Dimensions - WRWA, WRGA, WRWC and WRGC Units

Unit size	Depth, (inches)	Width, (inches)	Height, (inches)
150	94-1/4	81-3/4	14.0/24.0
180	94-1/4	81-3/4	14.0/24.0
210	94-1/4	81-3/4	14.0/24.0
200	94	111-3/4	14.0/24.0
240	94	111-3/4	14.0/24.0
300	94	111-3/4	14.0/24.0
360	94	111-3/4	14.0/24.0
420	94	111-3/4	14.0/24.0

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Vertical Stack Water Source Heat Pump

WVHC/WVHW Dimensional Data

Unit size	Cabinet	Dimensions (inches)		
		H	W	D
009	18" x 18"	96"	18.07	18.11
012	18" x 18"	96"	18.07	18.11
015	18" x 20"	96"	18.07	20.00
018	18" x 20"	96"	18.07	20.00
021	24" x 24"	96"	24.00	24.04
036	24" x 24"	96"	24.00	24.04

Vertical Stack Water Source Heat Pump Performance Data

AHRI Performance Data (Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-1)

In English (IP) Units				PSC Fan Motor				EC Fan Motor			
Vertical Stack				Cooling		Heating		Cooling		Heating	
				EWT 86°F		EWT 68°F		EWT 86°F		EWT 68°F	
Unit Size	Airflow CFM	Fluid Flow Rate GPM	Voltages	Capacity Btuh/hr	EER	Capacity Btuh/hr	COP	Capacity Btuh/hr	EER	Capacity Btuh/hr	COP
009	300	2.5	115-60-1	9,300	13.8	11,200	4.6	9,700	14.7	11,400	4.9
			208/230-60-1								
			265/277-60-1	9,200	12.8	11,900		9,300	12.2	11,900	4.6
012	400	3.0	115-60-1	11,700	12.8	14,500	4.3	12,000	13.4	14,400	4.3
			208/230-60-1				4.5		14.0		4.7
			265/277-60-1		12.2	15,000	4.4		13.1	14,900	4.5
015	500	3.5	208/230-60-1	14,400	13.5	18,300	4.8	14,300	15.0	18,200	5.1
			265/277-60-1	14,000	13.0	18,700			13.7	18,600	4.8
018	600	4.2	208/230-60-1	16,600	13.0	22,500	4.9	16,900	13.6	22,400	5.0
			265/277-60-1	17,500	13.2	23,200	4.8	17,700	13.8	22900	4.9
021	700	5.4	208/230-60-1	20,300	13.9	24,400	4.8	20,500	14.5	24,100	4.8
			265/277-60-1	20,400		24,800	4.9	20,800	14.7	24,500	5.0
024	800	6.0	208/230-60-1	23,000	14.3	28,000	4.9	23,400	14.8	27,800	5.0
			265/277-60-1		13.4	28,500	4.7	23,300	13.8	28,200	4.9
030	1000	7.3	208/230-60-1	29,400	14.7	34,700	5.0	29,400	15.2	34,300	5.1
			265/277-60-1	29,100	14.4	33,900	4.7	29,100	14.9		5.0
036	1200	9.0	208/230-60-1	35,600	14.1	41,600	4.7	35,300	14.4	42,000	4.7
			265/277-60-1	35,400	13.8	41,900	4.6	35,100	13.9	42,300	4.6

1. *Cooling capacity is based on 80.6°F db, 66.2°F wb (27/19°C) EAT and 86°F (30°C) EWT,*
2. *Heating capacity is based on 68°F db, 59.0°F wb (20/15°C) EAT and 68°F (20°C) EWT.*

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Vertical Stack Water Source Heat Pump

Ground Loop - PSC & EC Motor

AHRI Performance Data (Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-1)

