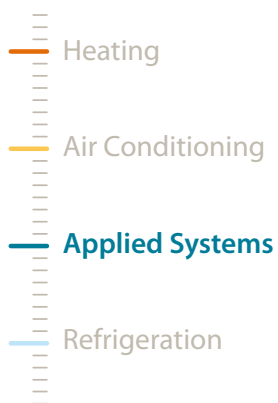


Industrial Catalogue

° All Seasons
CLIMATE COMFORT





No matter how large your premises and whatever your air conditioning needs, there is a Daikin chilled water system to suit your requirements. It is a system that has proved its worth in a multiplicity of situations - from industrial sites to retail warehouses, hotels and department stores.

The careful development of closely matched compressor/refrigerant combinations, has enabled Daikin to produce complete ranges of water chillers — genuinely optimised for use with R-134a, R-407C and R-410A refrigerants.

Daikin chillers offer the ultimate in flexibility and control — a reflection of the advanced technology inherent within them. Unique in their precision, power, low operating noise, easy maintenance and low running costs, Daikin chillers represent the sure and safe route to an indoor environment that is comfortable, clean and consistent.

As a manufacturer that makes its own refrigerant and compressors, Daikin has total control at the production stage. Daikin also offers a complete range of air handling units to meet modern day requirements for better indoor air quality and increased insulation standards.

It is this unique combination of advanced technology, experience and reliability that makes Daikin the obvious choice and long term solution for the professional.

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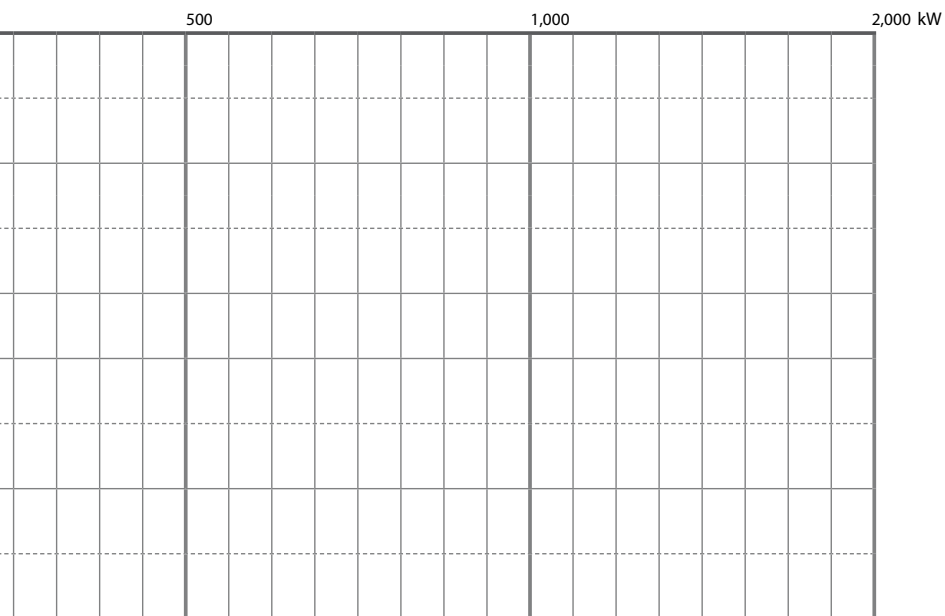
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PRODUCT PORTFOLIO AIR COOLED

Type	Compr.	Refr.	Mode	Reference	Packshot	0	17.5	200
A/C	SWING	R-410A		EWAQ005-007ACV3				
	SCROLL			EWAQ009-011ACV3				
				EWAQ009-013ACW1				
	SWING	R-410A		EWYQ005-007ACV3				
	SCROLL			EWYQ009-011ACV3				
				EWYQ009-013ACW1				
	SCROLL	R-407C		EUWAC5-10FZW				
				EUWA*5-24KAZW				
				EUWY*5-24KAZW				
		R-410A		EWAQ080-260DAYN				
				EWYQ080-250DAYN				

