VRV® III-S

VRV® III

VRV-W II

SHAPING THE AIR TO YOUR NEED

VRV® air conditioning, pioneered by Daikin Industries in Japan in 1982, was introduced to Europe by Daikin Europe in 1987. Already widely known in Japan for some 5 years, the system nevertheless, revolutionised European air conditioning and rapidly achieved a position of dominance within the industry. Since then, Daikin has developed the VRV®'s operational scope and performance to a point where it is now recognised throughout the industry as **the 'benchmark' in commercial air conditioning.**

The first great leap forward in system development came in 1990 when Daikin incorporated **inverter control** into its heat pump VRV®, the advent of inverter capacity control increasing system flexibility and efficiency 'at a stroke' by enabling compressor output to be modulated to match the cooling or heating demand of the conditioned space.

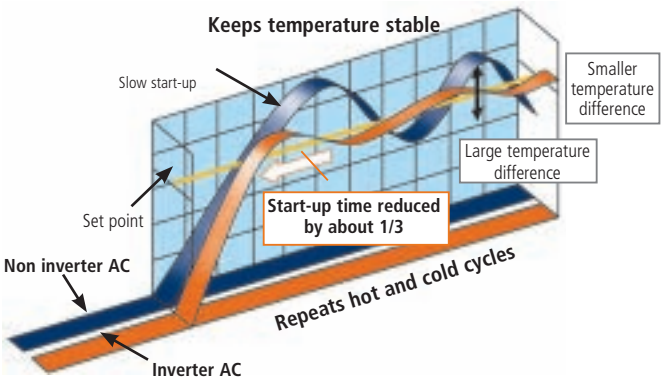
A further development came in 1991 with the introduction of the first heat recovery VRV®, extended the following year by the **Hi-VRV® system**, which also incorporated fresh air supply and computerised system management.

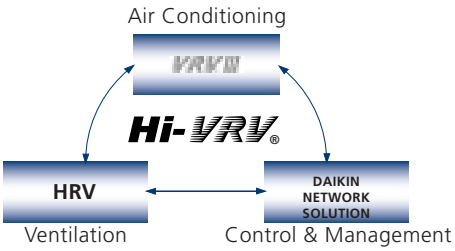
In the late '90s, the need to phase out CFC refrigerant R-22 refrigerant began to concern the market and after considerable research and component redesign, Daikin introduced its fully optimised, **HCFC R-407C** system, a heat recovery model appearing in 2001. Perceived by Daikin solely as an interim solution to the refrigerant problem, the R-407C VRV® nevertheless, represented a valuable medium term step towards an eventual move away from HCFCs.

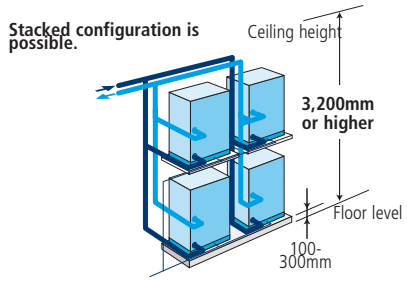
Commercial air conditioning technology advanced yet again in 2003 with the introduction of VRV®II – the world's first **HFC R-410A** operated system of this type. Available in both heat pump and heat recovery formats and loaded with new features, VRV®II represented a considerable advance over earlier systems

VRV® 25years

SHAPING AIR TO YOUR NEED







In 2004, the **mini VRV®III-S** was launched. Operating on single-phase electricity supply, the system quickly became a firm favourite for application to smaller commercial and large residential apartment projects.

Until 2005, all VRV® systems had been air-cooled but the introduction of the **water-cooled VRV®-WII** extended the VRV®'s application potential by leaps and bounds. Designed for use in new and existing high rise commercial buildings or projects lacking roof or external space for outdoor units, the system is also ideal for use where over stringent noise regulations apply.

Even the advent of the water-cooled version however, does not bring the story up to date. At the end of 2006, Daikin introduced the third generation **VRV®III**. Available in heat pump, cooling only and heat recovery variants, the system incorporates all the best features of VRV®II plus a number of innovative design, installation and maintenance refinements.

Further developments in 2007 and 2008 saw the introduction of a special **'high ambient' VRV®** for use in Middle East markets and also a **'cold region' VRV®** designed to suit the colder climates of Northern Europe.

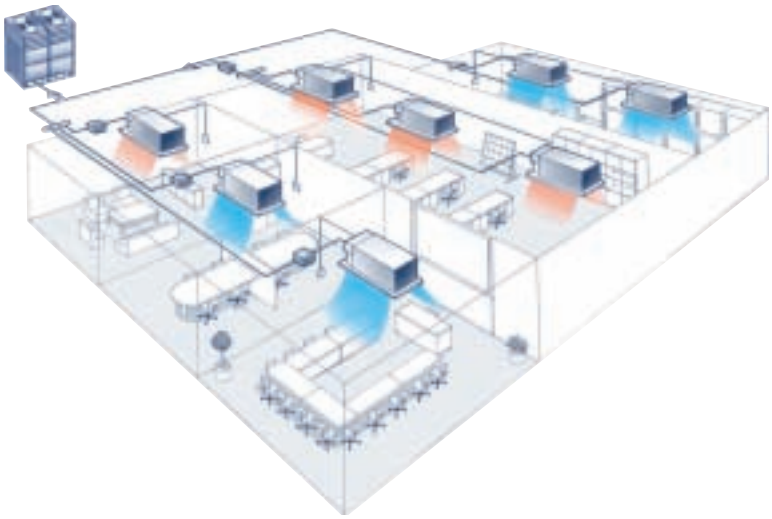
Clearly, the latest advanced VRV® system has come far since its early days and can now rightfully claim to be the most energy efficient, economic to run, user friendly, reliable and flexible air conditioning system of its type on the market today.

REYQ8-48P8Y1B

VRV®III Heat Recovery

- Its operation range for example 8hp to 48hp in 2hp increment steps (21 system combinations), is wider than any of its contemporaries.
- Its ability to run no less than 64 indoor units in heat recovery format cannot at present be matched by other comparable systems.
- Increased EER/COP
- Continuous heating (resulting in a higher integrated heating capacity).
- Easy installation thanks to automatic refrigerant charging operation, automatic test operation
- Increased piping flexibility: maximum piping length: 165m, increased total piping length: 1,000m
- The ability to control each conditioned zone keeps VRV®III system running costs to an absolute minimum.
- Only those areas calling for air conditioning need to be cooled or heated and the system can be shut down completely in unoccupied rooms.
- Quick cool/heat change over.
- Improved refrigerant containment check
- Extra low noise during night time operation (step 1: 50 dBA; step 2: 45 dBA).
- Possibility to extend the operation range in cooling down to -20°C

REYQ46-48P8Y1B



REYQ-P8		8	10	12	14	16	18	20	22	24	26	28
Modules	REYQ8P8	1					Not Applicable					
	REYQ10P8		1									
	REYQ12P8			1								
	REYQ14P8				1							
	REYQ16P8					1						
Modules	REMQ8P8	Not Applicable					1	1				
	REMQ10P8						1		1		1	
	REMQ12P8							1	1	2		1
	REMQ14P8											
	REMQ16P8										1	1
Number of outdoor units		1	1	1	1	1	2	2	2	2	2	2

REYQ-P8		30	32	34	36	38	40	42	44	46	48
Modules	REYQ8P8	Not Applicable									
	REYQ10P8										
	REYQ12P8										
	REYQ14P8										
	REYQ16P8										
Modules	REMQ8P8			1	1						
	REMQ10P8			1		1		1			
	REMQ12P8				1	1	2		1		
	REMQ14P8	1								1	
	REMQ16P8	1	2	1	1	1	1	2	2	2	3
Number of outdoor units		2	2	3	3	3	3	3	3	3	3

REYQ8-48P8Y1B

VRV®III Heat Recovery

HEAT RECOVERY

REYQ-P8			8	10	12	14	16
Capacity range		HP	-				
Capacity	Cooling	kw	22.4	28.0	33.5	40.0	45.0
	Heating	kw	25.0	31.5	37.5	45.0	50.0
Dimensions	(Height x Width x Depth)	mm	1,680x1,300x765				
Weight		kg	331			339	
Refrigerant			R-410A				
Power Supply			3~/380-415V/50Hz				
Max n° of indoor units to be connected			-				
Piping connections	Liquid (OD)/Gas	mm	9.52 / 19.1	9.52 / 22.2	12.7 / 28.6		

HEAT RECOVERY

REYQ-P8			18	20	22	24	26	28	30	32
Capacity range		HP								
Capacity	Cooling	kw	50.4	55.9	61.5	67.0	73.0	78.5	85.0	90.0
	Heating	kw	56.5	62.5	69.0	75.0	81.5	87.5	95.0	100.0
Dimensions	(Height x Width x Depth)	mm	1,680x930 + 930x765				1,680x930 + 1,240x765		1,680x1,240 + 1,240x765	
Weight		kg	204 + 254		254 + 254		254 + 334		334 + 334	
Refrigerant			R-410A							
Power Supply			3~/380-415V/50Hz							
Max n° of indoor units to be connected			-							
Piping connections	Liquid (OD)/Gas	mm	15.9 / 28.6			15.9 / 34.9	19.1 / 34.9			

HEAT RECOVERY

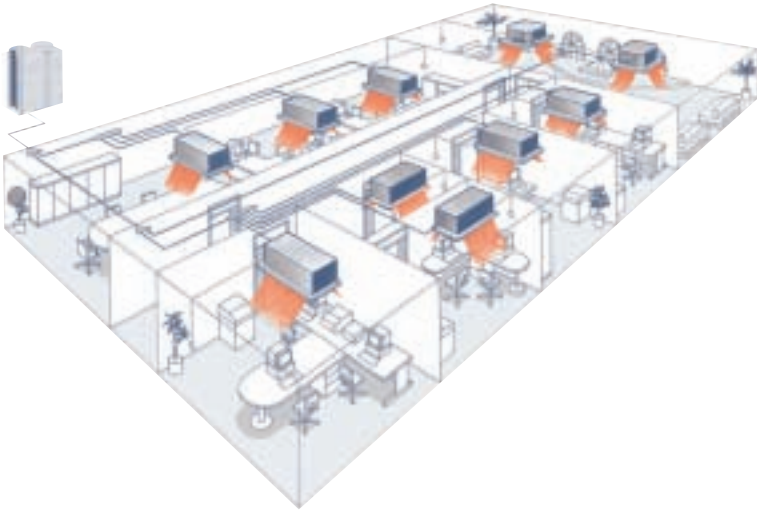
REYQ-P8			34	36	38	40	42	44	46	48
Capacity range		HP								
Capacity	Cooling	kw	95.4	101.0	107.0	112.0	118.0	124.0	130.0	135.0
	Heating	kw	107.0	113.0	119.0	125.0	132.0	138.0	145.0	150.0
Dimensions	(Height x Width x Depth)	mm	1,680x930 + 930 + 1,240x765				1,680x930 + 1,240 + 1,240x765		1,680x1,240 + 1,240 + 1,240x765	
Weight		kg	204 + 254 + 334		254 + 254 + 334		254 + 334 + 334		334 + 334 + 334	
Refrigerant			R-410A							
Power Supply			3~/380-415V/50Hz							
Max n° of indoor units to be connected			-							
Piping connections	Liquid (OD)/Gas	mm	19.1 / 34.9	19.1 / 41.3						

RXYQ5-54P7W1B(A)

VRV®III Inverter Heat Pump
Small Footprint Combination

- Increased outdoor unit capacity up to 54 HP
- Wide range of indoor units: 13 different models in a total of 75 variations
- Flexible combination of outdoor units: small footprint combination, high COP combination or any other combination of your choice
- Compact size of outdoor units
- Increased EER/COP
- Increased external static pressure: up to 78.4Pa
- 2 steps in night quiet mode: eg. 10HP: 58 dBA, 1st step: 54dBA, 2nd step: 45dBA
- In line with RoHS
- Easy combination with HRV
- Connectable to current Daikin control systems: DS-net, Intelligent Touch Controller, Intelligent Manager, BACnet Gateway, DMS-IF
- Easy installation thanks to automatic refrigerant charging operation, automatic test operation
- Quiet operation
- Leak detection function

RXYQ44-46-48P7W1B(A)



RXYQ-P(A)		RXYQ20P7W1B	RXYQ22P7W1B	RXYQ24P7W1B	RXYQ26P7W1BA	RXYQ28P7W1BA	RXYQ30P7W1BA	RXYQ32P7W1BA	RXYQ34P7W1BA	RXYQ36P7W1BA
Modules	RXYQ8P7W1B	1			1					
	RXYQ10P7W1B		1			1				
	RXYQ12P7W1B	1	1	2			1			
	RXYQ14P7W1BA							1		
	RXYQ16P7W1BA								1	
	RXYQ18P7W1BA				1	1	1	1	1	2

RXYQ-P(A)		RXYQ38P7W1BA	RXYQ40P7W1BA	RXYQ42P7W1BA	RXYQ44P7W1BA	RXYQ46P7W1BA	RXYQ48P7W1BA	RXYQ50P7W1BA	RXYQ52P7W1BA	RXYQ54P7W1BA
Modules	RXYQ8P7W1B	1			1					
	RXYQ10P7W1B		1			1				
	RXYQ12P7W1B	1	1	2			1			
	RXYQ14P7W1BA							1		
	RXYQ16P7W1BA								1	
	RXYQ18P7W1BA	1	1	1	2	2	2	2	2	3

RXYQ5-54P7W1B(A)

VRV®III Inverter Heat Pump
Small Footprint Combination

HEAT PUMP

RXYQ-P(A)				5	8	10	12	14	16	18
Capacity range			HP	5	8	10	12	14	16	18
Capacity	Cooling		kw	14.0	22.4	28.0	33.5	40.0	45.0	49.0
	Heating		kw	16.0	25.0	31.5	37.5	45.0	50.0	56.5
Power input (nominal)	Cooling		kw	3.52	5.56	7.42	9.62	12.4	14.2	16.2
	Heating		kw	4.00	5.86	7.70	9.44	11.30	12.90	15.30
Dimensions	(Height x Width x Depth)		mm	1,680x635x765	1,680x930x765			1,680x1,240x765		
Weight			kg	159	187	240		316		324
Sound Level	Sound Power	Cooling	dBA	72	78		80			83
	Sound Pressure	Cooling	dBA	54	57	58	60			63
Operation Range	Cooling	Min~Max	CDB	-5.0~43.0						
	Heating	Min~Max	CWD	-20.0~15.0						
Refrigerant				R-410A						
Power Supply				3N~/400V/50Hz						
Max n° of indoor units to be connected				8	13	16	19	23	26	29
Piping connections	Liquid (OD)/Gas		mm	9.52 / 15.9	9.52 / 19.1	9.52 / 22.2	12.7 / 28.6			15.9 / 28.6
Max. total length			m	1000						

HEAT PUMP

RXYQ-P(A)				20	22	24	26	28	30	32	34	36
Capacity range			HP	20	22	24	26	28	30	32	34	36
Capacity	Cooling		kw	55.9	61.5	67.0	71.4	77.0	82.5	89.0	94.0	98.0
	Heating		kw	62.5	69.0	75.0	81.5	88.0	94.0	102.0	107.0	113.0
Power input (nominal)	Cooling		kw	15.2	17.0	19.2	21.8	23.6	25.8	28.6	30.4	32.4
	Heating		kw	15.30	17.1	18.9	21.2	23.0	24.7	26.6	28.2	30.6
Dimensions	(Height x Width x Depth)		mm	-								
Weight			kg	-								
Sound Level	Sound Power	Cooling	dBA	-								
	Sound Pressure	Cooling	dBA	-								
Operation Range	Cooling	Min~Max	CDB	-5.0~43.0								
	Heating	Min~Max	CWD	-20.0~15.0								
Refrigerant				R-410A								
Power Supply				3N~/400V/50Hz								
Max n° of indoor units to be connected				32	35	39	42	45	49	52	55	58
Piping connections	Liquid (OD)/Gas		mm	15.9 / 28.6		15.9 / 34.9	19.1 / 34.9					19.1 / 41.3
Max. total length			m	1000								

HEAT PUMP

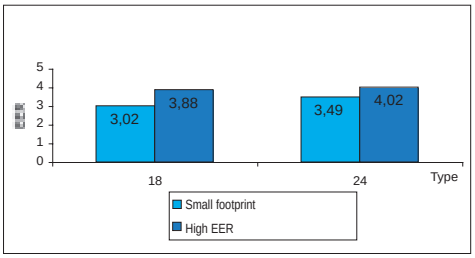
RXYQ-P(A)				38	40	42	44	46	48	50	52	54
Capacity range			HP	38	40	42	44	46	48	50	52	54
Capacity	Cooling		kw	105.0	111.0	116.0	120.0	126.0	132.0	138.0	143.0	147.0
	Heating		kw	119.0	126.0	132.0	138.0	145.0	151.0	158.0	163.0	170.0
Power input (nominal)	Cooling		kw	31.4	33.2	35.4	38.0	39.8	42.0	44.8	46.6	48.6
	Heating		kw	30.6	32.4	34.2	36.5	38.3	40.0	41.9	43.5	45.9
Dimensions	(Height x Width x Depth)		mm	-								
Weight			kg	-								
Sound Level	Sound Power	Cooling	dBA	-								
	Sound Pressure	Cooling	dBA	-								
Operation Range	Cooling	Min~Max	CDB	-5.0~43.0								
	Heating	Min~Max	CWD	-20.0~15.0								
Refrigerant				R-410A								
Power Supply				3N~/400V/50Hz								
Max n° of indoor units to be connected				61	64							
Piping connections	Liquid (OD)/Gas		mm	19.1/41.3								
Max. total length			m	1000								

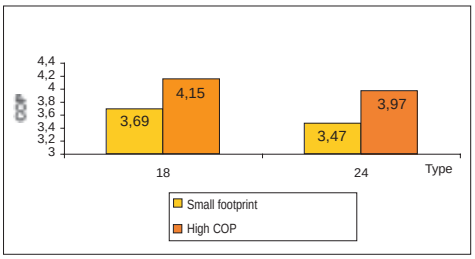
RXYQ16-36P7W1B

VRV®III Inverter Heat Pump
High COP Combination

RXQ8-10-12P7W1B

- Wide range of indoor units: 13 different models in a total of 75 variations
- Compact size of outdoor units
- Increased EER/COP
- Increased external static pressure: up to 78.4Pa
- 2 steps in night quiet mode: eg. 10HP: 58 dBA, 1st step: 54dBA, 2nd step: 45dBA
- In line with RoHS
- Easy combination with HRV
- Connectable to current Daikin control systems: DS-net, Intelligent Touch Controller, Intelligent Manager, BACnet Gateway, DMS-IF
- Easy installation thanks to automatic refrigerant charging operation, automatic test operation
- Quiet operation
- Leak detection function





RXYQ-P		RXYQ16P7W1B	RXYQ18P7W1B	RXYQ20P7W1B	RXYQ22P7W1B	RXYQ24P7W1B	RXYQ26P7W1B	RXYQ30P7W1B	RXYQ30P7W1B	RXYQ32P7W1B	RXYQ34P7W1B	RXYQ36P7W1B
Modules	RXYQ8P7W1B	2	1			3	2	1		1		
	RXYQ10P7W1B		1	2	1		1	2	3		1	
	RXYQ12P7W1B				1					2	2	3

HEAT PUMP

RXYQ-P				16	18	20	22	24	26	28	30	32	34	36
Capacity range			HP	16	18	20	22	24	26	28	30	32	34	36
Capacity	Cooling		kw	44.8	50.4	56.0	61.5	67.2	72.8	78.4	84.0	89.4	95.0	101.0
	Heating		kw	50.0	56.5	63.0	69.0	75.0	81.5	88.0	94.5	100.0	107.0	113.0
Power input (nominal)	Cooling		kw	11.1	13.0	14.8	17.0	16.7	18.5	20.4	22.3	24.8	26.7	28.9
	Heating		kw	11.7	13.6	15.4	17.1	18.9	19.4	21.3	23.1	24.7	26.6	28.3
Dimensions	(Height x Width x Depth)		mm	-										
Operation Range	Cooling	Min~Max	°CDB	-5.0~43.0										
	Heating	Min~Max	°CWB	-20.0~15.0										
Refrigerant				R-410A										
Power Supply				3N~/400V/50Hz										
Max n° of indoor units to be connected				26	29	32	35	39	42	45	48	52	55	58
Piping connections	Liquid (OD)/Gas		mm	12.7 / 28.6	15.9 / 28.6			15.9 / 34.9	19.1 / 34.9					19.1 / 41.3
Max total length			m	1000										

RXYSQ4-6PA7Y1B

VRV®III-S Inverter Heat Pump

- High COP values
- Easy installation thanks to automatic refrigerant charging operation, automatic test operation
- Super wide range of indoor units
- Power consumption limit setting
- Silent operation
- Small capacities - 4, 5 & 6HP
- Slim & flexible design
- Space saving outdoor unit

RXYSQ4-5-6PA7Y1B

HEAT PUMP

Outdoor Unit				RXYSQ4PA7Y1B	RXYSQ5PA7Y1B	RXYSQ6PA7Y1B
Capacity range			HP	4	5	6
Capacity	Cooling		kw	11.2	14.0	15.5
	Heating		kw	12.5	16.0	18.0
Dimensions	(Height x Width x Depth)		mm	1,345x900x320		
Weight			kg	120		
Sound Level	Sound Power	Cooling	dBA	66	67	69
	Sound Pressure	Cooling	dBA	50	51	53
		Heating	dBA	52	53	55
Operation Range	Cooling	Min~Max	°CDB	-5~46		
	Heating	Min~Max	°CWB	-20~15.5		
Refrigerant				R-410A		
Power Supply				3N~/380-415V/50Hz		
Max n° of indoor units to be connected				6	8	9
Piping connections	Liquid (OD)/Gas/Drain		mm	9.52 / 15.9 / 26 x 3		9.52 / 19.1 / 26 x 3
Max total length			m	300		

RXYSQ4-6PA7V1B

VRV®III-S Inverter Heat Pump

- High COP values
- Easy installation thanks to automatic refrigerant charging operation, automatic test operation
- Super wide range of indoor units
- Power consumption limit setting
- Silent operation
- Small capacities - 4, 5 & 6HP
- Slim & flexible design
- Space saving outdoor unit

RXYSQ4-5-6PA7V1B

HEAT PUMP

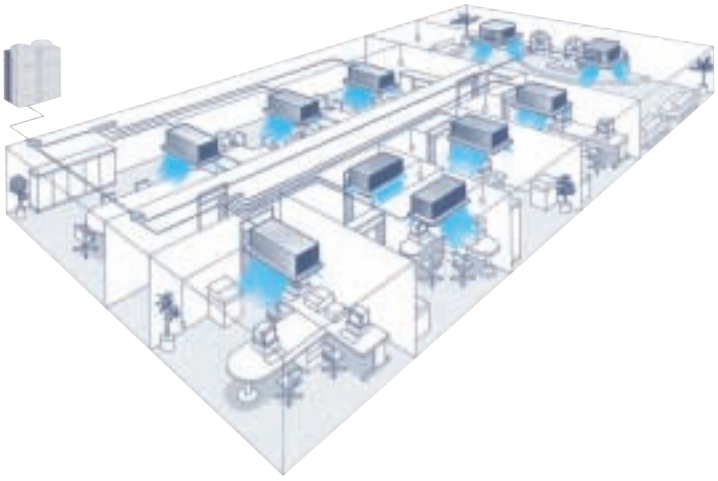
Outdoor Unit				RXYSQ4PA7V1B	RXYSQ5PA7V1B	RXYSQ6PA7V1B
Capacity range			HP	4	5	6
Capacity	Cooling		kw	11.2	14.0	15.5
	Heating		kw	12.5	16.0	18.0
Dimensions	(Height x Width x Depth)		mm	1,345x900x320		
Weight			kg	120		
Sound Level	Sound Power	Cooling	dBA	66	67	69
	Sound Pressure	Cooling	dBA	50	51	53
		Heating	dBA	52	53	55
Operation Range	Cooling	Min~Max	°CDB	-5~46		
	Heating	Min~Max	°CWB	-20~15.5		
Refrigerant				R-410A		
Power Supply				1N~/220-240V/50Hz		
Max n° of indoor units to be connected				6	8	9
Piping connections	Liquid (OD)/Gas/Drain		mm	9.52 / 15.9 / 26 x 3		9.52 / 19.1 / 26 x 3
Max total length			m	300		

RXQ5-18P7W1B(A)

VRV®III Inverter Cooling Only

RXQ5P7W1B

- Wide range of indoor units: 13 different models in a total of 75 variations
- Compact size of outdoor units
- Increased EER/COP
- 2 steps in night quiet mode: eg. 10HP: 58 dBA, 1st step: 54dBA, 2nd step: 45dBA
- In line with RoHS
- Easy combination with HRV
- Connectable to current Daikin control systems: DS-net, Intelligent Touch Controller, Intelligent Manager, BACnet Gateway, DMS-IF
- Easy installation thanks to automatic refrigerant charging operation, automatic test operation
- Quiet operation
- Leak detection function



COOLING ONLY

RXQ-P(A)				5	8	10	12	14	16	18
Capacity range			HP	5	8	10	12	14	16	18
Capacity	Cooling		kw	14.0	22.4	28.0	33.5	40.0	45.0	49.0
Power input (nominal)	Cooling		kw	3.52	5.56	7.42	9.62	12.4	14.2	16.2
Dimensions	(Height x Width x Depth)		mm	1,680x635x765	1,680x930x765			1,680x1,240x765		
Weight			kg	157	185	238		314		322
Sound Level	Sound Power	Cooling	dBA	72	78		80			83
	Sound Pressure	Cooling	dBA	54	57	58	60			63
Operation Range	Cooling	Min~Max	CDB	-5.0~43.0						
Refrigerant				R-410A						
Power Supply				3N~/400V/50Hz						
Max n° of indoor units to be connected				8	13	16	19	23	26	29
Piping connections	Liquid (OD)/Gas		mm	9.52 / 15.9	9.52 / 19.1	9.52 / 22.2	12.7 / 28.6			15.9 / 28.6

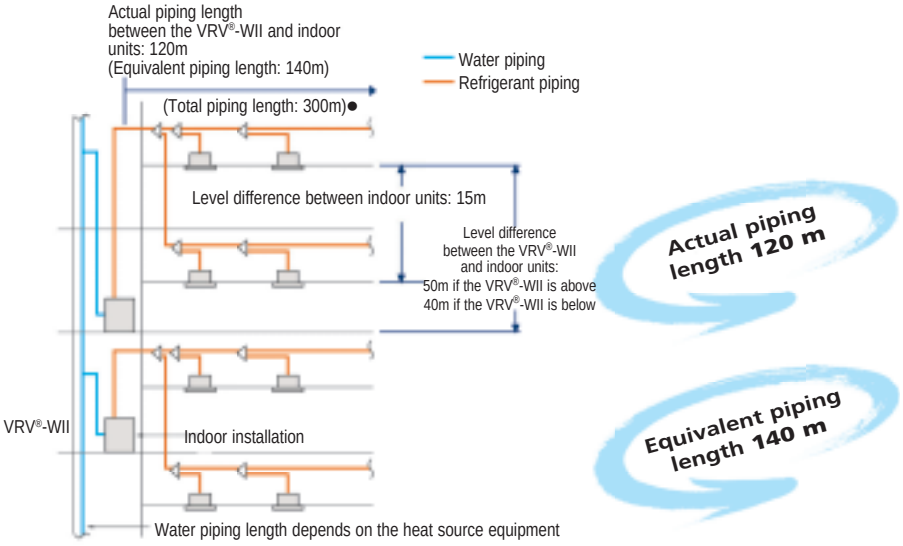
RWEYQ10-30MY1

Water Cooled VRV®

Wide condensing unit range: 10, 20 & 30HP via 1 single refrigerant circuit

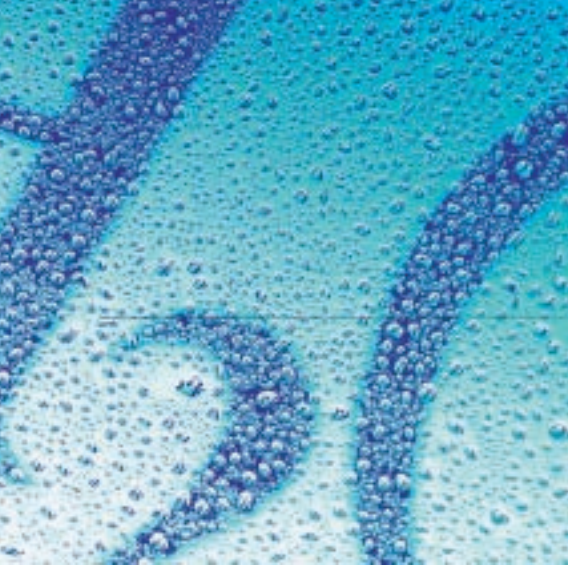
- High COP values: 5.21 nominal value
- Up to 32 indoor units connectable to a 30HP condensing unit
- Wide range of indoor units: 13 different models in a total of 75 variations
- Compact design
- Operation range (inlet water temperature): 10-45°C
- Connectable to current Daikin control systems: DS-net, Intelligent Touch Controller, Intelligent Manager, BACnet Gateway, DMS-IF
- Flexible piping length