In English (IP) Units				PSC Fan Motor				EC Fan Motor			
Vertical Stack				Cooling		Heating		Cooling		Heating	
				EWT 77°F		EWT 32°F		EWT 77°F		EWT 32°F	
Unit Size	Airflow CFM	Fluid Flow Rate GPM	Voltages	Capacity Btuh/hr	EER	Capacity Btuh/hr	COP	Capacity Btuh/hr	EER	Capacity Btuh/hr	COP
009	300	2.5	115-60-1	9,700	15.8	7,000	3.2	9,800	16.8	6,900	3.2
			208/230-60-1								
			265/277-60-1	9,800	14.8	7,300	3.2	9,900	15.6	7,300	
012	400	3.0	115-60-1	12,400	14.7	9,100	3.2	12,500	15.7	9,100	3.3
			208/230-60-1								
			265/277-60-1		14.2	9,500			14.6	9,300	3.2
015	500	3.5	208/230-60-1	15,000	15.4	11,000	3.2	15,300	17.1	10,900	3.4
			265/277-60-1	14,600	14.7	11,400	3.3	14,800	16.1	11,200	
018	600	4.2	208/230-60-1	17,400	14.6	13,900	3.3	17,700	15.4	13,600	3.4
			265/277-60-1	18,600	15.3	14,300	3.3	18,800	16.1	14,100	
021	700	5.4	208/230-60-1	21,500	16.2	15,400	3.3	21,500	17.1	15,200	3.4
			265/277-60-1	21,800	16.4	15,600	3.4	21,800		15,400	3.5
024	800	6.0	208/230-60-1	24,000	16.0	16,600	3.3	24,800	17.2	16,400	3.4
			265/277-60-1	23,800	15.7	17,800	3.3	24,500	15.9	17,700	
030	1000	7.3	208/230-60-1	30,800	16.8	21,700	3.4	30,900	17.6	21,400	3.5
			265/277-60-1	30,400	16.3		3.3	30,500	16.7		3.4
036	1200	9.0	208/230-60-1	37,100	16.0	26,200	3.2	37,200	16.4	26,100	3.3
			265/277-60-1	36,600	15.5	27,500	3.3	36,700	15.6	27,500	3.4

1. Cooling capacity is based on 80.6°F db, 66.2°F wb (27/19°C) EAT and 77°F (25°C) EWT,
2. Heating capacity is based on 68°F db, 59.0°F wb (20/15°C) EAT and 32°F (0°C) EWT.

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Enfinity Console In-room Models WMHC and WMHW

WMHC/WMHW Dimensional Data

Unit size		Dimensions (inches)		
		L	W	H
007	Low Sill	46.0	10.25	22.5
	High Sill	46.0	10.25	25.0
009	Low Sill	46.0	10.25	22.5
	High Sill	46.0	10.25	25.0
012	Low Sill	46.0	10.25	22.5
	High Sill	46.0	10.25	25.0
015	Low Sill	54.0	10.25	22.5
	High Sill	54.0	10.25	25.0
018	Low Sill	54.0	10.25	22.5
	High Sill	54.0	10.25	25.0

LONMARK 3.4 Available LonMark certified

BACnet International

Console In-Room AHRI Performance Data

Console In-Room Water Source Heat Pump - AHRI Performance Data

Unit Size	Fluid Flow Rate		Water Loop				Ground Loop			
			Cooling 86°F EWT		Heating 68°F EWT		Cooling 77°F EWT		Heating 32°F EWT	
	(GPM)	(CFM)*	Capacity Btu/h	EER (Btuh/W)	Capacity Btu/h	COP	Capacity Btu/h	EER (Btuh/W)	Capacity Btu/h	COP
007	1.9	295	7700	14.5	9110	5.0	8300	16.9	5600	3.3
009	2.4	355	9200	14.0	11000	4.6	9700	16.1	7000	3.2
012	2.9	370	11000	13.1	13700	4.3	11700	15.3	8900	3.2
015	3.7	535	14500	15.1	18200	5.2	15400	17.3	10900	3.4
018	4.6	485	16400	13.4	20900	4.3	17300	15.3	13200	3.4

Legend: ***Btuh*** *= British Thermal Units per Hour* ***COP*** *= Coefficient of Performance* ***EER*** *= Energy Efficiency Ratio*

Water Loop:
1. Cooling capacity is based on 80.6°F db, 66.2°F wb (27/19°C) EAT and 86°F (30°C) EWT.
2. Heating capacity is based on 68°F db, 59.0°F wb (20/15°C) EAT and 68°F (20°C) EWT.