PRODUCT PORTFOLIO WATER COOLED

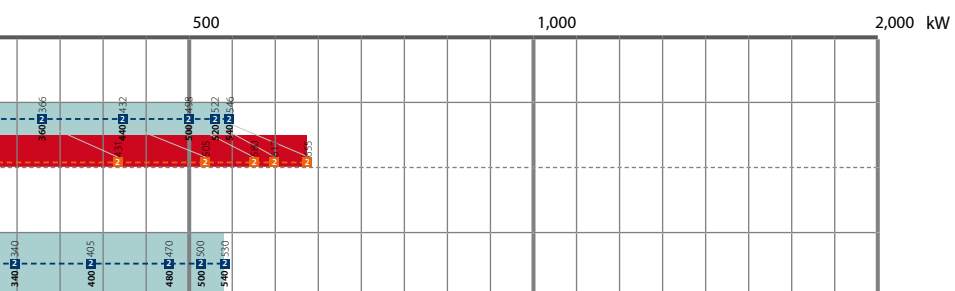
Type	Compr.	Refr.	Mode	Reference	Packshot	0	17.5	200
W/C	SCROLL	R-407C		EWWP014-065KAW1N				
	SCREW	R-134a		EWWD120-540MBYNN				
C/C	SCROLL	R-407C		EWLP012-65KAW1N				
	SCREW	R-134a		EWLD120-540MBYNN				



A/C = Air Cooled
W/C = Water Cooled
C/C = Condenserless Chiller

 = Cooling Only
 = Heating Only
 = Heat Pump

 = Heating
 = Cooling





OPTIONS PORTFOLIO

Type	Compr.	Refr	Mode	Reference	Products	Integrated Hydraulics							Noise & Head		
						Single pump contact	Twin pump contact	Single pump	Twin pump	High ESP pump	High ESP twin pump	Buffer tank	Reduced Noise	Low noise	Inverter fans
						OPSC	OPTC	OPSP	OPTP	OPHP	OPHT	OPBT	OPRN	OPLN	OPIF
A/C	SWING	R-410A	❄️	EWAQ-ACV3P	005-006-007			STD							
			🔥	EWYQ-ACV3P	005-006-007			STD							
	SCROLL	R-410A	❄️	EWAQ-ACV3 (7)	009-010-011			STD							
			❄️	EWAQ-ACW1 (7)	009-011-013			STD							
			🔥	EWYQ-ACV3 (7)	009-010-011			STD							
			🔥	EWYQ-ACW1 (7)	009-011-013			STD							
		R-407C	❄️	EUWAC-FZW	5-8-10										
			❄️	EUWAN-KAZW	5-8-10-12-16-20-24					•					
			❄️	EUWAP-KAZW	5-8-10-12-16-20-24					•		STD			
			❄️	EUWAB-KAZW	5-8-10-12-16-20-24					•					
			🔥	EUWYN-KAZW	5-8-10-12-16-20-24					•					
			🔥	EUWYP-KAZW	5-8-10-12-16-20-24					•					
			❄️	EUWYB-KAZW	5-8-10-12-16-20-24					•		STD			
		R-410A	❄️	EWAQ-DAYNN	080-100-130-150-180-210-240-260	•	•	•	•	•		•		•	•(1)
			🔥	EWYQ-DAYNN	080-100-130-150-180-210-230-250	•	•	•	•	•		•		•	•(1)
W/C	SCROLL	R-407C	❄️🔥	EWWP-KAW1N	014-022-028-035-045-055-065										
	SCREW	R-134a	❄️🔥	EWWD-MBYNN	120-180-240-280-360-440-500-520-540									•	
C/C	SCROLL	R-407C	❄️	EWLP-KAW1N	012-020-026-030-040-055-065										
	SCREW	R-134a	❄️	EWLD-MBYNN	120-170-240-260-340-400-480-500-540									•	

-  Cooling Only
-  Heating Only
-  Heat Pump

(s) OP12 & OP03 need to be added to meet Swedish national law 1992: 16

Pressure Control			Heat Recovery		LWE		Electrical							Refrigerant				Condenser						Misc
Fan Silent	Low Ambient	High ESP fans	Total Heat Recovery	Partial Heat Recovery	High Glycol	Low Glycol	Evaporator heater tape	Main switch	Soft starter	Power factor 0,9	A/V meter	Address card	No switchbox	Electronic Expansion Valve	Dual pressure relief valve	Suction stop valve	Gauges	Coil guards	Blank Cu / Al coils	Cu / Sn coils	Cu / Cu coils	Cu / Ni heat exchanger	Spring Anti Vibration Mounts	
OPFS	OPLA	OPHF	OPTR	OPPR	OPZH	OPZL	OP10	OP52	OPSS	OPPF	OP57	OPAC	OPNS	OPEX	OP03	OP12	OPGA	OPCG	OPAL	OPSN	OPCU	OPNI	OPSV	
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						•	•	STD			•				•(s)	•(s)		•						
						•	•	STD			•				•(s)	•(s)		•						
					•	•																		
								•			•				•(s)	•(s)								
					•	•																		
								•			•				•(s)	•(s)								

