

Commercial Product Catalog



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About Us

About our Engineering Design

As a leader in the industry, WaterFurnace is dedicated to innovation, quality, and customer satisfaction. Our engineering and design team boasts a long list of innovations in the water loop heat pump industry. Notable firsts include:

- Variable speed ECM fan motors (1988)
- Multi-stage scroll compressors (1992)
- Communicating controls (1993)
- R-410A (2000)
- First 30 EER 5 COP heat pump GLHP (2006)
- Permanent magnet variable speed scroll heat pump (2012)
- Electronic expansion valves (2012)
- Vapor injected scroll compressor (2015)
- WiFi remote monitoring (2015)
- Permanent magnet variable speed screw compressor chiller (2015)
- Integrated EC plenum fans (2017)

Also, our industry-exclusive ISO 17025 accredited labs are a great asset to the engineering team by providing a high quality and accurate testing.

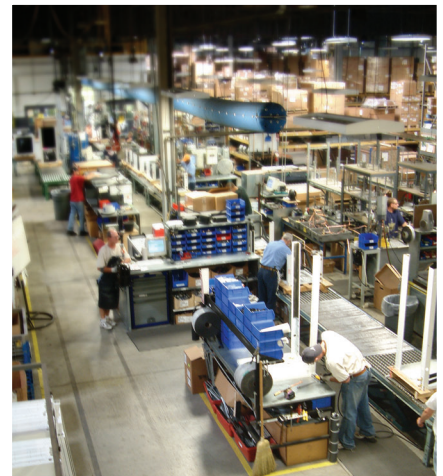


Quality of Manufacture

WaterFurnace also has a well-deserved reputation for robust quality in both design and manufacture. Every unit built is exposed to a wide range of quality control procedures throughout the assembly process and is then subjected to a rigorous battery of computerized run tests to certify that it meets or exceeds performance standards for efficiency and safety, and will perform flawlessly at startup. As a further affirmation of our quality standards, each unit carries our exclusive Quality Assurance emblem, signed by the final test technician. WaterFurnace International's corporate headquarters and ISO 9001 & 14001 : 2015 certified manufacturing facility are both located in Fort Wayne, IN. A scenic three-acre pond located in front of the building serves as our geothermal heating and cooling source to comfort-condition our 110,000 square feet of manufacturing and office space. As a pioneer, and now a leader in the industry, the team of WaterFurnace engineers, customer support staff, and skilled assembly technicians are dedicated to providing the finest comfort systems available.

All units are computer run-tested, with conditioned source water, in all modes to ensure efficiency and reliability

- All refrigerant brazing is performed in a nitrogen atmosphere
- All units are deep evacuated to less than 150 microns prior to refrigerant charging
- All joints are helium leak-tested to ensure an annual leak rate of less than 1/4 ounce
- All major components are barcoded; eliminating the possibility of mismatched parts built into unit
- All assembly technicians thoroughly trained in proper quality procedures
- All units have mohahadel number and serial number embedded in control for local or remote retrieval
- WaterFurnace International, Inc. is an ISO 9001 & 14001 : 2015 certified manufacturing facility
- WaterFurnace International engineering labs are ISO 17025 : 2017 accredited
- UL 508A panel shop approved
- By choosing or specifying WaterFurnace products, you can be assured that you are investing in the latest technology, top efficiency and a quality designed built unit.



WaterFurnace HVAC Systems
Built in the U.S.A



Versatec 300

Versatec 500

**Versatec 300
Standard Efficiency**

Quick Ship Program - The Industry's Best Lead Time

To help support a growing demand for replacement water source heat pumps, select WaterFurnace models and configurations can be ordered through our expedited Quick Ship Program.

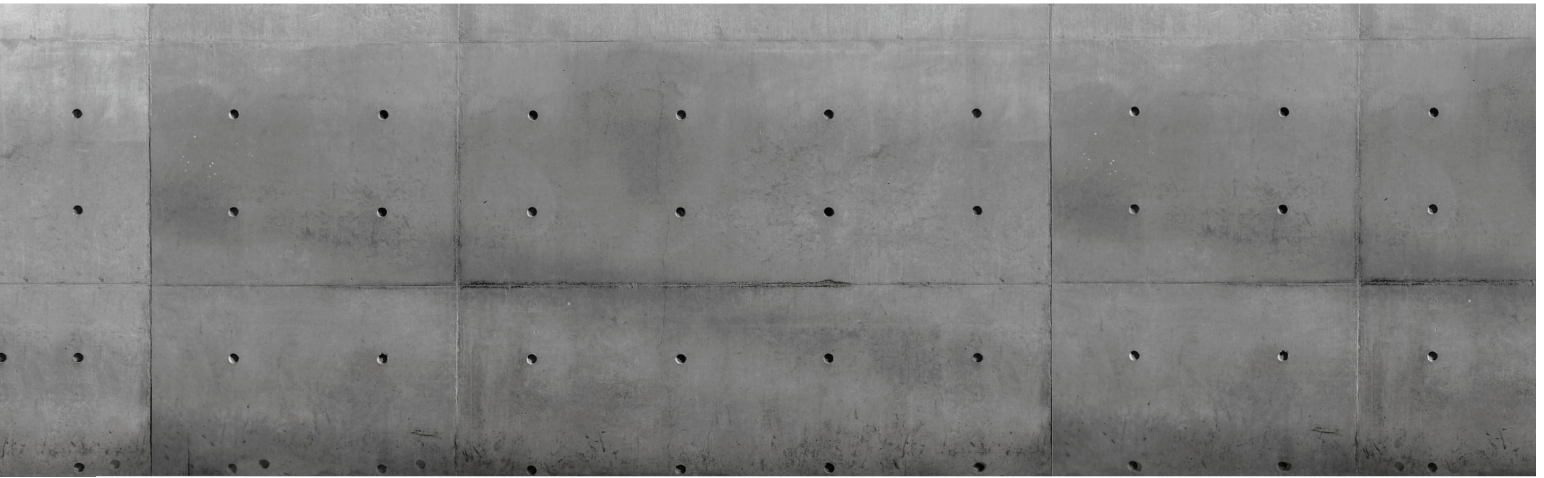
Versatec 300 Standard Efficiency Configuration Options

Maximum of 6 units per size and voltage with a total of 20 units per order (call customer service if a higher quantity is needed)

- Vertical or Horizontal cabinets
- Left or Right Return Air
- Discharge Air: top (vertical), end or side discharge (horizontal)
- Sizes: Single Speed: 012, 018, 024, 030, 036, 042, 048, 060, 070
- Voltages: 208-230/60/1, 265-277/60/1, 208-230/60/3, 460/60/3
- Blower Motor Options: PSC or 5-Speed ECM (018-072)
- All-Aluminum Air Coil
- Insulated Cupronickel Water Coil
- 4-Sided Filter Rack
- Optional Sound Kit (Not available on UBH012)
- Optional Electronic Disconnect
- Optional Stainless Steel Drain Pan
- Optional 2-way Internal Valve (018-070)
- Optional UPC DDC Controller (BACnet or Lon)

Vertical Model	Width	Depth	Height
012	19.2	19.2	24.2
015-018	22.5	22.2	30.2
024-030	22.5	22.2	36.2
036	22.5	26.2	40.2
041	21.5	21.5	40.2
042-048	22.5	26.2	44.2
060	25.5	31.2	44.2
070	25.5	31.2	48.2

Horizontal Model	Width	Depth	Height
012*	19.2	35.0	12.1
015-018*	22.5	35.0	17.2
024-030	22.5	42.0	17.2
036	22.5	42.0	19.2
042-048	22.5	45.0	19.2
060	25.5	48.0	21.2
070	25.5	53.0	21.2



Versatec 500 Configuration Options

Maximum of 3 units per size and voltage with a total of 6 units per order

- Vertical or Horizontal cabinets
- Left or Right return air
- Discharge air: top (vertical), end or side discharge (horizontal)
- Sizes: Single Speed: 012, 015, 018, 024, 030, 036, 042, 048, 060, 070
Dual Capacity: 026, 038, 048, 064, 072
- Voltages: 208-230/60/1, 265-277/60/1, 208-230/60/3, 460/60/3
- Blower motor options: Standard PSC or 5-Speed ECM (015-072)
- All-Aluminum Air Coil
- Optional Insulated Water Coil
- 4-Sided Filter Rack
- Optional Sound Kit
- Optional Electrical Disconnect
- Optional Hot Water Generator
- Optional Stainless Steel Condensate Drain Pan
- Optional 2-way Internal Water Valve (015-072)
- Optional UPC DDC Controller (BACnet or Lon)

Vertical Model	Width	Depth	Height
012	22.5	22.2	30.2
015 - 018	22.5	26.2	40.2
024 - 030	22.5	26.2	44.2
036 - 038	25.5	31.2	44.2
042 - 049	25.5	31.2	48.2
060 - 072	25.5	31.2	52.2

Model	Width	Depth	Height
012	22.5	35.0	17.2
015 - 018	22.5	42.0	19.2
024 - 030	22.5	45.0	19.2
036 - 038	22.5	48.0	21.2
042 - 049	25.5	53.0	21.2
060-064	25.5	61.0	21.2
070-072	25.5	68.0	21.2

Versatec 300 Configuration Options

Maximum of 3 units per size and voltage with a total of 6 units per order (call customer service if a higher quantity is needed)

- Vertical or Horizontal cabinets
- Left or Right return air
- Discharge air: top (vertical), end or side discharge (horizontal)
- Sizes: 095, 120, 095 horizontal, 120 horizontal
- Voltages: 208-230/60/3, 460/60/3
- Blower motor options: Standard or High Static
- 2" MERV 13 Air Filter
- All-aluminum Air Coil
- Insulated Water Coil
- Optional Sound Kit
- Optional Hot Gas Reheat
- Optional UPC DDC Controller (BACnet)
- Stainless Steel Condensate Drain Pan

Vertical Model	Width	Depth	Height
095 & 120	61.3"	34.0"	58.0"

Horizontal Model	Width	Depth	Height
095 & 120	89.0"	38.0"	23.8"



Versatec 300 Standard Efficiency (UB) — 0.5-6 ton

- Water-to-Air Packaged Unit
- 13.2 to 14.7 EER (WLHP)
- 15.6 to 17.0 EER (GLHP)
- Single speed rotary/scroll compressors
- PSC/5 spd ECM/VS ECM Fan Motors

Versatec 300 High Efficiency (US) — 0.75-6 ton

- Water-to-Air Packaged Unit
- 14.3 to 15.7 EER (WLHP)
- 16.1 to 18.5 EER (GLHP)
- Single speed rotary/scroll compressors
- PSC/5 spd ECM/VS ECM Fan Motors

Versatec 300 (NL/NX) — 7-10 ton

- Water-to-Air Packaged Unit
- 13.8 to 18.9 EER (WLHP)
- 16.2 to 21.0 EER (GLHP)
- Dual scroll compressor circuits
- Belt Drive Fan Motors

Versatec 500 (NB) — 0.75-6 ton

- Water-to-Air Packaged Unit
- 15.0 to 21.6 EER (WLHP)
- 17.0 to 30.0 EER (GLHP)
- Single speed rotary/scroll/dual capacity scroll compressors
- PSC/5 spd ECM/VS ECM Fan Motors



Versatec 500 (UD) — 7-30 ton

- Water-to-Air Packaged Unit
- 12.1-17.5 EER (WLHP)
- 14.0-25.0 EER (GLHP)
- Single speed/dual stage scrolls (7-10 ton)
- Dual scroll compressor (12-30 ton)
- Variable Speed ECM - Backward Inclined fan motors. No belts, pulleys, VFDs needed!
- On average 25% smaller footprint vs competition
- Take-apart vertical cabinet (20-30 ton)

Versatec 700 (UV) — 2-90 ton

- Water-to-Air Packaged Unit
- 13.2 to 25.0 EER (WLHP)
- 4.4 to 41.0 EER (GLHP)
- Single variable speed permanent magnet scroll compressors (25%-100%)
- Integrated EC backward curve plenum fan motors with EEV
- Multi-zone VAV, single zone VAV, and CAV capable.
- Twinning capabilities with the 10 and 15 ton units for increased efficiency and smaller footprint

Versatec 300 Consoles (LC) - 0.75-1.5 ton

- Water-to-Air Packaged Unit
- 12.2 EER (WLHP)
- 13.5 to 14.3 EER (GLHP)
- Single speed rotary compressors
- Low sill front return console cabinet
- 3 spd ECM Fan Motors

Versatec 500 Consoles (NC) - 0.75-1.5 ton

- Water-to-Air Packaged Unit
- 12.3 to 13.6 EER (WLHP)
- 14.2 to 16.0 EER (GLHP)
- Single speed rotary compressors
- Bottom return console cabinet
- 3 spd ECM Fan Motors



Versatec 500 Rooftop (UR) – 3-30 ton

- Water-to-Air Packaged Unit
- 12.2 to 19.1 EER (WLHP)
- 13.1 to 28.0 EER (GLHP)
- Single or dual capacity scroll compressor (3-6 ton)
- Dual scroll compressor circuits (8-30 ton)
- 100% airside economizer, barometric damper (Opt)
- Plenum fan direct drive ECM motor (3-30 ton)
- 5 spd ECM or VS ECM motors with forward curve fan (3-6 ton)



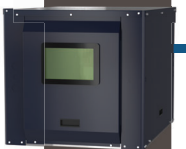
Versatec 700 Indoor DOAS (DAS) – 10-30 ton

- Water-to-Air Packaged Unit
- 2 energy wheel sizes and 3 variants
- Airside economizer integrated dampers
- Aurora Controls Network
- Double wall module for energy recovery wheel and for the exhaust plenum fan



TruClimate 100 (NSW) – 1.5-6 ton

- Water-to-Water Heat Pump (R410A)
- 12.3 to 15.5 EER (WLHP)
- 14.0 to 17.5 EER (GLHP)
- Single speed scroll compressor



TruClimate 100 (NDW) - 8-15 ton

- Water-to-Water Heat Pump (R410A)
- 13.3 to 15.8 EER (WLHP)
- 15.8 to 22.0 EER (GLHP)
- Dual single speed scroll compressors



TruClimate 100 (NXW) - 10-50 ton

- Water-to-Water Heat Pump (R410A)
- 15.2 to 17.4 EER (WLHP)
- 16.5 to 22.2 EER (GLHP)
- Dual single speed scroll compressors
- Optional Vented BPHX for domestic hot water (10-30 ton)
- HydroLink Aurora Controls w/large color tablet



TruClimate 300 with HybrEx Technology (WCXDM) - 30-50 ton

- Water-Cooled Chiller (R410A)
- Chiller Ratings:
Chiller: 0.73 kw/ton
IPLV: 0.46 kw per ton
- Plug-n-play out of the box staging up to 12 chiller modules.
- Fixed and variable speed mixed chiller banks factory configured.
- No condenser strainer required
- HydroLink Aurora Controls w/large color touch tablet



TruClimate 500 (WC) - 20-80 ton


- Water-Cooled Chiller (R410A)
- Chiller Ratings:
Full Load: 0.71 kw/ton
IPLV: 0.54 kw/ton
- Dual single speed scroll compressors
- Removable 4-pipe header rack
- HydroLink Aurora Controls w/large color tablet



TruClimate 700 (WC) - 20-80 ton


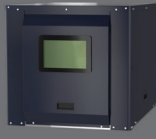



- Water-Cooled Chiller (R410A)
- Chiller Ratings:
Full Load: 0.71 kw/ton
IPLV: 0.54 kw/ton
- Dual single speed scroll compressors
- Removable 6-pipe header rack
- HydroLink Aurora Controls w/large color tablet

Water-to-air Heat Pumps

					
	Versatec 300 Standard Efficiency	Versatec 300 High Efficiency	Versatec 300	Versatec 500	Versatec 500
Capacity Tons	0.5 - 6	0.75 - 6	7 - 10	0.75 - 6	7-30
Efficiency Water Loop Heat Pump	up to 14.7 up to 4.9	14.3 - 15.7 EER 4.5 - 5.1 COP	up to 18.9 up to 5.4	up to 21.6 up to 6.4	up to 17.5 up to 5.6
Compressor	Single-Stage Rotary Single-Stage Scroll	Rotary or Scroll	Dual Scroll	Single-Stage Rotary Single-Stage Scroll Dual-Stage Scroll	Dual Stage Scroll (7-10 ton) Dual Scroll (12.5 - 30 ton)
Blower Type	<ul style="list-style-type: none"> • PSC • 5-Spd ECM • VS ECM FC 	<ul style="list-style-type: none"> • PSC FC • 5-Spd ECM FC • VS ECM FC • Hi Static Options 	<ul style="list-style-type: none"> • Belt/Sheave FC • Hi Static Options 	<ul style="list-style-type: none"> • PSC FC • 5-Spd ECM FC • VS ECM FC • Hi Static Options 	<ul style="list-style-type: none"> • VS Integ BC ECM Plenum Fan
Cabinet Configuration	<ul style="list-style-type: none"> • Vertical Topflow • Horizontal 	<ul style="list-style-type: none"> • Vertical Topflow • Horizontal 	<ul style="list-style-type: none"> • Vertical Topflow • Vertical Bottomflow • Horizontal 	<ul style="list-style-type: none"> • Vertical Topflow • Horizontal 	<ul style="list-style-type: none"> • Vertical Topflow • Horizontal
Aurora Control Type	<ul style="list-style-type: none"> • Base • BACnet 	<ul style="list-style-type: none"> • Base • Advanced • BACnet • LON 	<ul style="list-style-type: none"> • Base • Advanced • BACnet 	<ul style="list-style-type: none"> • Base • Advanced • BACnet • IntelliZone2 	<ul style="list-style-type: none"> • Base • Advanced • Premium • BACnet • IntelliZone2
Hot Water Generator (Coil Only)	NA	015 - 070 Vertical only	NA	015-072 Vertical Only	NA
Available Voltages	208-230/60/1 265/60/1 208-230/60/3 460/60/3 575/60/3 115/60/1	208-230/60/1 265/60/1 208-230/60/3 460/60/3 575/60/3	208-230/60/3 460/60/3 575/60/3	208-230/60/1 265/60/1 208-230/60/3 460/60/3 575/60/3	208-230/60/3 460/60/3 575/60/3 with step down transformer
Air Coil	All-Aluminum	All-Aluminum	All-Aluminum	All-Aluminum	All-Aluminum
Options	<ul style="list-style-type: none"> • Internal 2-way Valve • Flow regulator • CuNi Coax • SS Drain Pan • Sound Kit • Disconnect • Phase Guard • Coated Air Coil • MERV13 • Coated Air Coil 	<ul style="list-style-type: none"> • Waterside Economizer • CuNi Coil • Internal 2-way Valve • Flow regulator • 2" Merv 13 • Disconnect • Phase guard • Coated Air Coil • Sound Kit • SS Drain Pan • IntelliStart • Hot Gas Bypass • Hot Gas Reheat 	<ul style="list-style-type: none"> • Integrated Waterside Economizer • Internal 2-way Valve • Flow regulator • Hot Gas Bypass • Hot Gas Reheat 	<ul style="list-style-type: none"> • Internal 2-way Valve • Flow regulator • IntelliStart • Hot Gas Bypass • Hot Gas Reheat • Disconnect • Phase Guard • CuNi Coax • Sound Kit • MERV13 • SS Drain Pan • Coated Coil 	<ul style="list-style-type: none"> • Internal 2-way Valve • Hot Gas Bypass • Modulating Hot Gas Reheat • Head Pressure Control

				
Versatec 700	Versatec 300 Consoles	Versatec 500 Consoles	Versatec 500 Rooftop	Versatec 700 Indoor DOAS
2-90	0.75-1.5	0.75 - 1.5	3 - 30	10 - 30 ton 2,000 - 8,000 cfm
up to 25.0 up to 7.8	12.2 EER 4.3 - 4.4 COP	12.3 - 13.6 EER 4.3 - 4.9 COP	12.2 - 19.1 EER 4.2-6.4 COP	
Variable Capacity Scroll	Rotary	Rotary	Scroll Dual Cap Scroll Twin Scrolls	Variable capacity scroll with exhaust air energy recovery wheel
• VS ECM FC Plenum Fan	• 3-Spd ECM FC	• 3-Spd ECM FC	• 5-Spd ECM FC (3-6) • VS ECM FC (3-6) • VS Integ BC ECM Plenum Fan	• VS Integrated backward inclined ECM plenum fan.
• Vertical Topflow • Vertical Bottomflow • Horizontal	• Slope Top • Flat Top • Chassis Only	• Slope Top • Ext Slope Top • Flat Top • Chassis Only	• Rooftop Downflow • Rooftop Sideflow • Opt Economizer	• Vertical Top Flow • Vertical Bottom Flow
• Advanced • Premium • BACnet • IntelliZone2 • VAV	• Base • Advanced • BACnet	• Base • Advanced • BACnet	• Base • Premium • BACnet • IntelliZone2	• Advanced • Premium
036 - 072 Vertical Only	NA	NA	NA	NA
208-230/60/1 208-230/60/3 460/60/3 575/60/3 with transformer	115/60/1 208-230/60/1 265/60/1	115/60/1 208-230/60/1 265/60/1	208-230/60/1 265/60/1 208-230/60/3 460/60/3	208-230/60/3 460/60/3
All-Aluminum	All-Aluminum	All-Aluminum	All-Aluminum	All-Aluminum
• Integrated Waterside Economizer • Internal 2-way Valve • Flow regulator • Hot Gas Bypass • Modulating Hot Gas Reheat • Head Pressure Control	• Internal 2-way Valve • Flow regulator	• Internal 2-way Valve • Flow regulator	• Airside Economizer • Internal 2-way Valve • Hot Gas Bypass • Hot Gas Reheat • Enthalpy Sensors	• Airside Economizer • Modulating Hot Gas Reheat • High efficiency or low pressure drop energy wheels • Additional differential pressure or CO2 sensors

Water-to-Water / Water-Cooled Chillers

					
	TruClimate 100	TruClimate 100	TruClimate 100	TruClimate 300 with HybrEx Technology	TruClimate 500 and 700
Style	Water-to-Water Packaged Chiller	Water-to-Water Packaged Chiller	Water-to-Water Packaged Chiller	Water-Cooled	Water-Cooled
Capacity Range (Tons)	1.5 - 6	8 - 15	10 - 50	30-50	20-80
Sizes Available (Tons)	1.5, 2, 3.5, 4, 5, 6	8, 10, 12, 15	10, 15, 20, 30, 50	30, 50	20, 30, 40, 50, 60, 70, 80
Efficiency Water Loop Heat Pump	12.3 - 15.5 EER 4.2 - 4.8 COP	13.3 - 15.8 EER 3.9 - 4.6 COP	15.2 - 17.4 EER 4.3 - 5.1 COP	Full load: 0.74 kW/ton IPLV: 0.54 kW/ton	Full Load: 0.71 kw/ton IPLV: 0.54 kw/ton
Ground Loop Heat Pump	14.0 - 17.5 EER 2.9 - 3.1 COP	15.8 - 22.0 EER 2.7 - 3.5 COP	16.5 - 22.2 EER 3.0 - 3.7 COP		
Compressor	Single-Stage Scroll	Dual Scroll	Dual Scroll	Dual Scroll Optional Variable Capacity Scroll	Dual Scroll Optional Variable Capacity Scroll
Refrigerant	R-410A	R-410A	R-410A	R-410A	R-410A
Blower	NA	NA	NA	NA	NA
Cabinet Configuration	Compact Unit; Field switchable control box.	Compact Unit: Top & Back mounted water connections. Field switchable control box.	Enclosed	Modular	Modular
Control Type	Aurora Base, Aurora Advanced, Aurora UPC BACnet	Hydrolink2 Aurora Controls with Building Automation Communication capability BACnet	Hydrolink2 Aurora Controls with Building Automation Communication capability BACnet	Hydrolink2 Aurora Controls with Building Automation Communication capability BACnet	Hydrolink2 Aurora Controls with Building Automation Communication capability BACnet
Hot Water Generator (Coil Only)	040 - 075 models only	NA	NA	NA	NA
Available Voltages	208-230/60/1 265/60/1 208-230/60/3 460/60/3 575/60/3	208-230/60/1 208-230/60/3 460/60/3 575/60/3	208-230/60/3 380/60/3 460/60/3 575/60/3	208-230/60/3 460/60/3 575/60/3	208-230/60/3 460/60/3 575/60/3
Air Coil	NA	NA	NA		NA
Options	<ul style="list-style-type: none"> Copper or Cupronickel coaxial heat exchangers IntelliStart 	<ul style="list-style-type: none"> IntelliStart 	<ul style="list-style-type: none"> Domestic Hot Water (10-30 ton) Temp setpoint control software Field-installed piping accessories Factory-installed pressure transducers Fused disconnect Phase guard 	<ul style="list-style-type: none"> Factory built single point power Condenser strainer CuNi condenser (upon request) 	<ul style="list-style-type: none"> Breaker with thru the door disconnect BACnet EEV Pipe rack: <ul style="list-style-type: none"> 4 pipe rack standard (TruClimate 500) 4 pipe rack non-reversing (TruClimate 500) 6 pipe rack standard (TruClimate 700) 6 pipe rack dedicated (TruClimate 700)