Ground Loop:
1. Cooling capacity is based on 80.6°F db, 66.2°F wb (27/19°C) EAT and 77°F (25°C) EWT.
2. Heating capacity is based on 68°F db, 59.0°F wb (20/15°C) EAT and 32°F (0°C) EWT.

Notes: *Ratings are at 208 volt electrical.*
** CFM based on dry coil*

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Water-to-water Floor-mounted Water Source Heat Pumps

Physical Data - Water- to-water Floor-mounted

Model sizes	BTU/h nominal cooling	Cabinet dimensions, inches			Water connections, inches	
		Width	Depth	Height	Load/source	Domestic hot water
036	36,000	28-1/8	28-1/8	19	3/4 FPT	1/2 FPT
048	48,000	28-1/8	28-1/8	21	1 FPT	1/2 FPT
060	60,000	28-1/8	28-1/8	21	1 FPT	1/2 FPT
072	72,000	35-1/8	28-1/8	21	1 FPT	1/2 FPT
120	120,000	34	42	41	1-1/2	N/A
150	150,000	34	42	41	1-1/2	N/A
180	180,000	34	42	41	2	N/A
240	240,000	34	50	63-1/8	2	N/A
300	300,000	34	50	63-1/8	2	N/A
360	360,000	34	50	63-1/8	2	N/A
420	420,000	34	50	63-1/8	2	N/A

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Water-to-water Source Heat Pumps

Model WCA - Cooling Only Units & Model WHA - Heating Only Units

(Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-2)

Unit Size		GPM	Model WCA - Cooling Only Units			Model WHA - Heating Only Units		
			EWT °F	Total Cap. (BTU/h)	EER (BTU/h)	EWT °F	Total Cap. (BTU/h)	COP
Water Loop								
036	Load	9.0	53.6	28,390	12.8	104	38,200	4.1
	Source		86			68		
048	Load	12.0	53.6	34,600	12.7	104	45,200	4.2
	Source		86			68		
060	Load	13.5	53.6	39,700	12.3	104	55,600	4.1
	Source		86			68		
072	Load	17.0	53.6	53,400	12.4	104	74,400	4.1
	Source		86			68		
120	Load	24.0	53.6	77,500	12.0	104	108,700	4.0
	Source		86			68		
150	Load	30.0	53.6	103,800	13.0	104	139,800	4.1
	Source		86			68		
Ground Loop								
036	Load	9.0	53.6	29,800	14.9	104	23,300	2.5
	Source		77			32		
048	Load	12.0	53.6	36,400	14.8	104	29,600	2.6
	Source		77			32		
060	Load	13.5	53.6	41,600	14.2	104	34,900	2.6
	Source		77			32		
072	Load	17.0	53.6	58,200	14.3	104	45,600	2.6
	Source		77			32		
120	Load	24.0	53.6	81,200	13.9	104	67,700	2.6
	Source		77			32		
150	Load	30.0	53.6	108,900	15.1	104	87,000	2.6
	Source		77			32		

Legend: BTU/h = British Thermal Units per Hour.
COP = Coefficient of Performance.
GPM = Gallons per Minute.
CFM = Airflow Rate, Cubic Feet per Minute.
EER = Energy Efficiency Ratio.