ACCESSORIES PORTFOLIO

	Air-cooled Chillers			Water-cooled Chillers			
	EUWAC-FZW	EUWA/Y*-KAZW1	EWA/YQ-DAYN	EWWP-KAW1N	EWLP-KAW1N	EWWD~MB	EWLD-MBYNN
Panels							
EKDSSP							
EKDSSP-S							
EKDDSP							
EKPWPRO							
EKPWPROM							
Serial Cards & Comm. Modules							
EKAC10B	•	•		•	•		
EKACPG			•				
EKAC200A						•	
EKAC200J							
EKACBAC							
EKACLON							
EKACLONP							
EKACRS232							
EKACWEB							
EKACBACMSTP							
EKACBACCERT							
EKCM200J							
EKCMLON							
EKCMBACMSTP							
EKCMBACIP							
LON Gateway							
EKLONPG			•				
Other Systems & Accessories							
EKCON							
EKCONUSB							
EKMODEM							
EKGSMOD							
EKRUPCJ							
EKRUPCK							
EKRUPCS							
EKPWPPOEXT							
EKGWWEB							
EKGWMODEM							
EKBNPG			•				
EKBMSBNA	• *	• *		• *		•	
EKBMSMBA	• *	• *		• *		•	
EKRUPC						•	
EKRUPG			•				
EHMC10A10	•			•			
EHMC10A80	•			•			
Gauges							
EKGAU5/8KA		• (5-8)					
EKGAU10/12KA		• (10-12)					
EKGAU16KA		• (16)					
EKGAU20/24KA		• (20-24)					
Soft starter							
EKSS		• (5-12)		• (014-045)	• (012-030)		
Buffer tank							
EKBT							
EKBT500N - EKBTC10N - EKBT500C - EKBTC10C							
Waterpipe kit							
EKGN210			• (080-210)				
EKGN260			• (EWAQ240-260DAYN & EWYQ230-250DAYN)				

* To install EKBMSMBA, EKBMSBNA, EKAC10B needs to be installed on the unit.

Type: FWM, FWL, FWV	1	2	3	4	6	8	10	FWV	FWL	FWM	
Description											
Additional single row heat exchanger	ESRH02A6		ESRH03A6	ESRH06A6		ESRH10A6		x	x	x	
Electric heater	EEH01A6	EEH02A6	EEH03A6	EEH06A6		EEH10A6		x	x	x	
2-pipe 3-way valve	E2MV03A6			E2MV06A6		E2MV10A6		x	x	x	
4-pipe 3-way valve	E4MV03A6			E4MV06A6		E4MV10A6		x	x	x	
Fan stop thermostat	YFSTA6							x	x	x	
Air intake & discharge grille	EAIDF02A6		EAIDF03A6	EAIDF06A6		EAIDF10A6		-	-	x	
Supporting feet	ESFV06A6			ESFV10A6			x	-	x		
Supporting feet grille	ESFVG02A6		ESFVG03A6	ESFVG06A6		ESFVG10A6		x	-	-	
Fresh air intake	EFA02A6		EFA03A6	EFA06A6		EFA10A6		x	x	x	
Rear panel	ERP02A6		ERP03A6	ERP06A6		ERP10A6		x	x	-	
Control electromechanical	ECFWMB6							x	x	-	
Electronic controller	FWEC1A, FWEC2A, FWEC3A							x	x	x	
Master slave option				EPIMSA6					x	x	x
Vertical drainpan				EDPVA6					x	x	x
Horizontal drainpan				EDPHA6					-	x	x
On board installation kit				FWECKA					x	x	-
Temperature sensor kit				FWTSKA					x	x	x
Relative humidity sensor kit				FWHSKA					x	x	x