Product Features Summary

		Versatec 300 Standard Efficiency	Versatec 300 High Efficiency	Versatec 300	Versatec 500	Versatec 500	Versatec 700	Versatec 300 Consoles	Versatec 500 Consoles	Versatec 500 Rooftop	Versatec 700 Indoor DOAS
Capacity Tons		0.5-6	0.75 - 6	7-10	0.75-6	7-30	2-15	0.75-1.5	0.75-1.5	3-30	10-30
WSHP EER (up to)		14.7	15.7	18.9	21.6	17.5	25.0	12.2	13.6	19.1	-
WSHP COP (up to)		4.9	5.1	5.4	6.4	5.6	7.8	4.4	4.9	4.8	-
Compressor Stages		1	1	2	2	2	VS	1	1	2	VS
Blower		FC	FC	FC	FC	FC/BC	BC	FC	FC	BC	BC
Controls	BACnet	O	O	O	O	O	O	O	O	O	-
	IntelliZone2	-	-	-	O	O	O	-	-	O	-
	Base	S	S	S	S	S	-	S	S	S	-
	Advanced	-	-	-	O	O	S	-	-	O	S
	Premium	-	-	-	-	O	S	-	-	O	O
	VAV	-	-	-	-	O	O	-	-	-	-
	Twinning	-	-	-	-	-	O	-	-	-	-
Internal 2-way valve	O	O	O	O	O	O	O	O	O	O	S
Economizer	-	O	O	S	IN	IN	-	-	-	Air Side	Air Side
HGB	-	O	O	O	O	O	-	-	-	O	-
HGR	-	O	O	O	-	-	-	-	-	O	-
Modulating HGR	-	-	-	-	O	O	-	-	-	-	O
Head Pressure Control	-	-	-	-	O	O	-	-	-	-	O
Flow Regulator	O	O	O	O			O	O	O	O	
EEV	-	-	-	-	O	S	-	-	-	-	S

Key
 S = Standard
 O = Optional
 IN = Integrated
 BC = Backward Curve
 FC = Forward Curve
 VS = Variable Speed
 VAV = Variable Air Volume

VERSATEC 300 STANDARD EFFICIENCY WSHP

- UBV/H - 0.5-6 TON

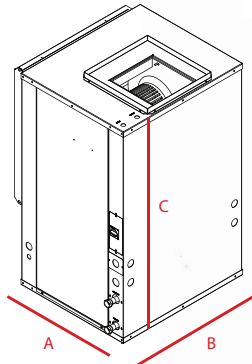
Water-to-Air Heat Pump

Standard Features:

- Capacities of 6,000 through 70,000 Btu/h
- Voltages: 115/60/1, 208-230/60/1, 265-277/60/1, 208-230/60/3, 460/60/3, and 575/60/3.
- Vertical and horizontal w/ true left and right return
- Horizontal end or side discharge
- Heavy gauge galvanized cabinet
- Removable inlet ring blowers
- Quiet rotary or scroll compressors in all models
- All-Aluminum rifled tube-and-lanced fin air coil
- Polymer composite drain pan
- Bi-directional balanced port TXV
- Oversized copper coaxial water heat exchanger
- Discharge mufflers on sizes 048-070
- 4 sided filter rail
- Aurora Base Controls

Optional Features:

- 3 speed PSC, 5 speed ECM, or VS ECM fan motors
- Painted Cabinet
- Filter Rack
- Phase guard with optional 'dial' disconnect
- Stainless steel drain pan w/ secondary drain connection
- Extended range insulation option
- AlumiSeal air coil e-coating
- 2 in. MERV 13 filter
- Water-side economizer
- Cupronickel water coil

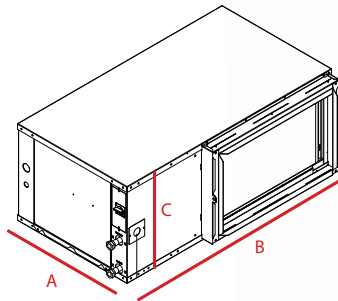


Vertical



Vertical Cabinets	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
006-012	in.	19.2	19.2	24.2
	cm.	48.8	48.8	61.5
015-018	in.	22.5	22.2	30.2
	cm.	57.2	56.4	76.7
024-030	in.	22.5	22.2	36.2
	cm.	57.2	56.4	91.9
036	in.	22.5	26.2	40.2
	cm.	57.2	66.5	102.1
041	in.	21.5	21.5	40.2
	cm.	54.6	54.6	102.1
042-048	in.	22.5	26.2	44.2
	cm.	57.2	66.5	112.3
060	in.	25.5	31.2	44.2
	cm.	64.8	79.2	112.3
070	in.	25.5	31.2	48.2
	cm.	64.8	79.2	122.4

Quick Features Guide	
5 Spd FC ECM Fan	Opt
VS FC ECM Fan	Opt
Waterside Econ	Opt
Hot Gas Reheat	-
Hot Gas Bypass	-
Aurora Advanced Controls	Special
Aurora UPC BACnet, N2 or LON	Opt
VAV Capable (UPC)	-
DCV Capable (UPC)	Opt
Zoning	-

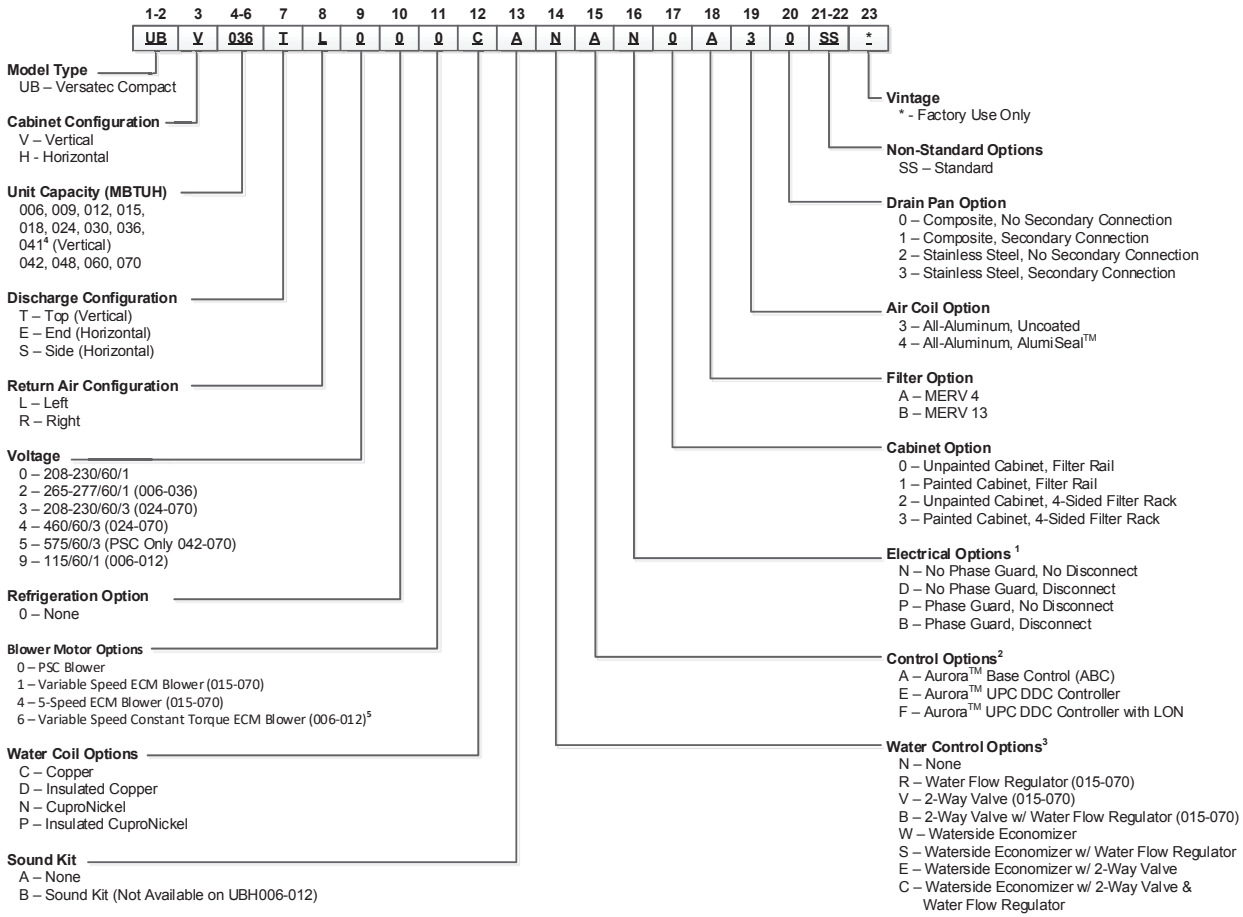


Horizontal

Horizontal Cabinets	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
006-012	in.	19.2	35.0	12.1
	cm.	48.8	88.9	30.7
015-018	in.	22.5	35.0	17.2
	cm.	57.2	88.9	43.7
024-030	in.	22.5	42.0	17.2
	cm.	57.2	106.7	43.7
036	in.	22.5	42.0	19.2
	cm.	57.2	106.7	48.8
042-048	in.	22.5	45.0	19.2
	cm.	57.2	114.3	48.8
060	in.	25.5	48.0	21.2
	cm.	64.8	121.9	53.8
070	in.	25.5	53.0	21.2
	cm.	64.8	134.6	53.8



Efficiency in an industry leading ultra-compact cabinet for retrofit and new construction WSHP applications.



Note:
 1 - Phase Guard Only Available on 208-230/60/3 and 460/60/3
 2 - 50VA transformer with Aurora Base Control, and 75VA transformer with Aurora UPC control
 3 - Waterside economizer option must be ordered with stainless steel drain pan and either 5-speed ECM or variable speed ECM (024-070)
 4 - 2 way valve, water flow regulator, economizer, disconnect, 2" filter and filter rack not available in UBV041.
 5 - Blower Motor option "6" only available in 115/60/1 and 208-230/60/1.

AHR/ASHRAE/ISO 13256-1 English (IP) Units														
		PSC Motor												
		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump				
Model	Flow Rate		Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling EWT 77°F		Heating EWT 32°F	
	gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
006	2.0	250	7100	13.4	8,000	4.3	8,400	21.3	6,800	3.8	7,400	15.5	5,400	3.2
009	3.0	350	8,100	12.2	11,400	4.6	9,900	19.2	9,600	4.0	8,900	14.5	7,600	3.4
012	3.0	400	10,200	12.2	15,200	4.4	12,200	18.2	12,600	3.9	11,200	14.2	10,200	3.5
015	4.0	500	13,200	12.5	15,400	4.5	16,000	20.0	13,000	4.0	14,000	15.3	10,400	3.2
018	5.0	600	17,300	13.4	19,000	4.3	19,800	20.5	16,000	3.7	18,000	15.4	12,600	3.2
024	6.0	800	22,900	13.0	26,000	4.5	27,000	19.8	22,600	4.0	24,500	14.8	17,000	3.3
030	8.0	1000	28,400	13.8	34,000	4.5	33,500	21.0	28,000	4.0	30,000	16.0	21,000	3.3
036	9.0	1150	34,500	14.0	43,800	4.7	40,000	22.0	35,600	4.2	36,000	16.3	26,000	3.3
041	11.0	1100	37,600	13.5	48,000	4.3	44,500	20.4	38,500	3.8	40,000	15.0	28,500	3.2
042	11.0	1400	39,200	13.2	51,000	4.7	47,000	20.4	41,400	4.3	42,000	15.2	30,500	3.3
048	12.0	1600	47,200	13.0	59,000	4.6	57,000	19.8	48,000	4.0	49,500	15.0	36,500	3.3
060	15.0	1900	57,000	13.5	66,000	4.3	67,000	21.0	55,000	4.0	58,000	15.2	43,000	3.3
070	18.0	2100	66,000	14.0	80,000	4.5	75,000	20.5	64,000	4.0	68,000	15.6	49,000	3.3
		Variable Speed ECM												
006	2.0	250	7150	14.0	8,500	4.4	8,600	22.0	7100	4.0	7,600	16.0	5,500	3.2
009	3.0	350	8,300	13.4	11,500	4.8	10,300	22.0	9,600	4.1	9,100	15.0	7,600	3.4
012	3.0	400	10,300	13.0	14,500	4.5	12,800	20.0	11,900	4.0	11,300	15.0	10,200	3.5
015	4.0	500	13,800	13.2	16,100	4.6	16,000	21.0	13,400	4.1	14,200	15.7	11,000	3.3
018	5.0	600	17,300	14.2	19,000	4.5	19,800	22.0	16,000	3.9	18,000	16.2	12,600	3.3
024	6.0	800	22,900	13.6	26,000	4.7	27,000	20.8	22,600	4.2	24,500	15.6	17,000	3.5
030	8.0	900	28,400	14.7	34,000	4.7	33,500	22.5	28,000	4.2	30,000	17.0	21,000	3.5
036	9.0	1150	34,500	14.5	43,800	4.9	40,000	23.0	35,600	4.4	36,000	17.0	26,000	3.5
041	11.0	1300	39,000	13.9	48,500	4.7	45,000	21.0	38,500	4.1	41,000	16.0	28,500	3.4
042	11.0	1400	39,200	14.2	51,000	4.9	47,000	22.0	41,400	4.5	42,000	16.6	30,500	3.5
048	12.0	1600	47,200	14.0	59,000	4.8	57,000	21.0	48,000	4.2	49,500	16.0	36,500	3.5
060	15.0	1900	57,000	14.0	66,000	4.6	67,000	22.0	55,000	4.2	58,000	16.0	43,000	3.5
070	18.0	2100	66,000	14.6	80,000	4.7	75,000	22.0	64,000	4.2	68,000	16.6	49,000	3.5

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature. Heating capacities based upon 68°F DB, 59°F WB entering air temperature
 All ratings based upon 208V operation



All UB Series product is safety listed under UL1995 thru ETL and performance listed with AHR in accordance with standard 13256-1.

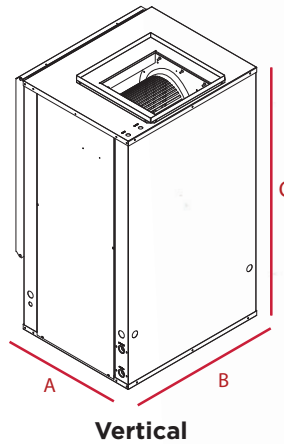
VERSATEC 300 HIGH EFFICIENCY WSHP - USV/H - 0.75-7 TON Water-to-Air Heat Pump

Standard Features:

- Capacities of 9,000 through 70,000 Btu/h
- Voltages: 208-230/60/1, 265-277/60/1, 208-230/60/3, 460/60/3, and 575/60/3.
- Vertical and horizontal w/ true left and right return
- Horizontal end or side discharge
- Heavy gauge galvanized cabinet
- Removable inlet ring blowers
- High efficiency rotary or scroll single speed compressors
- All-Aluminum rifled tube-and-lanced fin air coil
- Polymer composite drain pan
- Bi-directional balanced port TXV
- Oversized copper coaxial water heat exchanger
- Filter rail for open return applications.
- 75VA transformer with circuit breaker
- Aurora Base Controls

Optional Features:

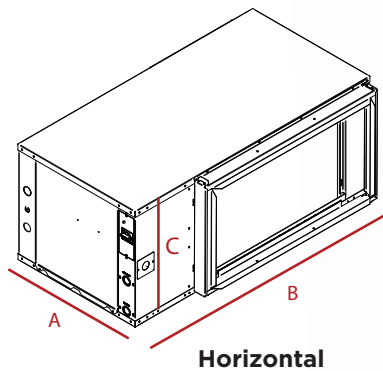
- 3 speed PSC, 5 speed ECM, or VS ECM fan motors
- Painted Cabinet
- Optional 4-sided filter rack.
- Phase guard with optional 'dial' disconnect
- Stainless steel drain pan w/ secondary drain connection
- Extended range insulation option
- AlumiSeal air coil e-coating
- 2 in. MERV 13 filter
- Water-side economizer
- Cupronickel water coil
- Internal motorized 2-way valve
- Water flow regulator
- Sound kit
- IntelliStart
- Aurora UPC BACnet (+ N2)
- Aurora UPC with LONWorks
- High static fan options
- Hot Gas Bypass
- Hot Gas Reheat
- Hot Water Generation



Vertical

Vertical Cabinets	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
009-012	in.	22.5	22.2	23.7
	cm.	57.2	56.4	60.2
015-018	in.	22.5	22.2	36.2
	cm.	57.2	56.4	91.9
024-030	in.	22.5	26.2	40.2
	cm.	57.2	66.5	102.1
036	in.	22.5	26.2	44.2
	cm.	57.2	66.5	112.3
041	in.	22.5	26.2	44.2
	cm.	57.2	66.5	112.3
042-048	in.	25.5	31.2	44.2
	cm.	64.8	79.2	112.3
060	in.	25.5	31.2	48.2
	cm.	64.8	79.2	122.4
070	in.	25.5	31.2	52.2
	cm.	64.8	79.2	132.6

Quick Features Guide	
5 Spd FC ECM Fan	Opt
VS FC ECM Fan	Opt
Waterside Econ	Opt
Hot Gas Reheat	Opt
Hot Gas Bypass	Opt
Aurora Advanced Controls	Special
Aurora UPC BACnet, N2 or LON	Opt
VAV Capable (UPC)	-
DCV Capable (UPC)	Opt
Zoning	-

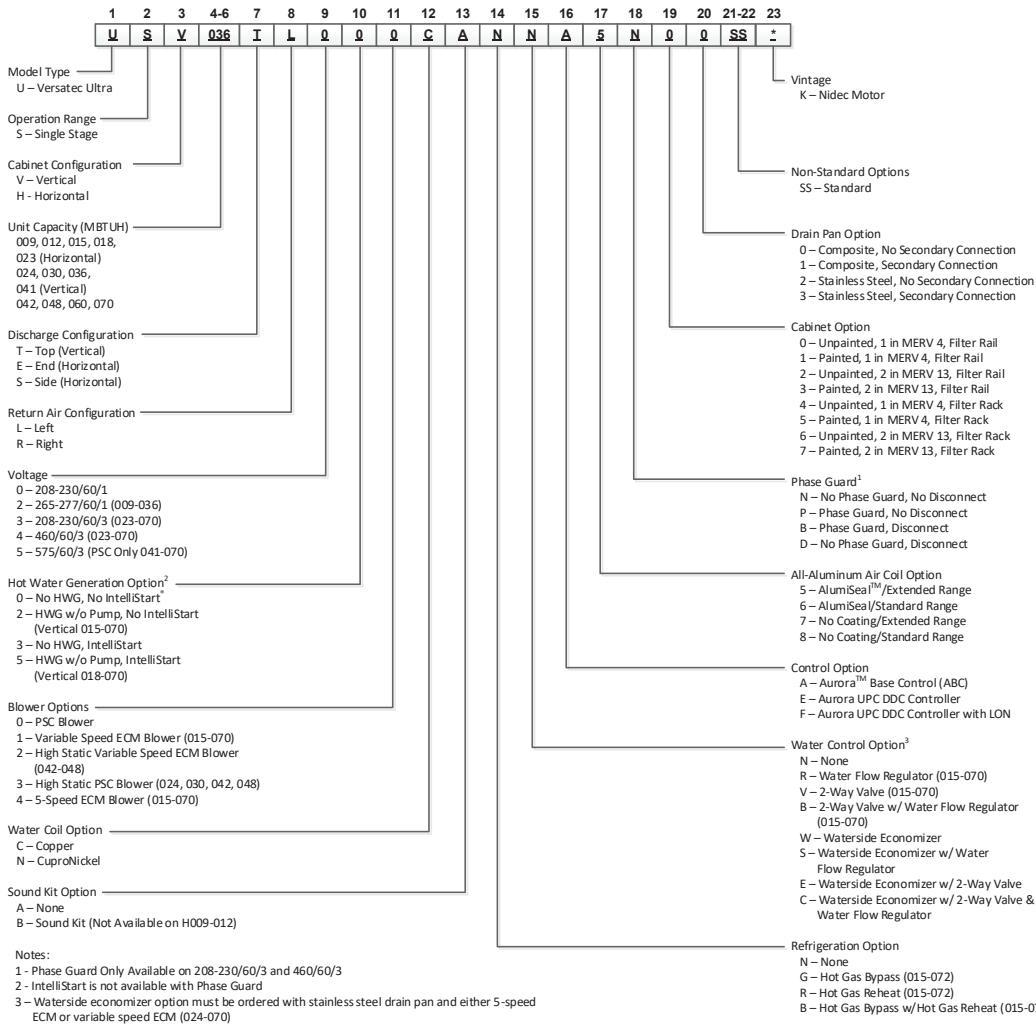


Horizontal

Horizontal Cabinets	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
009-012	in.	19.2	30.9	11.9
	cm.	48.8	78.5	30.2
015-023	in.	22.5	42.0	17.2
	cm.	57.2	106.7	43.7
024-030	in.	22.5	42.0	19.2
	cm.	57.2	106.7	48.8
036	in.	22.5	45.0	19.2
	cm.	57.2	114.3	48.8
042-048	in.	25.5	48.0	21.2
	cm.	64.8	121.9	53.8
060	in.	25.5	53.0	21.2
	cm.	64.8	134.6	53.8
070	in.	25.5	61.0	21.2
	cm.	64.8	154.9	53.8



Mid-efficiency and high feature set in compact cabinet for retrofit and new construction WSHP applications.