RWEYQ10MY1



HEAT RECOVERY

RWEYQ-MY1				RWEYQ10MY1	RWEYQ20MY1	RWEYQ30MY1
Capacity range			HP	10	20	30
Capacity	Cooling		kw	26.70	53.40	80.10
	Heating		kw	31.50	63.00	94.50
Power input (Nominal)	Cooling		kw	6.03	12.10	18.10
	Heating		kw	6.05	12.10	18.20
Dimensions	(Height x Width x Depth)		mm	1,000x780x550	-	
Weight			kg	150	300	450
Sound Level	Sound Pressure	Cooling	dBA	51.0	54.0	56.0
Refrigerant				R-410A		
Power Supply				3~/380-415V/50Hz		
Max n° of indoor units to be connected				16	20	32
Piping connections	Liquid (OD)/Gas		mm	9.5 / 22.2	15.9 / 28.6	19.1 / 34.9

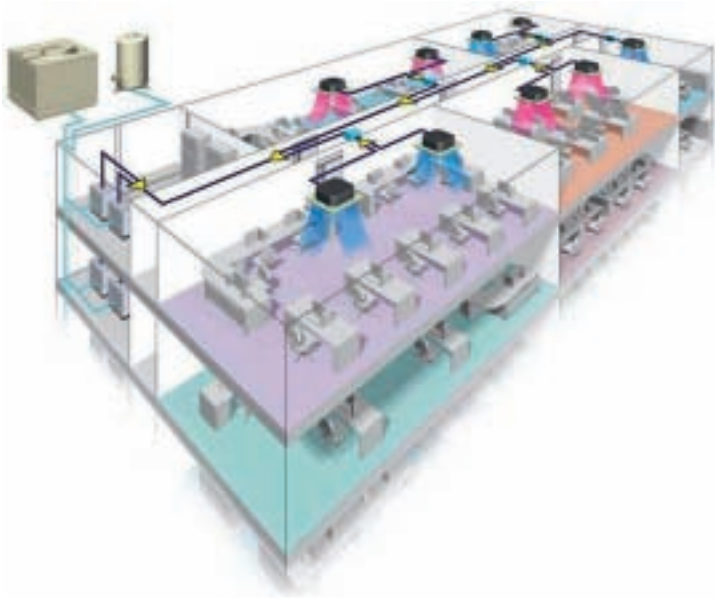


RWEYQ10-30MY1

Water Cooled VRV®

- Wide condensing unit range: 10, 20 & 30HP via 1 single refrigerant circuit
- High COP values: 5.21 nominal value
- Up to 32 indoor units connectable to a 30HP condensing unit
- Wide range of indoor units: 13 different models in a total of 75 variations
- Compact design
- Operation range (inlet water temperature): 10-45°C
- Connectable to current Daikin control systems: DS-net, Intelligent Touch Controller, Intelligent Manager, BACnet Gateway, DMS-IF
- Flexible piping length

RWEYQ10MY1



HEAT PUMP

RWEYQ-MY1				RWEYQ10MY1	RWEYQ20MY1	RWEYQ30MY1
Capacity range			HP	10	20	30
Capacity	Cooling		kw	26.70	53.40	80.10
	Heating		kw	31.50	63.00	94.50
Power input (nominal)	Cooling		kw	6.03	12.10	18.10
	Heating		kw	6.05	12.10	18.20
Dimensions	(Height x Width x Depth)		mm	1,000x780x550	-	
Weight			kg	150	300	450
Sound Level	Sound Pressure	Cooling	dBA	51.0	54.0	56.0
Refrigerant				R-410A		
Power Supply				3~/380-415V/50Hz		
Max n° of indoor units to be connected				16	20	32
Piping connections	Liquid (OD)		mm	9.52	15.9	19.1

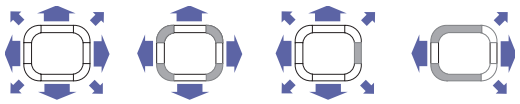
FXFQ-P7VEB

Round Flow Cassette

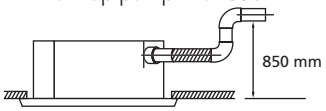
BRC1D52 BRC7F533/F532

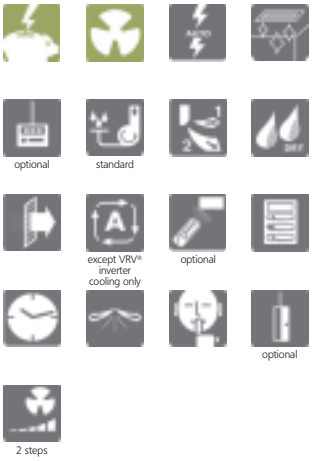
FXFQ-P7VEB

- Modern style decoration panel in white (RAL9010)
- 360° air discharge ensures uniform air flow and temperature distribution
- Air discharge from the corners avoids dead zones that may be subject to temperature differences
- Comfortable horizontal air discharge ensures draughtfree operation and prevents ceiling soiling
- 23 different air flow patterns possible



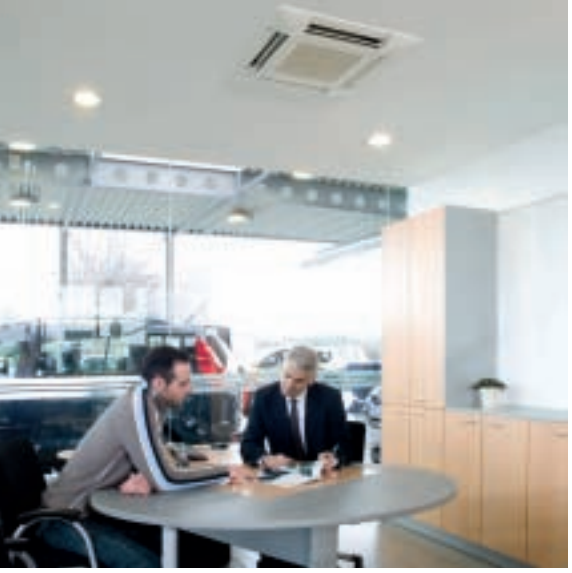
- Fresh air intake: up to 20 %
- Reduced installation height: 214mm for class 20-63
- Easy visible drain check thanks to clear drain socket
- Drain-up pump with 850 mm filted as standard.





FXFQ-P7VEB

Indoor Units				20	25	32	40	50	63	80	100	125
Capacity	Cooling		kw	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
	Heating		kw	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00
Power input	Cooling		kw	0.053			0.063	0.083	0.095	0.120	0.173	0.258
	Heating		kw	0.045			0.055	0.067	0.114	0.108	0.176	0.246
Dimensions	(Height x Width x Depth)		mm	204x840x840						246x840x840		288x840x840
Weight			kg	20				21		24		26
Air Flow Rate	Cooling	High/Low	m³/min	12.5 / 9.0			13.5 / 9.0	15.5 / 10.0	16.5 / 11.0	23.5 / 14.5	26.5 / 17.0	33.0 / 20.0
	Heating	High/Low	m³/min	12.5 / 9.0			13.5 / 9.0	15.0 / 9.5	17.5 / 12.0	23.5 / 14.5	28.0 / 17.5	33.0 / 20.0
Sound power (nominal)	Cooling		dBA	49.0			50.0	51.0	52.0	55.0	58.0	61.0
Sound Pressure	Cooling	High/Low	dBA	31.0 / 28.0			32.0 / 28.0	33.0 / 28.0	34.0 / 29.0	38.0 / 32.0	41.0 / 33.0	44.0 / 34.0
	Heating	High/Low	dBA	31.0 / 28.0			32.0 / 28.0	33.0 / 28.0	36.0 / 30.0	38.0 / 32.0	42.0 / 34.0	44.0 / 34.0
Refrigerant				R-410A								
Power Supply				1~/220-240V/50Hz								
Piping connections	Liquid (OD)/Gas/Drain		mm	6.35 / 12.7 / 32	6.40 / 12.7 / 32				9.5 / 15.9 / 32			
Decoration Panel	Model			BYCQ140CW1								
	Colour			RAL9010								
	HeightxWidthxDepth		mm	50x950x950								
	Weight		kg	5.5								



FXZQ-M8V1B

4-Way Blow Ceiling Mounted Cassette (600mm x 600mm)

BRC1D52

BRC7E531/E530

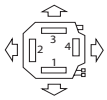
FXZQ-M8V1B

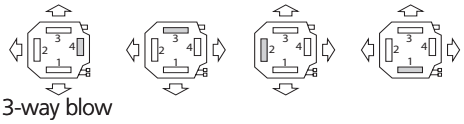
- New and extremely compact casing (575mm in width and depth) enables unit to fit flush into ceilings and match standard architectural modules, without cutting ceiling tiles
- Modern style decoration panel in white (RAL9010)
- Whisper quiet operation: down to 25 dBA sound pressure level
- Excellent low draught characteristics
- Vertical auto-swing function moves the discharge flaps up and down for efficient air distribution throughout the room
- Since the flaps can move to a 0 degree position, virtually no draught can be experienced

- 5 different air flow patterns:
- Any one of 5 air flow patterns can be freely selected between zero and 40 degrees and will then be maintained during the operational cycle of the air conditioner,
- Air can be discharged in any of 4 directions
- Possibility to shut 1 or 2 flaps for easy installation in corners

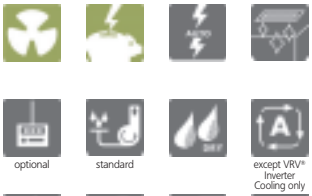
2-way blow

4-way blow





3-way blow



FXZQ-M8V1B

Indoor Units				FXZQ20M8V1B	FXZQ25M8V1B	FXZQ32M8V1B	FXZQ40M8V1B	FXZQ50M8V1B
Capacity	Cooling		kw	2.20	2.80	3.60	4.50	5.60
	Heating		kw	2.50	3.20	4.00	5.00	6.30
Power input	Cooling		kw	0.073		0.076	0.089	0.115
	Heating		kw	0.064		0.068	0.080	0.107
Dimensions	(Height x Width x Depth)		mm	286x575x575				
Weight			kg	18				
Air Flow Rate	Cooling	High/Low	m^3/min	9.00 / 7.00		9.50 / 7.50	11.00 / 8.00	14.00 / 10.00
Sound power (nominal)	Cooling		dBA	47.0		49.0	53.0	58.0
Sound Pressure	Cooling	High/Low	dBA	30.0 / 25.0		32.0 / 26.0	36.0 / 28.0	41.0 / 33.0
Refrigerant				R-410A				
Power Supply				1~/220-240V/50Hz				
Piping connections	Liquid (OD)/Gas/Drain		mm	6.4 / 12.7 / 26				
Decoration Panel	Model			BYFQ60B7W1				
	Colour			White (Ral 9010)				
	HeightxWidthxDepth		mm	55x700x700				
	Weight		kg	2.7				

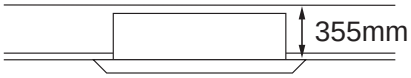
FXCQ-M8V3B

2-Way Blow Ceiling Mounted Cassette

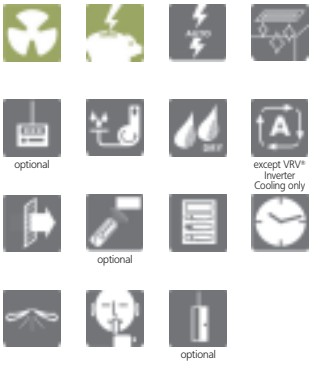
BRC1D52 BRC7C67/C62

FXCQ20,25,32M8V3B

- Compact dimensions, can easily be mounted in a ceiling void of only 355mm



- Easy to install: depth of all units is 600mm
- Auto-swing function ensures efficient air and temperature distribution and prevents ceiling soiling,
- Quiet operation
- Leaves maximum floor and wall space for furniture, decorations and fittings
- Easy to clean flat suction grille



FXCQ-M8V3B

Indoor Units				20	25	32	40	50	63	80	125
Capacity	Cooling		kw	2.20	2.80	3.60	4.50	5.60	7.10	9.00	14.00
	Heating		kw	2.50	3.20	4.00	5.00	6.30	8.00	10.00	16.00
Power input	Cooling		kw	0.077	0.092		0.130		0.161	0.209	0.256
	Heating		kw	0.044	0.059		0.097		0.126	0.176	0.223
Dimensions	(Height x Width x Depth)		mm	305x780x600			305x995x600		305x1,180x600	305x1,670x600	
Weight			kg	26			31	32	35	47	48
Air Flow Rate	Cooling	High/Low	m³/min	7.0 / 5.0	9.0 / 6.5		12.0 / 9.0		16.5 / 13.0	26.0 / 21.0	33.0 / 25.0
	Heating	High/Low	m³/min	7.0 / 5.0	9.0 / 6.5		12.0 / 9.0		16.5 / 13.0	26.0 / 21.0	33.0 / 25.0
Sound power (nominal)	Cooling		dBA	45.0	50.0				52.0	54.0	60.0
Sound Pressure	Cooling	High/Low	dBA	33.0 / 28.0	35.0 / 29.0		35.5 / 30.5		38.0 / 33.0	40.0 / 35.0	45.0 / 39.0
	Heating	High/Low	dBA	33.0 / 28.0	35.0 / 29.0		35.5 / 30.5		38.0 / 33.0	40.0 / 35.0	45.0 / 39.0
Refrigerant				R-410A							
Power Supply				1~/230V/50Hz							
Piping connections	Liquid (OD)/Gas/Drain		mm	6.35 / 12.7 / 32					9.5 / 15.9 / 32		
Decoration Panel	Model			BYBC32GJW1			BYBC50GJW1		BYBC63GJW1	BYBC125GJW1	
	Colour			White (10Y9/0.5)							
	HeightxWidthxDepth		mm	53x1030x680			53x1245x680		53x1430x680	53x1920x680	
	Weight		kg	8.0			8.5		9.5	12.0	

FXKQ-MAVE

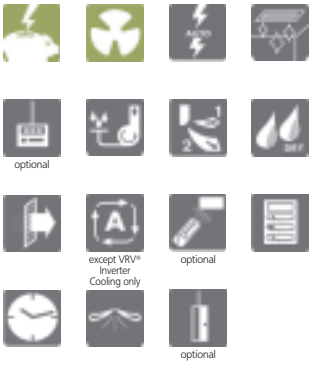
Ceiling Mounted Corner Cassette

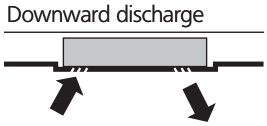
BRC1D52 BRC4C63/C61

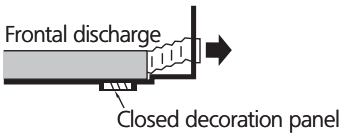
FXKQ63MAVE

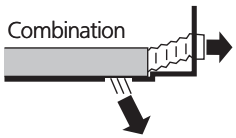
- Slim design for flexible installation
- Auto-swing function ensures efficient air and temperature distribution,
- Choice between 3 auto-swing positions for maximum comfort: standard, draught prevention, ceiling soiling prevention
- Optimum air flow conditions are created by either downward air discharge or frontal air discharge (via optional grille) or a combination of both

- Leaves maximum floor and wall space for furniture, decorations and fittings









FXKQ-MAVE

Indoor Units				FXKQ25MAVE	FXKQ32MAVE	FXKQ40MAVE	FXKQ63MAVE
Capacity	Cooling		kw	2.80	3.60	4.50	7.10
	Heating		kw	3.20	4.00	5.00	8.00
Power input	Cooling		kw	0.066		0.076	0.105
	Heating		kw	0.046		0.056	0.085
Dimensions	(Height x Width x Depth)		mm	215x1,110x710			215x1,310x710
Weight			kg	31			34
Air Flow Rate	Cooling	High/Low	m^3/min	11.00 / 9.00		13.00 / 10.00	18.00 / 15.00
Sound Pressure	Cooling	High/Low	dBA	38.0 / 33.0		40.0 / 34.0	42.0 / 37.0
Refrigerant				R-410A			
Power Supply				1~/220-240V/50Hz			
Piping connections	Liquid (OD)/Gas/Drain		mm	6.4 / 12.7 / 32			9.5 / 15.9 / 32
Decoration Panel	Model			BYK45FJW1			BYK71FJW1
	Colour			White			
	HeightxWidthxDepth		mm	70x1240x800			70x1440x800
	Weight		kg	8.5			9.5

FXDQ-M8V3B

Concealed Ceiling Unit (Small)

BRC1D52 BRC4C64/C62

FXDQ20,25M8V3B

- Designed for hotel bedrooms
- Compact dimensions (230mm high & 652mm deep), can easily be mounted in a ceiling void
- Blends unobtrusively with any interior décor: only the suction and discharge grilles are visible
- Extremely quiet in operation both indoors and outdoors
- The air suction direction can be altered from rear to bottom suction
- Air suction filter fitted as standard
- For easy mounting, the drain pan can be located to the left or the right of the unit.

FXDQ-M8V3B

Indoor Units				FXDQ20M8V3B	FXDQ25M8V3B
Capacity	Cooling		kw	2.20	2.80
	Heating		kw	2.50	3.20
Power input	Cooling		kw	0.050	
	Heating		kw	0.050	
Dimensions	(Height x Width x Depth)		mm	230x502x652	
Weight			kg	17	
Air Flow Rate	Cooling	High/Low	m^3/min	6.70 / 5.20	7.40 / 5.80
	Heating	High/Low	m^3/min	6.70 / 5.20	7.40 / 5.80
Sound power (nominal)	Cooling		dBA	50.0	
Sound Pressure	Cooling	High/Low	dBA	37.0 / 32.0	
	Heating	High/Low	dBA	37.0 / 32.0	
Refrigerant				R-410A	
Power Supply				1~/230V/50Hz	
Piping connections	Liquid (OD)/Gas/Drain		mm	6.4 / 12.7 / 27.2	

FXDQ-PVE/NAVE

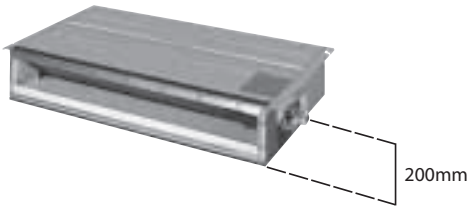
Slim Concealed Ceiling Unit

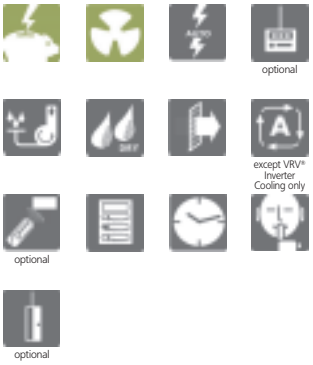
BRC1D52

BRC4C64/C62

FXDQ20-32PVE

- Slim design for flexible installation





- Compact dimensions, can easily be mounted in a ceiling void of only 240mm
- Quiet operation: down to 29 dBA sound pressure level
- Blends unobtrusively with any interior décor
- Can be installed in both new and existing buildings.
- Leaves maximum floor and wall space for furniture, decorations and fittings
- Medium external static pressure facilitates unit use with flexible ducts of varying lengths

FXDQ-PVE/FXDQ-NAVE

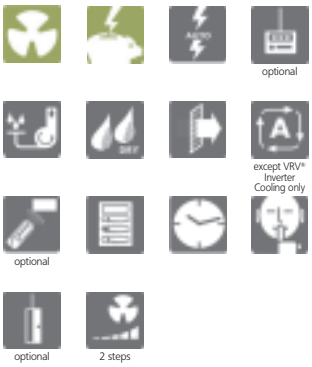
Indoor Units				FXDQ20PVE	FXDQ25PVE	FXDQ32PVE	FXDQ40NAVE	FXDQ50NAVE	FXDQ63NAVE
Capacity	Cooling		kw	2.20	2.80	3.60	4.50	5.60	7.10
	Heating		kw	2.50	3.20	4.00	5.00	6.30	8.00
Power input	Cooling		kw	0.086		0.089	0.160	0.165	0.181
	Heating		kw	0.067		0.070	0.147	0.152	0.168
Dimensions	(Height x Width x Depth)		mm	200x700x620			200x900x620		200x1,100x620
Weight			kg	23.0			27.0	28.0	31.0
Air Flow Rate	Cooling	High/Low	m^3/min	8.0 / 6.4			10.50 / 8.50	12.50 / 10.00	16.50 / 13.00
Sound Pressure	Cooling	High/Low	dBA	33.0 / 29.0			34.0 / 30.0	35.0 / 31.0	36.0 / 32.0
Refrigerant				R-410A					
Power Supply				1~/220-240V/50Hz					
Piping connections	Liquid (OD)/Gas/Drain		mm	6.4 / 12.7 / VP20 (I.D. 20/O.D. 26)					9.5 / 15.9 / VP20 (I.D. 20/O.D. 26)

FXSQ-M8V3B

Concealed Ceiling Unit

BRC1D52 BRC4C64/C62

FXSQ20,25,32M8V3B



- Blends unobtrusively with any interior décor
- Leaves maximum floor and wall space for furniture, decorations and fittings
- Drain pump fitted as standard
- Long life filter fitted as standard
- The air suction direction can be altered from rear to bottom suction
- Ideal for shops, restaurants or offices requiring maximum floor space for furniture, decorations and fittings
- High external static pressure facilitates unit use with flexible ducts of varying lengths

FXSQ-M8V3B

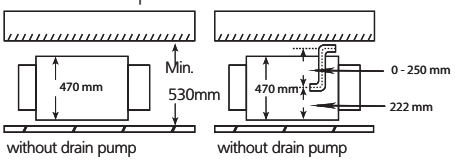
Indoor Units				20	25	32	40	50	63	80	100	125
Capacity	Cooling		kw	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
	Heating		kw	2.50	3.20	4.00	5.00	6.30	8.00	10.00	12.50	16.00
Power input	Cooling		kw	0.110		0.114	0.127	0.143	0.189	0.234	0.242	0.321
	Heating		kw	0.090		0.094	0.107	0.123	0.169	0.214	0.222	0.301
Dimensions	(Height x Width x Depth)		mm	300x550x800			300x700x800		300x1000x800	300x1400x800		
Weight			kg	30				31	41	51		52
Air Flow Rate	Cooling	High/Low	m³/min	9.00 / 6.50		9.50 / 7.00	11.50 / 9.00	15.00 / 11.00	21.00 / 15.50	27.00 / 20.00	28.00 / 20.50	38.00 / 28.00
	Heating	High/Low	m³/min	9.00 / 6.50		9.50 / 7.00	11.50 / 9.00	15.00 / 11.00	21.00 / 15.50	27.00 / 20.00	28.00 / 20.50	38.00 / 28.00
Sound power (nominal)	Cooling		dBA	50.0		51.0	56.0	58.0	56.0	55.0	56.0	65.0
Sound Pressure	Cooling	High/Low	dBA	32.0 / 28.0		33.0 / 28.0	33.0 / 29.0	35.0 / 31.0	35.0 / 30.0	37.0 / 31.0	38.0 / 33.0	40.0 / 35.0
	Heating	High/Low	dBA	32.0 / 28.0		33.0 / 28.0	33.0 / 29.0	35.0 / 31.0	35.0 / 30.0	37.0 / 31.0	38.0 / 33.0	40.0 / 35.0
Refrigerant				R-410A								
Power Supply				1~/230V/50Hz								
Piping connections	Liquid (OD)/Gas/Drain		mm	6.35 / 12.7 / 32					9.5 / 15.9 / 32			
Decoration Panel	Model			BYBS32DJW1			BYBS45DJW1		BYBS71DJW1	BYBS125DJW1		
	Colour			White (10Y9/0,5)								
	HeightxWidthxDepth		mm	55x650x500			55x800x500		55x1100x500	55x1500x500		
	Weight		kg	3			3.5		4.5	6.5		

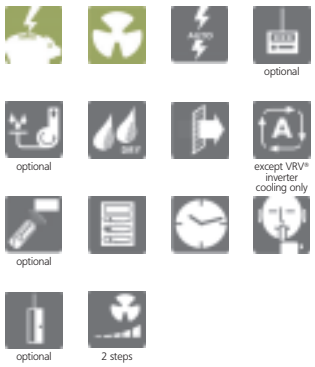
FXMQ-MAVE

Concealed Ceiling Unit (Large)

BRC1D52 BRC4C64/C62 FXMQ80,100,125MAVE

- Leaves maximum floor and wall space for furniture, decorations and fittings
- Complete range of models (5 -> 31,5 kW)
- More than 150 Pa external static pressure allows extensive ductwork runs and flexible application: ideal for use in large areas
- Built-in drain pump (accessory): housing the drain pump inside the unit has reduced the required installation space





FXMQ-MAVE

Indoor Units				40	50	63	80	100	125	200	250
Capacity	Cooling		kw	4.50	5.60	7.10	9.00	11.20	14.00	22.40	28.00
	Heating		kw	5.00	6.30	8.00	10.00	12.50	16.00	25.00	31.50
Power input (Nominal)	Cooling		kw	0.211			0.284	0.411	0.619	1.294	1.465
	Heating		kw	0.211			0.284	0.411	0.619	1.294	1.465
Dimensions	(Height x Width x Depth)		mm	390x720x690				390x1,110x690		470x1,380x1100	
Weight			kg	44			45	63	65	137	
Air Flow Rate	Cooling	High/Low	m³/min	14.00 / 11.50			19.50 / 16.00	29.00 / 23.00	36.00 / 29.00	58.00 / 50.00	72.00 / 62.00
Sound Pressure	Cooling	High/Low	dBA	39.0 / 35.0			42.0 / 38.0	43.0 / 39.0	45.0 / 42.0	48.0 / 45.0	
Refrigerant				R-410A							
Power Supply				1~/220-240V/50Hz							
Piping connections	Liquid (OD)/Gas/Drain		mm	6.4 / 12.7 / 32		9.5 / 15.9 / 32				9.5 / 19.1 / PS1B	9.5 / 22.2 / PS1B

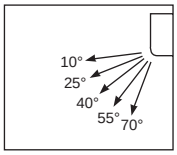
FXAQ-MAVE

Wall Mounted Unit

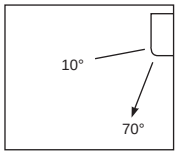
BRC1D52 BRC7E619/E618

FXAQ40,50,63MAVE

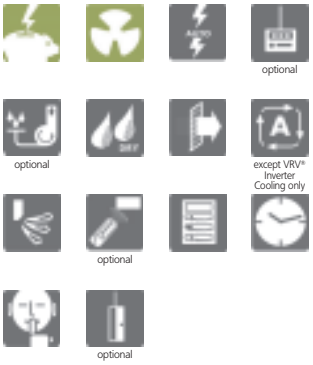
- Compact design
- Fits neatly on a wall
- Auto-swing function ensures efficient air distribution via louvers that close automatically when the unit is switched off
- 5 different discharge angles can be programmed via the remote control



- Both horizontal flaps and front panel can easily be removed and washed
- Discharge angle automatically returns to its previous position on restart (initial setting 10 degrees for cooling and 70 degrees for heating)