Type: FWB	2-4	5-7	8-10
Description			
Additional heat exchanger	EAH04A6	EAH07A6	EAH10A6
3-way valve add. h/e	E2MV307A6		E2MV310A6
3-way valve cooling h/e	Factory mounted		
2-way valve add. h/e	E2MV207A6		E2MV210A6
2-way valve cooling h/e	Factory mounted		
Electric Heater	Factory mounted		
Fan stop thermostat	YFSTA6		
Master slave interface	EPIMSB6		
Electronic controller	FWEC1A		
	FWEC2A		
	FWEC3A		
Temperature sensor kit	FWTSKA		
Relative humidity sensor kit	FWHSKA		

Type: FWD		4	6	8	10	12	16	18
Description								
Electric heater: small	(1)	EDEH04A6	EDEHS06A6	EDEHS10A6		EDEHS12A6	EDEHS18A6	
Electric heater: big		EDEH04A6	EDEHB06A6	EDEHB10A6		EDEHB12A6	EDEHB18A6	
2-pipe 3-way valve	(2)	ED2MV04A6	ED2MV10A6			ED2MV12A6	ED2MV18A6	
4-pipe 3-way valve		ED4MV04A6	ED4MV10A6			2xED2MV12A6	2 x ED2MV18A6	
Vertical Drainpan		EDDPV10A6				EDDPV18A6		
Horizontal Drainpan		EDDPH10A6				EDDPH18A6		
Fan stop thermostat		YFSTA6						
Fresh air intake		EDMFA04A6	EDMFA06A6	EDMFA10A6		EDMFA12A6	EDMFA18A6	
Electronic controller	(3)	FWEC1A,						
		FWEC2A						
		FWEC3A						
Power interface		EPIB6						
Master slave interface		EPIMSA6						
Temperature sensor kit		FWTSKA						
Relative humidity sensor kit		FWHSKA						

(1) Requires electronic controller

(2) For FWD 12,16,18 only motor valve (piping not included)

(3) Water probe included



Daikin Europe N.V.

ABOUT DAIKIN

Daikin has a worldwide reputation based on 85 years' experience in the successful manufacture of high quality air conditioning equipment for industrial, commercial and residential use.

DAIKIN QUALITY

Daikin's much envied quality quite simply stems from the close attention paid to design, production and testing as well as aftersales support. To this end, every component is carefully selected and rigorously tested to verify its contribution to product quality and reliability.

ENVIRONMENTAL AWARENESS



DAIKIN AND THE ENVIRONMENT

Air conditioning systems provide a significant level of indoor comfort, making possible optimum working and living conditions in the most extreme climates. In recent years, motivated by a global awareness of the need to reduce the burdens on the environment, some manufacturers including Daikin have invested a great deal in limiting the negative effects associated with the production and the operation of air conditioners.

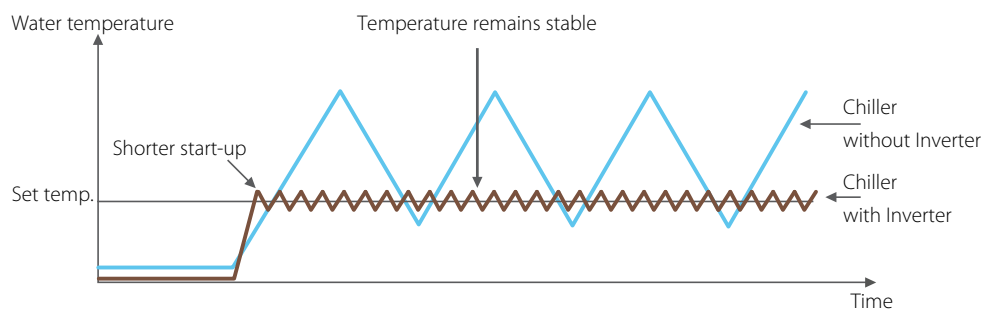
Hence, models with energy saving features and improved eco-production techniques have seen the light of day, making a significant contribution to limiting the impact on the environment.



SMART CONTROL BRINGS COMFORT AND REDUCES ENERGY CONSUMPTION

Inverter technology used in the air cooled Mini Chiller (EWAQ-AC & EWYQ-AC), allows more precise control of the leaving water condition in function of the load. This leads to energy savings and high comfort levels, ensuring it is never too cool or too hot. This is a major advantage over standard fixed speed models, which use on/off cycling of the compressor, creating greater fluctuations in control conditions.