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Water-to-water Source Heat Pumps

Model WRA - Heating & Cooling Units

(Rated in accordance with AHRI/ASHRAE/ISO Standard 13256-2)

Unit Size	GPM		Cooling			Heating		
			EWT °F	Total Cap. (BTU/h)	EER (BTU/h)	EWT °F	Total Cap. (BTU/h)	COP
Water Loop								
036	Load	9.0	53.6	28,300	12.8	104	38,200	4.1
	Source		86			68		
048	Load	12.0	53.6	34,600	12.7	104	48,500	4.2
	Source		86			68		
060	Load	13.5	53.6	39,700	12.3	104	55,600	4.1
	Source		86			68		
072	Load	17.0	53.6		12.6	104		
	Source		86			68		
120	Load	24.0	53.6	77,500	12.0	104	108,700	4.0
	Source		86			68		
150	Load	30.0	53.6		12.9	104		
	Source		86			68		
Ground Loop								
036	Load	9.0	53.6	29,800	14.9	104	23,300	2.5
	Source		77			32		
048	Load	12.0	53.6	36,400	14.8	104	29,600	2.6
	Source		77			32		
060	Load	13.5	53.6	41,600	14.2	104	34,900	2.6
	Source		77			32		
072	Load	17.0	53.6	56,200	14.3	104	45,600	2.6
	Source		77			32		
120	Load	24.0	53.6	81,200	13.9	104	67,700	2.6
	Source		77			32		
150	Load	30.0	53.6	108,900	15.1	104	87,000	2.6
	Source		77			32		

Note: Units operating in cooling mode with an entering water temperature of 75°F (23.9°C) or higher do not require water regulating valves. Units operating AT ANY TIME in cooling mode with an entering water temperature less than 75°F (23.9°C) require water regulating valves, bypass refrigeration circuit and check valve.

Legend: Btuh = British Thermal Units per Hour.
COP = Coefficient of Performance.
GPM = Gallons per Minute.
CFM = Airflow Rate, Cubic Feet per Minute.
EER = Energy Efficiency Ratio.

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VAV Terminal Units

Models MQTH, MQFCI and MQFVI

Model MQTH

Model MQFCI

Model MQFVI

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MQTH-500 Single Duct Air Terminal Unit, Cooling Only

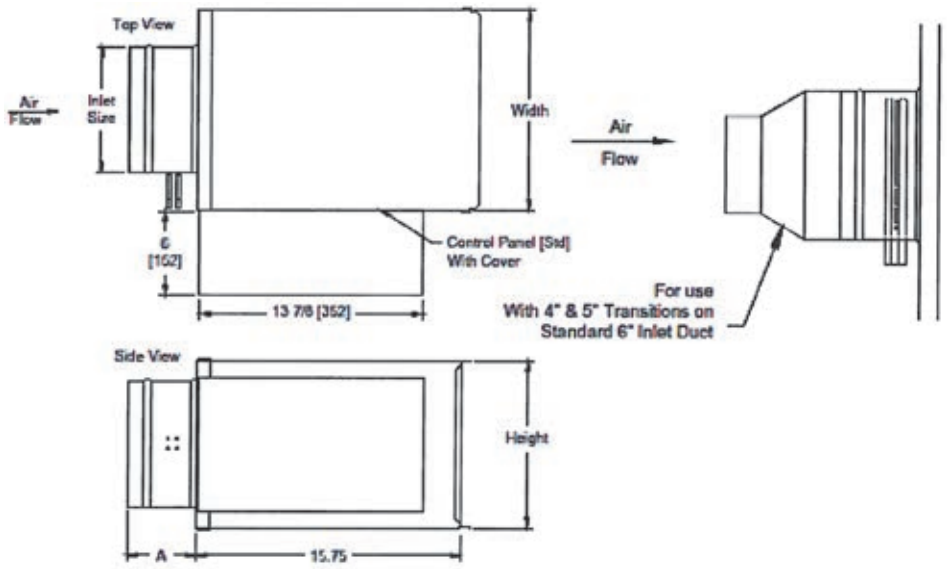

Table 1: MQTH-500 Single Duct Air Terminal Unit, Cooling Only—Unit Dimensions, in. (mm) and Weights, lb. (kg)