Notes:
 1 - Phase Guard Only Available on 208-230/60/3 and 460/60/3
 2 - IntelliStart is not available with Phase Guard
 3 - Waterside economizer option must be ordered with stainless steel drain pan and either 5-speed ECM or variable speed ECM (024-070)

AHRI/ASHRAE/ISO 13256-1 English (IP) Units

PSC Motor														
Model	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
			Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling EWT 77°F		Heating EWT 32°F	
	gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
009	3.0	350	8,500	12.2	11,500	4.4	10,500	18.2	9,600	3.7	9,100	13.5	7,600	3.0
012	3.5	400	10,900	12.7	14,700	4.4	12,500	18.2	12,000	3.8	11,500	14.7	9,600	3.2
015	4.0	500	14,000	15.0	16,500	4.8	16,000	24.0	15,000	4.1	14,700	17.2	11,500	3.5
018	5.0	600	17,600	14.6	21,000	4.7	20,600	23.5	17,500	4.0	18,500	17.0	13,700	3.5
023	6.0	800	23,000	14.5	26,000	4.5	25,400	22.5	21,900	3.9	23,900	16.8	17,000	3.4
024	6.0	800	23,900	14.6	27,000	4.7	26,400	22.8	22,300	4.0	24,400	17.0	17,500	3.5
030	8.0	1000	29,500	14.9	34,600	4.8	32,900	23.0	28,300	4.0	29,000	17.0	22,800	3.5
036	9.0	1150	33,300	14.4	40,600	4.5	37,700	21.2	33,000	3.9	34,500	16.6	26,000	3.3
041	11.0	1300	40,000	13.8	45,000	4.3	44,500	20.6	36,000	3.8	41,000	15.8	29,000	3.3
042	11.0	1400	40,800	14.5	45,400	4.5	45,800	22.0	37,000	3.8	42,300	16.8	29,900	3.3
048	12.0	1600	47,700	14.7	56,000	4.4	52,000	21.0	45,900	3.8	49,500	16.8	36,900	3.3
060	15.0	1900	58,400	14.7	72,500	4.4	65,500	20.8	58,400	3.8	60,900	16.6	47,100	3.3
070	18.0	2100	63,000	14.2	79,000	4.4	70,000	20.3	64,100	3.8	68,500	15.2	51,600	3.3
Variable Speed ECM or 5 Speed ECM Motor														
015	4.0	500	14,000	15.3	16,500	4.9	16,000	24.3	15,000	4.4	14,700	17.5	11,500	3.7
018	5.0	600	17,600	15.2	21,000	4.8	20,600	24.0	17,500	4.4	18,500	17.5	13,700	3.7
023	6.0	800	23,000	15.0	26,000	4.7	25,400	23.0	21,900	4.3	23,900	17.0	17,000	3.6
024	6.0	800	23,900	15.1	27,000	5.0	26,400	23.4	22,300	4.5	24,400	17.5	17,500	3.8
030	8.0	900	29,500	15.7	34,600	5.1	32,900	23.9	28,300	4.4	29,000	18.3	22,800	3.8
036	9.0	1150	33,300	15.0	40,600	4.8	37,700	23.0	33,000	4.3	34,500	17.3	26,000	3.5
041	11.0	1300	40,000	14.5	45,000	4.5	44,500	22.0	36,000	4.0	41,000	16.5	29,000	3.4
042	11.0	1400	40,800	15.6	45,400	5.0	45,800	23.5	37,000	4.3	42,300	18.5	29,900	3.7
048	12.0	1600	47,700	15.5	56,000	4.8	52,000	23.4	45,900	4.2	49,500	18.1	36,900	3.6
060	15.0	1900	58,400	15.3	72,500	4.7	65,500	23.0	58,400	4.0	60,900	17.9	47,100	3.6
070	18.0	2100	63,000	14.3	79,000	4.7	70,000	21.0	64,100	4.0	68,500	16.1	51,600	3.5

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature. Heating capacities based upon 68°F DB, 59°F WB entering air temperature
 All ratings based upon 208V operation



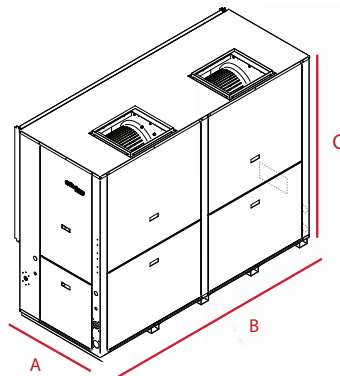
All US Series product is safety listed under UL1995 thru ETL and performance listed with AHRI in accordance with standard 13256-1.

VERSATEC 300 WSHP - NL/X - 7-10 TON

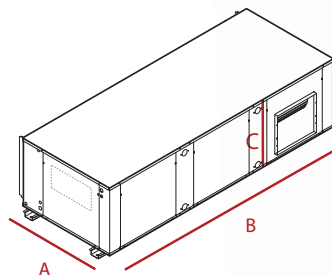
Water-to-Air Heat Pump

Standard Features:

- All Versatec 300 product is AHRI 260 sound rated using third party sound testing
- Large low rpm blower.
- Heavy gauge cabinet and rails on horizontals to hang for vibration isolation.
- Quiet scroll compressors in all models
- 2-dimension refrigerant piping vibration loops to isolate the compressor.
- All interior cabinet surfaces including the compressor compartment are insulated with 1/2 in. [12.7 mm] thick 1-1/2lb [681 g] density, surface coated, acoustic type glass fiber insulation.
- Corrosion-free plastic or stainless steel double-sloped drain pan to eliminate standing water and prevent bacterial growth.
- Foil-faced fiber insulation in all air handler compartments to allow cleanability and inhibit bacteria growth. Optional non-fibrous closed cell insulation is also available for more sensitive applications.
- An optional low static high efficiency 2 in. [5.1 cm] MERV 13 filter is also available
- Removable compressor access panels.
- Separate Air handler and compressor section access panels permit service testing without bypass (Vertical only).
- Removable low voltage connector for easy thermostat wiring.
- Quick attach wiring harnesses are used throughout for fast servicing.
- High and low pressure refrigerant service ports.
- Internal drop out blowers (vertical) and access panel view of all blower motors (horizontal).



Vertical Cabinets	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT*)	
080-120	in.	34.0	61.3	58.0
	cm.	86.4	155.7	147.3

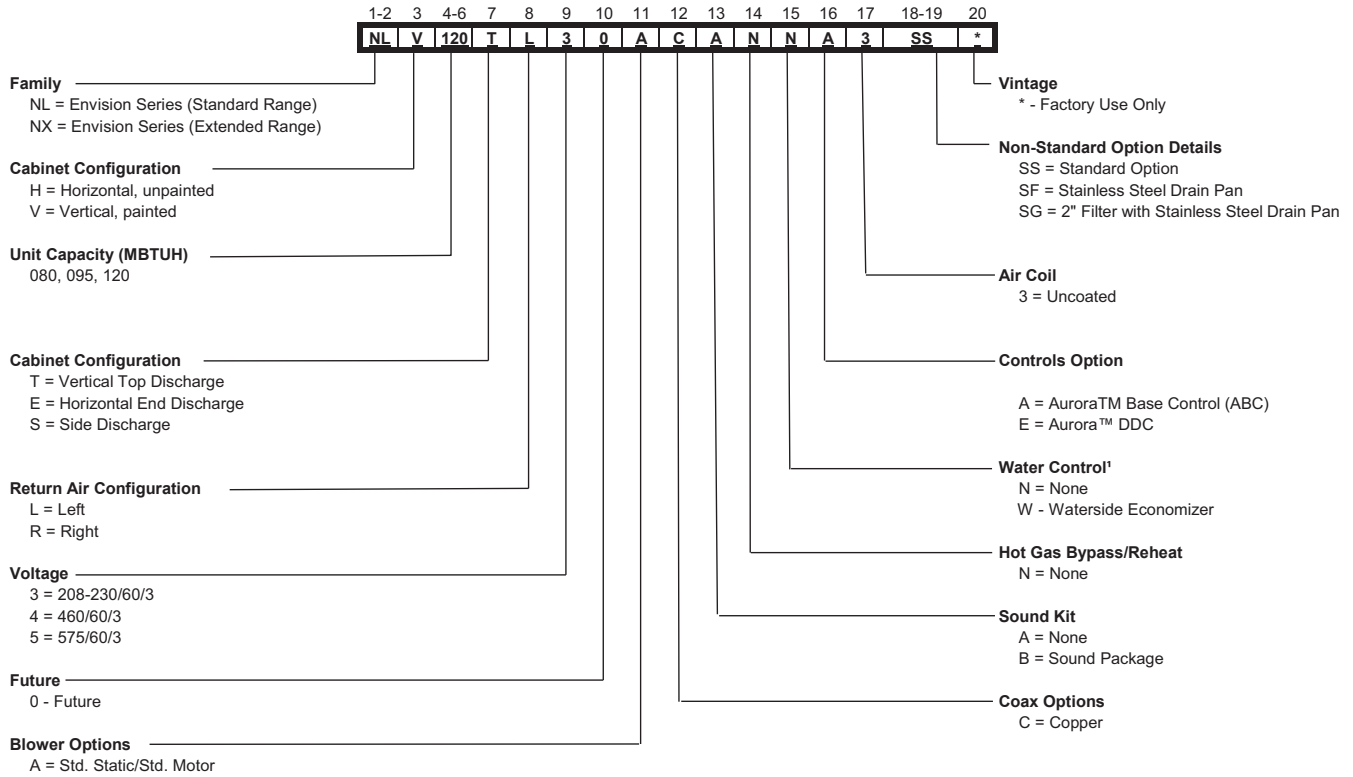


Horizontal Cabinets	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT*)	
080-120	in.	38.0	89.0	23.8
	cm.	96.5	226.1	60.5

Quick Features Guide	
Belt/Sheave FC Fan	Std
Belt Drive FC VFD Fan	Special
Waterside Econ	Opt
Hot Gas Reheat	-
Hot Gas Bypass	-
Aurora Advanced Controls	Special
Aurora UPC BACnet, N2 or LON	Opt
VAV Capable (UPC)	-
DCV Capable (UPC)	Opt
Zoning (Aurora Advanced)	-
Take-apart large vartical cabinet	-



Large oversized air coils, water to refrigerant heat exchangers and scroll compressors provide extremely efficient operation and produce the first 30 EER and 5 COP (ISO 13256-1 GLHP) water-source heat pump on the market. This efficiency means the Versatec 300 requires less loop than any product on the market.



Notes
¹ - Waterside Economizer option must be ordered with stainless steel drain pan.

AHRI/ASHRAE/ISO 13256-1 English (IP) Units														
PSC Motor														
Model	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
			Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling EWT 77°F		Heating EWT 32°F	
	gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
NLH080	22.0	2600	73,000	15.5	77,700	4.7	79,000	22.5	65,800	4.2	76,000	17.7	51,300	3.5
NLH095	24.0	3200	85,500	15.6	91,000	4.8	95,000	23.0	78,000	4.3	91,200	18.1	61,600	3.5
NLH120	28.0	3600	113,000	13.8	140,600	4.6	129,000	21.9	115,000	4.1	119,500	16.2	89,000	3.4
NLV080	22.0	2600	76,000	16.5	85,000	5.0	84,000	24.2	71,000	4.4	83,000	19.7	55,000	3.7
NLV095	24.0	2800	91,000	17.2	100,000	5.2	101,000	25.7	83,000	4.6	95,000	19.6	65,000	3.8
NLV120	28.0	3600	115,000	15.5	136,000	5.1	135,000	24.3	107,500	4.4	122,000	18.0	83,000	3.6



All NL and NX Series product is Safety listed under UL1995 thru ETL and performance listed with AHRI in accordance with standard 13256-1.

VERSATEC 500 WSHP - NBV/H - 0.75-6 TON

Water-to-Air Heat Pump

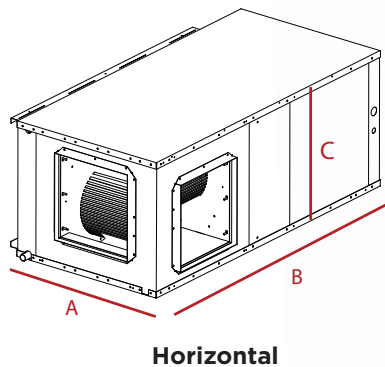
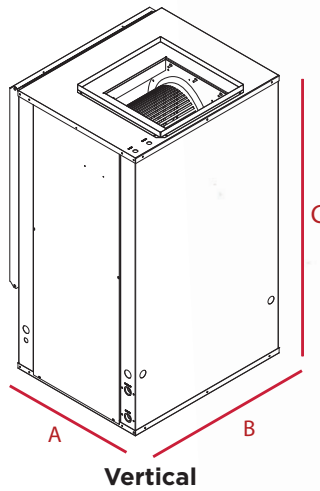
Standard Features:

- Capacities of 6,000 through 72,000 Btu/h
- Voltages: 115/60/1, 208-230/60/1, 265-277/60/1, 208-230/60/3, 460/60/3, and 575/60/3.
- Vertical and horizontal w/ true left and right return
- Horizontal end or side discharge
- Heavy gauge galvanized cabinet
- Removable inlet ring blowers
- High efficiency rotary, single speed scroll or dual capacity scroll compressors
- All-Aluminum rifled tube-and-lanced fin air coil
- Polymer composite drain pan
- Bi-directional balanced port TXV
- Oversized copper coaxial water heat exchanger
- Discharge mufflers on sizes 048-070
- Filter rail for open return applications
- 75VA transformer with circuit breaker
- Aurora Base Controls

Optional Features:

- 3 speed PSC, 5 speed ECM, or VS ECM fan motors
- Painted Cabinet
- Optional 4 sided filter rack
- Phase guard with optional 'dial' disconnect
- Stainless steel drain pan w/ secondary drain connection
- Extended range insulation option
- AlumiSeal air coil e-coating
- 2 in. MERV 13 filter
- Waterside economizer
- Cupronickel water coil
- Internal motorized 2-way valve
- Water flow regulator
- Sound kit
- IntelliStart
- Aurora Advanced Control
- Aurora UPC BACnet (+ N2)
- Aurora UPC with LONWorks
- IntelliZone Commercial and IntelliZone BACnet capabilities
- High static fan options
- Hot Gas Bypass
- Hot Gas Reheat
- Hot Water Generation

Quick Features Guide	
5 Spd FC ECM Fan	Opt
VS FC ECM Fan	Opt
Waterside Econ	Opt
Hot Gas Reheat	Opt
Hot Gas Bypass	Opt
Aurora Advanced Controls	Special
Aurora UPC BACnet, N2 or LON	Opt
VAV Capable (UPC)	-
DCV Capable (UPC)	Opt
Zoning (Aurora Advanced)	Opt

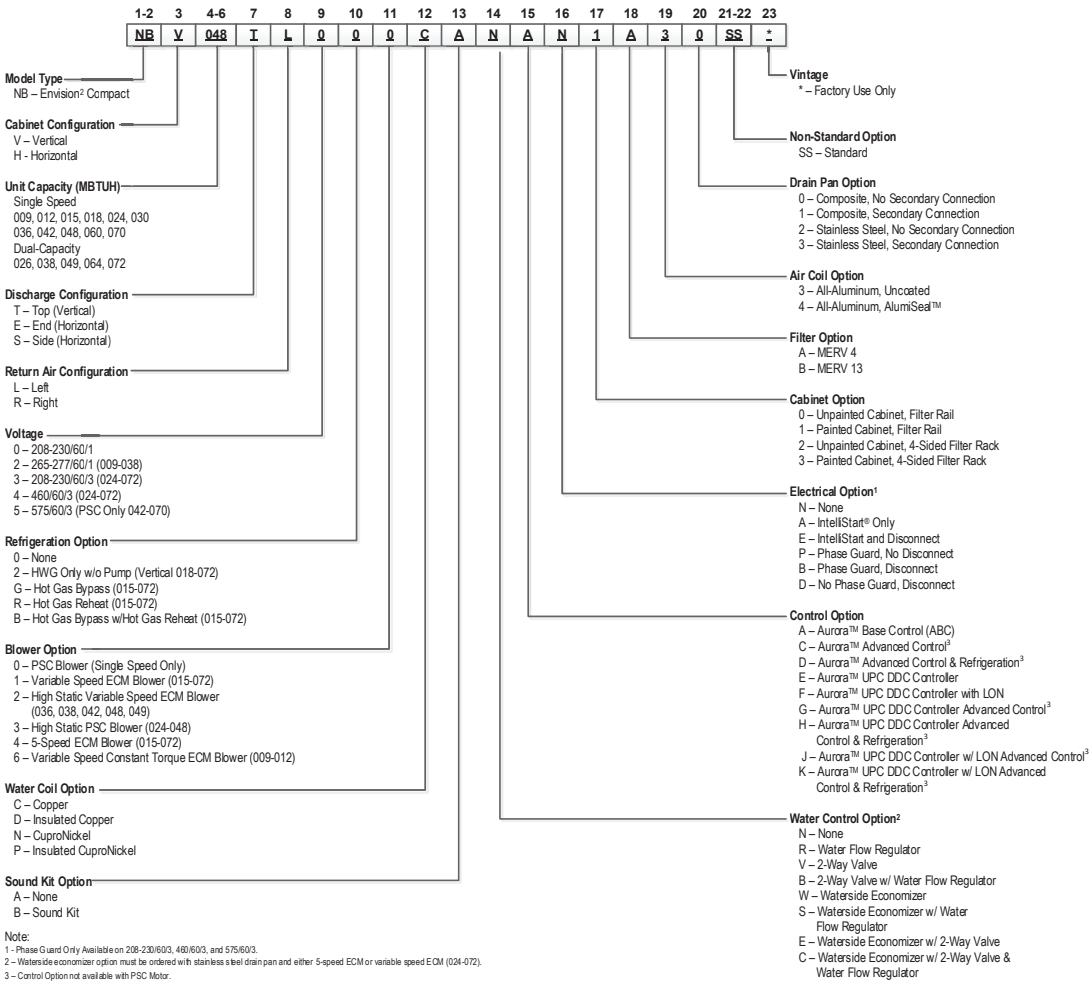


Vertical Cabinets	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
009-012	in.	22.5	22.2	30.2
	cm.	57.2	56.4	76.7
015-018	in.	22.5	26.2	40.2
	cm.	57.2	66.5	102.1
024-030	in.	22.5	26.2	44.2
	cm.	57.2	66.5	112.3
036-038	in.	25.5	31.2	44.2
	cm.	64.8	79.2	112.3
042-049	in.	25.5	31.2	48.2
	cm.	64.8	79.2	122.4
060-072	in.	25.5	31.2	52.2
	cm.	64.8	79.2	132.6

Horizontal Cabinets	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
009-012	in.	22.5	35.0	17.2
	cm.	57.2	88.9	43.7
015-018	in.	22.5	42.0	19.2
	cm.	57.2	106.7	48.8
024-030	in.	22.5	45.0	19.2
	cm.	57.2	114.3	48.8
036-038	in.	25.5	48.0	21.2
	cm.	64.8	121.9	53.8
042-049	in.	25.5	53.0	21.2
	cm.	64.8	134.6	53.8
060-064	in.	25.5	61.0	21.2
	cm.	64.8	154.9	53.8
070-072	in.	25.5	68.0	21.2
	cm.	64.8	172.7	53.8



High-efficiency single and dual stage compressors and high feature set in compact cabinet for retrofit and new construction WSHP applications.



Note:
1 - Phase Guard Only Available on 208-230/60/3, 460/60/3, and 575/60/3.
2 - Waterside economizer option must be ordered with stainless steel drain pan and either 5-speed ECM or variable speed ECM (024-072).
3 - Control Option not available with PSC Motor.

AHRI/ASHRAE/ISO 13256-1 English (IP) Units

PSC Motor															
Model	Capacity Modulation	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
		gpm	cfm	Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling EWT 77°F		Heating EWT 32°F	
				Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
009	Single	3.0	350	9,600	14.0	11,600	5.2	10,800	22.2	10,600	4.4	9,800	16.7	7,800	3.4
012	Single	3.5	400	11,300	14.0	14,800	5.0	13,200	23.1	12,000	4.2	12,000	16.5	9,500	3.5
015	Single	4.0	500	14,400	15.9	18,500	5.1	16,700	26.0	15,500	4.5	15,000	18.0	12,000	3.8
018	Single	5.0	600	17,400	14.8	23,000	5.1	20,600	24.7	18,700	4.3	18,500	17.3	14,500	3.5
024	Single	8.0	850	24,800	16.2	29,600	5.0	28,100	24.0	23,900	4.3	26,000	19.2	18,900	3.7
030	Single	8.0	900	26,800	17.9	32,900	5.3	30,800	27.1	26,000	4.7	27,900	21.1	20,300	3.7
036	Single	9.0	1200	31,500	14.8	40,200	5.3	35,100	24.4	29,200	4.5	32,900	19.2	24,400	3.8
042	Single	11.0	1300	38,300	15.4	45,600	5.2	42,300	23.3	36,000	4.3	40,300	18.5	28,900	3.5
048	Single	12.0	1500	43,200	13.3	55,600	4.9	48,900	22.3	44,700	4.2	45,500	16.0	36,400	3.7
060	Single	15.0	1800	61,000	15.2	74,100	5.2	66,600	22.8	57,300	4.4	62,300	17.4	46,100	3.7
070	Single	18.0	2000	66,200	14.4	85,000	4.6	73,500	20.8	67,100	4.0	69,100	16.6	53,500	3.4
Variable Speed ECM															
009	Single	3.0	350	9,600	14.6	11,700	5.3	11,000	23.0	10,700	4.5	9,800	17.1	7,800	3.6
012	Single	3.5	400	11,400	14.4	14,900	5.2	13,400	23.5	12,400	4.3	12,200	17.1	9,500	3.6
015	Single	4.0	500	14,400	16.5	18,500	5.3	16,700	27.0	15,500	4.7	15,000	18.8	12,000	4.0
018	Single	5.0	600	17,400	15.7	23,000	5.3	20,600	26.0	18,700	4.6	18,500	18.3	14,500	3.8
024	Single	8.0	800	24,800	17.0	29,600	5.3	28,100	27.5	23,900	4.6	26,000	19.6	18,900	3.8
030	Single	8.0	900	27,000	18.9	32,900	5.6	31,200	29.5	26,000	4.8	28,100	22.0	20,500	3.9
036	Single	9.0	1200	32,300	18.8	36,500	5.7	36,800	28.8	29,200	4.9	33,700	22.0	24,400	4.2
042	Single	11.0	1300	39,000	18.6	45,600	5.8	43,900	28.1	36,100	4.9	40,700	21.7	28,900	4.0
048	Single	12.0	1500	44,100	16.3	55,600	5.4	50,300	25.9	44,700	4.7	45,900	18.8	36,400	4.0
060	Single	15.0	1800	61,100	16.4	74,100	5.5	66,900	24.3	59,200	4.7	62,200	18.4	47,900	4.0
070	Single	18.0	2000	66,200	15.3	85,000	5.0	75,000	22.9	68,000	4.4	69,100	17.6	54,000	3.7
026	Full	8.0	950	24,900	16.8	30,100	5.5	27,700	24.0	23,900	4.8	26,400	19.6	19,500	4.0
026	Part	7.0	750	18,900	18.6	22,000	6.1	22,200	29.7	17,500	4.9	21,000	26.0	16,400	4.5
026	Full	9.0	1300	36,500	17.0	43,300	5.5	40,000	24.4	35,000	4.9	38,200	19.7	28,500	4.2
038	Part	8.0	1150	26,500	19.0	31,300	6.4	29,900	32.1	24,900	5.1	29,500	28.0	22,900	4.8
049	Full	12.0	1600	49,100	17.2	59,000	5.5	54,100	24.5	47,200	4.6	50,800	19.3	38,200	4.0
049	Part	11.0	1400	36,300	19.1	41,700	6.1	41,600	33.0	33,600	4.7	39,800	27.4	31,000	4.4
064	Full	16.0	1800	62,300	16.4	73,900	5.2	69,000	23.9	60,400	4.6	65,500	19.3	47,300	3.8
064	Part	14.0	1500	45,800	18.1	53,200	5.9	53,000	30.7	43,500	4.8	50,500	26.5	38,200	4.3
072	Full	18.0	2000	70,100	15.6	88,000	4.8	79,000	22.0	71,000	4.3	73,800	18.2	55,400	3.7
072	Part	16.0	1500	54,200	17.0	66,000	5.1	61,500	27.6	52,700	4.3	59,400	24.9	47,400	3.9



All NB product is safety listed under UL1995 thru ETL and performance listed with AHRI in accordance with standard 13256-1.