INVERTER TECHNOLOGY



Inverter technology offers improved levels of comfort:

- › Energy efficient: Continuous matching of load requirement
- › Start-up time is reduced by 1/3
- › Less frequent start/stop cycles
- › Reduced sound pressure levels
- › High EER/COP values



HEAT RECOVERY

In many applications there often exists a simultaneous cooling and heating demand requirement alongside one another. To benefit from this, Daikin offers chillers with the option of heat recovery. This option further increases the application flexibility and extends possibilities in the hotel and leisure industry as well as the industrial and process sectors.

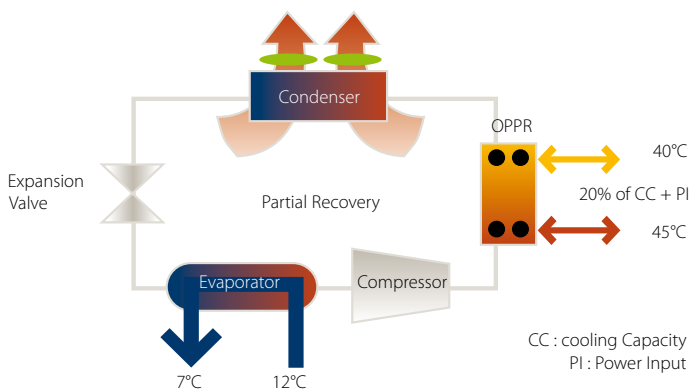
By energetically recovering useful heat from the cooling cycle that would otherwise be rejected to the outside, extremely high COPs can be realised in heat recovery mode. The heat recovery unit aims to achieve an optimum balance between cooling and heat recovery to maximize the unit efficiency and offer savings in hot water production.

Depending on the temperature requirement either partial heat recovery or full heat recovery may be selected.

AIR - COOLED

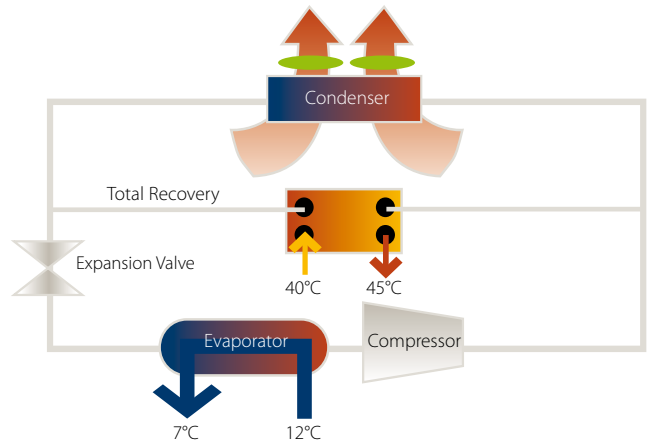
OPPR – Partial heat recovery

A stainless steel brazed plate heat exchanger is mounted in series between the compressor and air cooled condenser as a desuperheater. The sensible heat from the hot discharge gas will be recovered, while the latent heat exchange will occur in the air cooled condenser. The units efficiency is maintained as condensing pressure can be reduced due to air cooled condenser becoming oversized.



OPTR – Total heat recovery

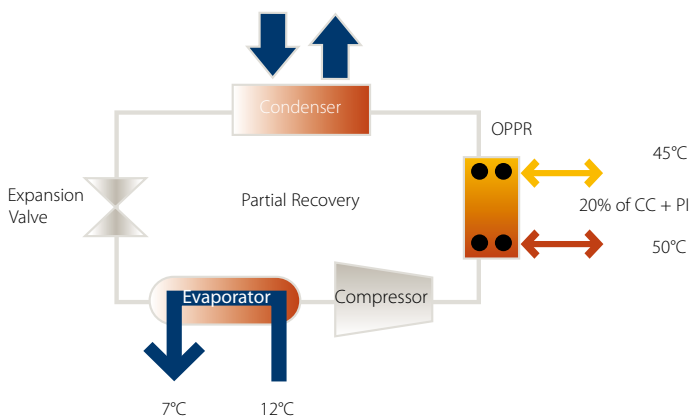
A Shell and Tube heat exchanger is mounted in parallel with the air cooled condenser for full heat recovery of both sensible and latent heat. Hot water temperatures up to 50°C can be achieved.