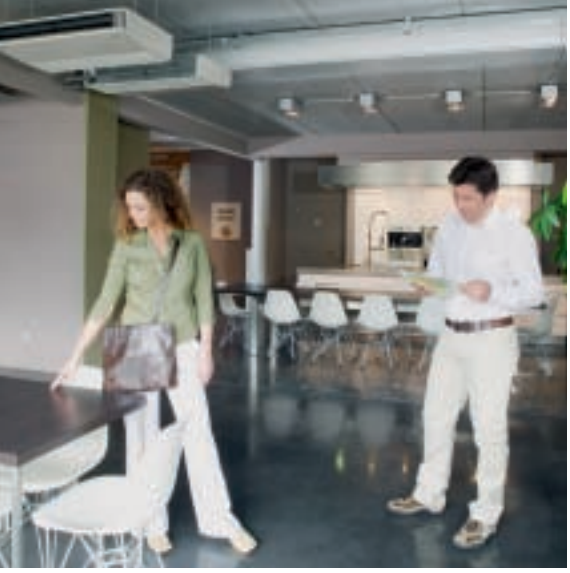


- All maintenance operations can be carried out from the front of the unit



FXAQ-MAVE

Indoor Units				FXAQ20MAVE	FXAQ25MAVE	FXAQ32MAVE	FXAQ40MAVE	FXAQ50MAVE	FXAQ63MAVE
Capacity	Cooling		kw	2.20	2.80	3.60	4.50	5.60	7.10
	Heating		kw	2.50	3.20	4.00	5.00	6.30	8.00
Power input	Cooling		kw	0.016	0.022	0.027	0.020	0.027	0.050
	Heating		kw	0.024	0.027	0.032	0.020	0.032	0.060
Dimensions	(Height x Width x Depth)		mm	290x795x230			290x1,050x230		
Weight			kg	11			14		
Air Flow Rate	Cooling	High/Low	m³/min	7.50 / 4.50	8.00 / 5.00	9.00 / 5.50	12.00 / 9.00	15.00 / 12.00	19.00 / 14.00
Sound Pressure	Cooling	High/Low	dBA	35.0 / 29.0	36.0 / 29.0	37.0 / 29.0	39.0 / 34.0	42.0 / 36.0	46.0 / 39.0
Refrigerant				R-410A					
Power Supply				1~/220-240V/50Hz					
Piping connections	Liquid (OD)/Gas/Drain		mm	6.4 / 12.7 / 18				6.35 / 12.7 / 18	9.5 / 15.9 / 18

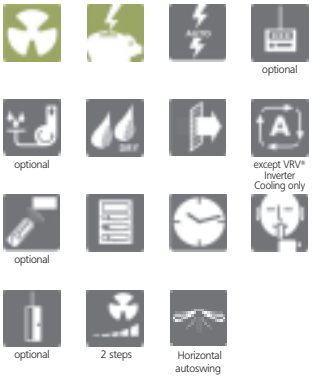


FXHQ-MAVE

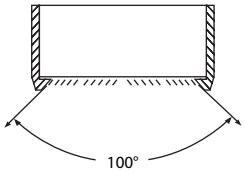
Ceiling Suspended Unit

BRC1D52 BRC7E66/E63

FXHQ32MAVE



- Reduced sound pressure level
- Leaves maximum floor and wall space for furniture, decorations and fittings
- Can be installed in both new and existing buildings.
- Use of W-shaped Coanda flap enhances horizontal and vertical air circulation characteristics
- Wider air discharge thanks to Coanda effect: up to 100 degrees



- Easy installation and maintenance
- Long life filter fitted as standard
- Drain pump kit available as accessory

FXHQ-MAVE

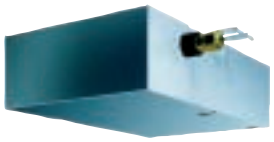
Indoor Units				FXHQ32MAVE	FXHQ63MAVE	FXHQ100MAVE
Capacity	Cooling		kw	3.60	7.10	11.20
	Heating		kw	4.00	8.00	12.50
Power input	Cooling		kw	0.111	0.115	0.135
	Heating		kw	0.111	0.115	0.135
Dimensions	(Height x Width x Depth)		mm	195x960x680	195x1,160x680	195x1,400x680
Weight			kg	24	28	33
Air Flow Rate	Cooling	High/Low	m^3/min	12.00 / 10.00	17.50 / 14.00	25.00 / 19.50
Sound Pressure	Cooling	High/Low	dBA	36.0 / 31.0	39.0 / 34.0	45.0 / 37.0
Refrigerant				R-410A		
Power Supply				1~/220-240V/50Hz		
Piping connections	Liquid (OD)/Gas/Drain		mm	6.4 / 12.7 / 26	9.5 / 15.9 / 26	

FXUQ-MAV1

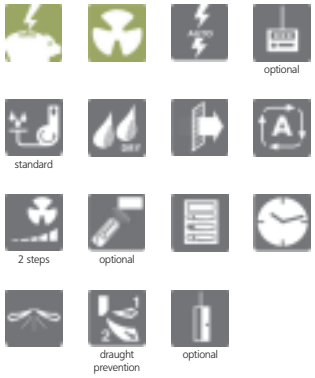
4-Way Blow Ceiling Suspended Cassette

BRC1D52 BRC7C529/C528

FXUQ71MAV1



BEVQ-MA



- Can be installed in both new and existing buildings.
- Group control with other VRV indoor units possible
- Cool heat selection
- Prevention of cold draught at hot start, defrost and oil return in heating
- 5m maximum distance between FXUQ unit and junction box
- Air can be discharged in any of 4 directions
- Possibility to shut 1 or 2 flaps for easy installation in corners
- Auto-swing function ensures efficient air and temperature distribution.
- Air flow distribution for ceiling heights up to 3.5m without loss of capacity.
- Air can be discharged at 5 different angles between 0 and 60 degrees
- Air filter, drain pan and heat exchanger fin are mildew proof and anti-bacterial treated.

FXUQ-MAV1

Indoor Units				FXUQ71MAV1	FXUQ100MAV1	FXUQ125MAV1
Capacity	Cooling		kw	8.0	11.2	14.0
	Heating		kw	9.0	12.5	14.0
Power input	Cooling		kw	0.180	0.289	
	Heating		kw	0.160	0.269	
Dimensions	(Height x Width x Depth)		mm	165x895x895	230x895x895	
Weight			kg	25	31	
Air Flow Rate	Cooling	High/Low	m^3/min	19.00 / 14.00	29.00 / 21.00	32.00 / 23.00
	Heating	High/Low	m^3/min	19.00 / 14.00	29.00 / 21.00	32.00 / 23.00
Sound power (nominal)	Cooling		dBA	56.0	59.0	60.0
Sound Pressure	Cooling	High/Low	dBA	40.0 / 35.0	43.0 / 38.0	44.0 / 39.0
	Heating	High/Low	dBA	40.0 / 35.0	43.0 / 38.0	44.0 / 39.0
Refrigerant				R-410A		
Power Supply				1~/220-240V/50Hz		
Piping connections	Liquid (OD)/Gas/Drain		mm	9.5 / 15.9 / I.D. 20/O.D. 26		
Combination with junction box				BEVQ71M	BEVQ100M	BEVQ125M

BEVQ-MA			71	100	125
Dimensions	HxWxD	mm	100x350x225		
Weight		kg	3.0	3.0	3.5
Casing			Galvanised steel plate		
Power supply		VE	1~, 50Hz, 220-240V		

FXNQ-MAVE

Concealed Floor Standing Unit

BRC1D52

BRC4C64/C62

FXNQ20,25MAVE

- Ideal for installation beneath a window
- All models are available with remote control
- Long life filter fitted as standard
- Requires very little installation space
- The connecting port faces downward, eliminating the need to attach auxiliary piping

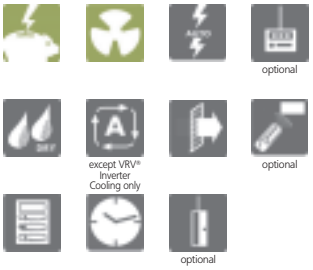
FXNQ-MAVE

Indoor Units				FXNQ20MAVE	FXNQ25MAVE	FXNQ32MAVE	FXNQ40MAVE	FXNQ50MAVE	FXNQ63MAVE
Capacity	Cooling		kw	2.20	2.80	3.60	4.50	5.60	7.10
	Heating		kw	2.50	3.20	4.00	5.00	6.30	8.00
Power input	Cooling		kw	0.049		0.090		0.110	
	Heating		kw	0.049		0.090		0.110	
Dimensions	(Height x Width x Depth)		mm	610x930x220		610x1,070x220		610x1,350x220	
Weight			kg	19		23		27	
Air Flow Rate	Cooling	High/Low	m^3/min	7.00 / 6.00		8.00 / 6.00	11.00 / 8.50	14.00 / 11.00	16.00 / 12.00
Sound Pressure	Cooling	High/Low	dBA	35.0 / 32.0			38.0 / 33.0	39.0 / 34.0	40.0 / 35.0
Refrigerant				R-410A					
Power Supply				1~/220-240V/50Hz					
Piping connections	Liquid (OD)/Gas/Drain		mm	6.4 / 12.7 / O.D. 21					9.5 / 15.9 / O.D. 21

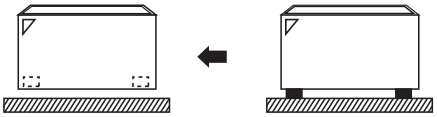
FXLQ-MAVE

Floor Standing Unit

BRC1D52 BRC4C64/62 FXLQ20,25MAVE



- Ideal for installation beneath a window
- All models are available with remote control
- Requires very little installation space
- Running the pipes from connections at the back, enables the unit to be wall mounted which in turn allows cleaning beneath the unit where dust tends to accumulate

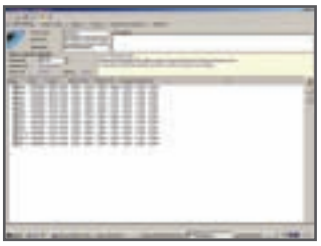


- Long life filter fitted as standard

FXLQ-MAVE

Indoor Units				FXLQ20MAVE	FXLQ25MAVE	FXLQ32MAVE	FXLQ40MAVE	FXLQ50MAVE	FXLQ63MAVE
Capacity	Cooling		kw	2.20	2.80	3.60	4.50	5.60	7.10
	Heating		kw	2.50	3.20	4.00	5.00	6.30	8.00
Power input	Cooling		kw	0.049		0.090		0.110	
	Heating		kw	0.049		0.090		0.110	
Dimensions	(Height x Width x Depth)		mm	600x1000x222		600x1,140x222		600x1,420x222	
Weight			kg	25		30		36	
Air Flow Rate	Cooling	High/Low	m^3/min	7.00 / 6.00		8.00 / 6.00	11.00 / 8.50	14.00 / 11.00	16.00 / 12.00
Sound Pressure	Cooling	High/Low	dBA	35.0 / 32.0			38.0 / 33.0	39.0 / 34.0	40.0 / 35.0
Refrigerant				R-410A					
Power Supply				1~/220-240V/50Hz					
Piping connections	Liquid (OD)/Gas/Drain		mm	6.4 / 12.7 / O.D. 21					9.5 / 15.9 / O.D. 21

VRV® Xpress

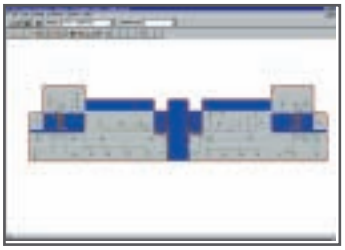


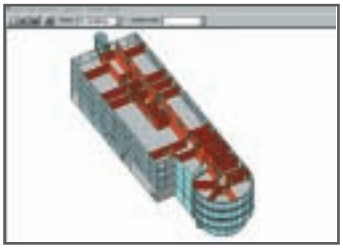
Daikin has developed a new user friendly, software tool that allows rapid VRV® selection and provides a professional result in the 7 following steps:

1. Select indoor units
2. Connect outdoor units to indoor units
3. Automatic receipt of piping diagram with joints
4. Automatic receipt of wiring diagram
5. Connect appropriate centralised control systems
6. Visualise result in Microsoft Word, Microsoft Excel and AutoCAD®.
7. Save project

Using VRV® Xpress enables VRV® selection to be achieved in a simple, complete and professional manner.

VRV® Pro Selection Programme





FEATURES:

- the VRV® Pro selection programme offers 3 separate modes to accommodate different design formats according to customer requirements. Multi languages are possible.

1. Expert mode:
   once the cooling and heating loads in the different rooms have been calculated, the software will select the most appropriate system plus an estimate of the power consumption.

2. Quick mode:
   based on calculated system loads, the software will select the most appropriate system.

3. Drawing mode:
   selecting the indoor and outdoor units from a list enables the user to design a system in no time at all.

A simple to use, Daikin computerised selection programme, designed for use with Windows 95®, Windows 98®, WindowsNT®, Windows 2000® ,Windows XP® and Windows Vista® systems, enables consulting engineers, design and build contractors, property developers and architects etc. to plan a Daikin air conditioning project on a step by step basis, complete with detailed drawings, bills of quantities and costs.
The programme thus enables VRV® air conditioning systems to be engineered precisely and economically (without over-sizing units), thereby ensuring optimum operating cycles and maximum energy efficiency.

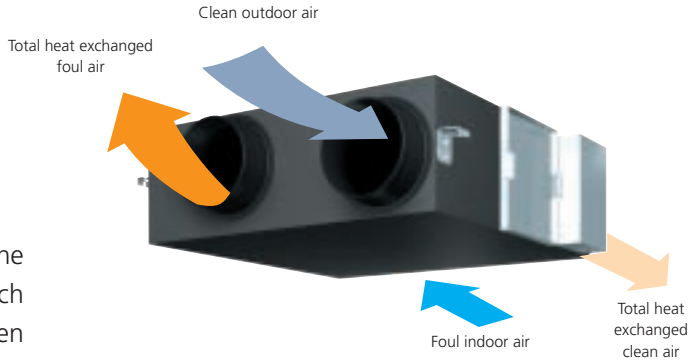
Ventilation

Air conditioning and air movement of course, are not the same. Neither actually includes the other but both are necessary components of a comfortable and energy efficient indoor climate. Ventilation by itself cannot cope with the high heat gains generated by modern office complexes and indoor temperature and humidity levels can fluctuate wildly if ventilation alone is installed. On the other hand, air conditioning cannot supply the necessary fresh air needed for a balanced system. The ideal solution therefore, requires air conditioning and ventilation in combination.

Daikin manufactures and markets a range of fresh air reclaim, treatment and handling systems, carefully designed for integration with its air conditioning systems in order to achieve the most economic, environmentally conscious and best possible indoor comfort conditions.

HRV

Heat Reclaim Ventilation



The Daikin heat recovery ventilation system modulates the temperature and humidity of incoming fresh air to match indoor conditions. A balance is thus achieved between indoor and outdoor ambients, enabling the cooling or heating load placed on the air conditioning system to be reduced significantly.
HRV units can be controlled individually or integral with the air conditioning system (Daikin VRV® or Sky Air series).

- 9 models to choose from
- Compact, energy saving ventilation
- Specially developed heat exchange element with HEP (High Efficiency Paper)
- Easy integration into the VRV® system
- Connectable to current Daikin control systems:

DS-net
intelligent touch Controller
intelligent Manager
BACnet Gateway
MS-IF

VAM-FA8

Ventilation			VAM150FA8	VAM250FA8	VAM350FA8	VAM500FA8	VAM650FA8	VAM800FA8	VAM1000FA8	VAM1500FA8	VAM2000FA8
Air flow rate		m^3/h	150	250	350	500	650	800	1,000	1,500	2,000
Sound pressure level (max.) (1)		dBA	27/28.5	28/29	32/34	33/34.5	34.5/35.5	36/37	36/37	39.5/41.5	40/42.5
External static pressure (max.)		Pa	69	64	98	98	93	137	157	137	137
Temperature exchange efficiency		%	74	72	75	74	74	74	75	75	75
Enthalpy exchange efficiency	heating	%	58	58	61	58	58	60	61	61	61
	cooling	%	64	64	65	62	63	65	66	66	66
Dimensions	H	mm	269	269	285	285	348	348	348	710	710
	W	mm	760	760	812	812	988	988	988	1,498	1,498
	D	mm	509	509	800	800	852	852	1,140	852	1,140
Weight		kg	24	24	33	33	48	48	61	132	158
Duct diameter		mm	ø 100	ø 150	ø 150	ø 200	ø 200	ø 250	ø 250	ø 350	ø 350
Power supply		VE	1 ~, 50Hz, 220-240V								

(1) Sound pressure level is measured in heat exchange mode.

HRV

Heat Reclaim Ventilation

- Heat purge (economiser): heat accumulated indoors is discharged at night
- Integration of humidification and air conditioning into HRV unit
- Increased static pressure thanks to improved fan performance
- Individual control via HRV remote control
- Connectable to current Daikin control systems:

DS-net

intelligent Touch Controller

intelligent Manager

BACnet Gateway

DMS-IF

VKM-GAM

Ventilation, DX coil & humidifier			VKM50GAM	VKM80GAM	VKM100GAM
Fresh air conditioning load	Cooling	kW	4.71	7.46	9.12
	Heating	kW	5.58	8.79	10.69
Air flow rate	UH - H - L	m^3/h	500 - 500 - 440	750 - 750 - 640	950 - 950 - 820
Sound pressure level - 220V	UH - H - L	dBA	37 - 35.5 - 32	38.5 - 36 -33	39 -37 - 34
Sound pressure level - 240V	UH - H - L	dBA	38 - 36 - 34	40 - 37.5 - 35.5	40 - 38 - 35.5
Static pressure	UH - H - L	Pa	160 - 120 - 100	140 - 90 - 70	110 - 70 - 60
Temperature exchange efficiency	UH - H - L	%	76 - 76 - 77.5	78 - 78 - 79	74 - 74 - 76.5
Enthalpy exchange efficiency - cooling	UH - H - L	%	64 - 64 - 67	66 - 66 - 68	62 - 62 - 66
Enthalpy exchange efficiency - heating	UH - H - L	%	67 - 67 - 69	71 - 71 - 73	65 - 65 - 69
Humidifier type			natural evaporating humdifier		
Humidification capacity		kg/h	2.70	4.00	5.40
Dimensions	Height	mm	387	387	387
	Width	mm	1,764	1,764	1,764
	Depth	mm	832	1,214	1,214
Weight		kg	102	120	125
Power supply		V1	1 ~, 220-240V, 50Hz		

VKM-GA

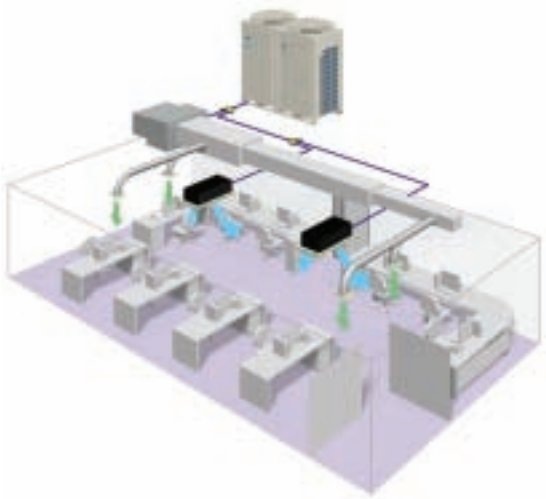
Ventilation & DX coil			VKM50GA	VKM80GA	VKM100GA
Fresh air conditioning load	Cooling	kW	4.71	7.46	9.12
	Heating	kW	5.58	8.79	10.69
Air flow rate	UH - H - L	m^3/h	500 - 500 - 440	750 - 750 - 640	950 - 950 - 820
Sound pressure level - 220V	UH - H - L	dBA	38 - 36 - 33.5	40 - 37.5 - 34.5	40 - 38 - 35
Sound pressure level - 240V	UH - H - L	dBA	39 -37 - 33.5	41.5 - 39 - 37	41 - 39 - 36.5
Static pressure	UH - H - L	Pa	180 - 150 - 110	170 - 120 - 80	150 - 100 - 70
Temperature exchange efficiency	UH - H - L	%	76 - 76 - 77.5	78 - 78 - 79	74 - 74 - 76.5
Enthalpy exchange efficiency - cooling	UH - H - L	%	64 - 64 - 67	66 - 66 - 68	62 - 62 - 66
Enthalpy exchange efficiency - heating	UH - H - L	%	67 - 67 - 69	71 - 71 - 73	65 - 65 - 69
Dimensions	Height	mm	387	387	387
	Width	mm	1,764	1,764	1,764
	Depth	mm	832	1,214	1,214
Weight		kg	96	109	114
Power supply		V1	1 ~, 220-240V, 50Hz		

FXMQ-MFV1

Outdoor Air Processing Unit

FXMQ250MFV1

- 100% fresh air intake possible
- Leaves maximum floor and wall space for furniture, decorations and fittings
- Operation range: -5°C to 43°C
- 225 Pa external static pressure allows extensive ductwork runs and flexible application: ideal for use in large areas
- Drain pump kit available as accessory



FXMQ-MFV1

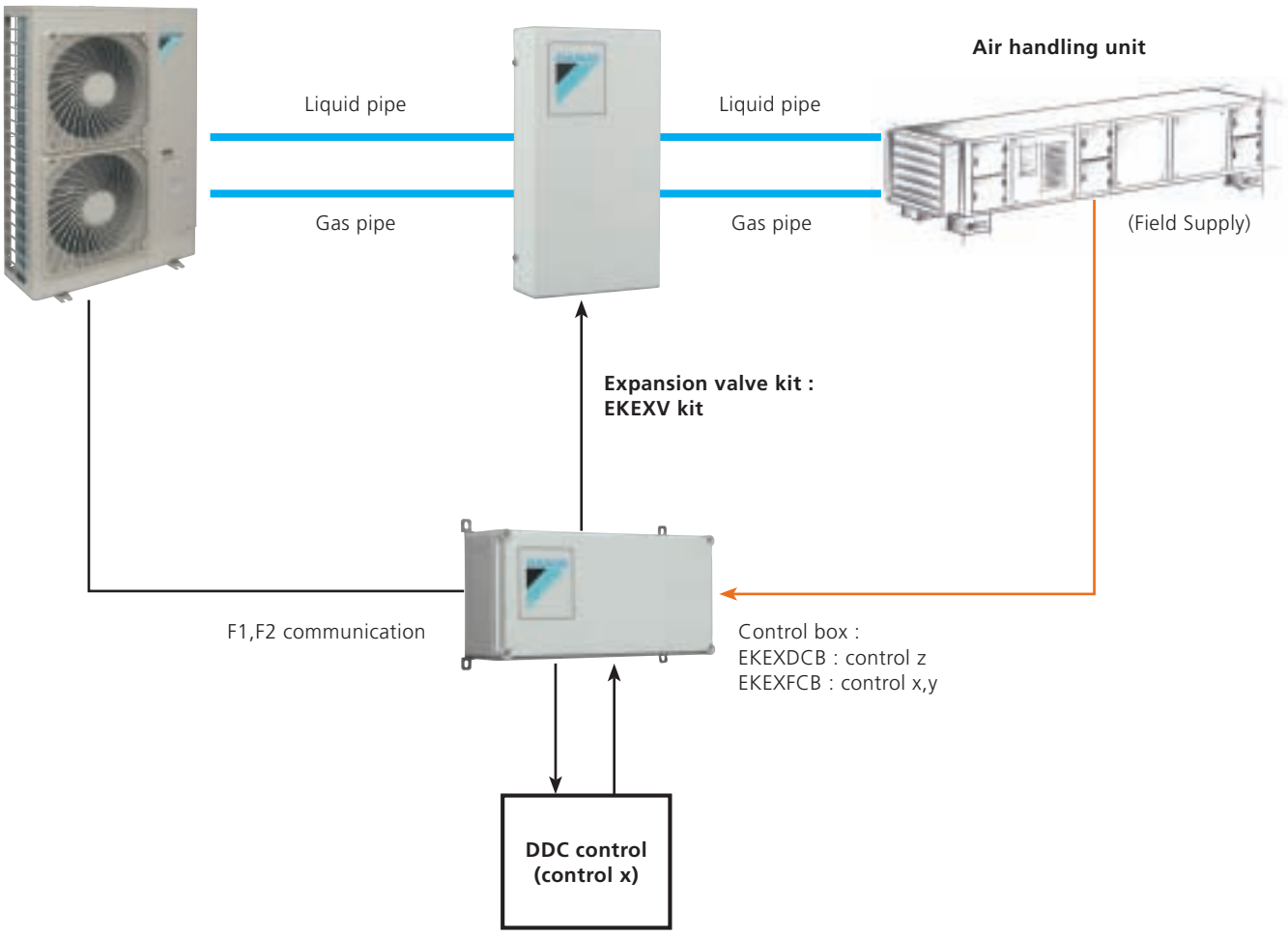
Indoor Units				FXMQ125MFV1	FXMQ200MFV1	FXMQ250MFV1
Capacity	Cooling		kw	14.0	22.4	28.00
	Heating		kw	8.9	13.9	17.40
Power input	Cooling		kw	0.359	0.548	0.638
	Heating		kw	0.359	0.548	0.638
Dimensions	(Height x Width x Depth)		mm	470x744x1100	470x1380x1100	
Weight			kg	86	123	
Air Flow Rate	Cooling	Medium	m³/min	18.0	28.0	35.0
	Heating	Medium	m³/min	18.0	28.0	35.0
Refrigerant				-		
Power Supply				220-240V/50Hz		
Piping connections	Liquid (OD)/Gas/Drain		mm	9.5 / 15.9 / PS1B	9.5 / 19.1 / PS1B	9.5 / 22.2 / PS1B

ERX

Condensing Units for Air Handling Applications (pair)

A new range of R-410A inverter condensing units for pair application with air handling units.

- Inverter controlled units
- Large capacity range (from 71 to 140 class)
- Cooling only
- R-410A
- Flexible control possibilities:
  - Control x:
    control of air temperature (discharge temperature, suction temperature, room temperature) via external device
    (DDC controller)
  - Control y:
    control of evaporating temperature via Daikin control (no DDC controller needed)
  - Control z:
    control of air temperature (suction temperature, room temperature) via Daikin control (no DDC controller needed)
- Wide range of expansion valve kits available



COOLING ONLY

Outdoor unit				ERX100A9V1	ERX125A9V1	ERX140A9V1
Dimensions		HxWxD	mm	1,345x900x320		
Weight			kg	120		
Sound pressure level	cooling	nominal	dB(A)	50	51	53
Sound power level	cooling	nominal	dB(A)	66	67	69
Operation range	cooling	min-max	°CDB	-5 ~ 46		
Refrigerant type				R-410A		
Piping connections		liquid	mm	ø9.52		
		gas	mm	ø15.9		ø19.1
		drain	mm	ø26x3		
Piping length		max	m	50		
Power supply			V3	1 ~, 220-240V, 50Hz		

COOLING ONLY

Outdoor unit				ERX125AW1	ERX200AW1	ERX250AW1
Cooling capacity			kW	14.0	22.4	28.0
Power input			kW	3.52	5.56	7.42
EER				3.98	4.03	3.77
Casing	Colour			Daikin White		
	Material			Painted galvanized steel plate		
Dimensions	Unit	HxWxD	mm	1680x635x765	1680x930x765	1680x930x765
Weight	Unit		kg	157	185	238
Operation Range	Cooling	Min ~ Max	°CDB	-5.0 ~ 43.0	-5.0 ~ 43.0	-5.0 ~ 43.0
Sound level (nominal)	Sound power		dB(A)	72	78	78
	Sound pressure		dB(A)	54	57	58
Refrigerant	Type			R-410A	R-410A	R-410A
Piping Connections	Liquid	Diameter (OD)	mm	9.52	9.52	9.52
	Gas	Diameter (OD)	mm	15.9	19.1	22.2
Power Supply			W1	3N~, 50Hz, 400V		

COMBINATION TABLE

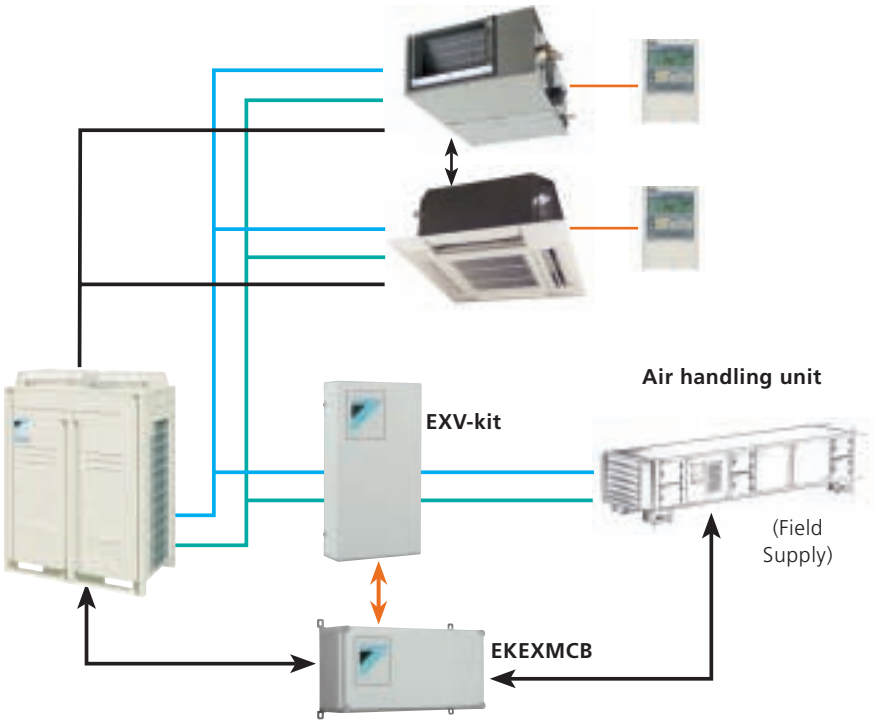
Outdoor unit		Control box		Expansion valve kit							Options
		control z	control x or y	class 63	class 80	class 100	class 125	class 140	class 200	class 250	Central drain kit
		EKEXDCBA	EKEXFCBA	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250	KKPJ5F180
1ph	ERX100A9V1	P	P	P	P	P	P	-	-	-	X
	ERX125A9V1	P	P	P	P	P	P	P	-	-	X
	ERX140A9V1	P	P	-	P	P	P	P	-	-	X
3ph	ERX125A9V1	-	-	P	P	P	P	P	-	-	-
	ERX200A9V1	P	P	-	-	P	P	P	P	P	-
	ERX250A9V1	P	P	-	-	-	P	P	P	P	-

P: Pair: Combination depending on air handling units coils volume.
x: Possibility to connect.