VERSATEC 500 WSHP - UDV/H - 7-30 TON

Water-to-Air Heat Pump

Standard Features:

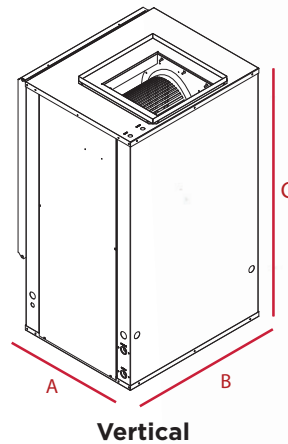
- Take-apart capabilities (20-30 ton)
- 3 vertical (7-30 ton) and 2 horizontal (7-15 ton) cabinet configurations
- Complete commercial voltage selection of 208-230 V/60 Hz/3ph, 460/60/3, and 575/60/3
- All-Aluminum rifled tube-and-fin air coils are not susceptible to formicary corrosion
- All-Aluminum interlaced air coils (12-30 ton)
- Industry leading quality through engineering and manufacturing using quality components
 - High Efficiency and reliable permanent magnet dual and single capacity scroll compressors
 - High Efficiency variable speed, backward inclined plenum fan with 2" w.g. ESP capability
- High efficiency performance for maximizing LEED points
- Split access panel design for ease of service.

Optional Features:

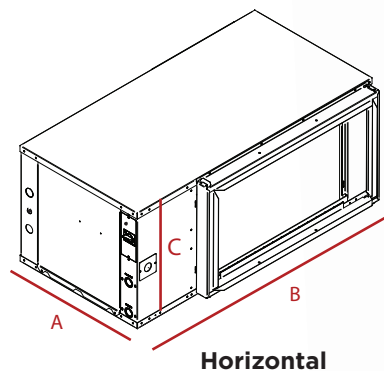
- Painted Cabinet
- Filter Rack
- Electronic expansion device with stepper motor, in-line valve design operated by direct drive motor technology. (Advanced EEV)
- Waterside Economizer
- Head pressure control capabilities
- Sound kit
- Aurora Advanced Control
- Aurora UPC BACnet (+ N2)
- Modulating hot gas reheat (on/off)
- IntelliZone Commercial and IntelliZone BACnet capabilities



Vertical Cabinets	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
084-120	in.	34.0	36.3	72.5
	cm.	86.4	92.2	184.2
150-180	in.	34.0	46.3	72.5
	cm.	86.4	117.5	184.2
240-360	in.	34.0	88.0	80.0
	cm.	86.4	34.6	31.5



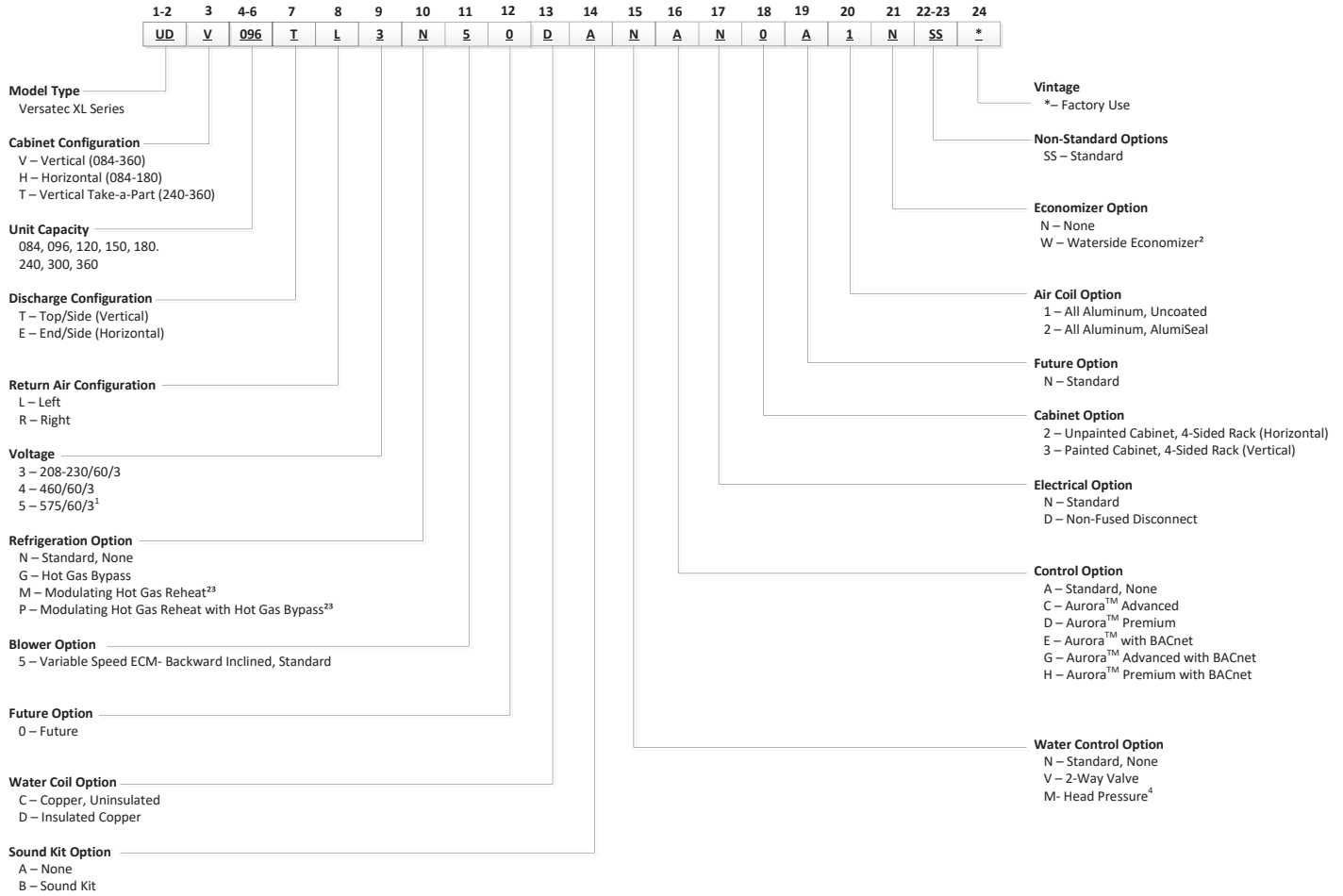
Quick Features Guide	
5 Spd FC ECM Fan	Opt
VS FC ECM Fan	Opt
Waterside Econ	Opt
Hot Gas Reheat	Opt
Hot Gas Bypass	Opt
Aurora Advanced Controls	Opt
Aurora UPC BACnet, N2 or LON	Opt
VAV Capable (UPC)	-
DCV Capable (UPC)	Opt
Zoning	Opt



Horizontal Cabinets	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
084-120	in.	34.0	89.0	29.9
	cm.	86.4	226.1	75.9
150-180	in.	34.0	110.0	29.9
	cm.	86.4	279.4	75.9



The reduced footprint and take-a-part cabinet option make this product suitable for both retrofit and new construction applications and provides optimum performance and flexibility in both water loop and geothermal applications.



Note:
 1- 575V option includes factory installed step down transformer on plenum fan.
 2- Requires Advanced or Premium Controls.
 3- Not available on UDH180
 4- Head Pressure Control requires Premium Controls and Modulating Hot Gas Reheat.

AHRI/ASHRAE/ISO 13256-1 English (IP) Units

Vertical														
Model	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
			Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling EWT 77°F		Heating EWT 32°F	
	gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
084	21	2500	86,000	16.0	103,600	5.0	98,000	24	84,000	4.4	90,000	18.5	67,000	3.8
096	24	2800	95,000	15.3	120,000	5	106,000	22	96,000	4.4	98,000	17.0	76,000	3.8
120	30	3600	119,000	14.5	140,000	5	135,000	21.0	114,000	4.2	123,000	16.5	89,000	3.5
150	36	4500	150,000	15.6	160,000	4.6	165,000	22	130,000	4.1	156,000	17.3	105,000	3.2
180	45	5200	180,000	14.0	195,000	4.3	190,000	18	162,000	3.8	184,000	15.2	128,000	3.2
240	60.0	7500	240,000	16.0	285,000	5.0	275,000	23.5	228,000	4.4	252,000	18.2	190,000	3.8
300	75.0	9000	300,000	15.0	350,000	4.6	342,000	23	290,000	4.1	315,000	17.2	230,000	3.7
360	90.0	9900	350,000	12.1	400,000	4.0	400,000	17	340,000	3.8	355,000	14	270,000	3.3
Horizontal														
H084	21	2500	85,000	15.0	96,000	4.5	96,000	22	82,500	4.3	88,000	17.5	67,000	3.6
H096	24	2800	95,000	14.5	108,000	4.8	106,000	21	93,000	4.4	97,000	16.5	76,000	3.7
H120	30	3600	117,000	14.5	140,000	5	130,000	21.0	114,000	4.2	123,000	16.5	89,000	3.5
H150	36	4500	148,000	15.4	160,000	4.6	163,000	22	130,000	4.1	155,000	17	105,000	3.2
H180	45	5200	178,000	13.8	192,000	4.3	187,000	17.5	162,000	3.7	182,000	15	128,000	3.2

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature
 Heating capacities based upon 68°F DB, 59°F WB entering air temperature
 All ratings based upon 208V operation
 Models 036-120 are rated and certified in accordance with ISO/AHRI/ASHRAE 13256-1
 Models 144-360 are rated in accordance with ISO/AHRI/ASHRAE 13256-1 but are not certified since their capacity exceeds the scope of the AHRI program.



All UD Series product is safety listed under UL1995 thru UL and performance listed with AHRI in accordance with standard 13256-1.

VERSATEC 700 WSHP - UVV/H - 2-6 TON

Water-to-Air Heat Pump

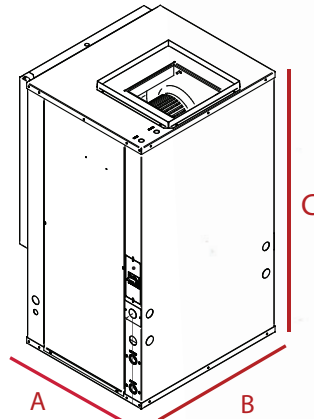


Standard Features:

- Capacities of 24,000 through 72,000 Btu/h
- Voltages: 208-230/60/1, 208-230/60/3, and 460/60/3.
- Vertical and horizontal w/ true left and right return
- Horizontal end or side discharge
- Heavy gauge galvanized cabinet
- Variable Speed ECM fan motors
- Removable inlet ring blowers
- High efficiency permanent magnet variable speed scroll compressors
- All-Aluminum rifled tube-and-lanced fin air coil
- Polymer composite drain pan
- EEV
- Oversized copper coaxial water heat exchanger
- 4 sided filter rail
- 75VA transformer with circuit breaker
- Aurora Advanced Controls

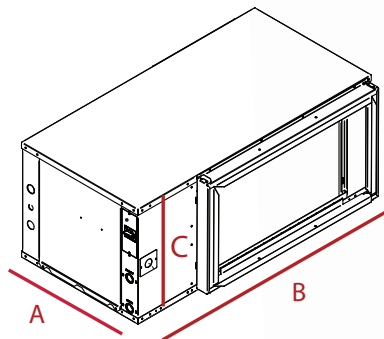
Optional Features:

- Painted Cabinet
- Filter Rack
- Phase guard with optional 'dial' disconnect
- Stainless steel drain pan w/ secondary drain connection
- Extended range insulation option
- AlumiSeal air coil e-coating
- 2 in. MERV 13 filter
- Water-side economizer
- Cupronickel water coil
- Internal motorized 2-way valve
- Water flow regulator
- Sound kit
- Aurora UPC BACnet (+ N2)
- Aurora UPC with LONWorks
- Hot Gas Bypass
- Hot Gas Reheat
- Hot Water Generation



Vertical

Vertical Cabinets	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
024-036	in.	25.5	31.2	44.2
	cm.	64.8	79.2	112.3
048	in.	25.5	31.2	48.2
	cm.	64.8	79.2	122.4
060-072	in.	25.5	31.2	52.2
	cm.	64.8	79.2	132.6



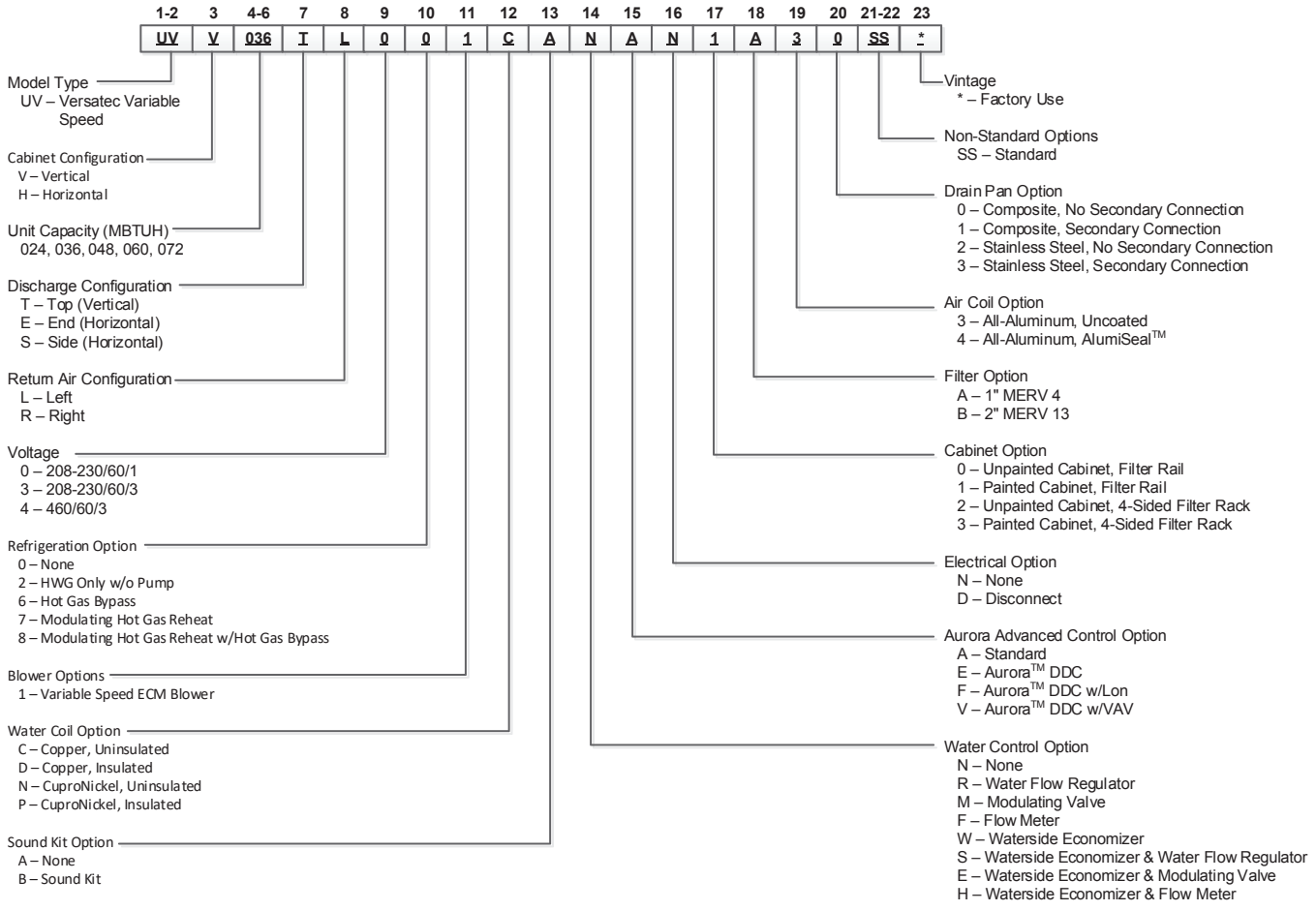
Horizontal

Horizontal Cabinets	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
024-036	in.	25.5	57.0	21.2
	cm.	64.8	144.8	53.8
048	in.	25.5	63.0	21.2
	cm.	64.8	160.0	53.8
060	in.	25.5	70.0	21.2
	cm.	64.8	177.8	53.8
072	in.	25.5	75.0	21.2
	cm.	64.8	190.5	53.8

Quick Features Guide	
5 Spd FC ECM Fan	-
VS FC ECM Fan	Std
Waterside Econ	Opt
Hot Gas Reheat	Opt
Hot Gas Bypass	Opt
Aurora Advanced Controls	Std
Aurora UPC BACnet, N2 or LON	Opt
VAV Capable	Opt
DCV Capable (UPC)	Opt
Zoning	Opt



Ultra-high-efficiency permanent magnet variable speed compressors and high feature set in compact cabinet for retrofit and new construction WSHP applications.



Rev.: 3 December, 2020

AHRI/ASHRAE/ISO 13256-1 English (IP) Units

Variable Speed ECM Motor															
Model	Capacity Modulation	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
				Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling Brine Full Load 77°F Part Load 68°F		Heating Brine Full Load 32°F Part Load 41°F	
		gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
024	Full	6	800	23,500	18.7	29,300	5.9	27,300	37.4	23,400	5.0	25,500	23.6	17,800	3.9
	Part	7	700	9,500	21.0	11,000	7.0	11,000	48.0	8,000	5.5	10,500	36.0	7,000	4.4
036	Full	9	1300	37,500	17.8	46,000	5.4	43,000	28.0	37,000	4.4	39,000	21.0	29,000	3.8
	Part	7	700	9,500	21.0	11,000	7.0	11,000	48.0	8,000	5.5	10,500	36.0	7,000	4.4
048	Full	12	1600	47,500	16.6	60,000	5.4	53,000	26.0	46,000	4.7	48,000	20.0	38,000	3.8
	Part	8	850	13,000	25.0	15,000	7.8	15,000	50.0	12,000	5.5	14,000	41.0	10,000	4.9
060	Full	17	1800	60,000	15.4	73,000	4.8	63,000	24.0	57,000	4.2	62,000	17.8	45,000	3.7
	Part	10	1200	16,000	21.0	17,000	7.8	18,000	45.0	14,000	5.3	18,000	36.0	11,000	4.4
072	Full	20	2000	70,000	14.0	90,000	4.6	78,000	21.0	72,000	4.0	71,500	16.4	58,000	3.4
	Part	12	1400	19,500	20.4	23,000	7.4	24,000	40.0	18,000	5.4	22,000	34.0	15,000	4.8

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature. Heating capacities based upon 68°F DB, 59°F WB entering air temperature
All ratings based upon 208V operation



All UV Series product is safety listed under UL1995 thru UL and performance listed with AHRI in accordance with standard 13256-1.

VERSATEC 700 WSHP - UVV/H - 10-90 TON

Water-to-Air Heat Pump

Standard Features

- Capacities of 120,000 and 180,000 Btu/h
- Voltages: 208-230/60/3, 460/60/3, and 575/60/3 upon request.
- Vertical topflow or downflow w/ true left and right return
- Horizontal w/ true left and right return
- Horizontal end or side discharge
- Heavy gauge galvanized cabinet
- Integrated VS ECM backward curved Plenum fans
- High efficiency permanent magnet variable speed scroll compressors
- All-Aluminum rifled tube-and-lanced fin air coil
- Stainless steel drain pan
- EEV
- Oversized copper coaxial water heat exchanger
- 4 sided filter rail
- 75VA transformer with circuit breaker
- Aurora Advanced Controls
- Twinning up to 90 tons (or 6 units)

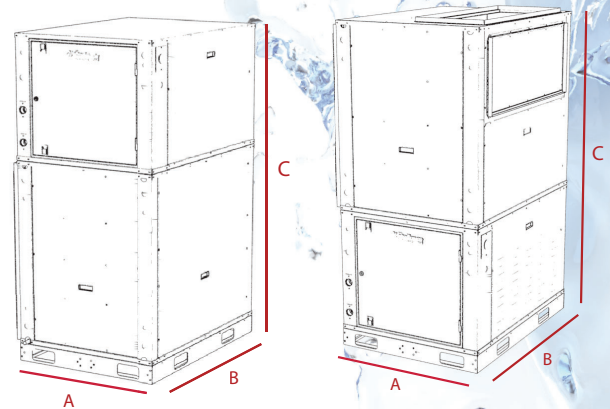


Twinned Unit Shown

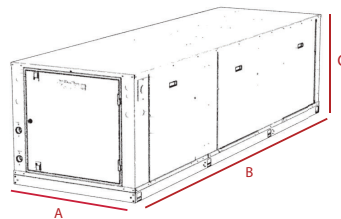
Optional Features

- Painted Cabinet
- Filter Rack
- Phase guard with optional 'dial' disconnect
- Stainless steel drain pan w/ secondary drain connection
- Extended range insulation
- AlumiSeal air coil e-coating
- 2 in. MERV 13 filter
- Integrated Water-side economizer
- Internal motorized 2-way valve
- Water flow regulator
- Sound kit
- Aurora UPC BACnet (+ N2)
- Aurora UPC with LONWorks
- Hot Gas Bypass
- Modulating Hot Gas Reheat
- Multi-zone and single-zone VAV
- IntelliZone Commercial and IntelliZone BACnet capabilities

Vertical Cabinets (Topflow & bottomflow)	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
120	in.	34.0	36.3	72.5
	cm.	86.4	92.2	184.2
180	in.	34.0	46.3	72.5
	cm.	86.4	117.5	184.2



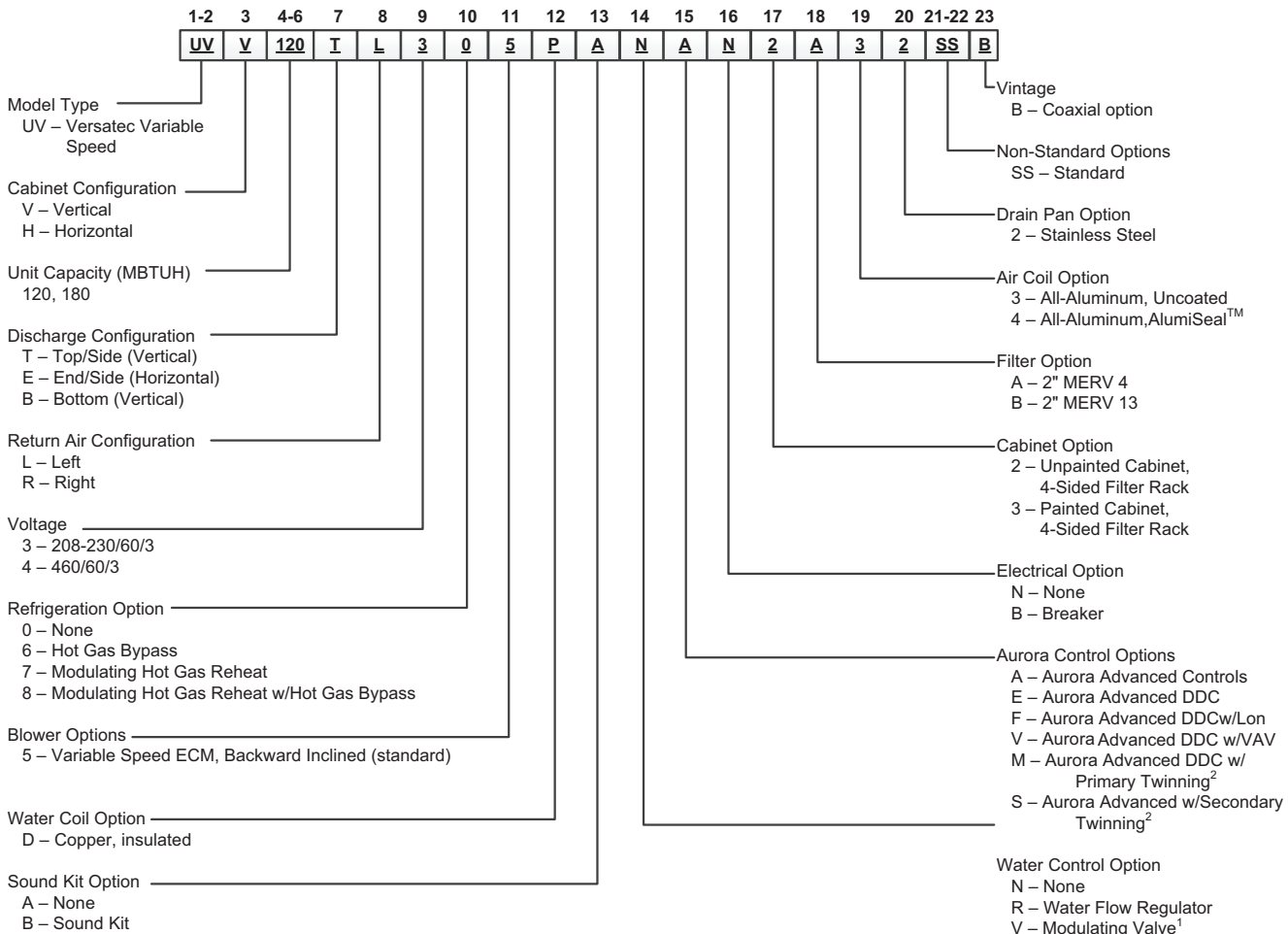
Quick Features Guide	
VS BC ECM Plenum Fan	Std
Integrated Waterside Econ	Special
Modulating Hot Gas Reheat	Opt
Aurora Advanced Controls	Std
Aurora UPC BACnet, N2 or LON	Opt
VAV Capable	Opt
DCV Capable (UPC)	Opt
Zoning	-
Twinning	Opt



Horizontal Cabinets	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
120	in.	34.0	89.0	29.9
	cm.	86.4	226.1	75.9
180	in.	34.0	110.0	29.9
	cm.	86.4	279.4	75.9



Ultra-high-efficiency permanent magnet variable speed compressors and high feature set in compact cabinet for retrofit and new construction WSHP applications.