WATER - COOLED

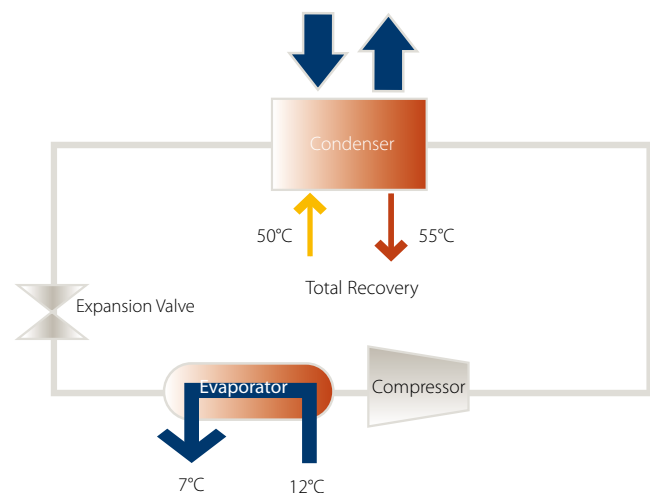
OPPR – Partial heat recovery

A stainless steel brazed plate heat exchanger is mounted in series between the compressor and water cooled condenser as a desuperheater. The sensible heat from the hot discharge gas will be recovered, while the latent heat exchange will occur in the water cooled condenser. The units' efficiency is maintained as condensing pressure and can be reduced due to water cooled condenser becoming oversized.



OPTR – Total heat recovery

A single, tailored Shell and Tube heat exchanger is mounted for full heat recovery of both sensible and latent heat. It is equipped with 2 independent water circuits with separate connections for condensate and heat recovery. Temperatures up to 55°C can be achieved.

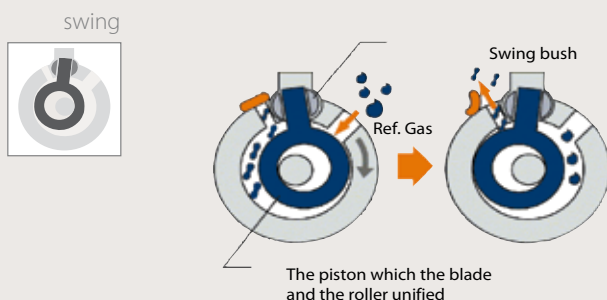


Reliable and Efficient

Whatever the requirements of the customer, large systems requiring constant capacity or smaller systems for flexibility, Daikin always provides a reliable and efficient solution.

COMPRESSOR TYPES FOR ALL APPLICATIONS:

THE SWING COMPRESSOR:



The Mini Chiller series EWAQ005-007ACV3 & EWWQ005-007ACV3 are equipped with a swing compressor. This innovative design by Daikin with fewer moving parts allows smoother more reliable operation with low vibration and low noise levels. The high efficiency motor reduces energy consumption resulting in energy cost savings.

THE SCROLL COMPRESSOR FOR CONTROLLED CAPACITY:



Being compact, the Daikin scroll compressor is used with R-407C and R-410A to provide constant reliability and high efficiency right throughout its service life. Designed for small and medium capacities, the scroll compressors are used with air cooled and water cooled chillers within the range of capacities between 9.1 and 281kW.

Characteristics :

- › Compact, simple yet robust design
- › Absence of valves and oscillating connecting mechanisms providing maximum reliability
- › Constant compression guaranteeing low energy consumption
- › Increased compression efficiency thanks to the absence of volumetric re-expansion
- › Low sound level
- › Low starting current

STANDARD ANTI-CORROSION TREATMENT

As standard, condensers for air cooled chillers are given anti-corrosion treatment. This treatment significantly increases resistance to acid rain and saline corrosion. Depending on the capacities and models, treatments are of the following type:

Acrylic treatment (Daikin ref PE)

The aluminium fins are coated with an acrylic resin and a hydrophilic film.