VRV® Air Handling Applications

A R-410A inverter condensing units range for multi application with air handling units.

- Inverter controlled units
- Large capacity range (from 5 to 18HP)
- Cooling only
- R-410A
- Control z:
  control of air temperature (suction temperature, room temperature) via Daikin control (no DDC controller needed)
- Large range of expansion valve kits available
- BRC1D52 is used to set the set point temperature (connected to the EKEXMCB).



COOLING ONLY

RXQ-P(A)				5	8	10	12	14	16	18
Capacity range			HP	5	8	10	12	14	16	18
Capacity	Cooling		kw	14.0	22.4	28.0	33.5	40.0	45.0	49.0
Power input (Nominal)	Cooling		kw	3.52	5.56	7.42	9.62	12.4	14.2	16.2
Dimensions	(Height x Width x Depth)		mm	1,680x635x765	1,680x930x765			1,680x1,240x765		
Weight			kg	157	185	238		315		323
Sound Level	Sound Power	Cooling	dBA	72	78		80			83
	Sound Pressure	Cooling	dBA	54	57	58	60			63
Air Flow Rate (nominal at 230V)	Cooling		m³/min	95	171	185	196	233		239
Operation Range	Cooling	Min~Max	°CDB	-5.0~43.0						
Refrigerant				R-410A						
Power Supply				3N~/400V/50Hz						
Max n° of indoor units to be connected				8	13	16	19	23	26	29
Piping connections	Liquid (OD)/Gas		mm	9.5 / 15.9	9.5 / 19.1	9.5 / 22.2	12.7 / 22.2	12.7 / 28.6		15.9 / 28.6

COMBINATION TABLE

Outdoor unit		Control box	Expansion valve kit							
		control z	class 50	class 63	class 80	class 100	class 125	class 140	class 200	class 250
		EKEXMCB	EKEXV50	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250
3ph	RXQ5P	X	X	X	X	X	X	X	X	X
	RXQ8P	X	X	X	X	X	X	X	X	X
	RXQ10P	X	X	X	X	X	X	X	X	X
	RXQ12P	X	X	X	X	X	X	X	X	X
	RXQ14PA	X	X	X	X	X	X	X	X	X
	RXQ16PA	X	X	X	X	X	X	X	X	X
	RXQ18PA	X	X	X	X	X	X	X	X	X

In order to realise maximum efficiency, commercial air conditioning systems must be subject to precise, 24 hour control.

Daikin manufactures and markets a complete suite of advanced computerised central control and monitoring systems designed to simplify air conditioning management and reduce energy usage running costs.

Daikin computerised control systems not only provide the highly sophisticated regulation and day to day monitoring necessary for modern, hi tech air conditioning installations – they also provide owners, landlords and tenants of commercial buildings with valuable performance data on consumption as well as a wide range of operating parameters.

Dedicated Daikin central control can be applied to both VRV® and mixed VRV®/Sky Air and Split installations with up to 1,024 indoor units and can also be integrated with building management systems.

Control Systems

Individual Control Systems


BRC1D527


BRC4*/BRC7*


BRC2C51


BRC3A61

BRC1D52

Wired remote control

- Limit operation (min/max): room temperature is controlled within adjustable upper and lower limits. Limit operation can be activated manually or by schedule timer
- Real time clock: indicates real time and day
- Schedule timer:
  - It is possible to programme a weekly schedule timer
  - It is possible to programme the remote control for each day of the week.
- Home leave (frost protection)
- Different levels of disabled buttons can be selected as follows:
  - Level 1: all buttons are accessible
  - Level 2: all buttons are disabled except for: ON/OFF, set temperature up/down, fan speed, cooling/heating mode, enable/disable schedule timer, air flow direction adjustment button
  - Level 3: all buttons are disabled except for: ON/OFF, set temperature up/down, fan speed
- User friendly HRV function, thanks to the introduction of a button for ventilation mode and fan speed
- Constantly monitoring of the system for malfunctions in a total of 80 components
- Immediate display of fault location and condition
- Reduction of maintenance time and costs

Operation buttons: ON/OFF, timer mode start/stop, timer on/off, programmed time, temperature setting, air flow direction adjustment, operating mode selection, fan speed control, filter sign reset, inspection test/operation

Display: Operating mode, Heat Recovery Ventilation (HRV) in operation, cool/heat changeover control, centralised control indication, group control indication, set temperature, air flow direction, programmed time, inspection/test operation, fan speed, clean air filter, defrost/hot start, malfunction

BRC4*/BRC7*

Infrared remote control

Operation buttons: ON/OFF, timer mode start/stop, timer mode on/off, programme time, temperature setting, air flow direction (FXHQ, FXFQ, FXCQ and FXAQ models only), operating mode, fan speed control, filter sign reset, inspection / test indication

Display: Operating mode, battery change, set temperature, air flow direction (FXHQ, FXFQ, FXCQ and FXAQ models only), programmed time, inspection/test operation, fan speed

BRC2C51

Simplified remote control

Simple, compact and easy to operate unit, suitable for use in hotel bedrooms

Operation buttons: ON/OFF, operating mode selection, fan speed control, temperature setting

Display: Cool/heat changeover control, Heat Recovery Ventilation (HRV) in operation, set temperature, operating mode, centralised control indication, fan speed, defrost/hot start, malfunction adjustment, operating mode selection, fan speed control, filter sign reset, inspection test/operation

BRC3A61

Simplified built-in remote control for hotel applications

Compact, user friendly unit, ideal for use in hotel bedrooms

Operation buttons: ON/OFF, fan speed control, temperature setting

Display: Heat Recovery Ventilation (HRV) in operation, set temperature, operating mode, centralised control indication, fan speed, defrost/hot start, malfunction

Centralised Control Systems

DCS302C51

DCS301B51

DST301B51

Centralised control of the VRV® system can be achieved via 3 user friendly compact controls: centralised remote control, unified on/off control and schedule timer. These controls may be used independently or in combination where 1 group = several (up to 16) indoor units in combination and 1 zone = several groups in combination.

A centralised remote control is ideal for use in tenanted commercial buildings subject to random occupation, enabling indoor units to be classified in groups per tenant (zoning).

The schedule timer programmes the schedule and operation conditions for each tenant and the control can easily be reset according to varying requirements.

DCS302C51

Centralised remote control

Providing individual control of 64 groups (zones) of indoor units.

- a maximum of 64 groups (128 indoor units, max. 10 outdoor units) can be controlled
- a maximum of 128 groups (128 indoor units, max. 10 outdoor units) can be controlled via 2 centralised remote controls in separate locations
- zone control
- group control
- malfunction code display
- maximum wiring length of 1,000m (total: 2,000m)
- air flow direction and air flow rate of HRV can be controlled
- expanded timer function

DCS301B51

Unified ON/OFF control

Providing simultaneous and individual control of 16 groups of indoor units.

- a maximum of 16 groups (128 indoor units) can be controlled
- 2 remote controls in separate locations can be used
- operating status indication (normal operation, alarm)
- centralised control indication
- maximum wiring length of 1,000m (total: 2,000m)

DST301B51

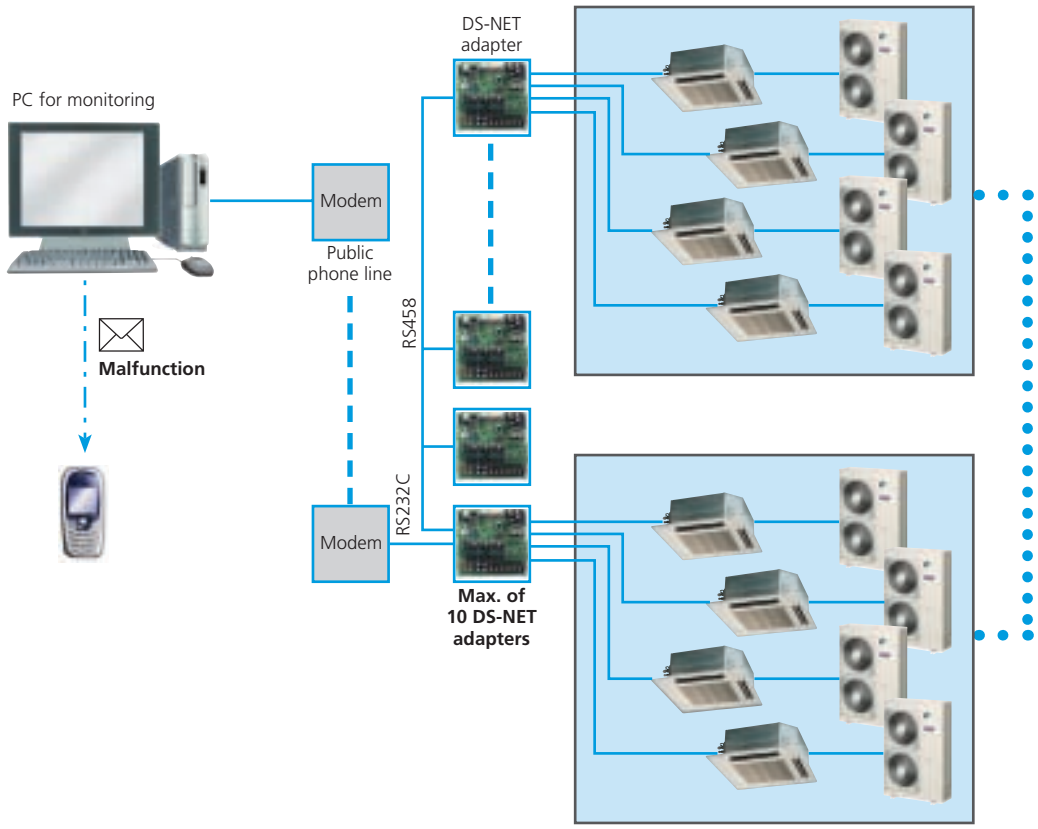
Schedule timer

Enabling 64 groups to be programmed.

- a maximum of 128 indoor units can be controlled
- 8 types of weekly schedule
- a maximum of 48 hours back up power supply
- a maximum wiring length of 1,000m (total: 2,000m)

Network Solutions

The ideal solution for control and management up to 2,000 Sky Air and/or VRV® indoor units



APPLICATION AREA

- A small commercial area of less than 40 indoor units.
- Critical applications for centralized monitoring.

SYSTEM LAYOUT

- Allows monitoring and control of up to up to 50 stores or sites and 2,000 indoor units with just one modem and phone line.
- Automates daily air conditioning operation in order to free users from the hassle of air conditioning operation/management.
- The daily schedule setting allows automatic operation afterward.
- Automates alarm (report messages) for any malfunctions / errors. Immediate report of any indoor unit breakdown to the servicing company.
- Automatic report of breakdown/ malfunction information.
- Minimizes the inconvenience of not having air conditioning via rapid messages

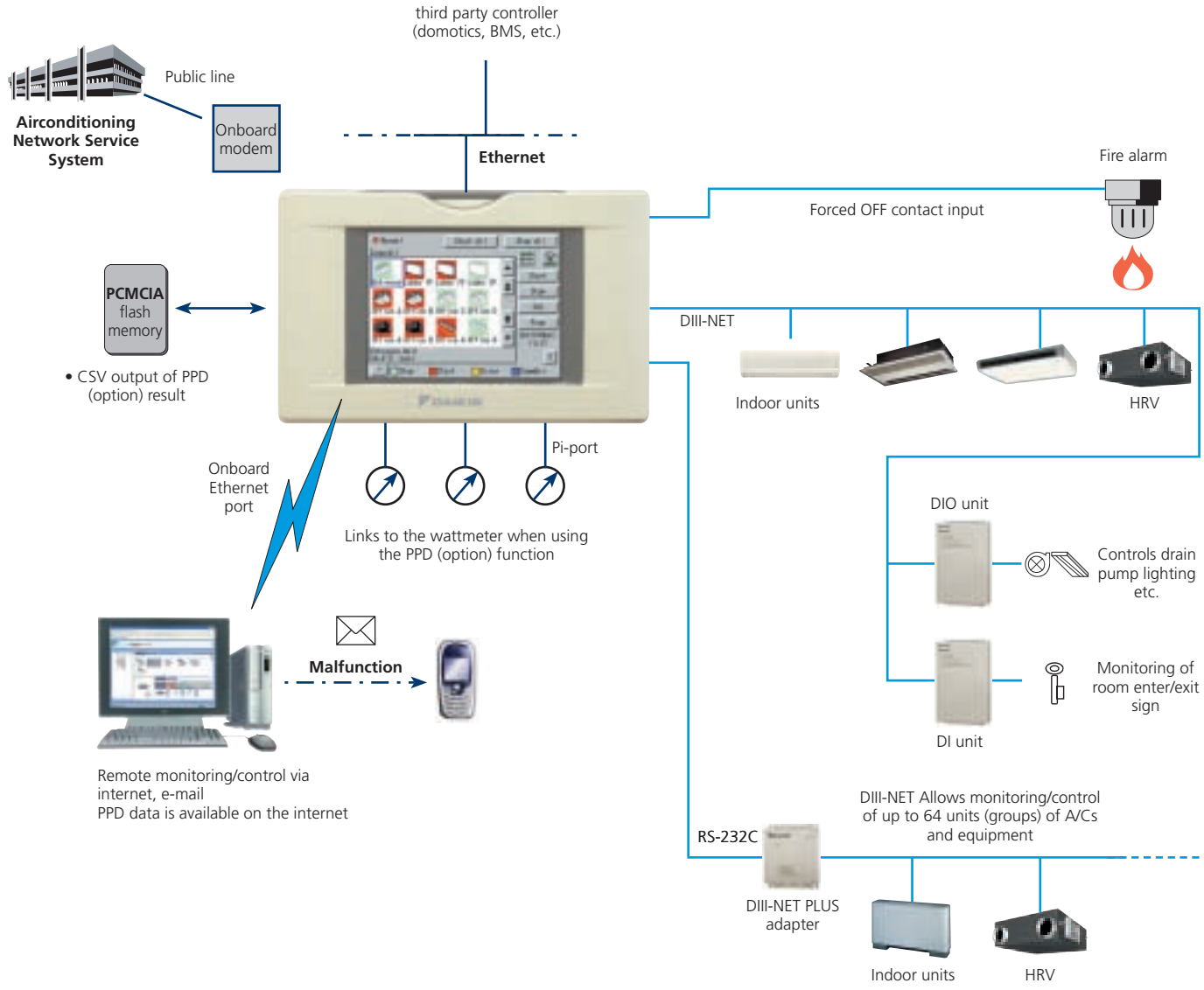
FUNCTIONS

- Schedule setup (Daily schedule)
  - Start/Stop
- Air conditioning malfunction report
  - Send message to monitoring system
- Manual operation
  - Start/Stop, Set temperature, Operation mode, Fan speed
- Status monitoring (Start/Stop, Set temperature, Operation mode, Room temperature, Operation time, Error code)

Network Solutions

intelligent touch Controller

Allows detailed & easy monitoring and operation of VRV® systems (max. 2 X 64 groups/indoor units).



LANGUAGES
- English
- French
- German
- Italian
- Spanish

SYSTEM LAYOUT
- Up to 2 x 64 indoor units can be controlled
- Onboard Ethernet port (web browser + e-mail)
- Digital i/o contacts (option)
- Touch panel (full colour LCD via icon display)

MANAGEMENT
- Web application & internet compatibility
- Monitoring & control according to user
- Remote monitoring & control of more than one building
- Remote monitoring & control of more than one building via internet
- Power Proportional Distribution: PPD (option)
- PPD data is available on the internet
- Easy management of electricity consumption
- Enhanced history function

CONTROL
- Individual control (set point, start/stop, fan speed) (max. 2 x 64 groups/indoor units)
- Enhanced scheduling function (8 schedules, 17 patterns)
- Flexible grouping in zones
- Yearly schedule
- Fire emergency stop control
- Interlocking control
- Increased HRV monitoring and control function
- Automatic cooling / heating change-over
- Heating optimization
- Temperature limit
- Password security: 3 levels (general, administration & service)
- Quick selection and full control
- Simple navigation

MONITORING
- Visualisation via Graphical User Interface (GUI)
- Icon colour display change function
- Indoor units operation mode
- Error messages via e-mail & mobile phone (option)
- Indication filter replacement
- Multi PC

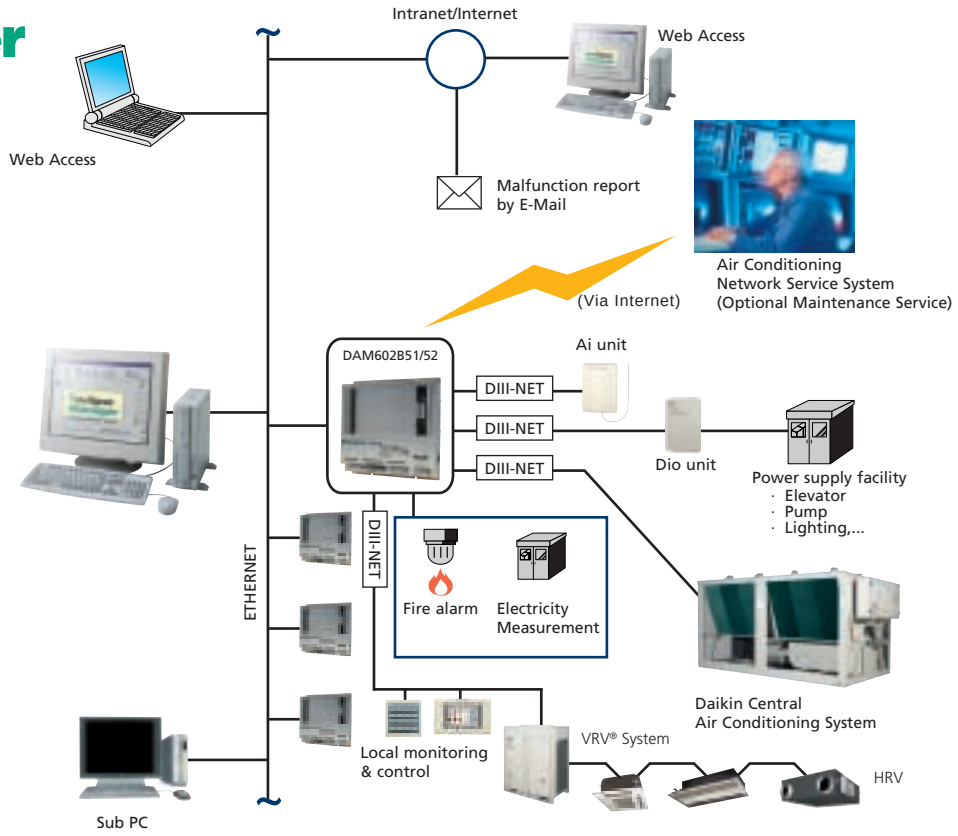
COST PERFORMANCE
- Labour saving
- Easy installation
- Compact design: limited installation space
- Overall energy saving

OPEN INTERFACE
- Communication to any third party controller (domotics, BMS, etc.) is possible via open interface

CONNECTABLE TO:
- VRV®
- HRV
- Sky Air (via interface adapter)
- Split (via interface adapter)

Intelligent Manager

The ideal solution for control and management of maximum 1,024 VRV® indoor units.



LANGUAGES

- English
- French
- German
- Italian
- Spanish

SYSTEM LAYOUT

- Up to 1,024 indoor units can be controlled (by 4 iPUs)
- Ethernet TCPIP / 10 base / T communication
- Integrated digital contacts on the Intelligent Processing Unit (iPU)
  · 20 general input ports
  · 2 digital outputs
- Stand alone operation of the iPU for minimum 48 hours
- Compatible with UPS shutdown software

MANAGEMENT

- Web access (option)
- Power Proportional Distribution (option)
- Operational history management (start/stop, malfunction, operation hours)
- Generation of reports (graphics & tables) (daily, weekly, monthly)
- Peak load shedding
- Advanced tenant management
- Sliding temperature
- Eco mode (option)

CONTROL

- Individual control (setpoint, start/stop, fan speed) (max. 1,024 indoor units)
- Group control (100 groups)
- Schedule control (128 programs)
- Fire emergency stop control (32 programs)
- Interlocking control
- Setpoint limitation
- Automatic cooling/heating change-over
- Power failure/release control
- Temperature limit (automatic start)
- Timer extension

MONITORING

- Visualisation via a Graphical User Interface (GUI) featuring free layout
- Operation mode of indoor units
- Fault indication
- Indication filter replacement
- Setpoint indication
- Operation time monitoring
- Multi PC
- On-line help

COST PERFORMANCE

- Labour saving
- Easy installation
- Compact design: limited installation space
- Overall energy saving

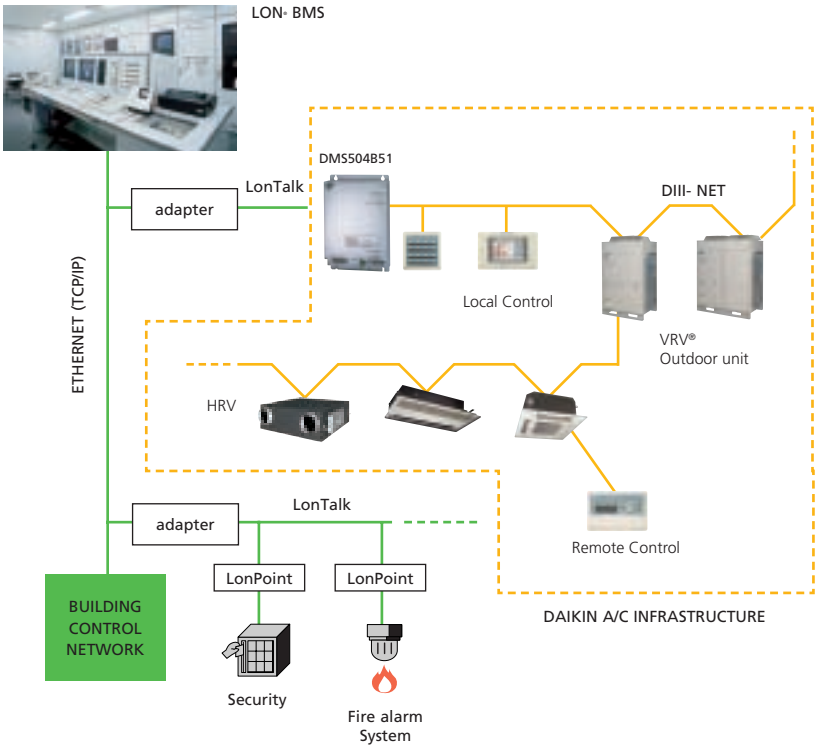
CONNECTABLE TO:

- VRV®
- HRV
- Sky Air (via interface adapter)
- Split (via interface adapter)

DMS-IF

LonWorks® Networks Compatible Gateway

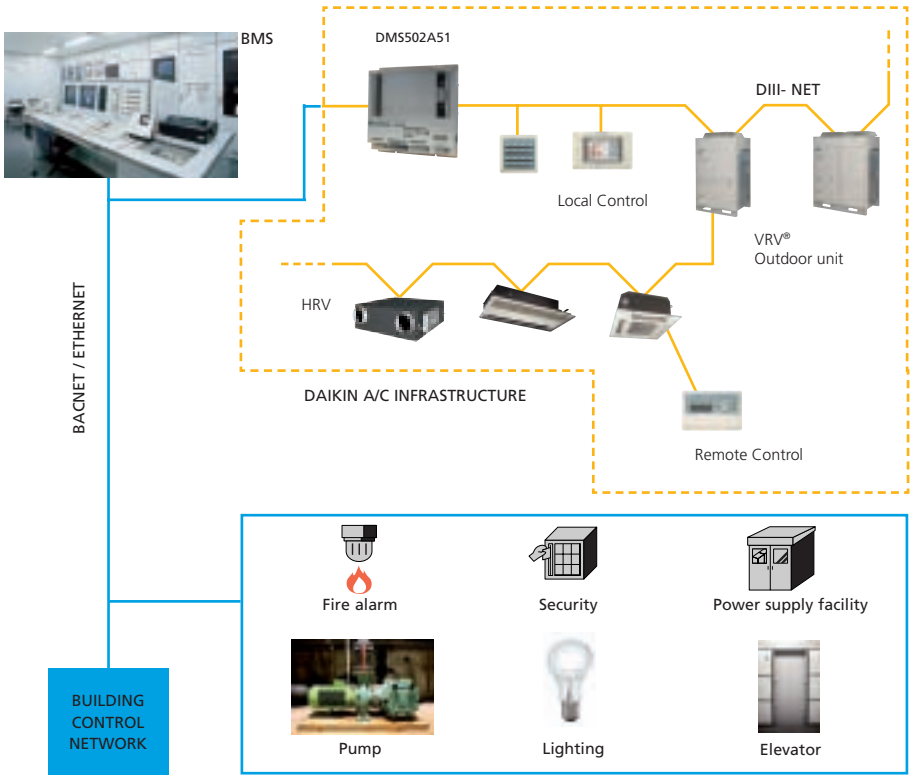
- Interface for Lon connection to LonWorks® networks
- Communication via Lon® protocol (twisted pair wire)
- 64 units connectable per DMS-IF
- Unlimited sitesize
- Quick and easy installation



BACnet Gateway

Integrated control system connecting VRV® system with BMS system

- PPDdata is available on BMS system
- Interface for BMS system
- Communication via BACnet protocol (connection via Ethernet)
- 256 units connectable per BACnet gateway
- Unlimited sitesize
- Easy and fast installation




DAIKIN

Precise environmental control is vital in many industrial and commercial applications. Daikin offers an outstanding range of powerful air cooled, water cooled and condenserless chiller systems that will maintain ideal conditions in even the largest premises. Daikin water chillers are of advanced design, compact and easy to install and maintain.

They prove flexible and effective in multiple process cooling applications in for example, fish farms, wine cellars, maritime transport, agricultural, pharmaceutical or industrial processes. When combined with air handling units or Daikin fan coil units of course, they are ideal for air conditioning offices, hotels, restaurants and even domestic premises.

Matched and flexible equipment/refrigerant combinations enable Daikin to offer a complete range of chillers, genuinely optimised for use with R-134a, R-407C and R-410A. All chiller components -evaporator, condenser, dryer, oil etc - have been specially selected for use with either R-407C, R-410A or R-134a refrigerants. The end result is a range of hi tech, high performance units, indicated by published EUROVENT data to be among the most energy efficient of their type on the market.

Advanced technology allied unsurpassed product reliability and quality, make Daikin chillers the first choice for professionals.