Notes:
 1 – not available on UVV/UVH180 with 208-230V/60/3 .
 2 – Only available with vertical, top/side discharge units.
 3 – Flow meter shipped with unit and field installed.

Rev.: 20 May 2019

AHRI/ASHRAE/ISO 13256-1 English (IP) Units															
Variable Speed ECM Motor															
Model	Capacity Modulation	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
				Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling Brine Full Load 77°F Part Load 68°F		Heating Brine Full Load 32°F Part Load 41°F	
		gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
120	Full	30	4000	125,000	14.5	140,000	4.6	145,000	22.0	115,000	4.0	132,000	16.5	96,000	3.5
	Part	20	1500	40,000	22.0	40,000	6.0	50,000	50.0	25,000	5.0	45,000	40.0	24,000	4.5
180	Full	45	5600	175,000	13.2	200,000	4.3	200,000	18.0	185,000	4.0	180,000	14.2	145,000	3.4
	Part	20	2400	50,000	22.0	50,000	6.8	60,000	45.0	40,000	5.0	60,000	33.0	34,000	4.3

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature. Heating capacities based upon 68°F DB, 59°F WB entering air temperature. All ratings based upon 208V operation.

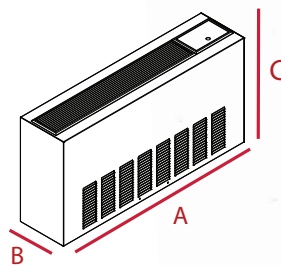


All UV Series product is safety listed under UL1995 thru UL and performance tested in accordance with AHRI/ISO standard 13256-1.

VERSATEC 300 CONSOLES - LCS/C/W - 0.75-1.5 TON Water-to-Air Heat Pump

Standard Features

- Slope and Flat top configurations
- Footprint matches “legacy” products for easy retrofits.
- Attractive rounded corners heavy gauge cabinet.
- Quiet rotary compressors in all models.
- 2-dimension refrigerant piping vibration loops to isolate the compressor.
- All interior cabinet surfaces including the compressor compartment are insulated with 1/2 in. [12.7mm] thick 1-1/2lb [681g] density, surface coated, acoustic type glass fiber insulation.
- Removable compressor access panel
- High and low pressure refrigerant service ports.
- Internal slide out blowers.
- All refrigerant brazing is performed in a nitrogen environment.
- Computer controlled deep vacuum and refrigerant charging system.
- All joints are leak detected for maximum leak rate of less than 1/4 oz. per year.

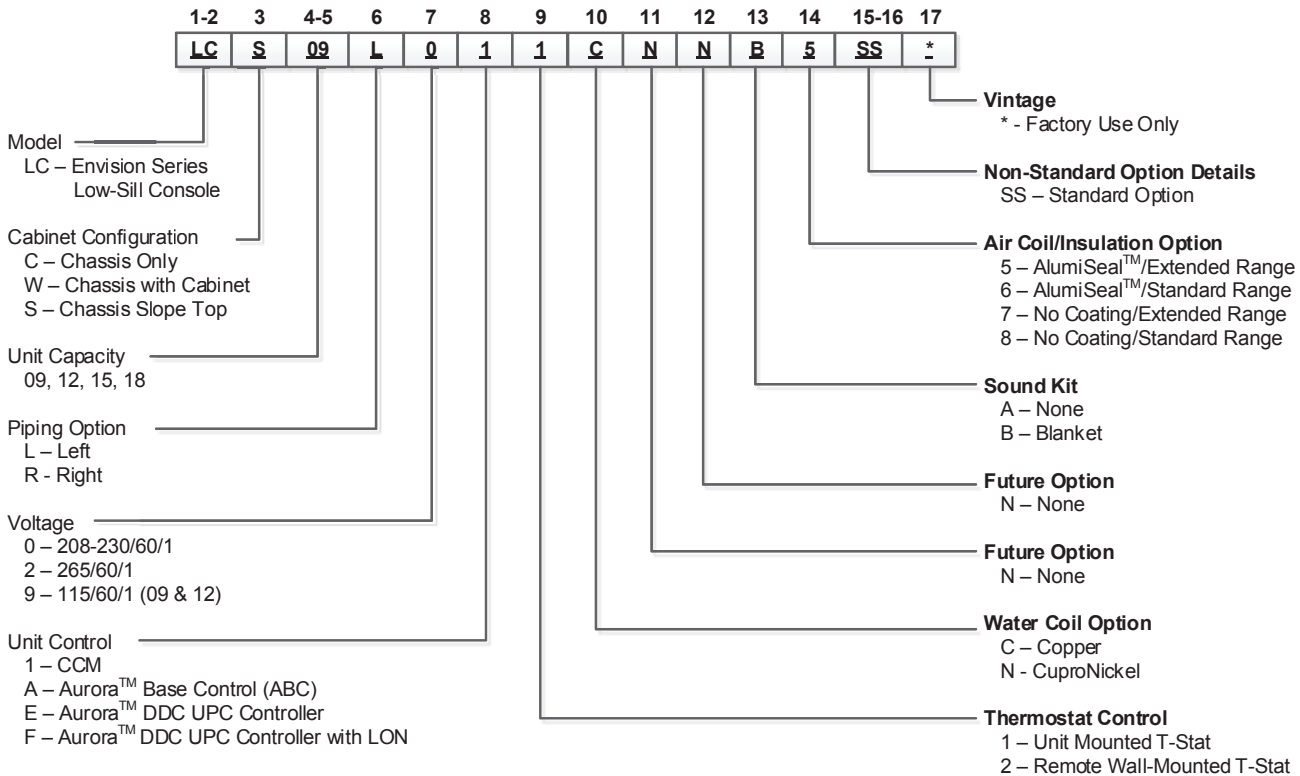


Model	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
009-012	in.	45.1	10.8	22.5
	cm.	114.6	27.4	57.2
015-018	in.	50.0	12.8	22.5
	cm.	127.0	32.4	57.2

Quick Features Guide	
VS FC ECM Fan	-
3-Spd FC ECM Fan	Std
Waterside Econ	-
Hot Gas Reheat	-
Hot Gas Bypass	-
Aurora Advanced Controls	Special
Aurora UPC BACnet, N2 or LON	Opt
VAV Capable (UPC)	-
DCV Capable (UPC)	-
Zoning	-



Perfect for classrooms, offices, hotels, or any room without ductwork, the Versatec 300 Console delivers cutting edge heating and cooling technology. A single speed R-410A rotary compressor is the heart of the console, which is available in a variety of cabinet and piping configurations. It features the ability to operate across a wide range of loop temperatures and its footprint is designed to match “legacy” consoles for easy retrofitting



NOTES: Chassis only available with left piping option.
UPC option is only available with remote wall-mounted thermostat control.
09-12 only available with PSC blower.
15-18 only available with 3-Speed ECM blower.

AHRI/ASHRAE/ISO 13256-1 English (IP) Units														
PSC/ECM Motor														
Model	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
			Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling EWT 77°F		Heating EWT 32°F	
	gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
09	2.5	300	8,500	13.4	10,500	4.4	10,200	22.5	8,700	3.8	9,000	16.0	6,700	3.1
12	3.5	350	10,500	12.3	14,400	4.3	12,400	19.5	11,800	3.7	11,000	14.2	9,500	3.5
15	4.5	450	13,500	13.6	17,000	4.9	16,200	22.0	14,000	4.1	14,200	15.9	10,500	3.4
18	5.5	500	16,200	12.5	21,000	4.4	19,000	19.6	17,000	3.7	16,600	15.1	13,300	3.1

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature. Heating capacities based upon 68°F DB, 59°F WB entering air temperature
All ratings based upon 208V operation



All LC Series product is Safety listed under UL1995 thru ETL and performance listed with AHRI in accordance with standard 13256-1.

VERSATEC 500 CONSOLES - NCS/C/W/E - 0.75-1.5 TON Water-to-Air Heat Pump

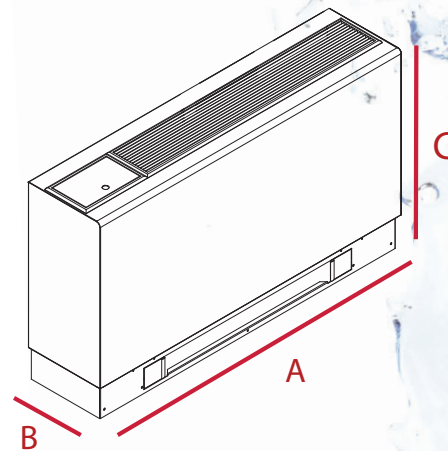
Standard Features

- Slope and Flat top configurations
- Extended cabinet options
- Footprint matches “legacy” products for easy retrofits.
- Attractive rounded corners heavy gauge cabinet.
- Quiet rotary compressors in all models.
- 2-dimension refrigerant piping vibration loops to isolate the compressor.
- All interior cabinet surfaces including the compressor compartment are insulated with 1/2” [12.7mm] thick
- 1-1/2lb [681g] density, surface coated, acoustic type glass fiber insulation.
- 2 removable compressor access panels
- Separate air handler and compressor section access panels permit service testing without bypass
- Easy access to low voltage connector for easy thermostat wiring (remote & thermostat option)
- Quick attach wiring harnesses are used throughout for fast servicing
- High and low pressure refrigerant service ports
- Internal slide out blowers
- All refrigerant brazing is performed in a nitrogen environment
- Computer controlled deep vacuum and refrigerant charging system
- All joints are leak detected for maximum leak rate of less than 1/4 oz. per year
- Computer bar code equipped assembly line insures all components are correct
- All units are computer run-tested with water to verify both function and performance

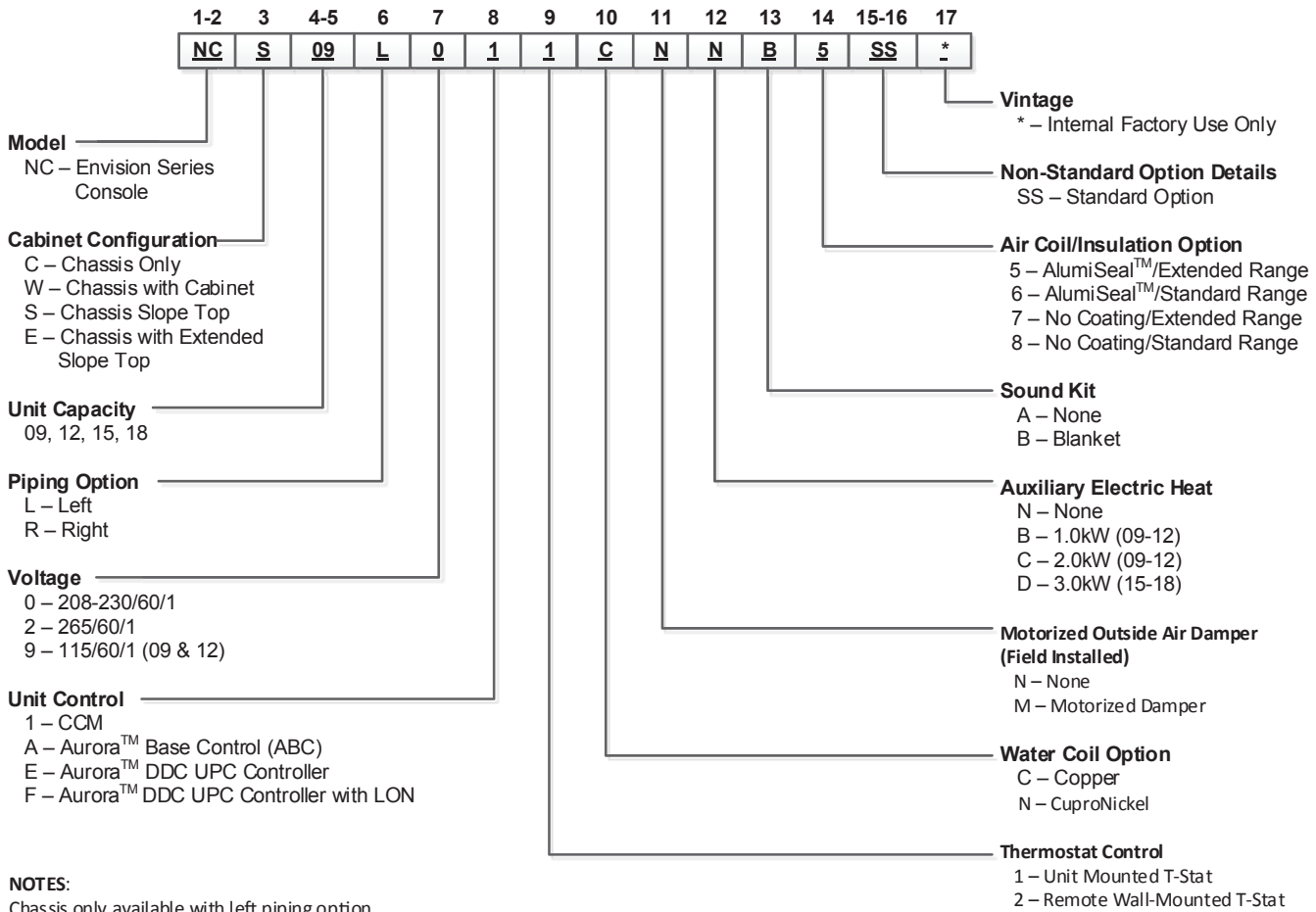


Model	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
009-012	in.	45.0	10.8	25.7
	cm.	114.3	27.3	65.2
015-018	in.	50.0	12.3	25.7
	cm.	127.0	31.1	65.2

Quick Features Guide	
VS FC ECM Fan	-
3-Spd FC ECM Fan	Std
Waterside Econ	-
Hot Gas Reheat	-
Hot Gas Bypass	-
Aurora Advanced Controls	Special
Aurora UPC BACnet, N2 or LON	Opt
VAV Capable (UPC)	-
DCV Capable (UPC)	-
Zoning	-



The Versatec 500 Console provides cutting edge technology in heating and cooling for commercial applications, using the latest in component and design technology. Single speed, R-410A rotary compressors are the heart of the system. Also included are oversized coaxial water-to-refrigerant heat exchangers and durable all-aluminum air coils for high efficiencies at low face velocities.



NOTES:
Chassis only available with left piping option.
UPC option is only available with remote wall-mounted thermostat control.

AHRI/ASHRAE/ISO 13256-1 English (IP) Units														
ECM Motor														
		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump				
Model	Flow Rate		Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling EWT 77°F		Heating EWT 32°F	
	gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
09	2.5	300	8,500	13.4	10,500	4.4	10,200	22.5	8,700	3.8	9,000	16.0	6,700	3.1
12	3.5	350	10,500	12.3	14,400	4.3	12,400	19.5	11,800	3.7	11,000	14.2	9,500	3.5
15	4.5	450	13,500	13.6	17,000	4.9	16,200	22.0	14,000	4.1	14,200	15.9	10,500	3.4
18	5.5	500	16,200	12.5	21,000	4.4	19,000	19.6	17,000	3.7	16,600	15.1	13,300	3.1

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature. Heating capacities based upon 68°F DB, 59°F WB entering air temperature
All ratings based upon operation at the lower voltage of dual voltage rated models.



All NC Series product is Safety listed under UL1995 thru ETL and performance listed with AHRI in accordance with standard 13256-1.

VERSATEC 500 ROOFTOP WSHP - URS/D/T -

3-30 TON

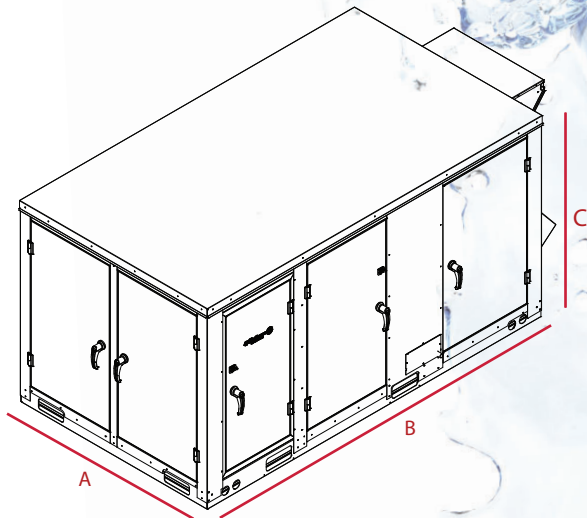
Water-to-Air Heat Pump

Standard Features

- Variable Speed integrated ECM Plenum Fan - No belts or sheaves!
- Extended range insulation and performance.
- Performance Rated with AHRI 13256-1 (036-120) and Safety listed UL1995
- All-Aluminum Air Coil (036-360) with optional Alumiseal coil coating
- Interlaced Air Coil (096-360)
- Dual capacity scroll compressor operation (selected models 036-072)
- Dual circuit scrolls (096-360)
- Cabinet configuration and construction
- Bottom flow and field convertible to side discharge
- Heavy gauge G60 sheet metal with super durable polyester powder coat paint and 1" foil faced insulation
- Double walled removable access doors with positive compression seal and composite door handles
- 1/2" Exact-O matt bottom panel insulation
- Optional factory wired GFI 115VAC convenience outlet
- Double isolated compressor mounting for quiet operation
- Dual sloped stainless steel drain pan with front or back connection
- Slide out dual sloped drain pan (036-144)
- 14" or 24" Knock-down curbs (custom curbs available)
- Variable Speed ECM fan motor with forward curve blower (036-072)
- Integrated air-side economizer with 4 different control methods
- Super quiet sound kit with multi-density compressor blanket
- Copper or cupronickel water-to-refrigerant heat exchangers
- Internally mounted water flow regulator and/or water solenoid valve for variable speed pumping systems



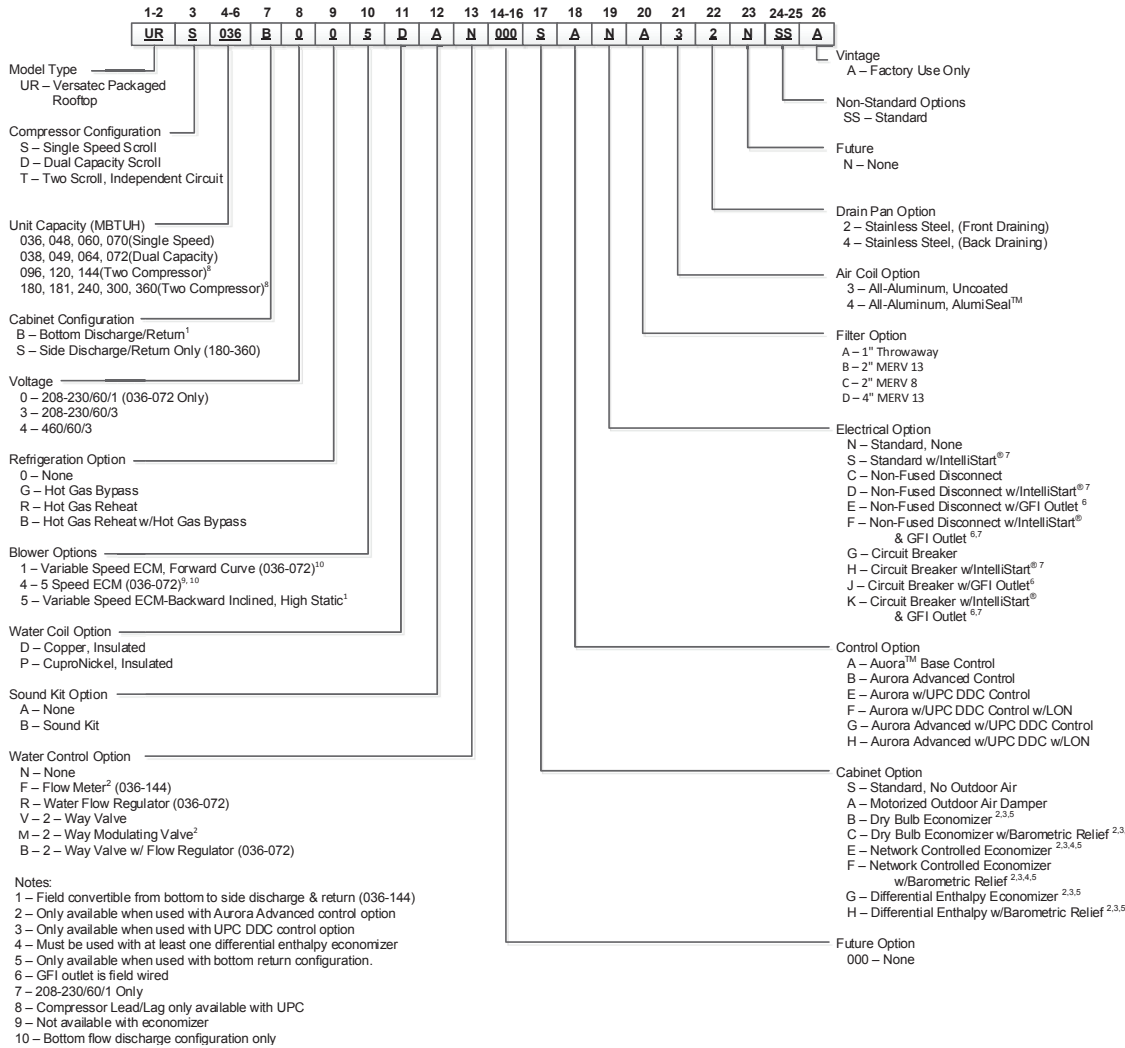
Model	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
036-072	in.	40.0	79.0	45.0
	cm.	103.0	201.0	115.0
096-144	in.	52.0	93.0	48.0
	cm.	133.0	236.0	123.0
180-360	in.	82.0	105.0	57.0
	cm.	208.0	267.0	145.0



Quick Features Guide	
5 Spd FC ECM Fan (3-6)	Opt
VS FC ECM Fan (3-6)	Opt
VS BC ECM Plenum Fan	Std
Air Side Economizer (UPC)	Opt
Hot Gas Reheat	Opt
Hot Gas Bypass	Opt
Aurora Advanced Controls	Opt
Aurora UPC BACnet, N2 or LON	Opt
VAV Capable (UPC)	-
DCV Capable (UPC)	Opt
Zoning (Aurora Advanced)	Opt



The innovative Versatec 500 Rooftop WSHP is a rooftop product that is not only designed to meet the highest demands in efficiency and features but also exceeds ASHRAE 90.1-2013 requirements for rooftops and economizers. The Versatec Rooftop is a 'clean sheet' design and combines the latest in plenum fan technology, Aurora controls and economizer integration into a powerful platform of efficiency, flexibility and integrated technology.