Model Number	Inlet Size	A	Width	Height	Unit Weight, lb. (kg)
MQTH504	3-7/8 (99)	10 (254)	12 (305)	8 (203)	12 (5)
MQTH505	4-7/8 (124)	10 (254)	12 (305)	8 (203)	12 (5)
MQTH506	5-7/8 (149)	5 (127)	12 (305)	8 (203)	12 (5)
MQTH508	7-7/8 (200)	5 (127)	12 (305)	10 (254)	15 (7)
MQTH510	9-7/8 (251)	5 (127)	14 (356)	12-1/2 (318)	18 (8)
MQTH512	11-7/8 (302)	5 (127)	16 (406)	15 (381)	22 (10)
MQTH514	13-7/8 (353)	5 (127)	20 (508)	17-1/2 (445)	24 (11)
MQTH516	15-7/8 (403)	5 (127)	24 (610)	18 (457)	29 (13)
MQTH520	19-7/8×15-7/8 (505×403)	6 (152)	30 (762)	20 (508)	47 (21)
MQTH524	23-7/8×15-7/8 (607×403)	6 (152)	38 (965)	20 (508)	58 (26)

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MQTH-500 Single Duct Air Terminal Unit with Hot Water Coil

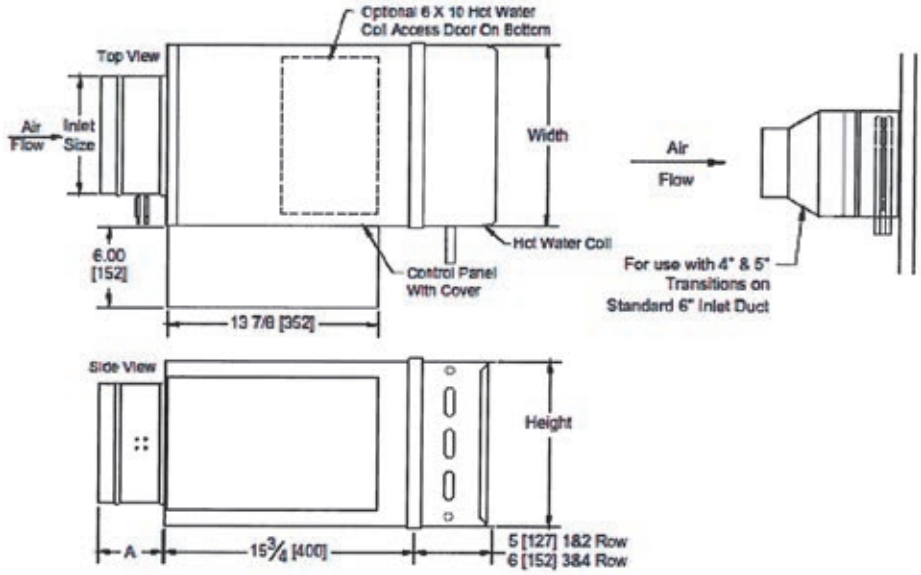

Table 2: MQTH-500 Single Duct Air Terminal Unit with Hot Water Coil—Unit Dimensions, in. (mm) and Weights, lb. (kg)