Applied Systems

EWAQ-AC
Air Cooled

- Inverter chiller
- Optimised for use with R-410A
- Daikin swing compressor
- Integrated hydronics
- No buffer tank needed
- Advanced control possibilities
- Precise temperature control
- Single phase power supply

EWAQ005AC

BRC1D52

COOLING ONLY

				005	006	007
Capacity	Cooling		kW	5.2	6.0	7.1
Nominal input	Cooling		kW	1.89	2.35	2.95
EER				2.75	2.55	2.41
Dimensions	(Height x Width x Depth)		mm	805x1,190x360		
Unit			kg	100		
Operating Weight			kg	104		
Water Heat Exchanger	Type			Brased plate		
	Minimum water volume in the system		l	10		
	Water flow rate	Min	l/min	12		
Air heat exchanger	Type			Tube type		
Expansion vessel	Volume		l	6		
			bar	1		
Sound Power		Cooling	dBA	48		50
Compressor	Type			Hermetically sealed swing compressor		
	Model	Quantity		1		
Refrigerant circuit	Refrigerant type			R-410A		
	Refrigerant charge		kg	1.7		
	No of circuits			1		
	Refrigerant control			Inverter		
Power Supply				1~/230V/50Hz		
Piping connections	Water heat exchanger inlet / outlet			1'' mbsp		
	Water heat exchanger drain			hose nipple 1/2'' fbsp		

EWYQ-AC

Air Cooled

- Inverter chiller
- Optimised for use with R-410A
- Daikin swing compressor
- Integrated hydronics
- No buffer tank needed
- Advanced control possibilities
- Precise temperature control
- Single phase power supply

EWYQ005AC

BRC1D52

HEAT PUMP

				005	006	007
Capacity	Cooling		kW	5.2	6.0	7.1
	Heating		kW	6.83	8.13	8.73
Nominal input	Cooling		kW	1.89	2.35	2.95
	Heating		kW	1.97	2.24	2.83
EER				2.75	2.55	2.41
COP				3.47	3.63	3.08
Dimensions	(Height x Width x Depth)		mm	805x1190x360		
Unit			kg	100		
Operating Weight			kg	104		
Water Heat Exchanger	Type			Brased plate		
	Minimum water volume in the system		l	10		
	Water flow rate	Min	l/min	12		
Air heat exchanger	Type			Tube type		
Expansion vessel	Volume		l	6		
			bar	1		
Sound Power		Cooling	dBA	48		50
		Heating	dBA	48		49
Compressor	Type			Hermetically sealed swing compressor		
	Model	Quantity		1		
Refrigerant circuit	Refrigerant type			R-410A		
	Refrigerant charge		kg	1.7		
	No of circuits			1		
	Refrigerant control			Inverter		
Power Supply				1~/230V/50Hz		
Piping connections	Water heat exchanger inlet / outlet			1'' mbsp		
	Water heat exchanger drain			hose nipple 1/2'' fbsp		

EUWA-KAZW

Air Cooled

- Optimised for use with R-407C
- Daikin scroll compressor
- Reduced installation time thanks to integrated pump and/or buffer tank
- Possibility for a 200 l buffer tank (KAZ-series)
- Low operating sound level
- Improved serviceability
- Main switch
- Water flow switch
- 3 different design options available
- EUWAN chiller without integrated hydraulic module
- EUWAP chiller with integrated hydraulic module (pump, expansion vessel, hydraulic components)
- EUWAB chiller with integrated hydraulic module (buffer tank, pump, expansion vessel, hydraulic components)

EUWAN16KAZW

MICRO CHILLER

COOLING ONLY

				N5	P5	B5	N8	P8	B8	N10	P10	B10	N12	P12	B12	N16	P16	B16	N20	P20	B20	N24	P24	B24
Capacity	Cooling		kW	11.30			17.90			22.50			26.50			37.00			46.60			55.30		
Nominal input	Cooling		kW	4.64	4.52	4.64	7.39	7.38	7.39	8.74	8.79	8.74	11.50			15.00	15.20	15.00	17.90	18.10	17.90	24.00		
EER				2.44	2.5	2.44	2.42	2.43	2.42	2.57	2.56	2.57	2.3			2.47	2.43	2.47	2.6	2.57	2.6	2.3		
Capacity Steps			%	0-100						0-100						0-50-100						0-50-100		
Dimensions	(Height x Width x Depth)		mm	1,230x1,290x734						1,450x1,290x734						1,321x2,580x734			1,541x2,580x734			1,541x2,580x734		
Unit			kg	150	168	180	215	229	241	245	259	271	248	262	274	430	448	446	490	508	520	496	514	526
Operating Weight			kg	152	171	239	218	232	300	248	262	330	251	265	335	436	457	525	496	518	586	503	524	592
Water Heat Exchanger	Type			Brased plate																				
	Minimum water volume in the system		l	54			85			108			126			88			111			132		
	Water flow rate	Min	l/min	16			26			32			38			53			67			79		
		Nominal	l/min	32			51			64			76			106			134			158		
		Max	l/min	65			102			129			152			212			267			317		
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins																				
Buffer tank volume	Volume		l	-		55	-		55	-		55	-		55	-		55	-		55	-		55
Sound Power		Cooling	dBA	67			76			78						79			81					
Compressor	Type			Hermetically sealed scroll compressor																				
	Model	Quantity		1												2								
Refrigerant circuit	Refrigerant type			R-407C																				
	Refrigerant charge		kg	3.9			4.6						6.0			4.6			5.9			6.0		
	No of circuits			1												2								
	Refrigerant control			Thermostatic expansion valve																				
Power Supply				3N~/400V/50Hz																				
Piping connections	Evaporator water inlet/outlet			1-1/4''15 mm												2''15 mm								

EUWY-KAZW

Air Cooled

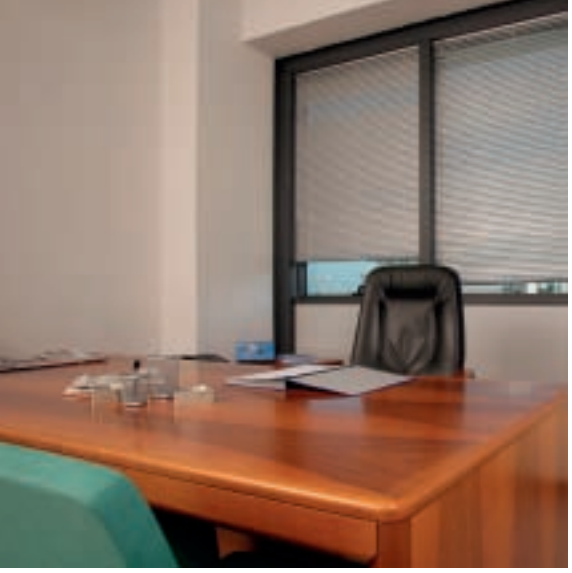
- Optimised for use with R-407C
- Daikin scroll compressor
- Reduced installation time thanks to integrated pump and/or buffer tank
- Possibility for a 200 l buffer tank (KAZ-series)
- Low operating sound level
- Improved serviceability
- Main switch
- Water flow switch
- 3 different design options available
- EUWYN chiller without integrated hydraulic module
- EUWYP chiller with integrated hydraulic module (pump, expansion vessel, hydraulic components)
- EUWYB chiller with integrated hydraulic module (buffer tank, pump, expansion vessel, hydraulic components)

EUWYN16KAZW

MICRO CHILLER

HEAT PUMP

				N5	P5	B5	N8	P8	B8	N10	P10	B10	N12	P12	B12	N16	P16	B16	N20	P20	B20	N24	P24	B24
Capacity	Cooling		kW	9.10			17.10			21.00			25.00			34.20			40.00			50.00		
	Heating		kW	11.90			18.50			24.00			27.00			37.00			46.00			54.00		
Nominal input	Cooling		kW	3.78			7.45	7.46		8.57			11.40			14.90			16.30			22.80		
	Heating		kW	4.59			7.10			9.10			10.80			14.20			17.40			21.60		
EER				2.41			2.3	2.29		2.45			2.19			2.3			2.45			2.19		
COP				2.59			2.61			2.64			2.5			2.61			2.64			2.5		
Capacity Steps			%	0-100												0-50-100								
Dimensions	(Height x Width x Depth)		mm	1,230x1,290x734						1,450x1,290x734						1,321x2,580x734			1,541x2,580x734					
Unit			kg	163	181	193	227	241	253	258	272	284	258	272	284	455	473	485	516	534	546	516	534	546
Operating Weight			kg	165	184	252	230	244	312	261	275	343	261	275	343	461	482	550	522	544	612	522	544	612
Water Heat Exchanger	Type			Brased plate																				
	Minimum water volume in the system		l	43			82			100			119			82			96			119		
	Water flow rate	Min	l/min	21			31			38			45			61			72			89		
		Max	l/min	68			106			137			155			212			263			309		
	Nominal Water Flow	Cooling	kPa	10			25			24			33			12						19		
		Heating	kPa	17			29			31			38			14			16			22		
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins																				
Buffer tank volume	Volume		l	-		55	-		55	-		55	-		55	-		55	-		55	-		55
Sound Power		Cooling	dBA	67			76			78						79			81					
Compressor	Type			Hermetically sealed scroll compressor																				
	Model	Quantity		1												2								
Refrigerant circuit	Refrigerant type			R-407C																				
	Refrigerant charge		kg	4.6			4.7			5.4						10.2			10.8			11.2		
	No of circuits			1												2								
	Refrigerant control			Thermostatic expansion valve																				
Power Supply				3N~/400V/50Hz																				
Piping connections	Evaporator water inlet/outlet			1-1/4''15mm												2''15mm								



EWAQ-DAYN

Air Cooled

EWAQ130-150DAYN

PCASO

- Wide capacity range: 80 to 260kW with 8 cooling only models
- R-410A refrigerant
- Multiple refrigerant circuits and multiple compressors per circuit
- Reliable and efficient scroll with high EER values
- Good part load efficiency (seasonal EER)
- Anti-corrosion treated aluminium coils
- Low operating noise levels
- Easy 'plug and play' installation
- Unit dimensions allow easy transport
- Fans protected against abnormal operation (4 - 8 fans depending on unit size)
- Safety valves in each circuit
- Electronic circuit breakers
- Electronic expansion valve
- True dual plate brazed plate heat exchanger
- Sight glass
- All hydronics can be accessed easily from 3 sides (no surrounding cabinet)
- Separate switchbox for easy access
- Compressors and controls at side of unit
- Increased reliability via 2 independent refrigerant circuits
- Double circuit heat exchanger (from >100 kW)
- Non hermetic filter/dryer
- New Daikin controller (Pcaso) with user friendly and powerful LCD interface

COOLING ONLY

				080	100	130	150	180	210	240	260
Capacity	Cooling		kW	80	105	131	152	182	209	236	254
Nominal input	Cooling		kW	26.4	36.2	46.6	56.3	64.5	74.6	82.8	94.0
EER				3.03	2.90	2.81	2.70	2.82	2.80	2.85	2.70
Capacity Steps			%	0-50-100		0-25-50-75-100		21/29-43/50/57-71/79-100	0-25-50-75-100	22/28-40/50/56-72/78-100	0-25-50-75-100
Dimensions	(Height x Width x Depth)		mm	2,311x2,000x2,566		2,311x2,000x2,631		2,311x2,000x3,081		2,311x2,000x4,850	
Unit			kg	1,350	1,400	1,500	1,550	1,800	1,850	3,150	3,250
Operating Weight			kg	1,315	1,415	1,517	1,569	1,825	1,877	3,189	3,292
Water Heat Exchanger	Type			Brased plate							
	Minimum water volume in the system		l	358	470	295	341	408	468	529	569
	Water flow rate	Min	l/min	115	151	188	218	261	300	339	364
		Max	l/min	459	602	754	871	1,043	1,198	1,355	1,456
	Nominal Water Flow	Cooling	kPa	59	58	52	49	52	53	51	47
Air heat exchanger	Type			Cross fin coil / Hi-Xss tubes and PE coated							
Sound Power		Cooling	dBA	86		88	89	90		91	
Compressor	Type			Scroll compressor							
	Model	Quantity		2		4		2	4	2	4
Refrigerant circuit	Refrigerant type			R-410A							
	Refrigerant charge		kg	33		19	25	29	28	39	
	No of circuits			1		2					
	Refrigerant control			Electronic expansion valve							
Power Supply				3~/400V/50Hz							
Piping connections	Water heat exchanger inlet / outlet			3"od						3"	
	Water heat exchanger drain			1/2"g							

EWYQ-DAYN

Air Cooled

EWYQ130-150DAYN

PCASO

- Wide capacity range: 80 to 250kW with 8 heat pump models
- R-410A refrigerant
- Multiple refrigerant circuits and multiple compressors per circuit
- Reliable and efficient scroll with high EER values
- Good part load efficiency (seasonal EER)
- Anti-corrosion treated aluminium coils
- Low operating noise levels
- Easy 'plug and play' installation
- Unit dimensions allow easy transport
- Fans protected against abnormal operation (4 - 8 fans depending on unit size)
- Safety valves in each circuit
- Electronic circuit breakers
- Electronic expansion valve
- True dual plate brazed plate heat exchanger
- Sight glass
- All hydronics can be accessed easily from 3 sides (no surrounding cabinet)
- Separate switchbox for easy access
- Compressors and controls at side of unit
- Increased reliability via 2 independent refrigerant circuits
- Double circuit heat exchanger (from >100 kW)
- Non hermetic filter/dryer
- New Daikin controller (Pcaso) with user friendly and powerful LCD interface

HEAT PUMP

				080	100	130	150	180	210	230	250
Capacity	Cooling		kW	77	100	136	145	183	211	231	252
	Heating		kW	87.7	114	149	165	199	225	258	281
Nominal input	Cooling		kW	26.5	36.2	47.6	55.7	63.8	75.3	82.2	93.5
	Heating		kW	30.0	38.1	49.6	58.8	68.0	77.0	84.2	96.6
EER				2.91	2.76	2.86	2.6	2.87	2.8	2.81	2.70
COP				2.92	2.99	3	2.81	2.93	2.92	3.06	2.91
Capacity Steps			%	0-50-100		0-25-50-75-100		21/29-43/50/57-71/79-100	0-25-50-75-100	22/28-44/50/56-72/78-100	0-25-50-75-100
Dimensions	(Height x Width x Depth)		mm	2,311x2,000x2,566		2,311x2,000x2,631		2,311x2,000x3,081		2,311x2,000x4,850	
Unit			kg	1,400	1,450	1,550	1,600	1,850	1,900	3,200	3,300
Operating Weight			kg	1,415	1,465	1,567	1,619	1,875	1,927	3,239	3,342
Water Heat Exchanger	Type			Brased plate							
	Minimum water volume in the system		l	393	511	334	370	446	504	578	629
	Water flow rate	Min	l/min	110	143	195	208	262	302	331	361
		Max	l/min	503	654	854	946	1,141	1,290	1,479	1,611
	Nominal Water Flow	Cooling	kPa	36		43	38	41	44	39	38
Air heat exchanger	Type			Cross fin coil / Hi-Xss tubes and PE coated							
Sound Power		Cooling	dBA	86		88	89	90		91	
Compressor	Type			Scroll compressor							
	Model	Quantity		2		4		2	4	2	4
Refrigerant circuit	Refrigerant type			R-410A							
	Refrigerant charge		kg	33	37	22		32		39	
	No of circuits			1		2					
	Refrigerant control			Electronic expansion valve							
Power Supply				3~/400V/50Hz							
Piping connections	Water heat exchanger inlet / outlet			3"od						3"	
	Water heat exchanger drain			1/2"g							

EUWAC-FZW

Air Cooled

- Optimised for use with R-407C
- Daikin scroll compressor
- Electronic DDC controller
- Standard phase sequence controller
- High static pressure (up to 150Pa)
- Pressure gauges
- Standard operation range down to -10°C
- Regulating switch
- Water inlet or outlet temperature control
- Input contacts / available outputs
- Input: ON/OFF (per circuit), Pump/flow switch
- Output: compressor operation, summary alarm, pump relay contact

EUWAC8FZW1

MICRO CHILLER

COOLING ONLY

				5	8	10
Capacity	Cooling		kW	11.60	18.40	23.80
Nominal input	Cooling		kW	5.25	7.78	9.85
EER				2.21	2.37	2.42
Capacity Steps			%	100-0		
Dimensions	(Height x Width x Depth)		mm	1,345x856x630	1,290x1,180x630	1,395x1,330x630
Unit			kg	164	224	261
Operating Weight			kg	166	228	266
Water Heat Exchanger	Type			Brased plate, one per circuit		
	Minimum water volume in the system		l	101	153	212
	Water flow rate	Min	l/min	16	23	28
		Nominal	l/min	33	53	68
		Max	l/min	64	92	112
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins		
Sound Power		Cooling	dBA	63	66	69
Compressor	Type			Hermetically sealed scroll compressor		
	Model	Quantity		1		
Refrigerant circuit	Refrigerant type			R-407C		
	Refrigerant charge		kg	2.1	3.9	4.7
	No of circuits			1		
	Refrigerant control			Thermostatic expansion valve		
Power Supply				3N~/400V/50Hz		
Piping connections	Evaporator water inlet/outlet			fbsp 1"field installation		

EWAD-MBYN

Air Cooled

- All models are PED pressure vessel approved
- Daikin semi-hermetic single screw stepless compressor
- Optimised for use with R-134a
- Advanced pCO² DDC controller
- Standard operation range down to -15°C ambient
- High quality, anti-corrosion treated components as standard
- Reverse phase protection as standard
- Moisture indicator as standard
- Victaulic joints as standard
- Flow switch as standard
- Low operating sound level - extra low noise option available
- DICN (Daikin Integrated Chiller Network) operation as standard within same series
- Evaporator heater tape as standard on all units
- Double refrigeration circuit (from 240kW on)
- Chilled water temperatures down to -10°C on standard unit (parameter in the service menu of the pCO² digital controller must be set by the installer)
- Hi-esp fans (up to 150Pa) available as option
- High energy efficiency ratio

EWAD170MBYN

pCO²

COOLING ONLY

					120	150	170	240	300	340	380	460	520	600
Capacity					121	149	171	226	286	330	372	449	525	605
Nominal input	Cooling			kW	41.1	54.1	64.9	83.7	105	136	130	170	210	263
EER					2.94	2.75	2.63	2.7	2.72	2.43	2.86	2.64	2.5	2.3
Capacity Steps				%	30-100			15-100						
Dimensions	(Height x Width x Depth)			mm	2,221x3,973x1,109			2,250x4,280x2,238			2,250x5,901x2,238			
Unit				kg	1,391	1,600	1,705	2,710	3,210	3,260	5,335	5,595	5,775	5,855
Operating Weight				kg	1,441	1,663	1,768	2,790	3,340	3,390	5,497	5,779	5,959	6,039
Water Heat Exchanger	Type				Shell and tube									
	Minimum water volume in the system			l	590	730	840	550	700	810	910	1,100	1,280	1,480
	Water flow rate	Min		l/min	150	200		300	395		540	640		870
		Max		l/min	490	725		930	1,165		1,580	1,880		
	Nominal Water Flow	Cooling		kPa	40.1	18.6	24.8	41	36.6	49.1	20.8	25.6	35.1	46.6
Air heat exchanger	Type				Cross fin coil/Hi-X tubes and PE coated waffle louvre fins									
Sound Power		Cooling		dBA	87	94	92	90	97	95	97	98	100	101
Compressor	Type				Semi-hermetic single screw compressor									
	Model	Quantity			1			2						
Refrigerant circuit	Refrigerant type				R-134a									
	Refrigerant charge			kg	26	37	42	30	41	44	65	70		
	No of circuits				1			2						
	Refrigerant control				Thermostatic expansion valve						Electronic expansion valve			
Power Supply					3~/400V/50Hz									
Piping connections	Evaporator water inlet/outlet				3" vic 1/2" g-f uni-iso 228/1	4" victaulic coupling 1/2" g-f uni-iso 228/1			5" victaulic coupling 1/2" g-f uni-iso 228/1		6" victaulic coupling 1/2" g-f uni-iso 228/1			

EWAD-AJYNN

Air Cooled

- Stepless single-screw compressor
- Optimised for use with R-134a
- 2 truly independent refrigerant circuits
- Standard anti-corrosion treated
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Fitted standard with evaporator heater tape
- Condenser protection grilles are available throughout the whole range
- All models are PED pressure vessel approved
- Partial and total heat recovery option available

EWAD-AJYNN

pCO²

COOLING ONLY

				190	200	230	260	280	300	320	340	360	400	440	480	500	550	600
Capacity	Cooling		kW	184.0	197.8	225.0	245.0	261.0	275.0	298.4	321.0	370.0	401.3	451.0	478.7	510.1	551.0	588.0
Nominal input	Cooling		kW	81.3	79.6	84.6	93.5	101.3	108.3	119.4	123.4	133.4	155.7	167.0	177.6	186.9	195.6	202.9
EER				2.26	2.48	2.66	2.62	2.58	2.54	2.50	2.60	2.77	2.58	2.70	2.69	2.73	2.82	2.90
Capacity Steps			%	12.5 - 100														
Dimensions	(Height x Width x Depth)		mm	2,340x2,235x2,240		2,340x2,235x3,140					2,340x2,235x4,040		2,340x2,235x3,140	2,340x2,235x4,040				
Unit			kg	2,380	2,466	2,766		2,806	2,846		3,166	3,186	3,552	3,932	3,997	4,052	4,092	4,122
Operating Weight			kg	2,405	2,497	2,859		2,896	2,936		3,279	3,299	3,680	4,102	4,161	4,216	4,252	4,282
Water Heat Exchanger	Type			Plate to plate heat exchanger		Shell and tube												
	Minimum water volume in the system		l	25	31	93		90			113		128	170	164		160	
	Water flow rate	Min	l/min	311	374	327	333	361	368		503	512	920.32	1,240.87	1,317.08	1,403.20	1,516.00	1,617.81
		Nominal	l/min	527	567	645	702	748	788	855	920	1,061	1,150.41	1,292.57	1,371.96	1,461.67	1,579.17	1,685.22
		Max	l/min	985	1,182	1,033	1,053	1,141	1,162	1,164	1,590	1,618	1,380.49	1,551.09	1,646.35	1,754.00	1,895.01	2,022.26
Air heat exchanger	Type			Grooved tubes and ALU coated louvred fins														
Sound Power		Cooling	dBA	75								77.5	76.5	77.0			78.5	79.0
Compressor	Type			Semi-hermetic single screw compressor														
	Model	Quantity		2		1	2	1	2	1	2		1	2	1	2	1	2
Refrigerant circuit	Refrigerant type			R-134a														
	Refrigerant charge		kg	44	60			70	80				70	80	78	76		
	No of circuits			2														
Power Supply				3~/400V/50Hz														
Piping connections	Evaporator water inlet/outlet			3''1/2'' gas		4''1/2'' gas							1/2'' gas					

EWAD-AJYNN/A

Air Cooled

- High efficiency
- Stepless single-screw compressor
- Optimised for use with R-134a
- 2 truly independent refrigerant circuits
- Standard anti-corrosion treated
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Fitted standard with evaporator heater tape
- Condenser protection grilles are available throughout the whole range
- All models are PED pressure vessel approved
- Partial and total heat recovery option available

EWAD-AJYNN/A

pCO²

COOLING ONLY

				260	280	320	340	360	380	420	500	550	600	650
Capacity	Cooling		kW	247.0	275.0	301.5	327.0	351.0	376.0	401.0	501.4	531.5	582.2	626.6
Nominal input	Cooling		kW	79.2	87.3	94.2	103.8	112.8	120.2	127.5	160.6	170.9	183.5	195.4
EER				3.12	3.15	3.20	3.15	3.11	3.13	3.15	3.12	3.11	3.17	3.21
Capacity Steps			%	12.5 - 100										
Dimensions	(Height x Width x Depth)		mm	2,340x2,235x3,140	2,340x2,235x4,040							2,340x2,235x4,940		
Unit			kg	2,866	3,186	3,286	3,366	3,376	3,321	3,386	4,252	4,642	4,652	
Operating Weight			kg	2,959	3,299	3,399	3,530	3,535	3,480	3,545	4,515	4,905	4,908	
Water Heat Exchanger	Type			Shell and tube										
	Minimum water volume in the system		l	93	113		164	159			263		256	
	Water flow rate	Min	l/min	373	489	495	537	586	593	598	1,152.09	1,221.25	1,337.75	1,439.77
		Nominal	l/min	708	788	864	937	1,006	1,078	1,150	1,440.11	1,526.57	1,672.19	1,799.71
		Max	l/min	1,180	1,546	1,565	1,697	1,853	1,876	1,890	1,728.14	1,831.88	2,006.63	2,159.66
Air heat exchanger	Type			Grooved tubes and ALU coated louvred fins										
Sound Power		Cooling	dBA	77.5					80		79.0			
Compressor	Type			Semi-hermetic single screw compressor										
	Model	Quantity		2	1	2	1	2	1	2	1	2	1	2
Refrigerant circuit	Refrigerant type			R-134a										
	Refrigerant charge		kg	80		100	110		95	110	80	104		
	No of circuits			2										
Power Supply				3~/400V/50Hz										
Piping connections	Evaporator water inlet/outlet			4''1/2'' gas							1/2'' gas			

EWAD-AJYNN/H

Air Cooled

- High ambient
- Stepless single-screw compressor
- Optimised for use with R-134a
- 2 truly independent refrigerant circuits
- Standard anti-corrosion treated
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Fitted standard with evaporator heater tape
- Condenser protection grilles are available throughout the whole range
- All models are PED pressure vessel approved
- Partial and total heat recovery option available

EWAD-AJYNN/H

pCO²

COOLING ONLY

				200	210	240	260	280	300	320	340	400	420	460	480	500	550	600
Capacity	Cooling		kW	194.6	208.3	233.5	256.1	273.7	289.3	306.4	335.6	381.2	426.0	468.1	502.1	529.5	561.0	600.4
Nominal input	Cooling		kW	77.2	75.6	83.0	91.0	97.8	103.9	112.1	120.3	127.4	146.5	160.3	170.8	180.1	192.2	198.4
EER				2.52	2.76	2.81		2.80	2.78	2.73	2.79	2.99	2.91	2.92	2.94		2.92	3.03
Capacity Steps			%	12.5 - 100														
Dimensions	(Height x Width x Depth)		mm	2,340x2,235x2,240		2,340x2,235x3,140					2,340x2,235x4,040			2,340x2,235x4,940				
Unit			kg	2,380	2,466	2,766		2,806	2,846		3,166	3,186	3,942	4,202	4,277	4,332	4,392	4,402
Operating Weight			kg	2,405	2,497	2,859		2,896	2,936		3,279	3,299	4,112	4,372	4,441	4,496	4,552	4,562
Water Heat Exchanger	Type			Plate to plate heat exchanger		Shell and tube												
	Minimum water volume in the system		l	25	31	93		90			113		170		164		160	
	Water flow rate	Min	l/min	314	378	331	337	366	369	373	507	518	976.74	1,073.26	1,151.22	1,214.04	1,286.27	1,376.60
		Nominal	l/min	558	597	669	734	785	829	878	962	1,093	1,220.92	1,341.58	1,439.03	1,517.55	1,607.83	1,720.75
		Max	l/min	994	1,194	1,045	1,065	1,157	1,167	1,179	1,603	1,638	1,465.11	1,609.90	1,726.83	1,821.07	1,929.40	2,064.90
Air heat exchanger	Type			Grooved tubes and ALU coated louvred fins														
Sound Power		Cooling	dBA	-								80	77.0	77.5			79.0	79.5
Compressor	Type			Semi-hermetic single screw compressor														
	Model	Quantity		2		1	2	1	2	1	2		1	2	1	2	1	2
Refrigerant circuit	Refrigerant type			R-134a														
	Refrigerant charge		kg	44	60			70	80				76	86	95	104		
	No of circuits			2														
Power Supply				3~/400V/50Hz														
Piping connections	Evaporator water inlet/outlet			1/2" gas														

EWAD-AJYNN/Q

Air Cooled

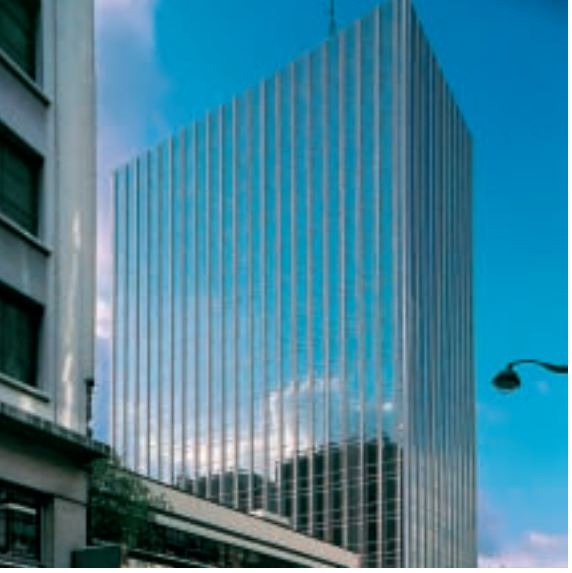
- Standard efficiency extra low noise
- Stepless single-screw compressor
- Optimised for use with R-134a
- 2 truly independent refrigerant circuits
- Standard anti-corrosion treated
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Fitted standard with evaporator heater tape
- Condenser protection grilles are available throughout the whole range
- All models are PED pressure vessel approved
- Partial and total heat recovery option available