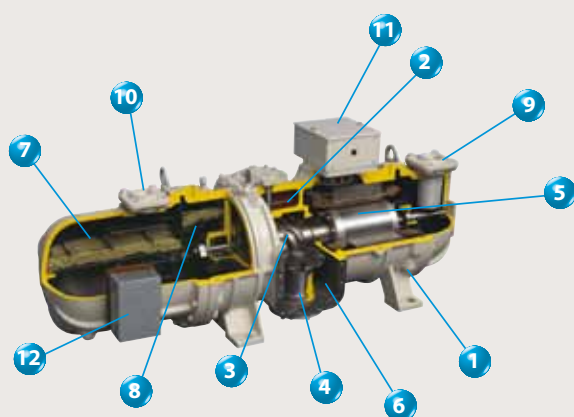
Epoxy Treatment

The aluminium fins are black epoxy coated.



Example of acrylic treatment

THE SINGLE SCREW STEPLESS COMPRESSOR FOR HIGH CAPACITY:



- | | |
|----------------|-------------------------------|
| 1. Casing | 7. 2nd stage oil separator |
| 2. Slide valve | 8. Demister (oil separator) |
| 3. Screw rotor | 9. Refrigerant suction |
| 4. Bearing | 10. Refrigerant discharge |
| 5. Motor | 11. Compressor terminal + CTP |
| 6. Gate rotor | 12. Stepper Motor |

The heart of the larger Daikin chillers is a semi hermetic single screw compressor, designed, tested and manufactured in Daikin's own laboratories, in order to meet the highest capacity, performance and maintenance specifications. This compressor has been especially developed for operation with R-410A, R-134a or R-407C refrigerant, guaranteeing unequalled reliability and many years of efficient operation. The bearing life is 100,000hrs with inspection and maintenance intervals every 40,000hrs.

Characteristics :

- › Optimal performance through stepless capacity control in function of the chilled water temperature. The unit capacity is infinitely variable from 30 - 100% on single circuit units and 15 - 100% on dual circuit units.
- › Compact, simple yet robust construction.
- › Using a main single screw and two gate rotors, axial and radial forces are balanced thanks to the symmetrical compression guaranteeing low bearing loads.
- › Renowned for its low noise levels the double walled casing design and integrated oil separator, add to the attenuation effect.
- › Gate rotors made of polymer material result in closer tolerances with main screw and reduced friction greatly improving compressor efficiency and lifetime.
- › No oil pump necessary – lubrication based on differential pressure principle.
- › Easy access to both compressor and safety devices
- › Star delta starter with low starting current as standard

Air Cooled

In the chilled water market, chillers of the air cooled type are most frequently used. Out of its wide range of chillers in cooling only or heat pump version, with or without integrated hydronic components, Daikin always offers you a chiller fitting your application needs.

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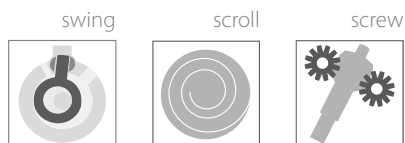
EWAQ-ACV3 & EWAQ-ACW1	18
EWYQ-ACV3 & EWYQ-ACW1	20
EUWAC-FZW	22
EUWA*-KAZW	24
EUWY*-KAZW	26
EWAQ-DAYN	28
EWYQ-DAYN	30