Model Number	Inlet Size	A	Width	Height	Unit Weight, lb. (kg)			
					1 Row	2 Row	3 Row	4 Row
MQTH504	3-7/8 (99)	10 (254)	12 (305)	8 (203)	17 (7.7)	18 (8)	24 (11)	23 (10.4)
MQTH505	4-7/8 (124)	10 (254)	12 (305)	8 (203)	17 (7.7)	18 (8)	24 (11)	23 (10.4)
MQTH506	5-7/8 (149)	5 (127)	12 (305)	8 (203)	17 (7.7)	18 (8)	24 (11)	23 (10.4)
MQTH508	7-7/8 (200)	5 (127)	12 (305)	10 (254)	20 (9)	22 (10)	28 (13)	28 (13)
MQTH510	9-7/8 (251)	5 (127)	14 (356)	12-1/2 (318)	24 (11)	27 (12)	34 (15)	38 (17)
MQTH512	11-7/8 (302)	5 (127)	16 (406)	15 (381)	31 (14)	34 (15.4)	41 (19)	43 (19.5)
MQTH514	13-7/8 (353)	5 (127)	20 (508)	17-1/2 (445)	34 (15.4)	39 (17.7)	47 (21)	53 (24)
MQTH516	15-7/8 (403)	5 (127)	24 (610)	18 (457)	42 (19)	48 (21.8)	54 (25)	59 (26.8)
MQTH520	19-7/8×15-7/8 (505×403)	6 (152)	30 (762)	20 (508)	64 (29)	72 (32.7)	77 (35)	86 (39)
MQTH524	23-7/8×15-7/8 (607×403)	6 (152)	38 (965)	20 (508)	79 (36)	89 (40)	93 (42)	109 (49)

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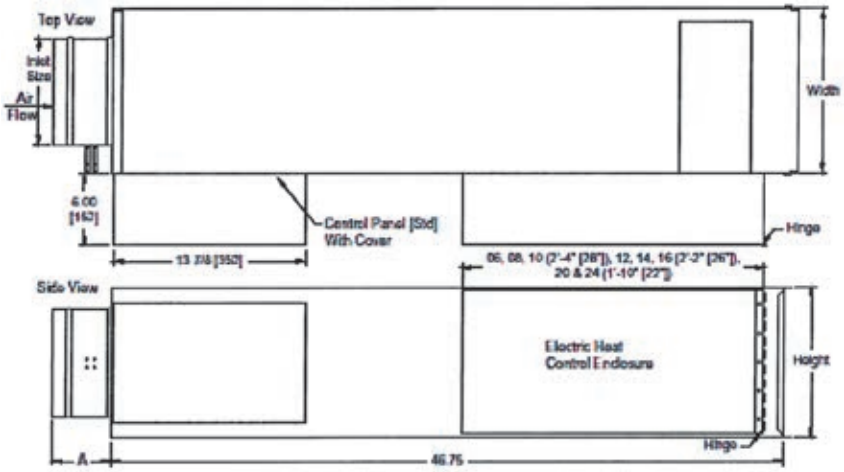
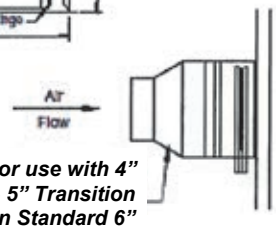
MQTH-500 Single Duct Air Terminal Unit with Electric Heat



The standard location for control panel is Right Hand on Model TH.
Looking in the primary inlet, the control panel is on the right.
The control panel will overhang the top and bottom of model TH506 1" (25.4 mm).
Control Panel Mounting Surface width by height is 13-7/8" × 9-3/4".
Model TH 520 & 524 have rectangular inlet ducts.



For use with 4" & 5" Transition on Standard 6" Inlet Duct

Table 3: MQTH-500 Single Duct Air Terminal Unit with Electric Heat—Unit Dimensions, in. (mm) and Weights, lb. (kg)