EWAD-AJYNN/Q

pCO²

COOLING ONLY

				210	240	260	280	300	320	340	400	440	460	500
Capacity	Cooling		kW	203.0	231.1	252.7	270.8	286.1	299.4	308.8	400.5	428.5	458.4	500.8
Nominal input	Cooling		kW	79.8	85.2	93.7	104.5	114.5	126.1	136.3	156.0	173.8	182.4	189.9
EER				2.54	2.71	2.70	2.59	2.50	2.37	2.27	2.57	2.47	2.51	2.64
Capacity Steps			%	12.5 - 100										
Dimensions	(Height x Width x Depth)		mm	2,340x2,235x3,140	2,340x2,235x4,040								2,340x2,235x4,940	
Unit			kg	3,046	3,366	3,466	3,546	3,556			3,567	3,722	3,912	3,972
Operating Weight			kg	3,136	3,479	3,579	3,710	3,715			3,737	3,892	4,076	4,136
Water Heat Exchanger	Type			Shell and tube										
	Minimum water volume in the system		l	90	113		164	159			170		164	
	Water flow rate	Min	l/min	364	474	483	518	566	572	571	918.27	982.47	1,051.02	1,148.24
		Nominal	l/min	582	662	724	776	820	858	885	1,147.84	1,228.09	1,313.78	1,435.30
		Max	l/min	1,152	1,500	1,527	1,637	1,790	1,809	1,807	1,377.41	1,473.70	1,576.54	1,722.36
Air heat exchanger	Type			Grooved tubes and ALU coated louvred fins										
Sound Power		Cooling	dBA	65									65.5	66.0
Compressor	Type			Semi-hermetic single screw compressor										
	Model	Quantity		2	1	2	1	2	1	2	1	2	1	2
Refrigerant circuit	Refrigerant type			R-134a										
	Refrigerant charge		kg	80		100	110				72	80	83	86
	No of circuits			2										
Power Supply				3~/400V/50Hz										
Piping connections	Evaporator water inlet/outlet			1/2'' gas										



EWYD-AJYNN

Air Cooled

- Cooling function available on demand
- Doubling up of major components provides the equivalent of two chiller units in one base frame
- Excellent EER and COP values
- Extremely low operating noise during part load cycles
- No electric current surge
- No gas boiler required
- Optimized defrost cycles
- Optimum ESEER values
- Partial heat recovery available
- PID microprocessor control
- Power factor up to 0.95
- Rapid set-point achievement
- Significant savings in installation costs
- Substantial cost savings compared to a traditional gas boiler installation
- Twin independent refrigerating circuits ensure operational back up and unit reliability
- Wide operating range

EWYD-AJYNN

pCO²

HEAT PUMP

				260	280	300	320	340	360	380
Capacity	Cooling		kW	255	275	298	321	343	368	385
	Heating		kW	274	306	330	341	361	397	412
Nominal input	Cooling		kW	89.8	99.3	108	116	123	132	142
	Heating		kW	89.5	99.1	108	117	123	131	139
EER				2.84	2.77	2.76	2.77	2.79		2.71
COP				3.06	3.09	3.06	2.91	2.93	3.03	2.96
Dimensions	(Height x Width x Depth)		mm	2,335x2,254x3,547			2,335x2,254x4,783			
Unit			kg	3,370			4,020			
Operating Weight			kg	3,500			4,150			
Water Heat Exchanger	Type			Shell and tube						
	Nominal Water Flow	Cooling	kPa	60	65	74	50	53	60	65
		Heating	kPa	69	79	90	56	58	69	74
Air heat exchanger	Type			Grooved tubes and ALU coated louvred fins						
Sound Power		Cooling	dBA	73.7			74.1			
		Heating	dBA	76.1			76.3			
Compressor	Type			Semi-hermetic single screw compressor						
	Model	Quantity		2						
Refrigerant circuit	Refrigerant type			R-134a						
	Refrigerant charge		kg	76		84	96	104		
	No of circuits			2						
Power Supply				3~/400V/50Hz						
Piping connections	Evaporator water inlet/outlet			5"						

EWAD-BJYNN

Air Cooled

- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 640–1,772kW
- EER range up to 2.93
- 2-3-4 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Several operating sound levels down to 100dB
- Partial and total heat recovery option available

EWAD-BJYNN

pCO²

COOLING ONLY

					650	700	750	850	900	950	C10	C11	C12	C13	C14	C15	C16	C18
Capacity	Cooling			kW	640	700	761	817	886	988	1057	1109	1166	1226	1322	1520	1641	1772
Nominal input	Cooling			kW	233	250	271	290	302	358	372	396	417	435	452	540	580	604
EER					2.75	2.8	2.81	2.82	2.93	2.76	2.84	2.8		2.82	2.92	2.81	2.83	2.93
Capacity Steps				%	stepless 12.5 - 100					stepless 8.3 - 100						stepless 6,25 - 100		
Dimensions	(Height x Width x Depth)			mm	2,520x2,230x5,310		2,520x2,230x6,210			2,520x2,230x7,400	2,520x2,230x8,270		2,520x2,230x9,200			2,520x2,230x11000	2,520x2,230x11,900	
Unit				kg	4,910	4,990	5,256	5,480	5,580	7,550	7,830		8,420		8,570	9,552	10,632	10,832
Operating Weight				kg	5,130	5,200	5,520	5,734	5,834	7,970	8,250		8,830		8,980	10,024	11,140	11,340
Water Heat Exchanger	Type				Shell and tube													
	Minimum water volume in the system			l	254		246			415		402				254 + 246	246 + 246	
	Water flow rate	Min		l/min	960	962	840	844	1,136	1,011	1,015	1,408	1,406	1,412	1,413	1,867	1,684	2,295
		Nominal		l/min	1,834	2,007	2,182	2,343	2,540	2,832	3,029	3,180	3,341	3,515	3,791	4,359	4,704	5,081
		Max		l/min	3,035	3,043	2,655	2,670	3,593	3,197	3,210	4,453	4,445	4,464	4,467	5,904	5,327	7,258
Air heat exchanger	Type				Grooved tubes and ALU coated louvred fins													
Sound Power		Cooling		dBA	79		79.5		80	79		79.5			80	79.5		80
Compressor	Type				Semi-hermetic single screw compressor													
	Model	Quantity			1	2	1	2		3		1		3		2	4	
Refrigerant circuit	Refrigerant type				R-134a													
	Refrigerant charge			kg	99	108	118	128		153	162	172	182	192		236	256	
	No of circuits				2					3						4		
	Refrigerant control				Electronic expansion valve													
Power Supply					3~/400V/50Hz													
Piping connections	Evaporator water inlet/outlet				victaulic, diameter 168.3mm1/2'' gas					victaulic, diameter 219.1mm1/2'' gas						victaulic, diameter 168.3mm1/2'' gas		

EWAD-BJYNN/A

Air Cooled

- High efficiency
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 667–1920kW
- EER range up to 3,32
- 2-3-4 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Several operating sound levels down to 100dB
- Partial and total heat recovery option available

EWAD-BJYNN/A

pCO²

COOLING ONLY

				650	700	800	850	900	950	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19	C20	C21
Capacity	Cooling		kW	667	723	800	855	903	926	974	1,038	1,094	1,177	1,222	1,282	1,354	1,430	1,557	1,710	1,806	1,920
Nominal input	Cooling		kW	223	237	259	278	292	287	294	343	355	377	399	415	433	430	520	558	584	603
EER				2.99	3.05	3.09	3.08	3.09	3.23	3.31	3.03	3.08	3.12	3.06	3.09	3.13	3.33	2.99	3.06	3.09	3.18
Capacity Steps			%	stepless 12.5 - 100							stepless 8.3 - 100							stepless 6.25 - 100			
Dimensions	(Height x Width x Depth)		mm	2,520x2,230x6,210		2,520x2,230x7,110			2,520x2,230x8,300		2,520x2,230x9,200		2,520x2,230x10,100		2,520x2,230x11,000		2,520x2,230x12,800		2,520x2,230x13,670		
Unit			kg	5,205	5,419	5,660	5,790	5,890	6,333	6,563	8,420		8,950		9,390	9,540	10,355	10,960	11,168	11,368	12,144
Operating Weight			kg	5,410	5,624	5,910	6,040	6,140	6,589	6,967	8,830		9,360		9,800	9,950	10,931	11,420	11,678	11,878	13,036
Water Heat Exchanger	Type			Shell and tube																	
	Minimum water volume in the system		l	254		246			244	392	415		402				533	254+246	246+246		392+392
	Water flow rate	Min	l/min	956	966	843	845	1,141	1,266	1,861	1,015	1,017	1,407		1,410	1,418	1,988	1,861	1,697	2,293	3,711
		Nominal	l/min	1,911	2,072	2,293	2,450	2,589	2,656	2,792	2,976	3,136	3,375	3,504	3,676	3,882	4,099	4,463	4,903	5,178	5,504
		Max	l/min	3,022	3,055	2,666	2,673	3,608	4,004	5,885	3,209	3,217	4,450		4,458	4,483	6,287	5,886	5,366	7,250	11,734
Air heat exchanger	Type			Grooved tubes and ALU coated louvred fins																	
Sound Power		Cooling	dBA	79		79.5		80	79.5		79		79.5			80		79.5		80	
Compressor	Type			Semi-hermetic single screw compressor																	
	Model	Quantity		1	2	1	2				1	3	1		3			2	4		
Refrigerant circuit	Refrigerant type			R-134a																	
	Refrigerant charge		kg	107	116	126	136		146	156	165	174	184	194	204	214	224	252	272		282
	No of circuits			2							3							4			
Power Supply				3~/400V/50Hz																	
Piping connections	Evaporator water inlet/outlet			victaulic, diameter 168.3mm1/2'' gas							victaulic, diameter 219.1mm1/2'' gas							victaulic, diameter 168.3mm1/2" gas			victaulic, diameter 219.1mm1/2" gas

EWAD-BJYNN/Q

Air Cooled

- Standard efficiency extra low noise
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 538–1,197kW
- EER range up to 2.76
- 2-3-4 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Several operating sound levels down to 86dB
- Partial and total heat recovery option available

EWAD-BJYNN/Q

pCO²

COOLING ONLY

					550	600	650	700	750	800	850	900	950	C10	C11	C12
Capacity	Cooling			kW	538	604	667	725	780	805	893	944	1,015	1,056	1,102	1,197
Nominal input	Cooling			kW	223	235	249	267	286	335	347	361	371	390	407	434
EER					2.41	2.57	2.68	2.72	2.73	2.4	2.57	2.61	2.74	2.71		2.76
Capacity Steps				%	stepless 12.5 - 100					stepless 8.3 - 100						
Dimensions	(Height x Width x Depth)			mm	2,520x2,230x6,310	2,520x2,230x6,210		2,520x2,230x7,110		2,520x2,230x8,300		2,520x2,230x9,200		2,520x2,230x10,100		2,520x2,230x11,000
Unit				kg	5,230	5,445	5,659	5,900	6,030	8,190		8,725		9,310		9,750
Operating Weight				kg	5,440	5,650	5,864	6,150	6,280	8,610		9,150		9,720		10,160
Water Heat Exchanger	Type				Shell and tube											
	Minimum water volume in the system			l	261	254		246		424	415			402		
	Water flow rate	Min		l/min	716	953	956	841	839	1,053	1,008	1,012	1,013	1,397	1,406	1,413
		Nominal		l/min	1,543	1,731	1,912	2,078	2,235	2,307	2,559	2,705	2,909	3,028	3,160	3,431
		Max		l/min	2,263	3,013	3,023	2,661	2,652	3,330	3,187	3,199	3,203	4,417	4,447	4,467
Air heat exchanger	Type				Grooved tubes and ALU coated louvred fins											
Sound Power		Cooling		dBA	65			65.5	66	65.5				66.0		66.5
Compressor	Type				Semi-hermetic single screw compressor											
	Model	Quantity			2	1	2	1	2	3	1		3	1		3
Refrigerant circuit	Refrigerant type				R-134a											
	Refrigerant charge			kg	98	107	116	126	136	147	156	165	174	184	194	204
	No of circuits				2					3						
	Refrigerant control				Electronic expansion valve											
Power Supply					3~/400V/50Hz											
Piping connections	Evaporator water inlet/outlet				victaulic, diameter 168.3mm1/2'' gas					victaulic, diameter 219.1mm1/2'' gas						

EWAD-BJYNN/Z

Air Cooled

- High efficiency and extra low noise
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 569–1013kW
- EER range up to 2.75
- 2-3-4 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Several operating sound levels down to 86dB
- Partial and total heat recovery option available

EWAD-BJYNN/Z

pCO²

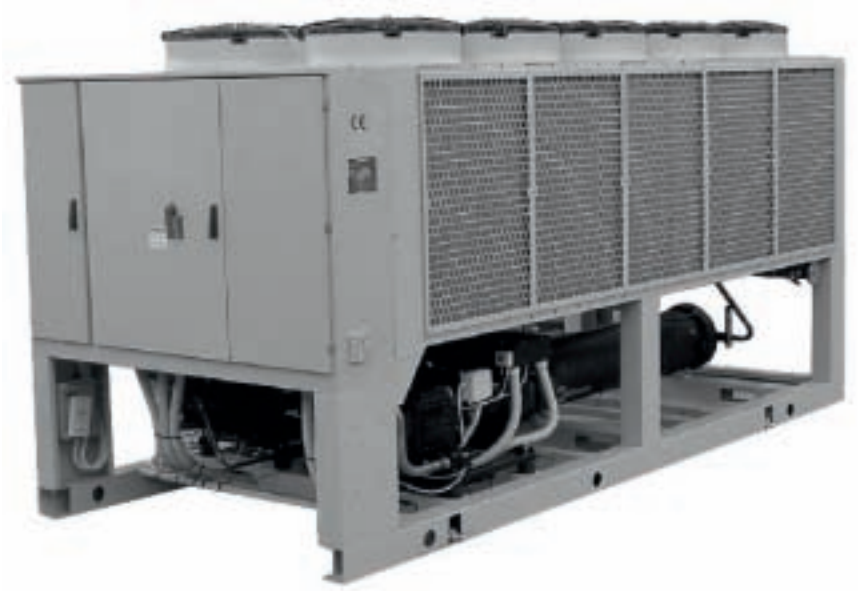
COOLING ONLY

				600	650	700	850	900	950	C10
Capacity	Cooling		kW	569	631	668	840	914	953	1013
Nominal input	Cooling		kW	220	241	268	328	342	367	368
EER				2.59	2.62	2.49	2.56	2.67	2.6	2.75
Capacity Steps			%	stepless 12.5 - 100			stepless 8.3 - 100			
Dimensions	(Height x Width x Depth)		mm	2520x2230x6210	2520x2230x7110		2520x2230x9200	2520x2230x10100		2520x2230x11000
Unit			kg	5659	5900	6030	8725	9310		9750
Operating Weight			kg	5864	6150	6280	9150	9720		10160
Water Heat Exchanger	Type			Shell and tube						
	Minimum water volume in the system		l	254	246		415	402		
	Water flow rate	Min	l/min	958	843		1032	1318	1317	1325
		Nominal	l/min	1631	1808	1914	2409	2620	2731	2903
		Max	l/min	3028	2665	2666	3263	4169	4164	4189
Air heat exchanger	Type			Grooved tubes and ALU coated louvred fins						
Sound Power		Cooling	dBA	65.0			65.5			
Compressor	Type			Semi-hermetic single screw compressor						
	Model	Quantity		2	1	2	3	1		3
Refrigerant circuit	Refrigerant type			R-134a						
	Refrigerant charge		kg	106	115	124	159	168	177	186
	No of circuits			2			3			
Power Supply				3~/400V/50Hz						
Piping connections	Evaporator water inlet/outlet			victaulic, diameter 168.3mm1/2'' gas			victaulic, diameter 219.1mm1/2'' gas			

EWAP-AJYNN

Air Cooled

- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-407C
- Cooling range: 790–1650kW
- EER range up to 2.35
- 2 -3 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side for easy oil circulation and return
- Several operating sound levels down to 101dB
- Partial and total heat recovery option available



EWAP-AJYNN

pCO²

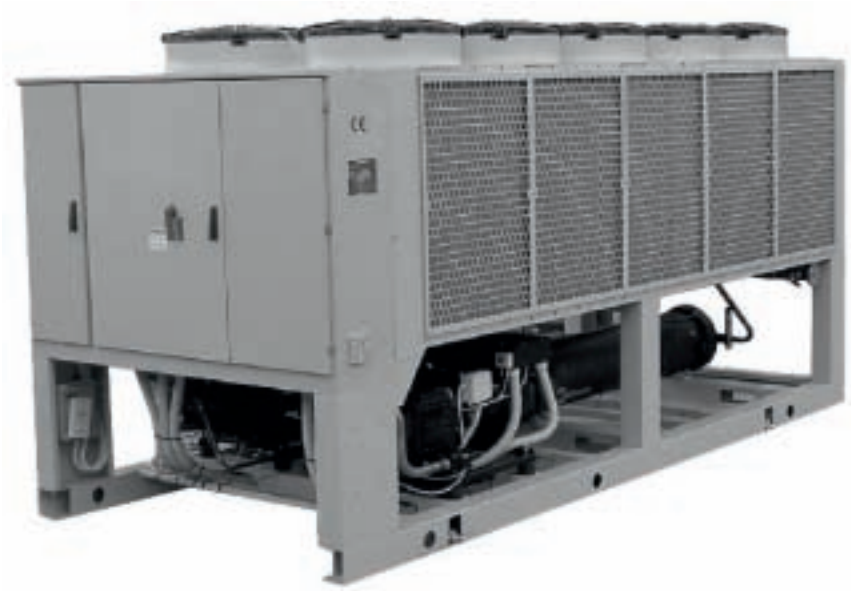
COOLING ONLY

				800	900	950	C10	C11	C12	C13	C14	C15	C16	C17	C18
Capacity	Cooling		kW	790	875	944	1026	1092	1158	1284	1354	1426	1516	1583	1650
Nominal input	Cooling		kW	340	373	405	442	476	507	546	578	609	647	682	717
EER				2.32	2.35	2.33	2.32	2.29	2.28	2.35	2.34			2.32	2.3
Capacity Steps			%	stepless 12.5-100					stepless 8.3-100						
Dimensions	(Height x Width x Depth)		mm	2520x6210x2230	2520x7110x2230		2520x8010x2230		2520x9170x2230	2520x10070x2230		2520x10970x2230		2520x11870x2230	
Unit			kg	5165	5425	5555	5795	5905	7990	8305	8435	8890	8905	9155	9265
Operating Weight			kg	5430	5710	5840	6070	6180	8270	8775	8905	9360	9350	9600	9710
Water Heat Exchanger	Type			Shell and tube											
	Minimum water volume in the system		l	278	271		256		263	432			419		
	Water flow rate	Min	l/min	882	1090	1096	1371	1373	1212	1614	1626	1642	2357	2359	2365
		Nominal	l/min	2265	2508	2706	2941	3130	3320	3681	3882	4088	4346	4538	4730
		Max	l/min	2788	3445	3465	4337	4341	3833	5104	5141	5192	7453	7460	7479
Air heat exchanger	Type			Grooved tubes and ALU coated louvred fins											
Sound Power		Cooling	dBA	80.5		81				81.5					
Compressor	Type			Semi-hermetic single screw compressor											
	Model	Quantity		2	1	2	1	2	3	1		3	1		3
Refrigerant circuit	Refrigerant type			R-407C											
	Refrigerant charge		kg	120	130	140	150	160	180	190	200	210	220	230	240
	No of circuits			2					3						
	Refrigerant control			Electronic expansion valve											
Power Supply				3~/400V/50Hz											
Piping connections	Evaporator water inlet/outlet			victaulic, diameter 219.1mm1/2'' gas					victaulic, diameter 273mm1/2'' gas						

EWAP-AJYNN/A

Air Cooled

- High efficiency
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-407C
- Cooling range: 854–1729kW
- EER range up to 2.69
- 2 -3 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side for easy oil circulation and return
- Several operating sound levels down to 102dB
- Partial and total heat recovery option available



EWAP-AJYNN/A

pCO²

COOLING ONLY

				850	900	950	C10	C11	C12	C13	C14	C15	C16	C17	C18
Capacity	Cooling		kW	854	954	1028	1124	1196	1253	1357	1427	1497	1595	1644	1729
Nominal input	Cooling		kW	319	354	386	424	458	476	512	542	575	611	654	678
EER				2.67	2.69	2.66	2.65	2.61	2.63	2.65	2.63	2.60	2.61	2.51	2.55
Capacity Steps			%	stepless 12.5-100					stepless 8.3-100						
Dimensions	(Height x Width x Depth)		mm	2520x8010x2230	2520x8910x2230		2520x9810x2230		2520x11870x2230	2520x12770x2230		2520x13670x2230		2520x14570x2230	
Unit			kg	5900	6170	6290	6525	6645	9050	9505	9625	10060	10075	10410	10470
Operating Weight			kg	6185	6440	6560	6780	6900	9320	9980	10100	10530	10520	10860	10920
Water Heat Exchanger	Type			Shell and tube											
	Minimum water volume in the system		l	271	256		270		278	432			419		
	Water flow rate	Min	l/min	1084	1351	1374	1169	1176	1560	1629	1643	1634	2346	2356	2390
		Nominal	l/min	2448	2735	2947	3222	3429	3592	3890	4091	4291	4572	4713	4957
		Max	l/min	3428	4271	4345	3696	4934		5153	5195	5166	7417	7452	7559
Air heat exchanger	Type			Grooved tubes and ALU coated louvred fins											
Sound Power		Cooling	dBA	80.5		81				81.5					
Compressor	Type			Semi-hermetic single screw compressor											
	Model	Quantity		2	1	2	1	2	3	1		3	1		3
Refrigerant circuit	Refrigerant type			R-407C											
	Refrigerant charge		kg	160	170	180	190	200	240	250	260	270	280	290	300
	No of circuits			2					3						
	Refrigerant control			Electronic expansion valve											
Power Supply				3~/400V/50Hz											
Piping connections	Evaporator water inlet/outlet			victaulic, diameter 219.1mm1/2'' gas						victaulic, diameter 273mm1/2'' gas					

EWAP-MBYN

Air Cooled

- All models are PED pressure vessel approved
- Daikin semi-hermetic single screw stepless compressor
- Optimised for use with R-407C
- Advanced pCO² DDC controller
- Standard operation range down to -15°C ambient
- High quality, anti-corrosion treated components as standard
- Reverse phase protection as standard
- Moisture indicator as standard
- Victaulic joints and filter as standard
- Flow switch as standard
- Low operating sound level - extra low noise option available
- DICN (Daikin Integrated Chiller Network) operation as standard within same series
- Evaporator heater tape as standard on all units
- Double refrigeration circuit (from 400kW on)
- Chilled water temperatures down to -10°C on standard unit (parameter in the service menu of the pCO² digital controller must be set by the installer)
- Inverter fans available as option
- Hi-esp fans (up to 150Pa) available as option
- Heat recovery option available (EWTP-MBY)

EWAP200MBYN

pCO²

COOLING ONLY

				110	140	160	200	280	340	400	460	540
Capacity	Cooling		kW	111.00	144.00	164.00	199.00	285.00	349.00	395.00	468.00	541.00
Nominal input	Cooling		kW	41.90	51.80	64.30	78.10	108.00	140.00	156.00	189.00	222.00
EER				2.65	2.78	2.55		2.64	2.49	2.53	2.48	2.44
Capacity Steps			%	30-100						15-100		
Dimensions	(Height x Width x Depth)		mm	2250x2346x2238			2250x4280x2238			2250x5901x2238		
Unit			kg	1417	1571	1660	2203	2583	2633	4865	4988	5111
Operating Weight			kg	1425	1584	1676	2223	2610	2667	4939	5069	5199
Water Heat Exchanger	Type			Brased plate, one per circuit								
	Minimum water volume in the system		l	540	700	800	970	1390	1710	970	1140	1320
	Water flow rate	Min	l/min	160	205	235	285	410	500	565	670	775
		Max	l/min	640	825	940	1140	1640	2000	2265	2680	3100
	Nominal Water Flow	Cooling	kPa	50.0	48.0	41.0	31.0	42.0	52.0	35.0	39.0	44.0
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins								
Sound Power		Cooling	dBA	91	96		97	99	100	101		
Compressor	Type			Semi-hermetic single screw compressor								
	Model	Quantity		1								
Refrigerant circuit	Refrigerant type			R-407C								
	Refrigerant charge		kg	27.0	39.0	42.0	58.0	84.0		128.0	129.0	130.0
	No of circuits			1						2		
	Refrigerant control			Thermostatic expansion valve								
Power Supply				3~/400V/50Hz								
Piping connections	Evaporator water inlet/outlet			flexible coupling + counterpipe for welding 3"od field installation			flexible coupling + counterpipe for welding 3"1/4"g			flexible coupling + counterpipe for welding 5"1/4"g		
	Relief device outlet			compressor: 1"npt				compressor: 2x1"npt		compressor: 2x(1"npt)	compressor: 1x(1"npt)+1x(2x1"npt)	compressor: 2x(2x1"npt)

EWTP-MBYN

Heat Recovery

- Total heat recovery up to 85% or desuperheater up to 60°C leaving water temperature
- Standard Inverter fans and exchanger heatertape
- Daikin semi-hermetic single screw stepless compressor
- Optimised for use with R-407C
- Advanced pCO² DDC controller
- DICN (Daikin Integrated Chiller Network) operation as standard within same series
- Pressure relief valve
- Reduced energy consumption thanks to optimised condensing temperature by use of inverter fans
- Inverter fans ensure smoother operation and better colour of sound
- Linear sound reduction in function of ambient temperature
- Optional BMS connection available
- Evaporator heater tape as standard on all units
- Multiple capacity steps
- Pre-mounted, 5 inch piping for easier field connection
- Modular design
- Double refrigeration circuit (from 400kW on)
- Standard operation range down to -15°C ambient
- Victaulic joints and filter as standard
- Moisture indicator as standard
- High quality, anti-corrosion treated components as standard
- Chilled water temperatures down to -10°C on standard unit

EWTP280MBYN

pCO²

HEAT RECOVERY

				110	140	160	200	280	340	400	460	540
Capacity	Cooling		kW	107.00	138.00	158.00	191.00	274.00	335.00	379.00	449.00	520.00
	Cooling during heat recovery		kW	97.70	126.00	144.00	171.00	251.00	311.00	337.00	401.00	465.00
	Heat recovery		kW	116.00	148.00	176.00	208.00	301.00	377.00	407.00	434.00	441.00
Nominal input	Cooling		kW	43.70	54.00	67.00	81.30	113.00	146.00	163.00	197.00	232.00
	Heat recovery		kW	39.40	47.80	62.40	73.20	103.00	132.00	142.00	177.00	214.00
EER				2.45	2.56	2.36	2.35	2.42	2.29	2.33	2.28	2.24
COP				5.44	5.73	5.13	5.17	5.36	5.21	5.24	4.71	4.24
Capacity Steps			%	30-100 (stepless)						15-100 (stepless)		
Dimensions	(Height x Width x Depth)		mm	2250x2346x2238			2250x4280x2238			2250x5901x2238		
Unit			kg	1465	1629	1723	2266	2646	2727	4990	5113	5236
Operating Weight			kg	1483	1654	1752	2299	2692	2784	5090	5220	5350
Water Heat Exchanger	Type			Brased plate, one per circuit								
	Minimum water volume in the system		l	520	680	770	930	1340	1640	930	1100	1270
	Water flow rate	Min	l/min	160	205	235	285	410	500	565	670	775
		Max	l/min	640	825	940	1140	1640	2000	2265	2680	3100
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and chromate coated waffle louvre fins								
Sound Power		Cooling	dBA	89	94		95	96	98	99		
Compressor	Type			Semi-hermetic single screw compressor								
	Model	Quantity		1								
Refrigerant circuit	Refrigerant type			R-407C								
	Refrigerant charge		kg	32.0	46.0	49.0	70.0	110.0		79.0	80.0	
	No of circuits			1						2		
	Refrigerant control			Thermostatic expansion valve								
Power Supply				3~/400V/50Hz								
Piping connections	Evaporator water inlet/outlet			flexible coupling + counterpipe for welding 3" od field installation			flexible coupling + counterpipe for welding 3"1/4"g			flexible coupling 5"1/4"g		
	Heat recovery condenser inlet/outlet			2"g								

ERAP-MBYN

Remote Evaporator

- All models are PED pressure vessel approved
- Daikin semi-hermetic single screw stepless compressor
- Optimised for use with R-407C
- Advanced pCO² DDC controller
- Standard operation range down to -15°C ambient
- High quality, anti-corrosion treated components as standard
- Reverse phase protection as standard
- Moisture indicator as standard
- Low operating sound level - extra low noise option available
- DICN (Daikin Integrated Chiller Network) operation as standard within same series
- Evaporating temperature down to -15°C
- Hi-esp fans (up to 150Pa) available as option
- Inverter fans available as option
- Nitrogen holding charge
- Stepless or infinitely variable capacity control from 30 to 100%

ERAP150MBYN

pCO²

COOLING ONLY

				110	150	170
Capacity	Cooling		kW	114.00	150.00	171.00
Nominal input	Cooling		kW	42.10	52.40	65.20
EER				2.71	2.86	2.62
Capacity Steps			%	30-100		
Dimensions	(Height x Width x Depth)		mm	2250x2346x2238		
Unit			kg	1326	1440	1516
Air heat exchanger	Type			Cross fin coil/Hi-X tubes and PE coated waffle louvre fins		
Sound Power		Cooling	dBA	91	96	
Compressor	Type			Semi-hermetic single screw compressor		
	Model	Quantity		1		
Refrigerant circuit	Refrigerant type			R-407C		
	Refrigerant charge		kg	5.5		7.5
	No of circuits			1		
Power Supply				3~/400V/50Hz		
Piping connections	Suction line connection			2'' 1/8		
	Liquid line connection			7/8''		
	Relief device outlet			compressor: 1''npt		

EWWP-KAW1N

Water Cooled

- Daikin scroll compressor
- Optimised for use with R-407C
- Electronic DDC controller
- Low operating sound level
- Low energy consumption
- Extension possible up to 72hp
- Compact dimensions and low refrigerant volume
- Easy installation and maintenance
- Stainless steel plate heat exchanger
- Remote cooling or heating selection
- Water/water heat pump, with water reversibility
- Compatible with hydraulic module
- For EWWP014-065KAW1N following components are standard included: main switch, pressure ports, flow switch, filter, shut-off valves and air purge.