AHRI/ASHRAE/ISO 13256-1 English (IP) Units

5 Speed, VS ECM, and Plenum Motor															
Model	Capacity Modulation	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
				Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling Brine Full Load 77°F Part Load 68°F		Heating Brine Full Load 32°F Part Load 41°F	
		gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
036	Single	9.0	1200	32,300	18.8	36,500	5.7	36,800	28.8	29,200	4.9	33,700	22.0	24,400	4.2
	048	Single	12.0	1500	44,100	16.3	55,600	5.4	50,300	25.9	44,700	4.7	45,900	18.8	36,400
060	Single	15.0	1800	61,100	16.4	74,100	5.5	66,900	24.3	59,200	4.7	62,200	18.4	47,900	4.0
	070	Single	18.0	2000	66,200	15.3	85,000	5.0	75,000	22.9	68,000	4.4	69,100	17.6	54,000
038	Full	9.0	1300	36,500	17.0	43,300	5.5	40,000	24.4	35,000	4.9	38,200	19.7	28,500	4.2
	Part	8.0	1150	26,500	19.0	31,300	6.4	29,900	32.1	24,900	5.1	29,500	28.0	22,900	4.8
	Full	12.0	1600	49,100	17.2	59,000	5.5	54,100	24.5	47,200	4.6	50,800	19.3	38,200	4.0
049	Part	11.0	1400	36,300	19.1	41,700	6.1	41,600	33.0	33,600	4.7	39,800	27.4	31,000	4.4
	Full	16.0	1800	62,300	16.4	73,900	5.2	69,000	23.9	60,400	4.6	65,500	19.3	47,300	3.8
	Part	14.0	1500	45,800	18.1	53,200	5.9	53,000	30.7	43,500	4.8	50,500	26.5	35,700	4.3
064	Full	18.0	2000	70,100	15.6	88,000	4.8	79,000	22.0	71,000	4.3	73,800	18.2	55,400	3.7
	Part	16.0	1500	54,200	17.0	66,000	5.1	61,500	27.6	52,700	4.3	59,400	24.9	47,400	3.9
072	Full	24.0	3000	88,200	16.3	111,200	5.4	100,600	25.9	89,400	4.7	91,800	18.8	72,800	4.0
	Part	12.0	1500	44,100	16.3	55,600	5.4	50,300	25.9	44,700	4.7	45,900	18.8	36,400	4.0
096	Full	30.0	3600	122,200	16.4	148,200	5.5	133,800	24.3	118,400	4.7	124,400	18.4	95,800	4.0
	Part	15.0	1800	61,100	16.4	74,100	5.5	66,900	24.3	59,200	4.7	62,200	18.4	47,900	4.0
120	Full	36.0	4000	132,400	15.3	170,000	5.0	150,000	22.9	136,000	4.4	138,200	17.6	108,000	3.7
	Part	18.0	2000	66,200	15.3	85,000	5.0	75,000	22.9	68,000	4.4	69,100	17.6	54,000	3.7
144	Full	45.0	5600	180,000	17.1	190,000	5.0	187,000	22.2	149,000	4.3	185,000	18.5	109,000	3.4
	Part	28.0	2800	92,000	17.1	98,000	5.1	85,000	22.2	75,000	4.4	95,000	18.5	60,000	3.5
180	Full	45.0	5600	180,000	17.1	190,000	5.0	187,000	22.2	149,000	4.3	185,000	18.5	109,000	3.4
	Part	28.0	2800	92,000	17.1	98,000	5.1	85,000	22.2	75,000	4.4	95,000	18.5	60,000	3.5
181	Full	45.0	5600	180,000	17.1	190,000	5.0	187,000	22.2	149,000	4.3	185,000	18.5	109,000	3.4
	Part	28.0	2800	92,000	17.1	98,000	5.1	85,000	22.2	75,000	4.4	95,000	18.5	60,000	3.5
240	Full	60.0	7600	240,000	16.3	296,000	5.2	264,000	22.5	237,000	4.6	246,000	17.4	184,000	3.8
	Part	35.0	3800	120,000	16.3	148,000	5.2	132,000	22.5	118,500	4.6	123,000	17.4	92,000	3.8
300	Full	75.0	9500	284,000	17.3	353,000	5.4	314,000	24.5	286,000	4.8	291,000	19.0	224,000	4.2
	Part	50.0	4800	142,000	17.3	176,500	5.4	157,000	24.5	143,000	4.8	145,500	19.0	112,000	4.2
360	Full	90.0	11000	360,000	12.2	455,000	4.2	400,000	17.0	375,000	3.7	355,000	13.1	290,000	3.2
	Part	45.0	5500	185,000	13.0	240,000	4.3	210,000	17.9	197,000	3.9	187,000	13.8	152,000	3.4

Cooling capacities based upon 80.6°F DB, 66.2°F WB entering air temperature. Heating capacities based upon 68°F DB, 59°F WB entering air temperature. All ratings based upon 208V operation. Models 036-120 are rated and certified in accordance with ISO/AHRI/ASHRAE 13256-1. Models 144-360 are rated in accordance with ISO/AHRI/ASHRAE 13256-1 but are not certified since their capacity exceeds the scope of the AHRI program.



All UR product is safety listed under UL1995 thru UL and performance listed with AHRI in accordance with standard 13256-1.

VERSATEC 700 INDOOR DOAS WSHP - DAS - 10-30 TON

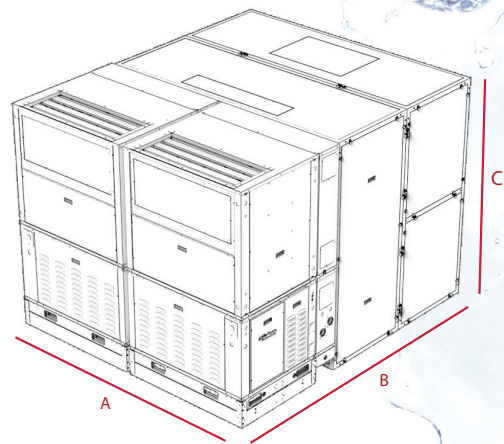
Water-to-Air DOAS Heat Pump

Standard Features

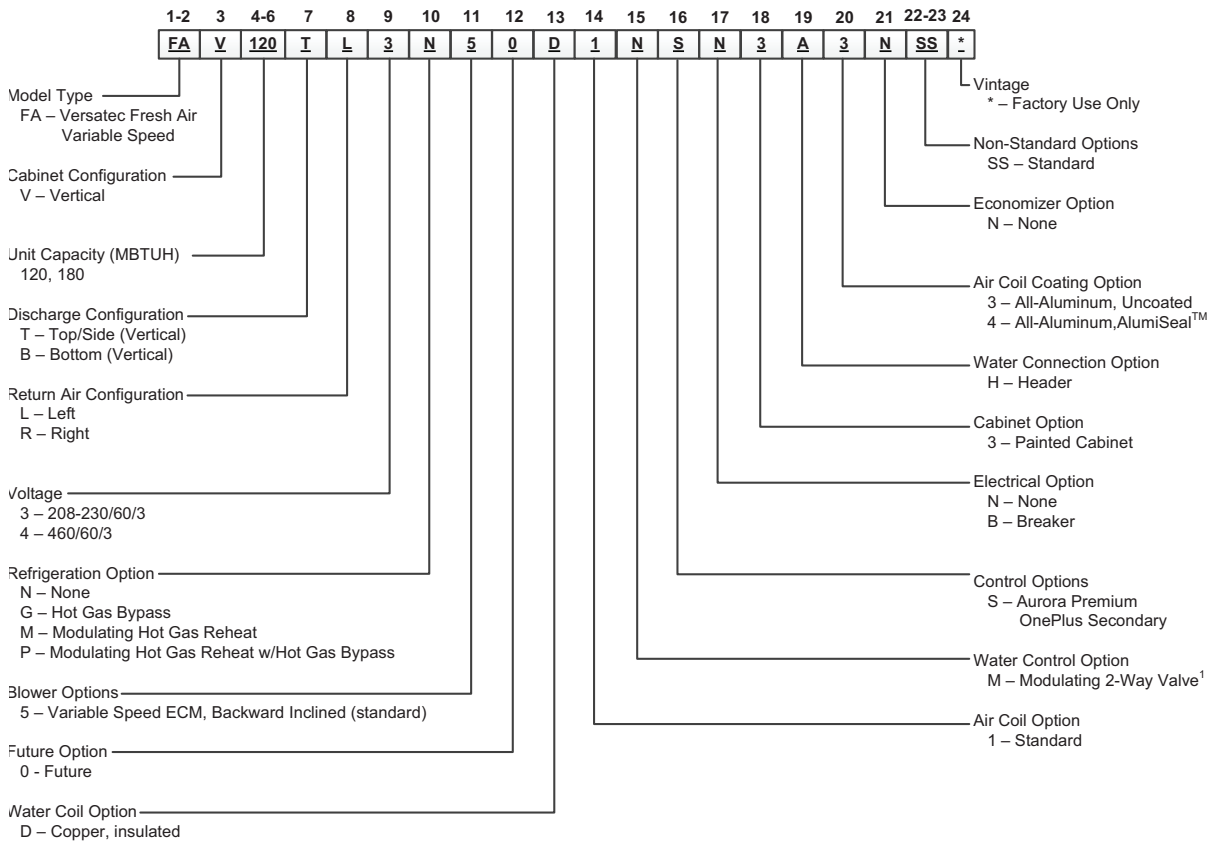
- 2,000-8,000 CFM
- On-board CFM control and measurement built-in
 - CFM setpoint control over the BAS
 - No field installed air measuring station required
- Maximum dehumidification per ft²
- Communicating controls platform for simple over the network diagnostics
 - BACnet MS/TP
 - BACnet IP
 - Stand-alone configurations
- Load matching capability with variable speed fans, VS compressor, high efficiency wheel
- Flexible configurations for multi-zone VAV, single-zone VAV, and CAV applications
 - Supply air reset
 - Stand-alone or BAS operation
 - Modulating hot gas reheat with head pressure control
 - Demand controlled ventilation
- Exhaust fan control
 - Building pressure relief
 - CFM setpoint control
- Spring assist backdraft dampers prevent airflow back pressure when system is operating in reduce compressor load matching
- AHRI 1060 certified Energy Recovery wheel in double wall rigid polyurethane foam injected cabinet
 - Segmented transfer media for easy removal and cleaning with minimal downtime
 - Channel matrix wheels for maximum performance and optimal efficiency
 - Patented polymer energy transfer media will never corrode
 - Rigid wheel assembly slides out for easy access



Model	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
DAS120S1	in.	109.6	59.6	77.7
	cm.	2783	1513	1973
DAS180S1	in.	109.6	59.6	77.7
	cm.	2783	1513	1973
DAS240L2	in.	109.6	92.6	77.7
	cm.	2783	2352	1973
DAS360L2	in.	109.6	92.6	77.7
	cm.	2783	2352	1973

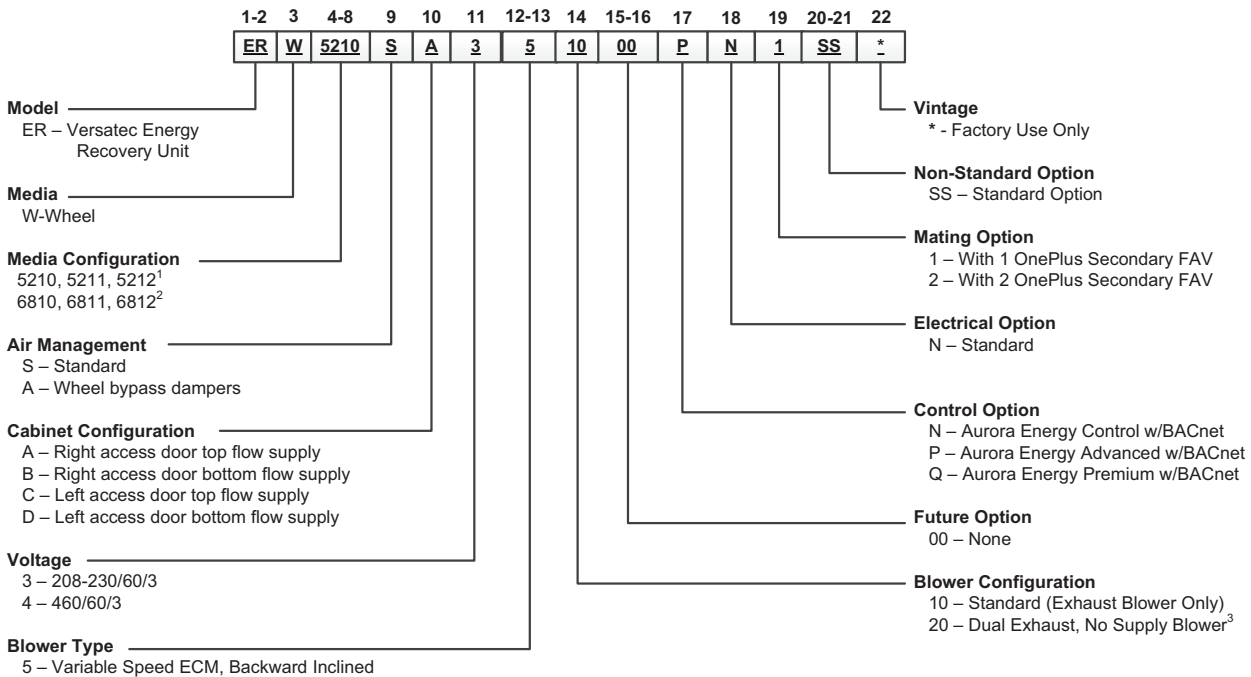


The Versatec 700 Indoor DOAS WSHP is a modular system that provides maximum flexibility for your ventilation needs while keeping a focus on reducing installation and start up costs.



Rev.: 1 April 2021

Note:
1 – Head pressure control sequence is enabled when modulating hot gas reheat is ordered.



Rev.: 1 April 2021

Notes:
1 – Only mates with 1 OnePlus Secondary FAV
2 – Only mates with 2 OnePlus Secondary FAV
3 – Only available with 6810, 6811, 6812 media configuration



The ERW cabinet is listed under UL 1812 thru UL.

TRUCLIMATE 100 WATER-TO-WATER HEAT PUMP

- NSW - 1.5-6 TON

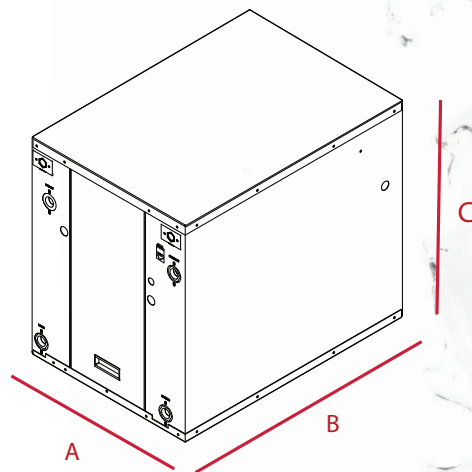
Water-to-Water Heat Pump

Standard Features:

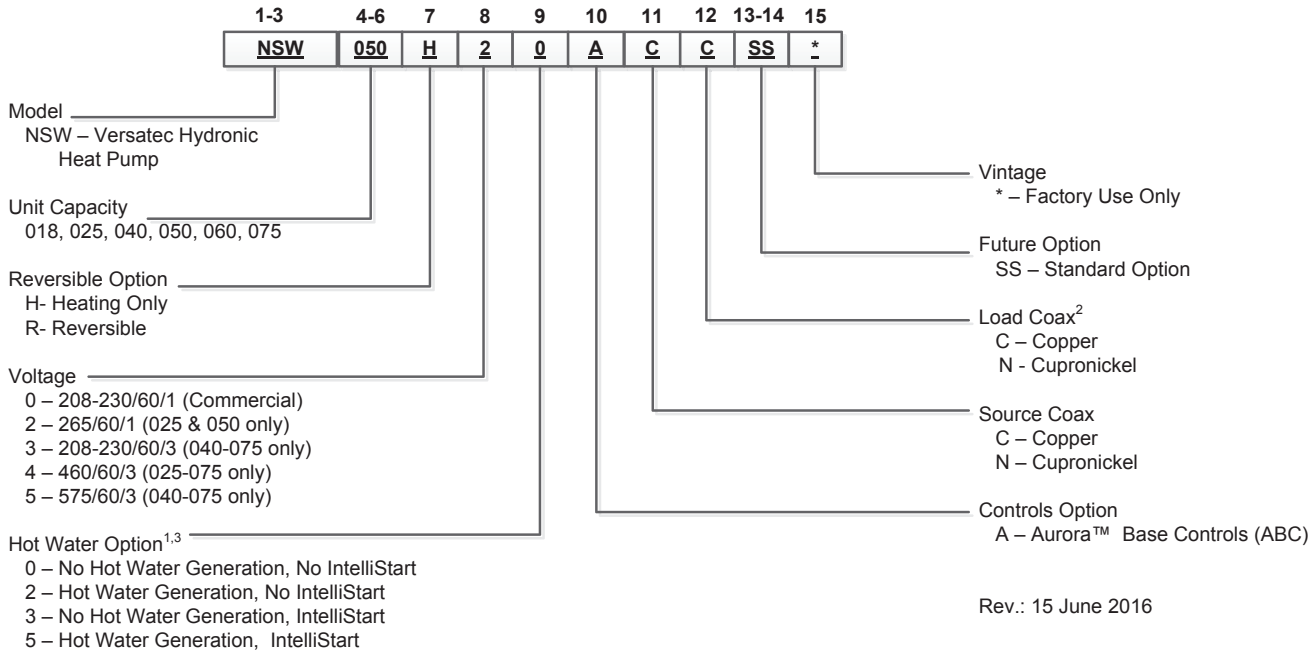
- High efficiency copper coaxial heat exchanger (vented double walled available only on 018 and 025 "heating only" models)
- Optional IntelliStart reduces starting current by 60-70%
- Field switchable control box (end to end) for application flexibility
- Insulated and corrosion resistant cabinet to reduce noise
- Aurora Base Controls
- Dual isolation compressor mounts to reduce noise and vibration
- Captive FPT water connections eliminate 'egg-shaping' backup wrench
- Discharge Muffler Helps quiet compressor gas pulsations
- Zero ODP and GWP R-410A refrigerant
- Optional Hot Water Generator available on 040-075
- High efficiency copper or cupronickel coaxial heat exchangers
- Full refrigerant suction tube, heat exchanger, and waterline insulation to prevent condensation at low loop temperatures
- High efficiency scroll compressors for improved reliability
- Compressor sound blankets for reduced noise
- Standard waterlines out the front (field switchable to back via control box)



Model	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
18	in.	19.5	23.5	26.1
	cm.	49.5	59.7	66.3
25	in.	19.5	23.5	26.1
	cm.	49.5	59.7	66.3
40	in.	22.0	31.0	26.2
	cm.	55.9	78.7	66.5
50	in.	22.0	31.0	26.2
	cm.	55.9	78.7	66.5
60 & 75	in.	22.0	31.0	26.2
	cm.	55.9	78.7	66.5



Large oversized water-to-water refrigerant heat exchangers and scroll compressors provide extremely efficient operation. The Aurora Controls extend this innovation and performance.



NOTES: 1 – Available on 040, 050, 060, and 075 only. Hot water generator requires field installed external pump kit.
 2 – NSW018 and NSW025 heating only models are available only with copper double wall vented load coax for potable water, and are not designed to be converted to dedicated cooling units.
 3 – IntelliStart not available on 265/60/1 and 575/60/3 voltages.

AHRI/ASHRAE/ISO 13256-2 English (IP) Units

Model	Capacity Modulation	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				
				Cooling 86°F Source 53.6°F Load		Heating 68°F Source 104°F Load		Cooling 59°F Source 53.6°F Load		Heating 50°F Source 104°F Load		
		Load Gpm	Source Gpm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Energy Star Compliant
018	Single	5	5	16,400	14.0	22,200	4.5	18,800	22.9	18,500	3.7	Yes
025	Single	7	7	23,700	13.6	32,800	4.6	26,700	21.2	27,100	3.8	Yes
040	Single	10	10	35,900	15.5	47,900	4.8	40,900	23.4	39,100	3.9	Yes
050	Single	15	15	49,800	13.9	65,000	4.4	55,600	21.6	54,200	3.7	Yes
060	Single	18	18	55,400	13.6	78,000	4.7	62,500	20.6	63,200	3.8	Yes
075	Single	19	19	66,000	12.3	93,100	4.2	74,100	18.0	77,100	3.5	No

Model	Capacity Modulation	Flow Rate		Ground Loop Heat Pump				
				Cooling 77°F Source 53.6°F Load		Heating 32°F Source 104°F Load		
		Load Gpm	Source Gpm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Energy Star Compliant
018	Single	5	5	17,300	16.6	14,700	3.1	Yes
025	Single	7	7	24,700	16.1	22,000	3.1	Yes
040	Single	10	10	37,700	17.5	30,500	3.1	Yes
050	Single	15	15	51,500	16.4	44,200	3.1	Yes
060	Single	18	18	58,000	16.1	50,100	3.1	Yes
075	Single	19	19	68,400	14.0	61,500	2.9	No



All NSW series product is safety listed under UL1995 thru ETL and performance listed with AHRI in accordance with standard 13256-1. The TruClimate 100 is also ENERGY STAR® rated.