Model Number	Inlet Size	A	Width	Height	Unit Weight
MQTH504	3-7/8 (99)	10 (254)	12 (305)	8 (203)	38 (17)
MQTH505	4-7/8 (124)	10 (254)	12 (305)	8 (203)	38 (17)
MQTH506	5-7/8 (149)	5 (127)	12 (305)	8 (203)	38 (17)
MQTH508	7-7/8 (200)	5 (127)	12 (305)	10 (254)	43 (20)
MQTH510	9-7/8 (251)	5 (127)	14 (356)	12-1/2 (318)	50 (23)
MQTH512	11-7/8 (302)	5 (127)	16 (406)	15 (381)	59 (27)
MQTH514	13-7/8 (353)	5 (127)	20 (508)	17-1/2 (445)	67 (30)
MQTH516	15-7/8 (403)	5 (127)	24 (610)	18 (457)	77 (35)
MQTH520	19-7/8×15-7/8 (505×403)	6 (152)	30 (762)	20 (508)	103 (47)
MQTH524	23-7/8×15-7/8 (607×403)	6 (152)	38 (965)	20 (508)	122 (55)

MQTH-500 Single Duct Air Terminal Unit with Integral Attenuator

Table 4: MQTH-500 Single Duct Air Terminal Unit with Integral Attenuator—Unit Dimensions, in . (mm) and Weights, lb . (kg)

Model Number	Inlet Size	A	Width	Height	Unit Weight
MQTH504	3-7/8 (99)	10 (254)	12 (305)	8 (203)	24 (11)
MQTH505	4-7/8 (124)	10 (254)	12 (305)	8 (203)	24 (11)
MQTH506	5-7/8 (149)	5 (127)	12 (305)	8 (203)	24 (11)
MQTH508	7-7/8 (200)	5 (127)	12 (305)	10 (254)	28 (13)
MQTH510	9-7/8 (251)	5 (127)	14 (356)	12-1/2 (318)	34 (15)
MQTH512	11-7/8 (302)	5 (127)	16 (406)	15 (381)	41 (19)
MQTH514	13-7/8 (353)	5 (127)	20 (508)	17-1/2 (445)	47 (21)
MQTH516)	15-7/8 (403)	5 (127)	24 (610)	18 (457)	54 (25)
MQTH520	19-7/8×15-7/8 (505×403)	6 (152)	30 (762)	20 (508)	77 (35)
MQTH524	23-7/8×15-7/8 (607×403)	6 (152)	38 (965)	20 (508)	93 (42)

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MQTH-500 Single Duct Air Terminal Unit with Integral Attenuator and Hot Water Coil

Table 5: MQTH-500 Single Duct Air Terminal Unit with Integral Attenuator and Hot Water Coil—Unit Dimensions, in. (mm) and Weights, lb. (kg)

Model Number	Inlet Size	A	Width	Height	Unit Weight							
					1 Row		2 Row		3 Row		4 Row	
					lb.	Kg.	lb.	Kg.	lb.	Kg.	lb.	Kg.
MQTH504	3-7/8 (99)	10 (254)	12 (305)	8 (203)	29	13	30	14	33	15	35	16
MQTH505	4-7/8 (124)	10 (254)	12 (305)	8 (203)	29	13	30	14	33	15	35	16
MQTH506	5-7/8 (149)	5 (127)	12 (305)	8 (203)	29	13	30	14	33	15	35	16
MQTH508	7-7/8 (200)	5 (127)	12 (305)	10 (254)	33	15	35	16	39	18	41	19
MQTH510	9-7/8 (251)	5 (127)	14 (356)	12-1/2 (318)	40	18	43	20	48	22	54	25
MQTH512	11-7/8 (302)	5 (127)	16 (406)	15 (381)	50	23	53	24	59	27	62	28
MQTH514	13-7/8 (353)	5 (127)	20 (508)	17-1/2 (445)	57	26	62	28	71	32	76	35
MQTH516	15-7/8 (403)	5 (127)	24 (610)	18 (457)	67	30	73	33	79	36	84	38
MQTH520	19-7/8×15-7/8 (505×403)	6 (152)	30 (762)	20 (508)	94	43	102	46	108	49	116	53
MQTH524	23-7/8×15-7/8 (607×403)	6 (152)	38 (965)	20 (508)	114	52	124	56	134	61	144	65

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