EWWP014KAW1N

pCO²

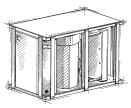
COOLING ONLY/HEATING ONLY

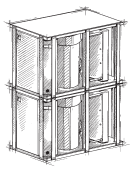
				014	022	028	035	045	055	065	090	100	110	120	130	145	155	165	175	185	195
Capacity	Cooling		kW	13.0	21.5	28.0	32.5	43.0	56	65.0	86.0	99.0	112	121	130	142	155	168	177	186	195
Nominal input	Cooling		kW	3.61	5.79	7.48	8.75	12.1	16	18.3	23.6	27.3	31.0	33.1	35.2	39.1	42.8	46.5	48.6	50.7	52.8
EER				3.60	3.71	3.74	3.71	3.55	3.5	3.55	3.64	3.63	3.61	3.66	3.69	3.63	3.62	3.61	3.64	3.67	3.69
Capacity Steps			%	1				2			4					6					
Dimensions	(Height x Width x Depth)		mm	600x600x600				600x600x1200			1200x600x1200					1800x600x1200					
Unit			kg	118	155	165	172	300	320	334	600	620	640	654	668	920	940	960	974	988	1002
Water Heat Exchanger	Type			Brased plate																	
	Minimum water volume in the system		l	62	103	134	155	205	268	311	205	268		311		205		268			311
	Water flow rate	Min	l/min	24	39	51	59	79	102	118	157	181	205	221	237	260	283	307	323	339	355
		Nominal	l/min	48	78	102	118	157	205	237	314	362	410	442	474	519	567	614	647	679	711
		Max	l/min	95	157	203	237	314	410	474	629	724	819	883	948	1038	1133	1229	1293	1357	1422
Sound Power		Cooling	dBA	64			71	67		74	71			75	77	73			76	78	79
Compressor	Type			Hermetically sealed scroll compressor																	
	Model	Quantity		1				2			4	2	4	2	4	2		6	2		6
Refrigerant circuit	Refrigerant type			R-407C																	
	Refrigerant charge		kg	1.2	2	2.5	3.1	4.6		5.6	9.2			10.2	11.2	13.8			14.8	15.8	16.8
	No of circuits			1				2			4					6					
	Refrigerant control			Thermostatic expansion valve																	
Power Supply				3N~/400V/50Hz																	
Piping connections	Evaporator water inlet/outlet			fbsp 25 field installation				fbsp 40 field installation			2 x 2 x fbsp 38 field installation					3 x 2 x fbsp 38 field installation					
	Condensor water inlet/outlet			fbsp 25 field installation				fbsp 40 field installation			2 x 2 x fbsp 38 field installation					3 x 2 x fbsp 38 field installation					

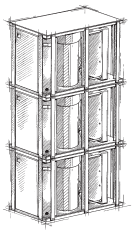
EWWP014-035KAW1N

EWWP090-130KAW1N

EWWP145-195KAW1N







SELECTION TABLE		1 MODULE (KA-SERIES)							2 MODULES (KA-SERIES)					3 MODULES (KA-SERIES)					
Capacity index		014	022	028	035	045	055	065	090	100	110	120	130	145	155	165	175	185	195
Cooling capacity (kW)		**13**	**21.5**	**28**	**32.5**	**43**	**56**	**65**	**86**	**99**	**112**	**121**	**130**	**142**	**155**	**168**	**177**	**186**	**195**
Heating capacity (kW)		**16**	**26.2**	**35.3**	**41**	**52.5**	**71**	**81**	**105**	**124**	**142**	**153**	**164**	**176**	**195**	**213**	**224**	**235**	**246**
UNIT + CONTROL (factory mounted)	EWWP014KAW1N	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP022KAW1N	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP028KAW1N	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP035KAW1N	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP045KAW1N	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP055KAW1N	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
	EWWP065KAW1N	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-
UNIT ONLY (Without Control)	EWWP045KAW1M	-	-	-	-	1	-	-	2	1	-	-	-	2	1	-	-	-	-
	EWWP055KAW1M	-	-	-	-	-	1	-	-	1	2	1	-	1	2	3	2	1	-
	EWWP065KAW1M	-	-	-	-	-	-	1	-	-	-	1	2	-	-	-	1	2	3
CONTROL (Kit)	ECB 1 MUW	-	-	-	-	1	1	1		-	-	-	-	-	-	-	-	-	-
	ECB 2 MUW	-	-	-	-	-	-	-	1	1	1	1	1	-	-	-	-	-	-
	ECB 3 MUW	-	-	-	-	-	-	-	-	-	-	-	-	1	1	1	1	1	1

For example: for a 121 kW -HP system, select :
EWWP055KAW1
+ EWWP065KAW1

EWLP-KAW1N

Remote Condenser

- Daikin scroll compressor
- Optimised for use with R-407C
- Electronic DDC controller
- Low operating sound level
- Low energy consumption
- Compact dimensions and low refrigerant volume
- Easy installation and maintenance
- Stainless steel plate heat exchanger
- Compatible with hydraulic module
- For EWLP012-065KAW1N following components are standard included: main switch, pressure ports, flow switch, filter, shut-off valves and air purge.

EWLP014KAW1N

MICRO CHILLER

COOLING ONLY

				012	020	026	030	040	055	065
Capacity	Cooling		kW	12.1	20.0	26.8	31.2	40.0	53.7	62.4
Nominal input	Cooling		kW	4.2	6.6	8.5	10.1	13.4	17.8	20.3
EER				2.88	3.03	3.15	3.09	2.99	3.02	3.07
Capacity Steps			%	1				2		
Dimensions	(Height x Width x Depth)		mm	600x600x600				600x600x1200		
Unit			kg	108	141	147	151	252	265	274
Water Heat Exchanger	Type			Brased plate						
	Minimum water volume in the system		l	62	103	134	155	205	268	311
	Water flow rate	Min	l/min	17	29	38	45	57	77	89
		Nominal	l/min	35	57	77	89	115	154	179
		Max	l/min	69	115	153	179	229	307	358
Sound Power		Cooling	dBA	64			71	67		74
Compressor	Type			Hermetically sealed scroll compressor						
	Model	Quantity		1				2		
Refrigerant circuit	Refrigerant type			R-407C						
	No of circuits			1				2		
	Refrigerant control			Thermostatic expansion valve						
Power Supply				3N~/400V/50Hz						
Piping connections	Evaporator water inlet/outlet			fbsp 25field installation				fbsp 40field installation		
	Liquid line connection			9.52 flare	12.7 flare			2x12.7 flare		
	Discharge line connection			12.7 flare	19.1 flare			2x19.1 flare		

EWWD-MBYN

Water Cooled

- All models are PED pressure vessel approved
- Daikin semi-hermetic single screw stepless compressor
- All components optimised for use with R-134a refrigerant
- Advanced pCO² DDC controller
- Moisture indicator as standard
- Victaulic joints as standard
- Low operating sound level - extra low noise option available
- DICN (Daikin Integrated Chiller Network) operation as standard within same series
- Double refrigeration circuit (from 360kW on)
- Chilled water temperatures down to -10°C on standard unit (parameter in the service menu of the pCO² digital controller must be set by the installer)
- Modular design

EWWD120MBYN

pCO²

COOLING ONLY/HEATING ONLY

				120	180	240	280	360	440	500	520	540
Capacity	Cooling		kW	123.00	183.00	249.00	273.00	366.00	432.00	498.00	522.00	546.00
	Heating		kW	147.00	216.00	290.00	327.00	431.00	505.00	580.00	617.00	655.00
Nominal input	Cooling		kW	28.70	45.20	61.60	69.20	90.50	107.00	123.00	131.00	138.00
	Heating		kW	34.50	54.00	72.80	83.40	108.00	127.00	146.00	156.00	167.00
EER				4.29	4.05	4.04	3.95	4.04		4.05	3.98	3.96
COP				4.26	4	3.98	3.92	3.99	3.98	3.97	3.96	3.92
Capacity Steps			%	30-100 stepless				15-100 stepless				
Dimensions	(Height x Width x Depth)		mm	1018x2681 (3051)x930	1018x2681 (3254)x930			2000x2681 (3254)x930				
Unit			kg	1000	1273	1527	1623	2546	2800	3034	3150	3346
Operating Weight			kg	1032	1318	1588	1693	2636	2906	3156	3281	3485
Water Heat Exchanger	Type			Shell and tube								
	Minimum water volume in the system		l	600	890	1220	1330	895	1055	1215	1275	1335
	Water flow rate	Min	l/min	217	336	450	520	670	790	900	970	1040
		Nominal	l/min	435	654	890	981	1309	1545	1781	1871	1962
		Max	l/min	800	1050	1230	1370	2100	2290	2470	2600	2730
Sound Power		Cooling	dBA	87	93	94	93	96				
Compressor	Type			Semi-hermetic single screw compressor								
	Model	Quantity		1				2	1	2	1	2
Refrigerant circuit	Refrigerant type			R-134a								
	Refrigerant charge		kg	18.0	35.0	37.0	38.0	70.0	72.0	74.0	75.0	76.0
	No of circuits			1				2				
	Refrigerant control			Thermostatic expansion valve		Electronic expansion valve		Thermostatic expansion valve	Electronic expansion valve			
Power Supply				3~/400V/50Hz								
Piping connections	Evaporator water inlet/outlet			3" od vc field installation	3" victaulic coupling field installation							
	Condensor water inlet/outlet			2" 1/2 victaulic m6	3'' victaulic m6							
	Relief device outlet			1x1''		2x1''			3x1''	4x1''		

EWLD-MBYN

Remote Condenser

- All models are PED pressure vessel approved
- Daikin semi-hermetic single screw stepless compressor
- All components optimised for use with R-134a refrigerant
- Advanced pCO² DDC controller
- Moisture indicator as standard
- Victaulic joints as standard
- Low operating sound level - extra low noise option available
- DICN (Daikin Integrated Chiller Network) operation as standard within same series
- Double refrigeration circuit (from 360kW on)
- Chilled water temperatures down to -10°C on standard unit (parameter in the service menu of the pCO² digital controller must be set by the installer)
- Modular design

EWLD120MBYN

pCO²

COOLING ONLY

					120	170	240	260	340	400	480	500	540
Capacity	Cooling			kW	116.00	170.00	235.00	265.00	340.00	405.00	470.00	500.00	530.00
Nominal input	Cooling			kW	32.00	49.80	66.50	77.90	99.60	116.00	133.00	144.00	156.00
EER					3.63	3.41	3.53	3.4	3.41	3.49	3.53	3.47	3.4
Capacity Steps				%	30-100 stepless				15-100 stepless				
Dimensions	(Height x Width x Depth)			mm	1018x2681 (3051)x930	1018x2681 (3254)x930			2000x2681 (3254)x930				
Unit				kg	891	1110	1342	1428	2220	2452	2684	2770	2856
Operating Weight				kg	907	1130	1369	1462	2260	2497	2738	2831	2924
Water Heat Exchanger	Type				Brased plate, one per circuit								
	Minimum water volume in the system			l	570	830	1150	1300	830	990	1150	1220	1295
	Water flow rate	Min		l/min	175	265	350	400	525	625	700	750	800
		Nominal		l/min	333	487	674	760	975	1161	1347	1434	1520
		Max		l/min	700	1070	1400	1600	2100	2500	2800	3000	3200
Sound Power		Cooling		dBA	87	93	94	93	96				
Compressor	Type				Semi-hermetic single screw compressor								
	Model	Quantity			1				2	1	2	1	2
Refrigerant circuit	Refrigerant type				R-134a								
	No of circuits				1				2				
	Refrigerant control				Thermostatic expansion valve		Electronic expansion valve		Thermostatic expansion valve	Electronic expansion valve			
Power Supply					3~/400V/50Hz								
Piping connections	Evaporator water inlet/outlet				3" od.vc field installation	3" victaulic coupling field installation							
	Liquid line connection				7/8"	1" 1/8	1" 3/8		2x1/8"	1"1/8 + 1"3/8	2x1" 3/8		
	Discharge line connection				2" 1/8			2" 5/8	2x(2"1/8)			2" 1/8 + 2" 5/8	2x(2"5/8)

EWWD-DJYNN

Water Cooled

- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 165.5–555.7kW
- EER range up to 4
- 1-2 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side for easy oil circulation and return
- Partial and total heat recovery option available

EWWD-DJYNN

pCO²

COOLING ONLY

					170	210	260	300	320	380	420	460	500	600
Capacity	Cooling			kW	165.5	201.2	252.8	280.4	333.9	372.2	402.5	448.3	493.7	555.7
Nominal input	Cooling			kW	42.1	50.7	64.9	75.4	84.3	93.1	101.4	115.1	129.0	150.2
EER					3.93	3.97	3.9	3.72	3.96	4	3.97	3.89	3.83	3.7
Capacity Steps				%	stepless 25-100				stepless 12.5-100					
Dimensions	(Height x Width x Depth)			mm	1860x3435x920				1880x4305x860					
Unit				kg	1393	1410	1503		2687	2697	2702	2757	2762	
Operating Weight				kg	1470	1480	1650		2840	2850	2860	2970		
Water Heat Exchanger	Type				Shell and tube									
	Minimum water volume in the system			l	13	15			26	28	30			
	Water flow rate	Min		l/min	303	357	363	368	603	659	718	726	729	741
		Nominal		l/min	595	722	911	1020	1199	1334	1445	1615	1785	2024
		Max		l/min	959	1128	1147	1162	1908	2083	2270	2296	2305	2344
Sound Power		Cooling		dBA	69.7				71.7					
Compressor	Type				Semi-hermetic single screw compressor									
	Model	Quantity			1				2	1	2	1	2	
Refrigerant circuit	Refrigerant type				R-134a									
	Refrigerant charge			kg	50				100					
	No of circuits				1				2					
	Refrigerant control				Electronic expansion valve									
Power Supply					3~/400V/50Hz									
Piping connections	Evaporator water inlet/outlet				1/2'' gas									

EWWD-DJYNN/A

Water Cooled

- High efficiency
- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 186.4–603.9kW
- EER range up to 4.73
- 1-2 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side for easy oil circulation and return
- Partial and total heat recovery option available

EWWD-DJYNN/A

pCO²

COOLING ONLY

				190	230	280	320	380	400	460	500	550	650
Capacity	Cooling		kW	186.4	223.3	276.5	306.7	366.3	408.2	443.6	496	540.5	603.9
Nominal input	Cooling		kW	39.7	48.1	59.3	71.4	79.3	87.2	95	104.8	114.4	137.7
EER				4.7	4.64	4.66	4.3	4.62	4.68	4.67	4.73	4.72	4.39
Capacity Steps			%	stepless 25-100				stepless 12.5-100					
Dimensions	(Height x Width x Depth)		mm	1860x3435x920				1880x4305x860					
Unit			kg	1650	1665	1680		2800	2945	2955	2975	2990	
Operating Weight			kg	1800	1810	1820		3020	3280	3290	3315	3340	
Water Heat Exchanger	Type			Shell and tube									
	Minimum water volume in the system		l	22	25			44	47	50	59	68	
	Water flow rate	Min	l/min	497	550	609	648	994	1089	1202	1362	1533	1542
		Nominal	l/min	648	778	963	1084	1277	1420	1544	1722	1877	2126
		Max	l/min	1572	1740	1925	2048	3145	3444	3801	4306	4847	4877
Sound Power		Cooling	dBA	69.7				71.7					
Compressor	Type			Semi-hermetic single screw compressor									
	Model	Quantity		1				2	1	2	1	2	
Refrigerant circuit	Refrigerant type			R-134a									
	Refrigerant charge		kg	50				100					
	No of circuits			1				2					
	Refrigerant control			Electronic expansion valve									
Power Supply				3~/400V/50Hz									

EWWD-CJYNN

Water Cooled

- All models are PED pressure vessel approved
- Stepless single-screw compressor
- Optimised for use with R-134a
- Cooling range: 334–1893kW
- EER up to 4.68
- 1-2-3-4 truly independent refrigerant circuits
- Standard electronic expansion valve
- DX shell and tube evaporator – one pass refrigerant side to minimize pressure drops
- Partial and total heat recovery option available

EWWD-CJYNN

pCO²

COOLING ONLY

				340	400	480	550	700	750	800	900	950	C10	C11	C12	C13	C14	C15	C16	C17	C18	C19
Capacity	Cooling		kW	334	399	462	510	666	735	792	871	934	1074	1139	1205	1268	1331	1394	1525	1629	1761	1893
Nominal input	Cooling		kW	81.1	90.1	102	109	160	170	180	194	207	250	261	273	284	297	309	344	366	391	416
EER				4.12	4.43	4.53	4.68	4.16	4.32	4.4	4.49	4.51	4.3	4.36	4.41	4.46	4.48	4.51	4.43	4.45	4.5	4.55
Capacity Steps			%	stepless 25-100				stepless 12.5-100					stepless 8.3-100						stepless 6.25-100			
Dimensions	(Height x Width x Depth)		mm	1970x3310x900				2070x4300x1290					2320x3770x2160						2320x5151x2240			
Unit			kg	1830	1855	1886	1965	3395	3495	3515	3560	3590	4960	4980	5110	5135	5175	5205	6790	6830	6890	6940
Operating Weight			kg	2000	2030	2050	2160	3640	3910	3940	3990	4020	5410	5430	5630	5660	5710	5740	7580	7630	7690	7730
Water Heat Exchanger	Type			Shell and tube																		
	Minimum water volume in the system		l	30	35	34	36	60	63	70	75	80	95	100	105	110	115	120	135	140	150	160
	Water flow rate	Min	l/min	626	720	817	936	1232	1348	1447	1527	1635	1974	2059	2173	2284	2364	2473	2749	2895	3164	3268
		Max	l/min	1980	2278	2584	2960	3896	4261	4577	4829	5170	6244	6512	6872	7222	7475	7821	8692	9156	10006	10336
		Nominal	l/min	1188	1404	1614	1776	2370	2592	2784	3054	3270	3798	4014	4236	4452	4668	4884	5358	5718	6168	6618
Sound Power		Cooling	dBA	75.2	76.2	78.2		77.8	78.2	78.7	79.8	80.7	79.2	79.5	79.8	80.6	81.2	81.8	80.3		81.9	82.8
Compressor	Type			Semi-hermetic single screw compressor																		
	Model	Quantity		1											2	1		2	1	3	1	3
Refrigerant circuit	Refrigerant type			R-134a																		
	Refrigerant charge		kg	53	63	73	77	106	116	126	136	146	169	179	189	199	209	219	232	252	272	292
	No of circuits			1				2					3						4			
	Refrigerant control			Electronic expansion valve																		
Power Supply				3~/400V/50Hz									3~/380-440V/50Hz									
Piping connections	Evaporator water inlet/outlet			1/2'' gas																		

EWWD-BJYNN

Water Cooled

- All models are PED pressure vessel approved
- 1 and 2 stepless single-screw compressors
- Optimised for use with R-134a
- Cooling range: 369–1050kW
- Super high efficiency: EER up to 5.83
- Very high EER values at part loads condition
- Flooded evaporator
- Expansion valve with liquid level control

EWWD-BJYNN

pCO²

COOLING ONLY

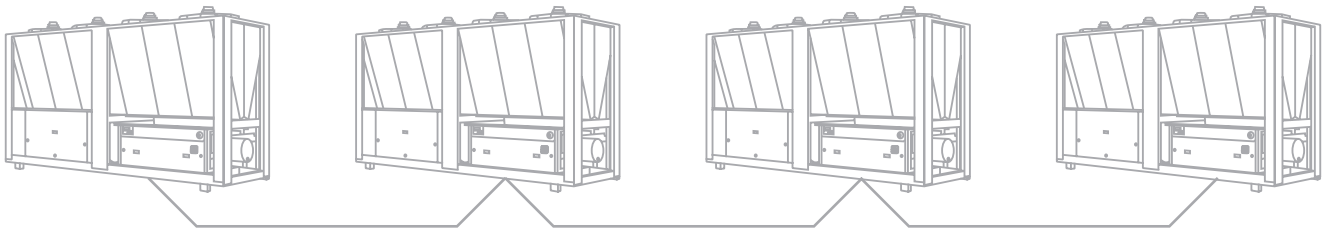
					380	460	550	750	850	900	C10	C11
Capacity	Cooling			kW	369	445	521	734	816	895	976	1050
Nominal input	Cooling			kW	65	77.9	90	129	142	155	167	180
EER					5.68	5.71	5.79	5.69	5.75	5.77	5.84	5.83
Capacity Steps				%	stepless 25-100			stepless 12.5-100				
Dimensions	(Height x Width x Depth)			mm	2250x3625x1551	2250x3860x1551		2300x4145x1743		2300x4145x1808	2300x4145x1910	
Unit				kg	3089	3370	3603	5546	5636	6007	6448	6598
Operating Weight				kg	3250	3588	3870	5911	6045	6460	6972	7163
Water Heat Exchanger	Type				Flooded shell and tube							
	Minimum water volume in the system			l	83	111	133	181	199	243		263
	Water flow rate	Min		l/min	665	948	1086	1478	1703	1904	1924	2146
		Nominal		l/min	1244	1499	1752	2474	2746	3010	3277	3526
		Max		l/min	2103	2998	3435	4675	5386	6020	6085	6786
Sound Power		Cooling		dBA	78	79	80	81	81.5	82	82.5	83
Compressor	Type				Semi-hermetic single screw compressor							
	Model	Quantity			1			2				
Refrigerant circuit	Refrigerant type				R-134a							
	Refrigerant charge			kg	130	165	180	200	215	230	274	290
	No of circuits				1							
	Refrigerant control				Electronic expansion valve							
Power Supply					3~/400V/50Hz							
Piping connections	Evaporator water inlet/outlet				1/2'' gas							

D.I.C.N.

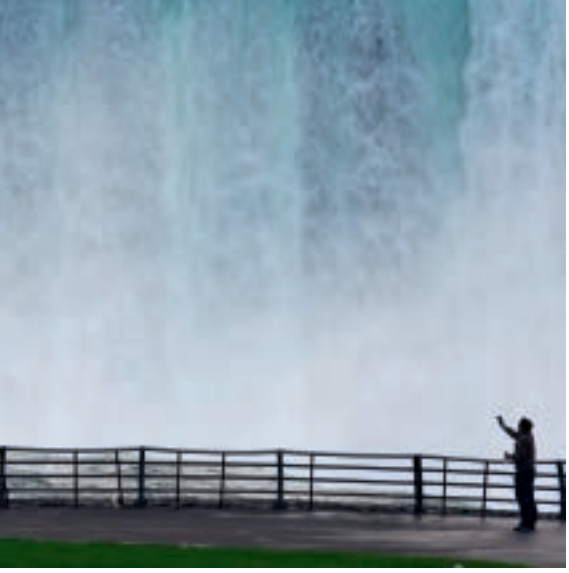
Daikin Integrated Chiller Network

Applicable Series:

- EWAQ080-260DAYN (R-410A)
- EWYQ080-250DAYN (R-410A)
- EWAP110-540MBYN (R-407C)
- EWTP110-540MBYN (R-407C)
- EWAD120-340MBYN (R-134a)
- EWWD120-540MBYN (R-134a)
- EWLD120-540MBYN (R-134a)



Daikin chillers can be equipped with DICN which allows the simultaneous operation of up to 5 chillers as if they were a single unit, in order to deliver the required cooling capacity. This results in precise and efficient capacity control and is also useful for back up purposes, ensuring that the necessary amount of cooling is available and guaranteeing reliable operation of the chiller plant.
This function enables a Daikin 2MW chiller plant to be operated via a single controller.
Please note that DICN is only possible within the same series.