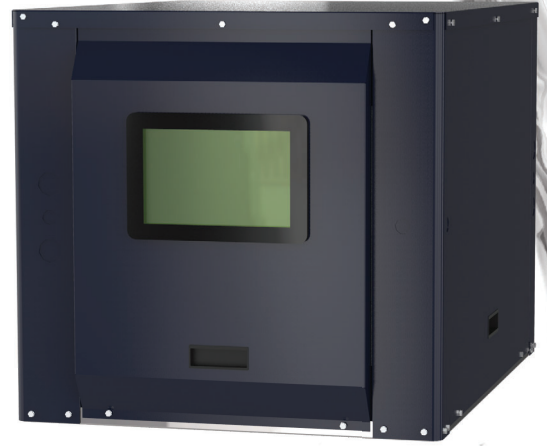
TRUCLIMATE 100 WATER-TO-WATER HEAT PUMP

- NDW - 8-15 TON

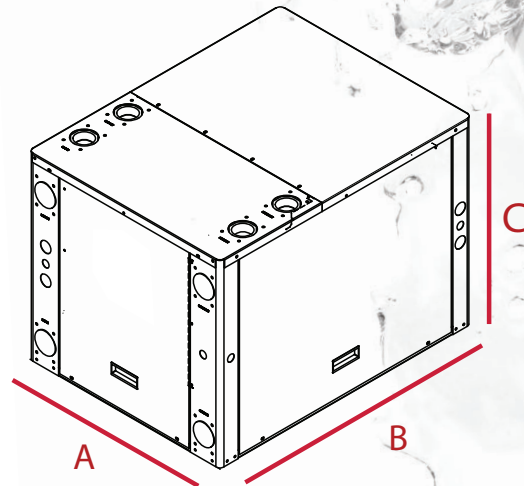
Water-to-Water Heat Pump

Standard Features

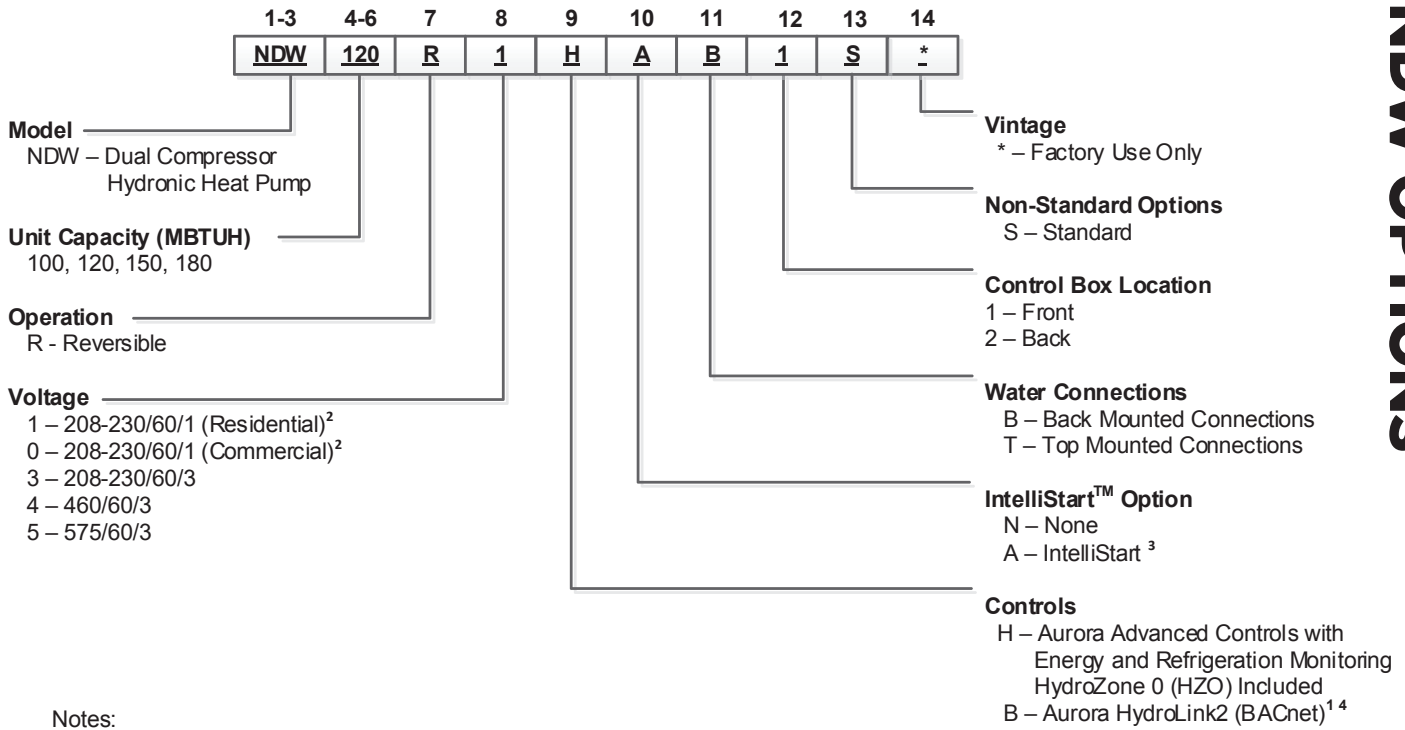
- Single phase is up to 15 tons.
- Heavy gauge cabinet
- Quiet scroll compressors in all models
- Two-dimension refrigerant piping vibration loops to isolate the compressor.
- All interior cabinet surfaces are insulated with 1/2 in. [12.7 mm] thick 1-1/2 lb [681 g] density, surface coated, acoustic type glass fiber insulation.
- Optional IntelliStart to reduce starting current
- Field switchable control box
- Aurora HydroLink Controls
- Ultra-compact cabinet
- Optional top or back mounted water lines
- Multi-density laminate lined compressor blanket designed to suppress low frequency noise.
- Removable compressor access panels.
- Quick attach wiring harnesses are used throughout for fast servicing.
- High and low pressure refrigerant service ports.
- 10" industrial touch screen HMI for easy diagnostics and commissioning
- All refrigerant brazing is performed in a nitrogen purge environment.
- Computer controlled deep vacuum and refrigerant charging system.
- All joints are leak detected for maximum leak rate of less than 1/4 oz. per year.
- Computer bar code equipped assembly line insures all components are correct.
- All units are computer run-tested with water to verify both function and performance.



Model	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
100-180	in.	25.58	33.6	24.01
	cm.	64.97	85.3	60.99



The TruClimate 100 is designed to meet the high-volume water demands of today's commercial buildings. TruClimate 100 units provide high capacity heating and cooling performance, but still deliver the features building owners have come to expect from our TruClimate line.



- Notes:
- 1 – Aurora HydroLink2 controls available for commercial units only.
 - 2 – Dual power feed required.
 - 3 – IntelliStart Option available for single phase voltage options only.
 - 4 – HydroLink2 control option available to Commercial Reps only.

Rev.: 10 Oct 2020B

AHRI/ASHRAE/ISO 13256-2 English (IP) Units

		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump					
Model	Capacity Modulation	Flow Rate		Cooling EST 86°F ELT 53.6°F		Heating EST 68°F ELT 104°F		Cooling EST 59°F ELT 53.6°F		Heating EST 50°F ELT 104°F		Cooling Full EST 77°F Part EST 68°F ELT 53.6°F		Heating Full EST 32°F Part ELT 41°F ELT 104°F	
		gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
100	Full	23	23	93,000	14.6	125,000	4.0	105,000	22.0	103,000	3.3	100,000	16.8	82,000	3.0
	Part	23	23	50,000	15.8	65,000	4.6	56,000	24.5	53,000	3.7	54,000	22.0	47,000	3.4
120	Full	28	28	103,000	14.0	142,000	4.0	123,000	21.6	118,000	3.3	114,000	16.2	93,000	3.0
	Part	28	28	58,000	15.5	76,000	4.4	65,000	22.4	62,500	3.7	63,000	21.1	55,000	3.4
150	Full	32	32	129,000	13.5	199,000	4.0	153,000	21.1	148,000	3.2	147,000	16.0	123,000	2.8
	Part	32	32	72,000	15.3	101,000	4.3	75,000	22.0	73,000	3.7	78,000	20.7	70,000	3.3
180	Full	36	36	150,000	13.3	221,000	3.9	175,000	19.8	173,000	3.1	165,000	15.8	139,000	2.7
	Part	36	36	78,000	15.0	113,000	4.2	89,000	20.9	87,000	3.7	86,000	18.4	82,000	3.5

All ratings based upon 208V operation.



All NDW Series product is safety listed under UL1995 thru ETL and performance listed with AHRI in accordance with standard 13256-2. The NDW Series is also Energy Star rated.

TRUCLIMATE 100 WATER-TO-WATER HEAT PUMP - NXW - 10-50 TON

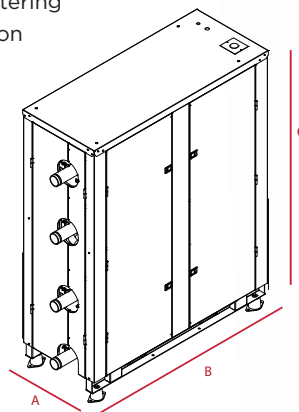
Water-to-Water Heat Pump

Standard Features

- Capacities ranging from 120-600 MBtu/hr output
- Complete commercial voltage selection of 208-230V/60Hz/3ph, 460/60/3, 575/60/3
- Oversized brazed plate heat exchangers offer high efficiency with industry low waterside pressure drop
- True-dual brazed plate heat exchangers provide better part load efficiencies compared to two single-circuit evaporators
- Compressor suction/discharge tubes come with braided stainless steel vibration absorbers to dampen compressor vibration on system piping
- Fork pockets and lifting points in the frame enable maneuverability for installation and shipment
- Factory installed pressure/temperature port externally accessible for improved serviceability
- Finger-touch safe power fuses provide circuit protection
- Rugged plug assembly wiring harness provides a solid yet serviceable connection for control wiring to the control panel.
- Factory installed high accuracy sensors measure system pressures and temperatures
- Superheat/subcooling, compressor run time, and entering/leaving water temperatures are displayed through the 3D high definition images of the color touch HMI.
- Set point control via factory installed leaving/entering water temperatures or remote temperature option
- Phase guard monitor provides phase reversal, phase imbalance, and loss of phase protection

Wide array of standard factory installed options including:

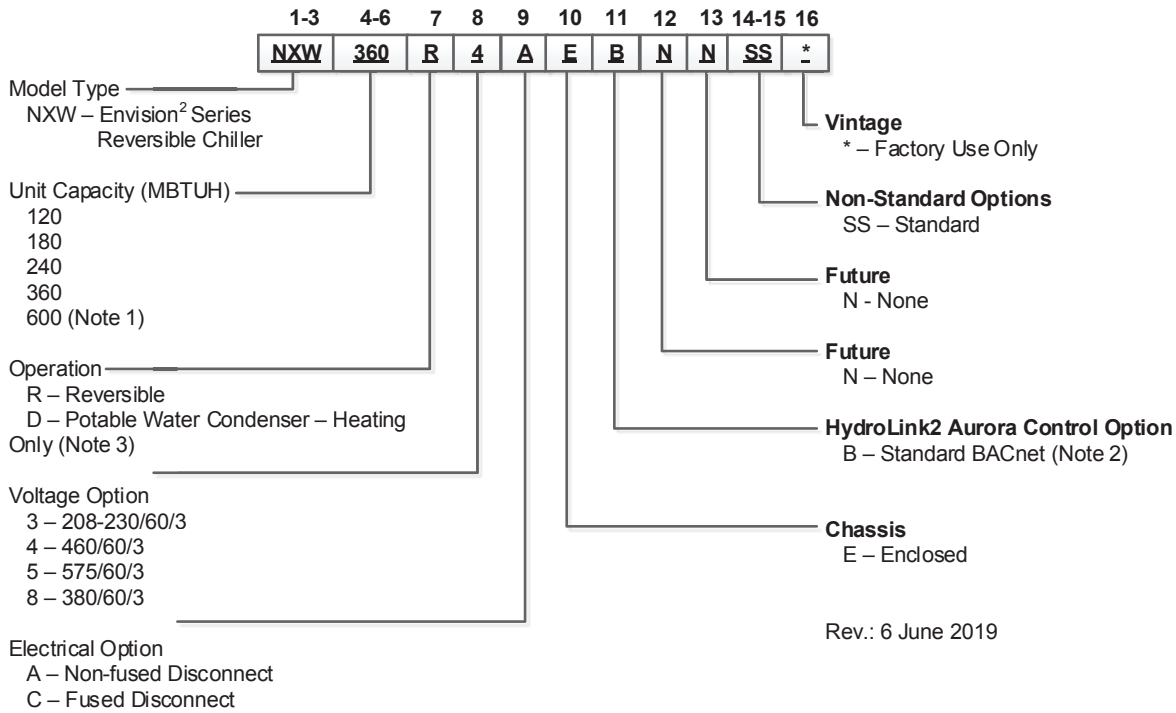
- Factory mounted, internally wired, rotary-style, non-fused disconnect
- HydroLink Aurora controls with BACnet, or non-communicating options.
- **Domestic Hot Water (10-30 ton)**
- HydroLink Supervisory Controller



Vertical Cabinets	Overall Cabinet Dimensions			
		A (WIDTH)	B (DEPTH)	C (HEIGHT)
120-180	in.	24.1	42.5	57.3
	cm.	61.2	108.0	145.6
240-360	in.	24.1	50.5	64.2
	cm.	61.2	128.3	163.1
600	in.	24.1	58.5	71.1
	cm.	61.2	148.6	180.6



The TruClimate 100 Water-to-Water Heat Pump with premium efficiency is now available with HydroLink Aurora controls platform which provides numerous factory installed options to provide better service, diagnostic, and monitoring ability.



Notes:

1. NXW600 not available in 208-230/60/3 option.
2. Standard controls option includes BACnet and standalone control.
3. Potable Water units only available with unit capacity of 120, 180, 240 and 360 MBTUH.

AHRI/ASHRAE/ISO 13256-2 English (IP) Units

Model	Capacity Modulation	Flow Rate		Water Loop Heat Pump				Ground Water Heat Pump				Ground Loop Heat Pump			
				Cooling EWT 86°F		Heating EWT 68°F		Cooling EWT 59°F		Heating EWT 50°F		Cooling EWT 77°F		Heating EWT 32°F	
		gpm	cfm	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP	Capacity Btuh	EER Btuh/W	Capacity Btuh	COP
120	Full	40	40	145,400	16.0	189,000	4.5	161,400	22.5	157,200	3.8	147,700	17.3	118,800	3.0
	Part	40	40	79,300	17.4	101,500	5.1	84,400	24.1	84,600	4.4	82,900	22.2	69,800	3.3
180	Full	60	60	201,300	15.9	263,700	4.6	225,100	21.5	217,000	3.9	208,300	17.2	173,400	3.2
	Part	60	60	105,500	17.0	138,700	5.0	177,700	23.0	112,600	4.2	115,400	20.5	100,900	3.5
240	Full	80	80	265,700	16.0	347,500	4.7	306,900	23.4	280,600	3.9	275,300	17.9	219,400	3.3
	Part	80	80	140,100	16.7	182,100	5.0	163,600	24.6	141,400	4.2	150,000	21.6	115,800	3.5
360	Full	120	120	394,700	16.0	487,600	4.3	452,300	22.1	420,300	4.0	410,200	17.5	339,300	3.3
	Part	120	120	206,000	16.9	256,000	4.6	241,100	23.2	214,400	4.3	223,200	21.2	183,500	3.7
600	Full	200	200	602,000	15.2	798,000	4.3	756,000	19.9	622,000	4.0	633,000	16.5	533,100	3.4
	Part	200	200	313,300	16.1	419,000	4.6	407,000	20.9	318,000	4.3	376,000	19.6	303,900	3.7



All NXW Series product is Safety listed under UL1995 thru ETL and performance tested in accordance with standard AHRI/ISO 13256-2.

TRUCLIMATE 300 WATER-COOLED CHILLER WITH HYBREX TECHNOLOGY WCXD/WCXV - 30-50 TON WATER-COOLED CHILLER

Standard Features

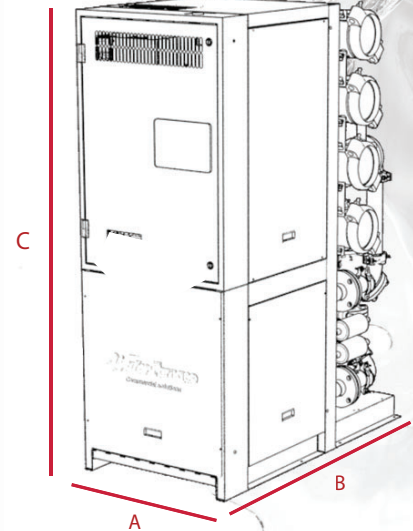
- Capacities - 30-50Ton cooling output
- Voltages: 208-230V/60Hz/3ph and 460/60/3
- Robust coaxial heat exchanger on the condenser side reduces fouling and clogging.
- True dual/independent circuit configuration
- Standard Aurora HydroLink 2 microprocessor controls (robust compressor envelop protection control, head pressure control, max evaporator pressure control, "Delta-T" control, advanced refrigeration monitoring)
- Color touch-screen interface on lead primary unit with advanced trending and diagnostics, and standard provisions for remote access.
- Multiple units can be staged together using the HybrEx Supervisory controller located in the primary unit with a complete plug and play solution for ease of installation and single point of communication to the BAS.
- Variable Speed Lead Compressor or optional Dual Variable speed compressor solutions for increase in load tracking capabilities and part load efficiencies.

Factory Installed Options

- Factory tuned electronic expansion valve.
- Single point disconnect breaker panel with included cut-to-length wire runs for powering each unit.
- Optional high accuracy flow meter on each loop providing the ability to monitor flow and adding additional freeze detection level.



No Header Rack	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
030	in.	28.0	54.62	72.0
	cm.	71.12	138.73	182.88
050	in.	33.0	64.0	72.07
	cm.	83.82	162.56	183.05

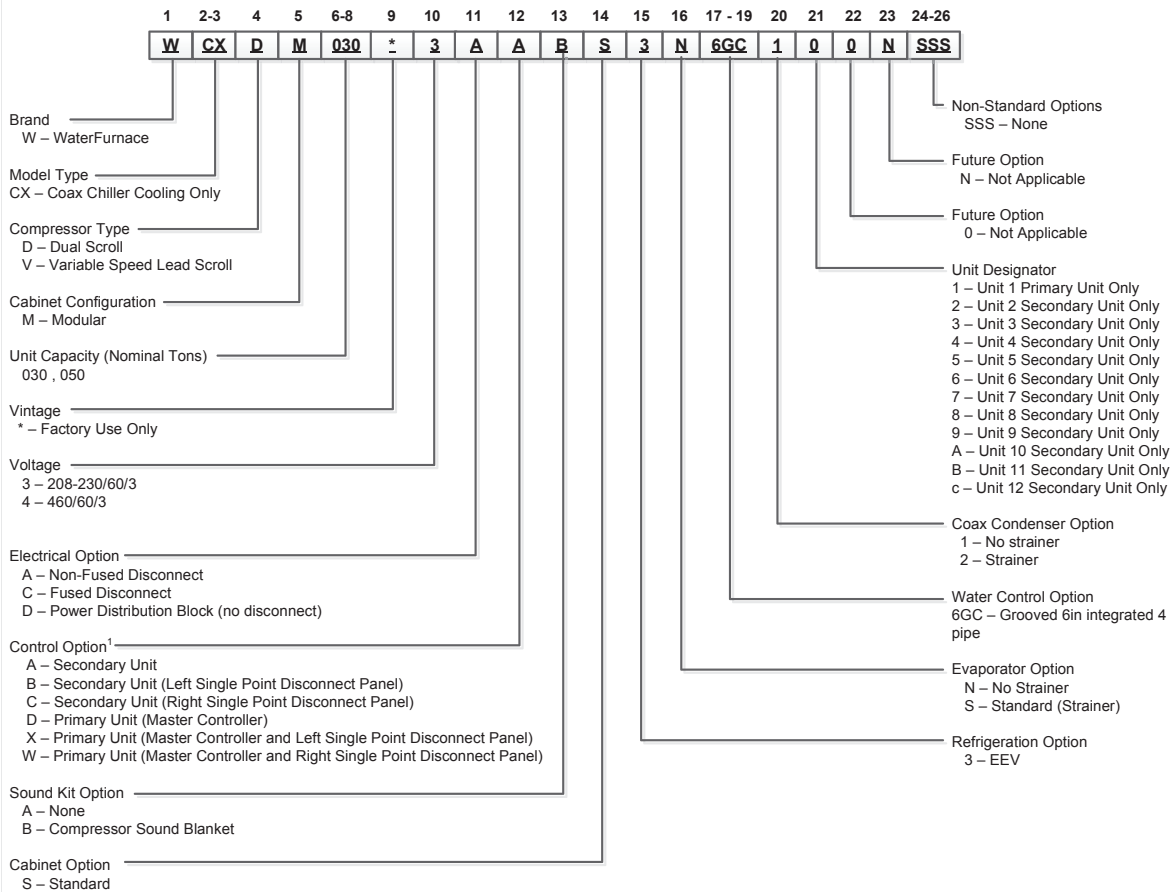


WaterFurnace's TruClimate WCX products are certified by AHRI to AHRI Standard 550/590.

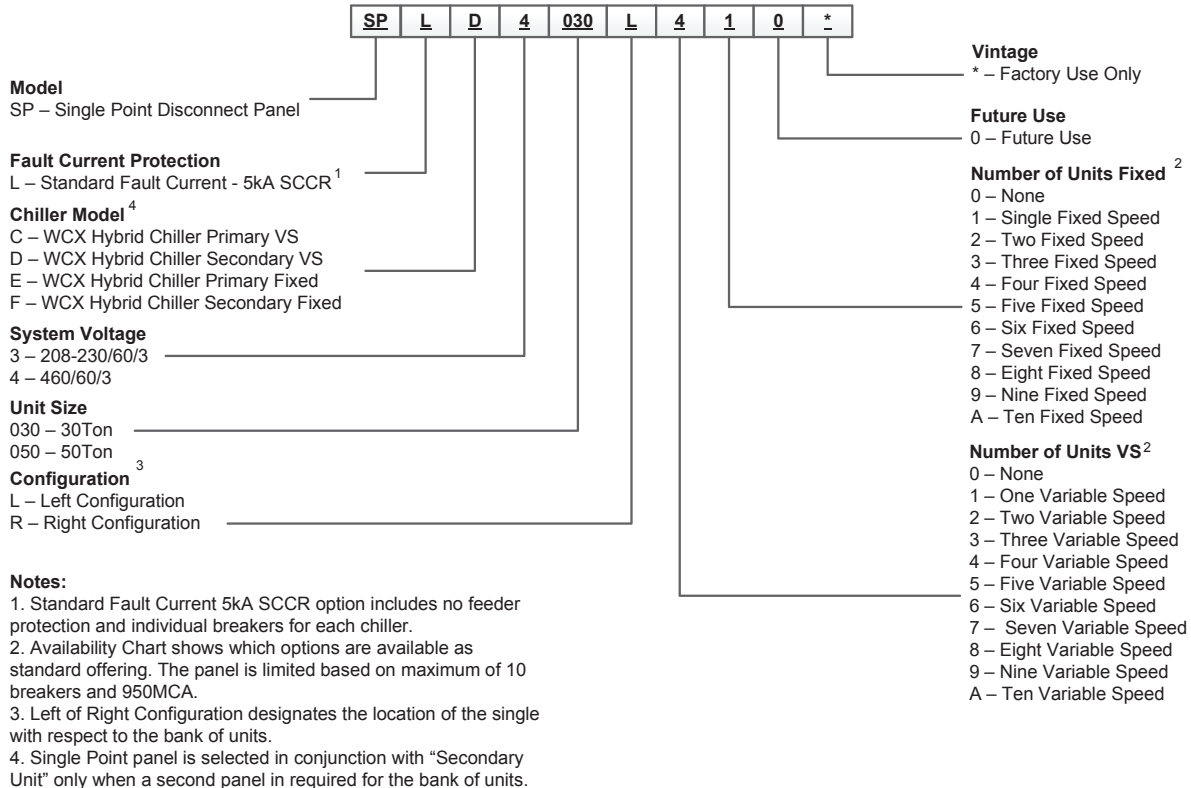


This product features the ultimate in serviceability with its highly compact and service driven design. The design allows up to 12 modular units to be installed together using the integrated 4 pipe header rack, "plug and play" controls for easy installation and ultimate troubleshooting and safety capabilities.