EHMC

Hydraulic Module

- 3 models available
- 100 l tank for all sizes
- freeze up protection
- high static pump (option)
- standard drain kit (for indoor use)
- standard dual pressure ports (before & behind the pump)

EHMC10-15-30AV1010

HYDRAULIC MODULE

			10		15		30	
			1010	**1080**	**1010**	**1080**	**1010**	**1080**
Nominal flow		l/min	62		88		187	
Nominal static height		mH_2O	17	34	15	27	10	27
Nominal input		W	630	1,050	650	1,070	1,070	2,090
Dimensions (HxWxD)		mm	1,284x635x688		1,284x635x688		1,284x635x688	
Machine weight		kg	99	101	102	104	105	111
Sound power		dBA	63		63		63	
Sond pressure		dBA	52		52		52	
Power supply		V1	230V/1~/50Hz					
Operation range	Water side	°CDB	-10°C ~ 55°C					
	Air side	°CDB	-10°C ~ 43°C					
Piping connections	Evaporator water inlet/outlet		1" BSPF		2" BSPF		2-1/2" BSPF	
	Drain connection		1/2"					

FWB

Concealed Ceiling Unit

ECFWER6

FWB04AAT

- Height of the units only 240mm for all the sizes
- 3, 4 or 6 stage row cooling coil
- Drain pan to collect the condensate from: heat exchanger and regulating valves
- 7-speed electrical motors (with thermal protection on windings)
- All 7 speeds pre-wired in the factory in the terminal block of the switch box
- Standard air filter : removable from the bottom

FWB				2-PIPES								
				02	03	04	05	06	07	08	09	10
Power input			W	106			192			294		
Capacity	Cooling capacity	Total capacity	kW	2.61	3.14	3.49	5.08	5.45	6.47	7.57	8.67	10.34
	Heating capacity (2-pipe)		kW	5.47	6.01	6.47	10.31	11.39	12.28	15.05	16.85	18.78
	Heating capacity (4-pipe)*		kW	3.14			5.99			12.80		
Dimensions	(Height x Width x Depth)		mm	239x1039x609			239x1389x609			239x1739x609		
Machine weight			kg	23	24	26	31	33	35	43	45	48
Sound level	Sound power		dBA	58			60			69		
Water pressure drop	Cooling		kPa	8	14	11	15	8	14	21		26
	Heating		kPa	7	10	8	12	7	10	16	15	18
Fan	Air flow rate		m³/h	400			800			1200		
	Available pressure		Pa	71			65			59		
Water connections	Std. heat exchanger		inch	3/4								
Required power supply			V / f / Hz	230/1/50								

* Heating module available as option

FWB-J

Concealed Ceiling Unit

EC8100A

RC8100A

FWB02JT

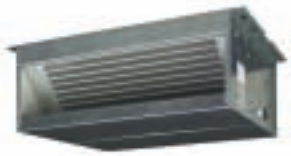
- Wide operating range
- Quiet operation via enlarged fan wheels
- Easy maintenance: filter can be removed from both sides and beneath (maximum filter size is 400mm)
- Flexibility (2-pipe or 4-pipe)
- 4 speed fan motor (3 selectable)
- Direct driven centrifugal fans
- Flexibility via interchangeable water connection side
- High power air flow
- Slim and compact aesthetic design
- Available static pressure of 30 Pa
- Extended drain pan as standard
- Filter as standard
- Plenum as standard
- Insulated with self-extinguishing class 1 heat insulation
- Electronic room thermostat

FWB-J				2-PIPES										4-PIPES						
				02	03	04	05	06	07	08	09	10	11	02	03	04	06	07	08	10
Power input			W	34	53	57	54	86	121	117	134	164	166	34	51	54	84	117	137	163
Capacity	Cooling capacity	Total capacity	kW	1.64	2.67	2.99	3.34	4.81	5.31	6.16	7.26	8.49	8.99	1.67	2.67	3.03	4.88	5.33	6.53	8.21
	Heating capacity (2-pipe)		kW	2.16	3.62	3.97	4.11	6.30	7.47	8.09	9.64	11.57	11.71	2.12	3.69	3.87	6.40	7.52	9.01	11.09
	Heating capacity (4-pipe)		kW	-										2.49	3.92	4.43	6.70	8.16	9.56	11.68
Dimensions	(Height x Width x Depth)		mm	251x814x590	251x984x590	251x1,114x590		251x1,314x590	251x1,564x590		251x1,664x590	251x1,924x590		251x814x590	251x984x590	251x1,114x590	251x1,314x590	251x1,564x590	251x1,664x590	251x1,924x590
Machine weight			kg	20.0	23.0	28.0	31.0	33.0	44.0	48.0	52.0	50.0	56.0	22.0	27.0	31.0	36.0	48.0	52.0	56.0
Sound level	Sound power		dBA	47.5	52	49	50	52			55	55.5	56	47	52	50	52		55	56
Water pressure drop	Cooling		kPa	10.91	8.34	15.64	11.22	31.31	12.56	7.62	9.83	21.71	16.81	10.95	8.24	15.67	29.95	9.24	12.49	19.38
	Heating		kPa	8.86	6.76	12.84	9.21	25.87	11.13	6.57	8.60	18.56	14.46	8.94	6.64	12.84	24.16	7.89	9.67	16.50
Fan	Air flow rate		m³/h	262	428	431	428	757	945	950	1,066	1,463	1,341	220	424	437	747	898	1,112	1,385
	Available pressure		Pa	30																
Water connections	Std. heat exchanger		inch	3/4																
Required power supply			V / f / Hz	220-240 / 1 / 50																

FWD

Flexi Type Unit

ECFWER6



FWD04A

FWD04A

- Quick fixing system for wall/ceiling mounting
- Straight duct connector is mounted to discharge side
- Standard air filter : removable from the bottom

FWD				2-PIPES							4-PIPES						
				04	06	08	10	012	016	018	04	06	08	10	012	016	018
Power input			W	234	349	443		714	1197		234	349	443		714	1197	
Capacity	Cooling capacity	Total capacity	kW	3.90	6.20	7.80	8.82	11.90	16.40	18.30	3.90	6.20	7.80	8.82	11.90	16.40	18.30
	Heating capacity (2-pipe)		kW	4.05	7.71	9.43	10.79	14.45	19.81	21.92	-						
	Heating capacity (4-pipe)		kW	-							4.49	6.62	9.21		15.86	21.15	
Dimensions	(Height x Width x Depth)		mm	280x754x559	280x964x559	280x1174x559		352x1174x718	352x1384x718		280x754x559	280x964x559	280x1174x559		352x1174x718	352x1384x718	
Machine weight			kg	33	41	47	49	65	77	80	35	43	50	52	71	83	86
Sound level	Sound power		dBA	66	69	72		74	78		66	69	72		74	78	
Water pressure drop	Cooling		kPa	17	24		16	26	34	45	17	24		16	26	34	45
	Heating		kPa	14	20		13	21	28	37	9	15	13		12	16	
Fan	Air flow rate		m³/h	800	1250	1600		2200	3000		800	1250	1600		2200	3000	
	Available pressure		Pa	66	58	68	64	97	145	134	63	53	63	59	92	138	128
Water connections	Std. heat exchanger		inch	3/4				1			3/4				1		
Required power supply			V / f / Hz	230/1/50													

FWV

Floor Standing Unit

ECFWER6 ECFWEB6

FWV02CAT

- Quick fixing system for wall mounting
- Pre-assembled 3-way/4-port ON/OFF valves are available
- Valve packages are insulated, no extra drain pan required
- Valve packages contain balancing valves and sensor pocket
- Fast-on connections for electrical options : no tools needed
- Quick removal of washable filter
- Electrical heater : no relay up to 2kw capacity
- Electrical heater : equipped with two overheat cut-out thermostats

FWV				2-PIPES							4-PIPES						
				01	02	03	04	06	08	10	01	02	03	04	06	08	10
Power input			W	37	53	56	98		182	244	37	53	56	98		182	244
Capacity	Cooling capacity	Total capacity	kW	1.54	2.09	2.93	4.33	4.77	6.71	8.02	1.46	1.90	2.87	4.33	4.67	6.64	7.88
	Heating capacity (2-pipe)		kW	2.14	2.57	3.81	5.63	6.36	7.83	10.03	-						
	Heating capacity (4-pipe)		kW	-							1.90	2.10	3.08	5.05	5.30	7.91	9.30
Dimensions	(Height x Width x Depth)		mm	564x774x226		564x984x226	564x1194x226		564x1404x251		564x774x226		564x984x226	564x1194x226		564x1404x251	
Machine weight			kg	19	20	25	30	31	41		20	21	26	32	33	44	
Sound level	Sound power		dBA	45	50	47	52	56	61	66	45	50	47	52	56	61	66
Water pressure drop	Cooling		kPa	13		11	12	14	12	19	13		11	12	14	12	19
	Heating		kPa	9	11	9		10	9	16	7	8	5	10		8	9
Fan	Air flow rate		m³/h	319	344	442	706	785	1011	1393	307	327	431	690	763	998	1362
Water connections	Std. heat exchanger		inch	1/2					3/4		1/2					3/4	
Required power supply			V / f / Hz	230/1/50													

FWT

Wall Mounted Unit

MERCA WRC COA-HPA FWT05-06AT

- Wide operating range
- Quiet operation with auto-swing comfort
- Easy to install and maintain
- 3 speed fan motor
- Double-intake centrifugal fans
- Excellent air flow and air distribution
- Flexibility via interchangeable water connection side
- High power air flow
- Insulated with self-extinguishing class 1 heat insulation
- Removable washable air filter (self-extinguishing class 1)
- Slim and compact aesthetic design
- Wireless remote control up to 9m distance, availability of a wired or simplified controller
- LED indicator gives an indication on the (normal or wrong) operation of the unit

FWT				2-PIPES				
				02	**03**	**04**	**05**	**06**
Power input			W	24	25	29	66	69
Capacity	Cooling capacity	Total capacity	kW	2.34	2.78	3.22	4.54	5.28
	Heating capacity (2-pipe)		kW	3.02	3.75	4.10	6.01	6.74
Dimensions	(Height x Width x Depth)		mm	260x799x198	260x899x198		304x1,062x222	
Machine weight			kg	10.0	12.0		16.0	
Sound level	Sound power		dBA	53		55	61	64
Water pressure drop	Cooling		kPa	48.3	64.7	69.3	50.3	69.3
	Heating		kPa	42	58.6	60.6	50.6	70.6
Fan	Air flow rate		m³/h	467	510	586	1,070	1,121
Water connections	Std. heat exchanger		inch	1/2''				
Required power supply			V / f / Hz	220-240 / 1 / 50				

FWM

Flexi Type Unit

ECFWER6

FWM01C

FWM01C

- Quick fixing system for wall/ceiling mounting
- Pre-assembled 3-way/4-port ON/OFF valves are available
- Valve packages are insulated, no extra drain pan required
- Valve packages contain balancing valves and sensor pocket
- Fast-on connections for electrical options : no tools needed
- Quick removal of washable filter
- Electrical heater : no relay up to 2kw capacity
- Electrical heater : equipped with two overheat cut-out thermostats

FWM				2-PIPES							4-PIPES						
				01	02	03	04	06	08	10	01	02	03	04	06	08	10
Power input			W	37	53	56	98		182	244	37	53	56	98		182	244
Capacity	Cooling capacity	Total capacity	kW	1.54	2.09	2.93	4.33	4.77	6.71	8.02	1.46	1.90	2.87	4.33	4.67	6.64	7.88
	Heating capacity (2-pipe)		kW	2.14	2.57	3.81	5.63	6.36	7.83	10.03	-						
	Heating capacity (4-pipe)		kW	-							1.90	2.10	3.08	5.05	5.30	7.91	9.30
Dimensions	(Height x Width x Depth)		mm	535x584x224		535x794x224	535x1004x224		535x1214x249		535x584x224		535x794x224	535x1004x224		535x1214x249	
Machine weight			kg	14	15	19	23		32		15	16	20	25		34	
Sound level	Sound power		dBA	45	50	47	52	56	61	66	45	50	47	52	56	61	66
Water pressure drop	Cooling		kPa	13		11	12	14	12	19	13		11	12	14	12	19
	Heating		kPa	9	11	9		10	9	16	7	8	5	10		8	9
Fan	Air flow rate		m³/h	319	344	442	706	785	1011	1393	307	327	431	690	763	998	1362
Water connections	Std. heat exchanger		inch	1/2					3/4		1/2					3/4	
Required power supply			V / f / Hz	230/1/50													

FWL

Flexi Type Unit

ECFWER6 ECFWEB6

FWL03C

FWL03C

- Quick fixing system for wall/ceiling mounting
- Pre-assembled 3-way/4-port ON/OFF valves are available
- Valve packages are insulated, no extra drain pan required
- Valve packages contain balancing valves and sensor pocket
- Fast-on connections for electrical options : no tools needed
- Quick removal of washable filter
- Electrical heater : no relay up to 2kw capacity
- Electrical heater : equipped with two overheat cut-out thermostats

FWL				2-PIPES							4-PIPES						
				01	02	03	04	06	08	10	01	02	03	04	06	08	10
Power input			W	37	53	56	98		182	244	37	53	56	98		182	244
Capacity	Cooling capacity	Total capacity	kW	1.54	2.09	2.93	4.33	4.77	6.71	8.02	1.46	1.90	2.87	4.33	4.67	6.64	7.88
	Heating capacity (2-pipe)		kW	2.14	2.57	3.81	5.63	6.36	7.83	10.03	-						
	Heating capacity (4-pipe)		kW	-							1.90	2.10	3.08	5.05	5.30	7.91	9.30
Dimensions	(Height x Width x Depth)		mm	564x774x226		564x984x226	564x1194x226		564x1404x251		564x774x226		564x984x226	564x1194x226		564x1404x251	
Machine weight			kg	20	21	27	32	33	44		21	22	28	34	35	46	
Sound level	Sound power		dBA	45	50	47	52	56	61	66	45	50	47	52	56	61	66
Water pressure drop	Cooling		kPa	13		11	12	14	12	19	13		11	12	14	12	19
	Heating		kPa	9	11	9		10	9	16	7	8	5	10		8	9
Fan	Air flow rate		m³/h	319	344	442	706	785	1011	1393	307	327	431	690	763	998	1362
Water connections	Std. heat exchanger		inch	1/2					3/4		1/2					3/4	
Required power supply			V / f / Hz	230/1/50													

FWC

4-Way Blow Ceiling Mounted Cassette

MERCA WRC COA-HPA FWC08AAT

- Wide operating range
- Quiet operation with auto-swing comfort
- Easy to install and maintain
- Flexibility (2-pipe or 4-pipe)
- 3 speed fan motor
- Double-intake centrifugal fans
- 4 way air discharge and air swing
- Air suction from underneath
- High power air flow
- Slim front panel and aesthetic design
- Removable washable air filter (self-extinguishing class 1)
- Built-in high pressure drain pump (up to 700mm condensate water can be pumped)
- Wireless controller as standard with decoration panel kit

FWC				2-PIPES					4-PIPES				
				02	03	04	05	06	07	08	10	11	12
Power input			W	127	151	164	192	253	122	138	153	184	232
Capacity	Cooling capacity	Total capacity	kW	6,63	7,50	8,80	9,95	10,80	3,81	3,96	4,63	5,01	5,16
	Heating capacity (2-pipe)		kW	8,40	9,50	11,00	12,00	12,90	-				
	Heating capacity (4-pipe)		kW	-					10,55	10,99	12,51	13,48	13,77
Dimensions	(Height x Width x Depth)		mm	335x820x821									
Machine weight			kg	31,0	32,0	35,0	38,0	40,0	31,0	32,0	35,0	38,0	40,0
Sound level	Sound power		dBA	52	55	60	61	64	52	55	60	61	64
Water pressure drop	Cooling		kPa	24,8	30,8	41,6	52,2	69,3	3,56	3,78	4,94	5,7	5,96
	Heating		kPa	21,4	26,8	35,3	45,2	64,1	-				
Fan	Air flow rate		m³/h	1,310	1,380	1,560	1,740	1,840	1,310	1,380	1,560	1,740	1,840
Water connections	Std. heat exchanger		inch	3/4''									
Required power supply			V / f / Hz	220-240 / 1 / 50									

FWF

4-Way Blow Ceiling Mounted Cassette

MERCA | WRC COA-HPA | FWF-AT

- Wide operating range
- Quiet operation with auto-swing comfort
- Easy to install and maintain
- 3 speed fan motor
- Double-intake centrifugal fans
- 4 way air discharge and air swing
- Air suction from underneath
- High power air flow
- Slim front panel and aesthetic design
- Tile size decoration panel
- Removable washable air filter (self-extinguishing class 1)
- Built-in high pressure drain pump (up to 700mm condensate water can be pumped)
- Wireless controller as standard with decoration panel kit

FWF				2-PIPES		
				02	**03**	**04**
Power input			W	51	75	78
Capacity	Cooling capacity	Total capacity	kW	2.34	4.10	4.25
	Heating capacity (2-pipe)		kW	3.22	5.12	5.42
Dimensions	(Height x Width x Depth)		mm	250x570x570		
Machine weight			kg	22.0	23.0	
Sound level	Sound power		dBA	54	53	56
Water pressure drop	Cooling		kPa	67.3	68.6	68.8
	Heating		kPa	61.9	70.5	71.2
Fan	Air flow rate		m³/h	662		731
Water connections	Std. heat exchanger		inch	3/4		
Required power supply			V / f / Hz	220-240 / 1 / 50		

CONVENI-PACK

The Food Retailing Revolution that Saves Space and Reduces Energy Consumption

Conveni-pack is a highly innovative and revolutionary system that has been developed by Daikin to address the requirements of a challenging retail environment.

Conveni-pack integrates heating, cooling and low/high temperature refrigeration in one system.

Heating, cooling and refrigeration in one system?

You are not dreaming. Conveni-pack consists of heating, cooling **AND** low/high refrigeration units, all combined in a single, compact and integrated system.

Until now, conventional systems for low/high refrigeration, heating and cooling systems have been separated from one another, requiring space and numerous piping connections.

Conveni-pack totally revolutionises this approach.

It consists of an inverter driven outdoor unit and indoor air conditioning units that can be connected to low/high temperature refrigeration cabinets and/or unit coolers.

In other words, a single Conveni-pack system combines:
- interior units for heating and cooling
- refrigeration showcases
- deep-freeze cabinets.

A revolution based on a great tradition

It's no surprise that Daikin has innovated such a revolutionary concept, because Conveni-pack is based on a pioneering system that Daikin introduced back in 1985.

Daikin's Variable Refrigerant Volume (VRV®) technology transformed the industry's approach to cooling and heating large buildings. For the first time, multiple indoor heating and cooling units could be connected to a single outdoor unit. Furthermore, the volume of the refrigerant could be varied to respond to changing needs.

The benefits of VRV® are impressive: more accurate temperature control, increased reliability, unheard of efficiencies, and most importantly, energy and cost savings.

Since then, VRV® has become an industry standard and is currently recognised as one of the most efficient and reliable ways to heat and cool all types of buildings.

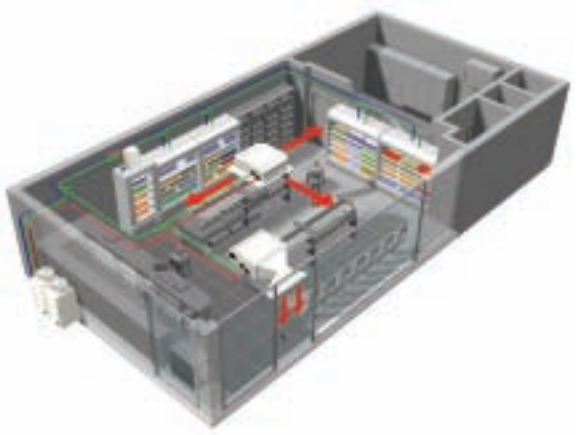
Following in the footsteps of VRV®, comes Conveni-pack, a state-of-the-art solution for today's urban retail environment.

Why do you need Conveni-pack?

- a low energy system
- limits your CO_2 emissions
- optimises your available space
- satisfies your customers

What store size is Conveni-pack suitable for?

Conveni-pack is specifically designed and developed for small to medium-sized stores or petrol stations. Furthermore, the concept is scalable, so can be easily expanded as your facility grows.



Small stores

For small convenience stores and petrol stations, a single Conveni-pack system is all that is required. Compared to conventional systems, a great advantage of Conveni-pack for a small store is the simplified piping required to connect the Conveni-pack outdoor unit to the indoor services. Instead of eight pipes you need just three, as fewer units have to be inter-connected.

Medium-sized stores

For larger applications, multiple outdoor units can be connected to a variety of refrigeration systems and air conditioning units. What's more, the modularity of the Conveni-pack system maximises installation flexibility. Outdoor units can be grouped into blocks or rows, or distributed around the building, to meet specific requirements of the installation. Additionally, the outdoor units can be located above or below the refrigeration cabinets, inside the building and with long runs if required.

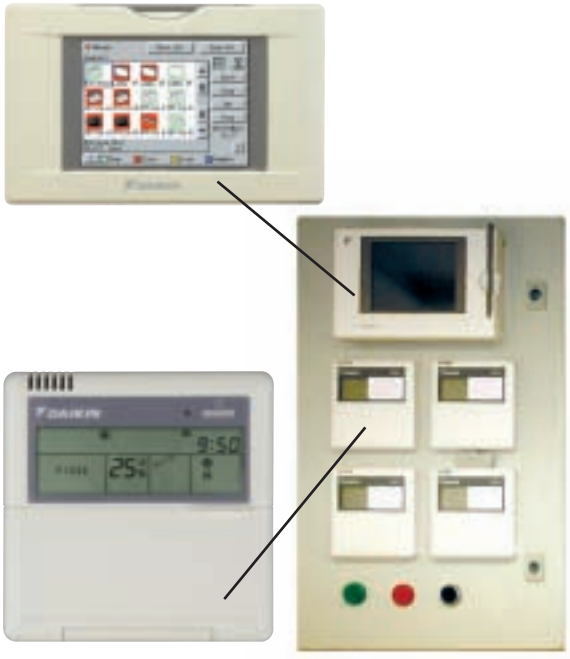
To select multiple systems, use the combined refrigeration and air conditioning loads, as shown in the illustration. Conventional air conditioning or integral refrigeration systems are added where required. This process maximizes the benefits of using Conveni-pack.

What's included in the Conveni-pack system?

The great flexibility of Conveni-pack means you can select exactly the number of systems you require, as well as various indoor unit options to maximise your investment.

Outdoor unit:

The inverter driven outdoor unit has a smaller footprint than standard systems and requires less piping to connect it to the indoor units.



System controller:

The Conveni-pack controller is used for the:
- Control of the air conditioning system
- Display and storage of temperatures for the refrigeration units
- Graphical display for system analysis
- Interface for air conditioning network service systems

4-way blow ceiling mounted cassette

Ceiling suspended unit

High ESP ducted unit

Low ESP ducted unit

Air conditioning indoor units

- 4-Way blow cassettes are suitable for the majority of applications. The number of outlets can be adjusted between four and two, optimising the distribution and avoiding air currents that would disturb the operation of the refrigeration cabinets.
- Ceiling suspended units can be used where no ceiling cavity is available.
- Concealed ceiling units are available in high or low External Static Pressure (ESP) versions for installation where control over the distribution is required, for example between aisles of refrigeration cabinets, or as an energy efficient alternative to direct electric air curtains.

Freezer booster pack

Conveni-pack can be provided with a freezer booster pack for use with low temperature refrigeration. This option brings additional energy savings and simplifies installation by limiting the length of heavily insulated pipe required. The freezer booster pack is installed indoors.
The freezer booster pack contains a satellite compressor which provides the first compression stage from -35°C into the suction line of the high temperature refrigeration. The second stage compression is performed in the outdoor unit. This allows significantly lower compression rates, energy consumption and end temperatures.

Air conditioning network service systems online monitoring service

Air conditioning network service systems is a 24-hour, 7/7 online monitoring service for Conveni-pack that increases the quality of periodic inspection and maintenance. Air conditioning network service systems immediately detects if a malfunction occurs before the tenants are even aware of the situation.

Reliable periodic inspection ensures Conveni-pack always performs at top levels and continues to deliver its energy-saving benefits. Air conditioning network service systems supports this by providing engineers with valuable diagnostic information.

POWER *Supply*

T1 = 3~, 220V, 50HZ
V1 = 1~, 220-240V, 50HZ
VE = 1~, 220-240V, 50HZ/60HZ
V3 = 1~, 230V, 50HZ
VM = 1~, 220~240V/220~230V, 50HZ/60HZ
W1 = 3N~, 400V, 50HZ
Y1 = 3~, 400V, 50HZ

MEASURING *Conditions*

COOLING ONLY

1) nominal cooling capacities are based on:	
indoor temperature	27°CDB/19°CWB
outdoor temperature	35°CDB
refrigerant piping length	7.5m - 8/5m VRV
level difference	0m

HEAT PUMP

1) nominal cooling capacities are based on:	
indoor temperature	27°CDB/19°CWB
outdoor temperature	35°CDB
refrigerant piping length	7.5m - 8/5m VRV
level difference	0m
2) nominal heating capacities are based on:	
indoor temperature	20°CDB
outdoor temperature	7°CDB/6°CWB
refrigerant piping length	7.5m - 8/5m VRV
level difference	0m

CHILLERS:

Air-cooled	cooling only	evaporator: 12°C/7°C	ambient: 35°CDB
	heat pump	evaporator: 12°C/7°C	ambient: 35°C
		condenser: 40°C/45°C	ambient: 7°CDB/6°CWB
Water-cooled	cooling only	evaporator: 12°C/7°C	
		condenser: 30°C/35°C	
	heating only	evaporator: 12°C/7°C	
		condenser: 40°C/45°C	
Remote condenser		evaporator: 12°C/7°C	
		condensing temperature: 45°C / liquid temperature: 40°C	
Remote evaporator	cooling capacity/power input conditions	suction dew point: 5°C	ambient: 35°C
		superheat: 10°C	
Fan coil units	cooling	room temperature: 27°C/19°C	
		entering water temperature: 7°C/12°C	
	heating	room temperature: 20°C	
		water inlet temperature: 50°C (2-pipe)/70°C (4-pipe)	

The sound pressure level is measured via a microphone at a certain distance from the unit. It is a relative value, depending on the distance and acoustic environment (for measuring conditions: please refer to the technical databooks).
The sound power level is an absolute value indicating the "power" which a sound source generates.
For more detailed information please consult our technical databooks.

'We Care' Icons

A number of 'We Care' icons are highlighted in green throughout the catalogue to indicate product features that have an impact on reducing energy consumption:

Night set mode
Saves energy, by preventing overcooling or overheating during night time.

Fan only
The air conditioner can be used as fan, blowing air without cooling or heating.

Econo mode
This function decreases the power consumption so that other applicances that need large power consumption can be used. This function is also energy saving.

Energy efficiency
Daikin air conditioners are energy efficient and economical.

Movement sensor
The sensor detects whether someone is in the room. When the room is empty, the unit switches to economy mode after 20 minutes and restarts when a person enters the room.

Home leave operation
During absence, the indoor temperature can be maintained at a certain level.

Vertical auto swing
Possibility to select automatic vertical moving of the air discharge louvre, for uniform air flow and temperature distribution.

24 Hour timer
Timer can be set to start cooling/heating anytime during a 24-hour period.

Horizontal auto swing
Possibility to select automatic horizontal moving of the air discharge louvre, for uniform air flow and temperature distribution.

Infrared remote control
Infrared remote control with LCD to start, stop and regulate the air conditioner from a distance.

Draught prevention
When starting to warm up or when the thermostat is off, the air discharge direction is set horizontally and the fan to low speed, to prevent draught. After warming up, air discharge and fan speed are set as desired.

Ceiling soiling prevention
A special function prevents air blowing out too long in horizontal position, to prevent ceiling stains.

Auto-restart
The unit restarts automatically at the original settings after power failure.

Self-diagnosis
Simplifies maintenance by indicating system faults or operating anomalies.

Auto cooling-heating changeover
Automatically selects cooling or heating mode to achieve the set temperature (heat pump types only).

Scroll compressor
Silent, reliable Daikin compressor used in medium sized outdoor units.

Dry programme
Allows humidity levels to be reduced without variations in room temperature.

Single screw compressor
Compact, high efficient, silent reliable Daikin compressor.
Maintenance free (inspection only after 40,000 hours of operation)

Auto fan speed
Automatically selects the necessary fan speed to reach or maintain the set temperature.

Wired remote control
Wired remote control to start, stop and regulate the air conditioner from a distance.

Fan speed steps
Allows to select up to the given number of fan speed.

Whisper quiet
Daikin indoor units are whisper quiet. Also the outdoor units are guaranteed not to disturb the quiet of the neighbourhood.

Double thermostat function
Controls the temperature via a sensor on the air conditioner or via a sensor on the remote control.

Air filter
Removes airborne dust particles to ensure a steady supply of clean air.

Air purification filter
Removes airborne dust particles and prevents the propagation of bacteria and viruses to ensure a steady supply of clean air.

Photocatalytic deodorising filter
Removes airborne dust particles, decomposes odours and restrains the reproduction of bacteria, viruses, microbes, this to ensure a steady supply of clean air.

Drain pump kit
Facilitates condensation draining from the indoor unit.

Twin/triple/double twin application
2, 3 or 4 indoor units can be connected to only 1 outdoor unit even if they have different capacities. All indoor units operate within the same mode (cooling or heating) from one remote control.

Multi model application
Up to 5 indoor units (even different capacities) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.

Super multi plus
Up to 9 indoor units (even different capacities and up to 71 class) can be connected to a single outdoor unit. All indoor units can individually be operated within the same mode.

Powerful mode
If the temperature in the room is too high/low, it can be cooled down/heated quickly by selecting the 'powerful mode'. After the powerful mode is turned off, the unit returns to the preset mode.

Centralised control
Centralised control to start, stop and regulate several air conditioners from one central point.

Comfortable sleeping mode
Increased comfort function that follows a specific temperature fluctuation rhythm.

Timer
Allows to preset the air conditioner to start/stop at a specified time.

Outdoor unit silent operation
Lowers the operation sound of the outdoor unit by 3dB(A) to ensure a quiet environment for the neighbourhood.

Indoor unit silent operation
Lowers the operation sound of the indoor unit by 3dB(A). This function is useful when studying or sleeping.

Night quiet mode (cooling only)
Lowers the operation sound of the outdoor unit automatically by 3dB(A) by removing a jumper wire on the outdoor unit. This function can be deactivated if the jumper wire is reinstalled on the outdoor unit.

Comfort mode
The new flap changes the discharge angle horizontally for cooling operation and downward vertically for heating operation. This in order to prevent cold or warm air from blowing directly on the body.

3-D Air flow
This function combines Vertical and Horizontal auto-swing to circulate a stream of cool/warm air right to the corners of even large spaces.

In all of us, a green heart

Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues.
For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment.
This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

CE

Daikin units comply with the European regulations that guarantee the safety of the product.

EUROVENT CERTIFIED PERFORMANCE

Daikin Europe N.V. participates in the Eurovent Certification Programme for Air Conditioners (AC), Liquid Chilling Packages (LCP) and Fan Coil Units (FC); the certified data of certified models are listed in the Eurovent Directory. Multi units are Eurovent certified for combinations up to 2 indoor units. VRV products, Rooftops, FWB-J and FWD-units are not within the scope of the Eurovent Certification Programme.

FSC
Mixed Sources
Product group from well-managed forests, controlled sources and recycled wood or fibre

Cert no. SGS-COC-003332
www.fsc.org
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