WCXDM030A3AABS3S6GC100NSSS



SPLD4030L410*

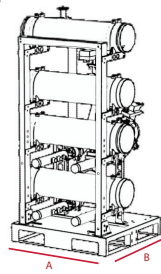
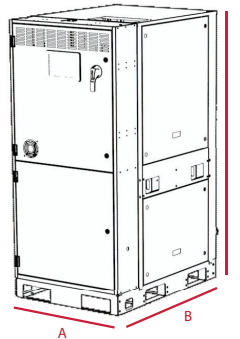


TRUCLIMATE 500/700 WATER-COOLED CHILLER

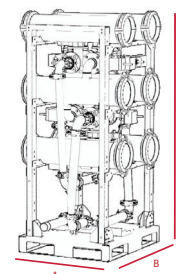
WCH/CR - 20-80 TON WATER-COOLED CHILLER

Standard Features for the TruClimate 500 Chiller

- Capacities ranging from 20-80 ton output
- Complete commercial voltage selection of 208-230V/60Hz/3ph, 460/60/3, 575/60/3
- Oversized brazed plate heat exchangers offer high efficiency with industry low waterside pressure drop
- True-dual circuit brazed plate heat exchangers provide better part load efficiencies compared to two single circuit evaporators
- Heavy gauge, galvanized steel enclosure with quick-turn latched access panels that can easily be removed for ease of service
- Fork pockets and lifting points in the frame enable maneuverability for installation and shipment
- Circuit breakers provide circuit protection and minimal downtime.
- Removable 4 pipe rack in a wide variety of configurations to suit any building's needs
- Standard Aurora Hydrolink microprocessor controls include set-point control, advanced refrigeration monitoring, a standard color touch-screen interface, advanced trending and diagnostics, and standard provisions for remote access using BACnet, LonWorks or standalone options.
- Multiple units can be staged together using the Remote HydroLink Supervisory Controller for automatic and optimal staging of all units in a system. Supervisory controller can also accommodate additional controls including flow meters, pump control, power analyzers, and additional sensors.
- Refrigeration modules & header rack can ship separately, eliminating downtime & lowering first installed cost.



TruClimate 500



TruClimate 700

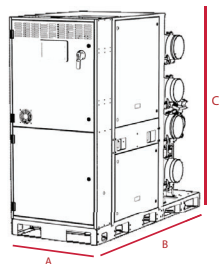


No Header Rack	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
020-080	in.	33.5	46.3	73.5
	cm.	85.09	117.60	186.69

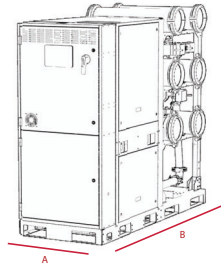
Header Rack	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
020-080	in.	34.0	38.0	73.29
	cm.	86.36	96.52	186.15

Additionally, the TruClimate 700 Chiller includes:

- Patented 6-pipe header rack design for simultaneous heating and cooling operation with a single unit.



TruClimate 500



TruClimate 700

With Header Rack	Overall Cabinet Dimensions			
	A (WIDTH)	B (DEPTH)	C (HEIGHT)	
020-080	in.	34.0	74.11	73.29
	cm.	86.36	188.23	186.15

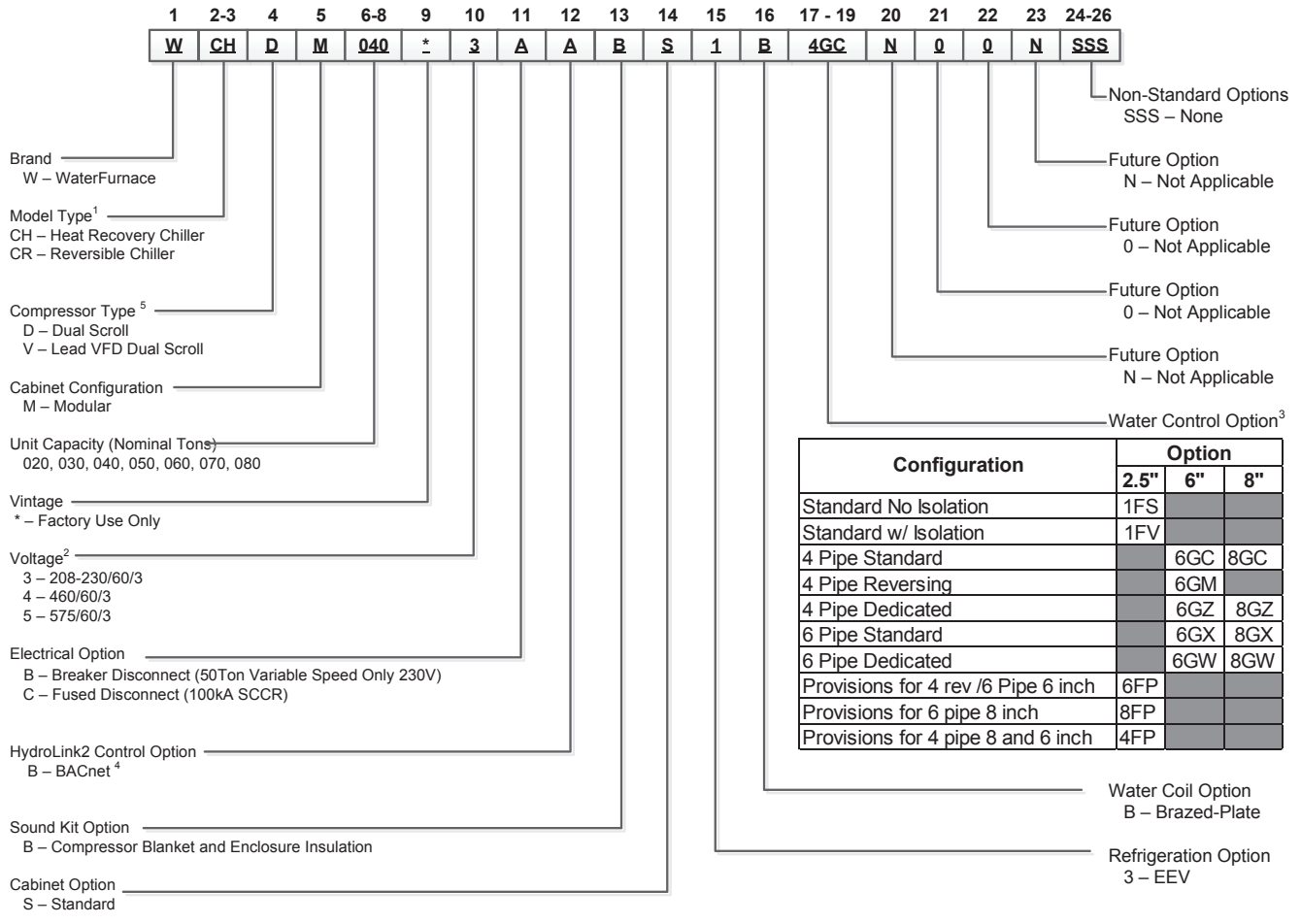


WaterFurnace's TruClimate WCH/WCX products are certified by AHRI to AHRI Standard 550/590.



The modular design of this product allows units to be installed on an as-needed basis, and the detachable pipe rack allows for service on each module without compromising the rest of the system.

WCHDM040B3AABS1B4GCN00NSSS



- Notes:**
- 1 – "CH" and "CR" models available from 20-80 ton.
 - 2 – See electrical availability table for detailed offering by voltage.
 - 3 – Standard no isolation and standard w/ isolation supplied with 2-1/2" flange connection.
All 4 pipe and 6 pipe options with grooved connection standard, flange conversion available.
 - All "Provisions" water control options allow the module to be field connected to the specific header rack and with this option the header rack must be purchased separately from the unit. See standalone header rack nomenclature.
 - "4 Pipe Dedicated" can only be used in conjunction with "6 Pipe Dedicated".
 4. Standard control option includes BACnet and standalone control.
 5. Lead VFD Option available only in 30Ton and 50Ton Heat Recovery Option and in 30Ton reversible option.



Aurora Controls Network

Aurora Control Network (ACN)

The Aurora Control Network (ACN) is a sophisticated, communicating control platform designed with a modular approach to deliver powerful features that are fit for use on a wide range of applications such as standard fixed-speed, water-source heat pumps, variable speed compressor technology up to dedicated outdoor air system (DOAS) units with exhaust air energy recovery. What makes ACN so powerful is modularity, ability to communicate, and firmware that is developed for each application. ACN is a complete commercial comfort control system that brings all aspects of the HVAC system into one cohesive module network. Each Aurora module will contain logic to control all features connected to it.

The Aurora Control functions on 4-wire communication done through the ModBus protocol that is an open source protocol that has become more popular with equipment manufacturers for use in HVAC equipment. The Aurora has one slave 'bus' for the microprocessor boards and accessory devices on which it communicates.

Here are the main devices of that make up the Aurora Control Network:



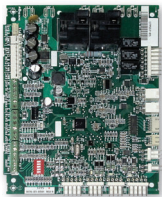
Aurora Base Control (ABC)

Aurora Base Control (ABC) is the main board that controls the basic functions of compressor, fan motor, RV, thermostat and other basic component control.



Aurora Interface Diagnostic (AID) Tool

Aurora Interface Diagnostic (AID) Tool is a hand held device that can be plugged into any ABC board for quick setup, configuration, diagnostic and troubleshooting capability.



Aurora Expansion Board (AXB)

Aurora Expansion Board (AXB) is added to an ABC to include features like compressor current monitoring, loop pump slaving, intelligent hot water assist control, VS pump control, and also allows optional energy, refrigeration and performance monitoring add-on sensor kits.



Aurora WebLink (AWL)

Aurora Web Link (AWL) is a device that can be added on for 'black box capability to record all sensor and control events for forensic diagnosis onto an SD memory card and for wireless connection to the internet. Note: This is not available on all units or units with building automation connection.



Universal Protocol Converter (UPC)

Universal Protocol Converter (UPC) is designed to be added-on to an Aurora Control system so it can be integrated into the Building Automation System (BAS) with ease. The UPC converts Modbus communication from the Aurora Control System to BACnet, LON, or Open N2 to a building automation system.



Aurora Touch UPC (ATU)

Aurora Touch UPC (ATU) is diagnostic device much like the AID Tool only that it is specifically designed to work with UPC add-on. With the ATU, there is now diagnostic capability to directly plug into a compatible thermostat or UPC to troubleshoot the heat pump.



Thermostats

Communicating thermostat models are available for connection to the Aurora System with varying features such as faults in plain English, color touch screen option, USB photo capability, etc.



IntelliZone2 (IZ2)

IntelliZone2 (IZ2) is added to the system but requires the AXB for a dedicated communication port specifically designed for the IZ2. IZ2 allows for up to 6 zones with variable speed compressors. This option cannot be used when the unit is equipped with UPC option.



IntelliZone2 BACnet

IntelliZone2 (IZ2) BACnet provides the same features and benefits of the IZ2 but adds the ability to communicate over BACnet to the building automation system. IZ2 BACnet requires the heat pump to be built with the UPC option.

Other Communicating Components:

- Variable speed compressor drive (VS Drive) drive communicates with the ABC for commands and returns status, sensor values, and faults.
- Electronic Expansion Valve (EEV) board is a small board connected to the AXB which controls the EEV via pressure and temperature sensors and a stepper motor. This board is only used on larger tonnage equipment. Smaller tonnage EEVs are controlled directly by the AXB.
- Expansion for other communicating components such as ECM Fan Motor and other devices for fit for use application.
- UPC sensors communicate on the RNet to the UPC which offers the advantage of troubleshooting for any UPC thermostat or sensor. For more information see the literature guide table for additional documentation

Optional Accessories - Thermostats

A wide array of thermostats are available for the standalone operation of the system. These include both 24VAC traditional thermostats as well as 4 wire communicating versions.

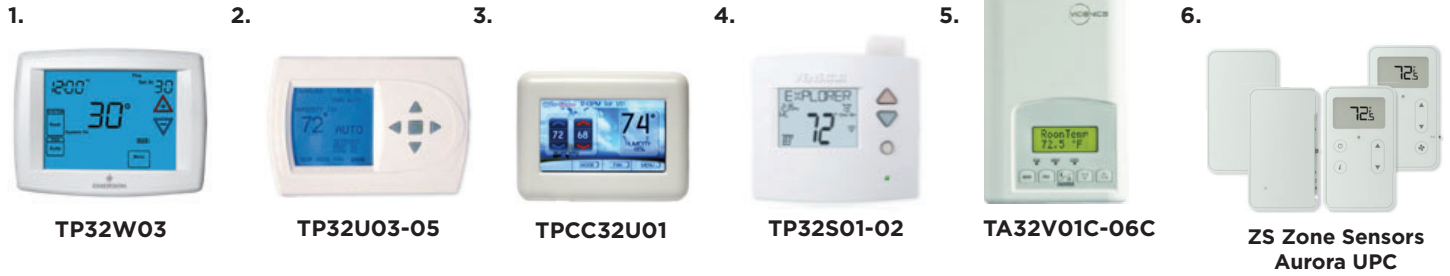


	Illustration	Heat/Cool Stages	Color/BW	Programmable	Touch-screen	Text Based	Fault Flash	ComfortTalk	Dual Fuel	Humidity	4 Wire	Ext Sensor	Communicating	BACnet	LonWorks
TP32W03	1	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
TP32U03	2	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
TP32U04	2	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
TP32U05	2	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
TPCC32U01	3	3/2	Color	•	•	•	•	•	•	•	•	•	•	•	•
TPCM32U03A	2	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
TPCM32U04A	2	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
TP32S01	4	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
TP32S02	4	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
TA32V01C	5	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
TA32V02C	5	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
TA32V03C	5	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
TA32V04C	5	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
TA32V05C	5	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
TA32V06C	5	3/2	BW	•	•	•	•	•	•	•	•	•	•	•	•
ZS Sensors	6	3/2	BW	•	•	•	•	•	•	Opt	•	•	•	•	•

NOTE: All thermostats include auto changeover function.

Aurora UPC Zone Sensors

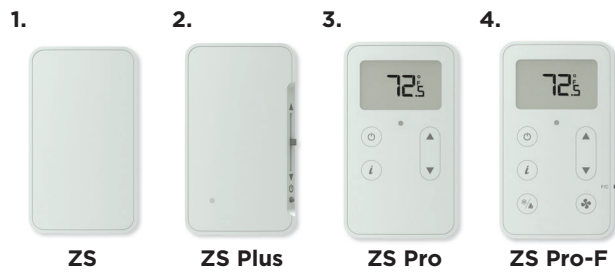


	Illustration	Temp, CO ₂ , humidity/VOC Options	Aurora Touch/Android Tablet Access Port	Occupancy Status LED	Occupancy Override Button	Setpoint Adjust	Large LCD Display	Alarm/Alert Indicator	°F or °C Button
ZS Standard	1	•	•	•	•	•	•	•	•
ZS Plus	2	•	•	•	•	•	•	•	•
ZS Pro	3	•	•	•	•	•	•	•	•
ZS Pro-F	3	•	•	•	•	•	•	•	•

IntelliZone2 Commercial and BACnet Comfort Zoning Systems

Commercial properties come with complex heating and cooling challenges—especially in multi-use buildings with a variety of spaces, purposes, and zones. To maximize a property’s potential, WaterFurnace’s IntelliZone2 Comfort Zoning System makes it easy to control and regulate temperatures in multiple zones.

With the IntelliZone2 system, a single water source heat pump can be used to support up to six zones, which utilizes less equipment for a lower total cost. With fewer units needed, more space is available in the mechanical room and can be used for other purposes.

Additionally, a BACnet version is available for the IntelliZone2 system. It offers seamless integration into building automation systems for multi-zone control in more complex commercial properties.

Best of all, unlike zoning control equipment made by other manufacturers, the IntelliZone2 Comfort Zoning System was engineered and designed by and for WaterFurnace—providing peace of mind and reliable performance with WaterFurnace water source heat pumps.

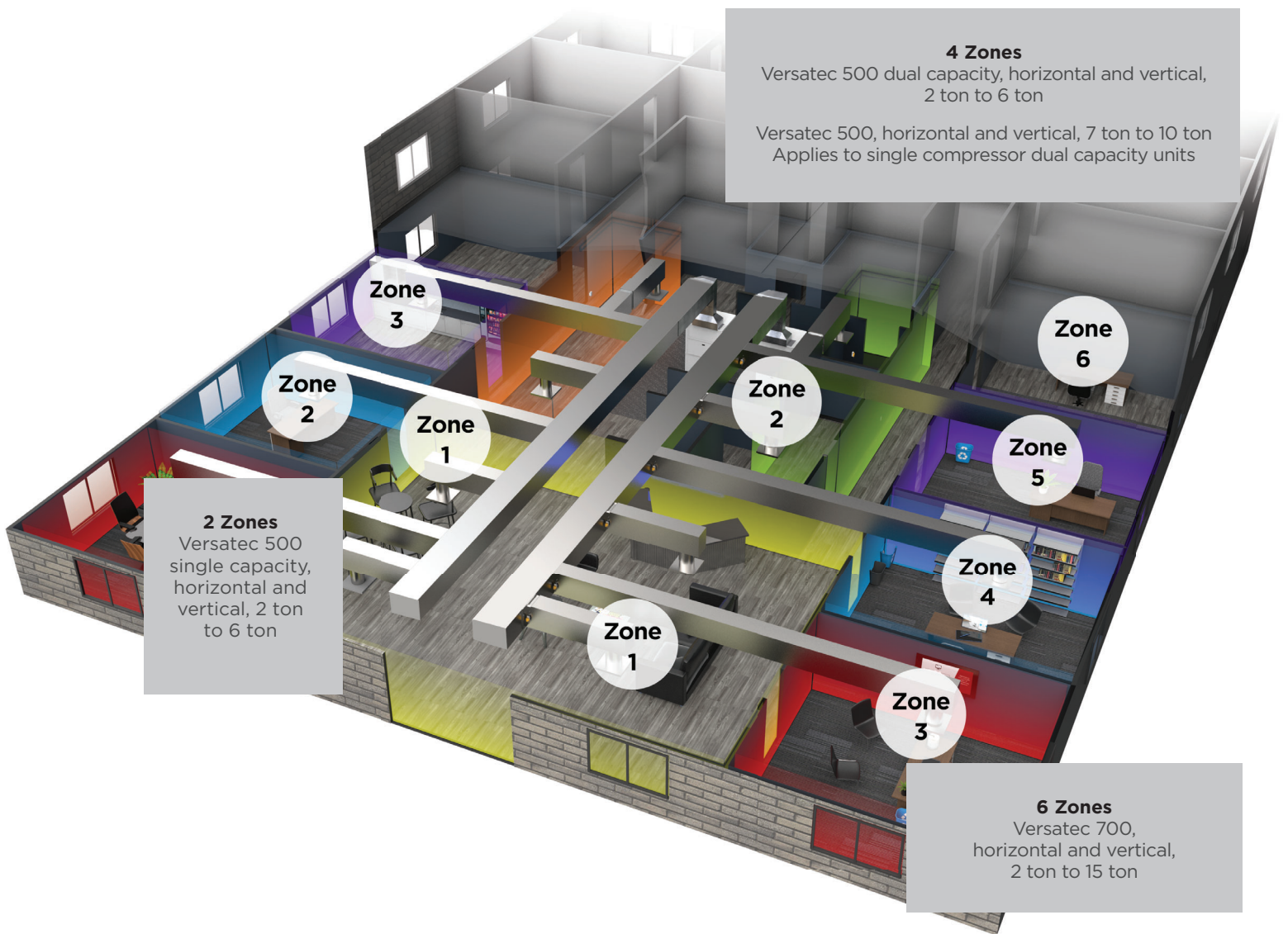
The IntelliZone2 System is compatible with a wide range of water source heat pumps, including:



Versatec 700 2-15 Ton

Versatec 500 7-10 Ton

Versatec 500 2-6 Ton



IntelliZone2 Components



IntelliZone2 Relay Board (Firmware Version 2.01 or Later)

The IntelliZone2 relay board provides basic relay logic for the damper operation and serves as a common connection point for all IntelliZone2 thermostats and the heat pump.



IntelliZone2 MasterStat

The IntelliZone2 MasterStat is the master control for the system and has all of the programming for operation. It is a 4.3 in. communicating color touch screen device that also functions as a zone thermostat for Zone 1. Optional remote sensor capability is also available.



IntelliZone2 ZoneStat (Optional)

The IntelliZone2 ZoneStat is a zone thermostat option for any of Zones 2 through 6. It has full setback capability and communicates to the IntelliZone2 system.



IntelliZone2 SensorStat (Optional)

The IntelliZone2 SensorStat is a zone thermostat option for any of Zones 2 through 6. It has full setback capability (through the MasterStat interface only) and communicates to the IntelliZone2 system.



IntelliZone2 Outdoor Sensor

The IntelliZone2 Outdoor Sensor measures the outdoor temperature and communicates to the IntelliZone2 system. This temperature is displayed on the MasterStat, and also used to balance response as well as auxiliary electric heat use. The Outdoor Sensor is included in every IntelliZone2 kit.



TPCC32U01 (Optional) (Firmware Version 3.01 or Later)

The TPCC32U01 is a 4.3in communicating color touch screen device that can be used as a zone thermostat for zones 2 through 6. It has full set back capability and communicates to the IntelliZone2 System.



SensorStat-Remote-Kit (Optional)

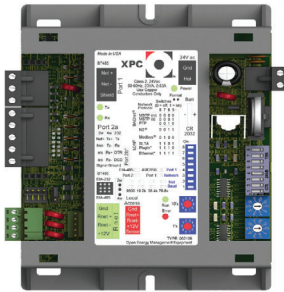
The SensorStat-Remote-Kit is an option for an invisible thermostat installation and communicates with the IntelliZone2 relay panel. The kit will include the SensorStat Remote, TSU03 (mud in sensor) and wire nuts. This kit will monitor the zone temperature in zones 2 through 6. All set point adjustments are made at the MasterStat.

IntelliZone2 BACnet Components



IntelliZone2 BACnet Zoning Board

The IntelliZone2 BACnet zoning board is the master control for the system, has much of the programming for operation, provides basic relay logic for the damper operation and serves as a common connection point for the IntelliZone2 XPC Control and the heat pump.



IntelliZone2 BACnet XPC Control

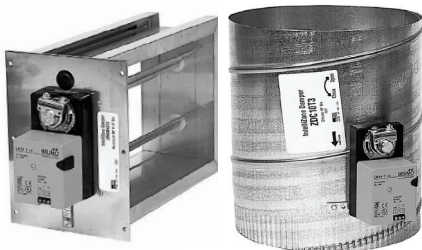
The IntelliZone2 BACnet XPC Control provides the BACnet interface for the system to the BAS. It is a communicating device that connects to all zone sensors.



IntelliZone2 BACnet Zone Sensors

The IntelliZone2 BACnet Zone Sensors are used for all zones. Sensors are available with humidity, CO2 and VOC options as well as with and without temperature display and setpoint adjustment controls.

Note: Only one zone sensor with a CO2 or VOC option may be used per system.



IntelliZone2 Damper System

The IntelliZone2 BACnet Damper Systems come in round or rectangular construction with 2 or 3-wire actuators.



Manufactured by
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Product: **Commercial Products Specification Catalog**



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