R-410A

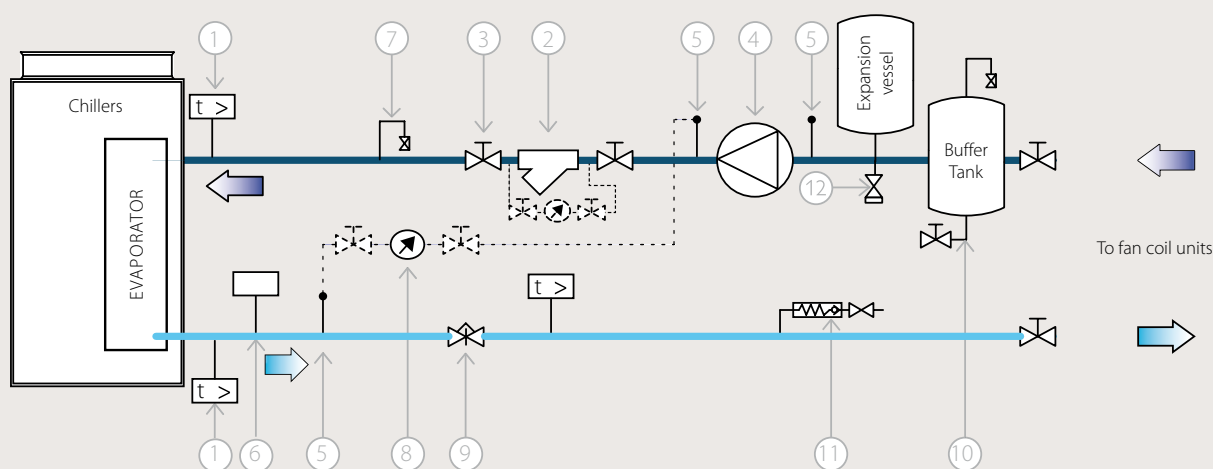
R-134a

R-407C

Daikin has taken great care to match major chiller components and refrigerant combinations to a point where high efficiency ranges of technically advanced and closely optimised air and water cooled units are now widely available for use with R-410A, R-407C and R-134a refrigerants.



AIR COOLED CHILLER



- | | | |
|-----------------------|-------------------|--------------------|
| 1. Temperature sensor | 5. Pressure port | 9. Balancing valve |
| 2. Filter | 6. Flow switch | 10. Drain valve |
| 3. Shut-off valve | 7. Air purge | 11. Charging valve |
| 4. Pump | 8. Pressure gauge | 12. Safety valve |

STRENGTHS

- › Optimised for use with R-410A
- › Inverter controlled swing compressor (size 005-007)
 - Precise temperature control
- › Inverter controlled scroll compressor (size 009-011)
- › ESEER up to 4.68
- › Cooling operation from 10 °C to 46°C (to 43 °C for size 005-007)
- › PE treated condenser coil
- › Built-in hydraulic module:
 - No buffer tank required
 - 2-speed or 3-speed pump
- › Sound power down to 62dBA
- › Main switch accessible without removing panels
- › Refrigerant charge less than 3 kg
- › Easy 'plug and play' installation

OPTIONS (FACTORY MOUNTED)

- › Evaporator heater tape

OPTION KIT

- › Digital Input/Output PCP (size 009-013 only)

CONTROL

- › Leaving water control

AVAILABLE INPUTS

- › Voltage free contact:
 - ON/OFF
- Schedule timer:
 - ON/OFF
 - Silent operation



DIGITAL CONTROLLER

swing scroll



R-410A





EWAQ005-007ACV3 +
EWAQ009-011ACV3/EWAQ009-013ACW1

COOLING ONLY

CAPACITY CLASS				EWAQ-ACV3						EWAQ-ACW1		
				005	006	007	009	010	011	009	011	013
Capacity	Cooling	kW	5.2	6.0	7.1	8.5	9.5	11.0	9.0	11.0	13.2	
Power input	Cooling	kW	1.89	2.35	2.95	2.74	3.19	3.82	2.96	3.82	5.10	
EER			2.75	2.55	2.41	3.11	2.98	2.88	3.04	2.88	2.59	
ESEER			3.75	3.83	3.87	4.57	4.52	4.46	4.68	4.63	4.52	
Dimensions	Height x Width x Depth	mm	805x1,190x360				1,435x1,418x382					
Weight	Machine weight	kg	100						180			
	Operating Weight	kg	104				-					
Water Heat Exchanger	Type		Braze plate									
	Water volume	l	-				1.01					
	Minimum water volume in the system		l	10				-				
	Water flow rate	Min	l/min		12		16					
	Nominal Water Flow	Cooling	l/min		14.9	17.2	20.4	24.4	27.2	31.5	25.8	31.5
Air heat exchanger	Type		Tube type				Hi-XSS					
External static pressure	Cooling	kPa	49.4	45.1	38.3	60.2	57.5	53.0	58.9	53.0	45.7	
Expansion vessel	Volume	l	6				10					
Compressor	Type		Hermetically sealed swing compressor				Inverter hermetically sealed scroll compressor					
	Model	Quantity	1									
Sound Power	Cooling	Cooling	dB	62	63	64				66		
Sound Pressure	Cooling	Rated	dB	48	50	51				52		
		Night quiet	dB	-				45				
Operation Range	Water side	Min~Max	°CDB	5 ~ 20				5 ~ 22				
	Air side	Min~Max	°CDB	10 ~ 43				10 ~ 46				
Refrigerant circuit	Refrigerant type			R-410A								
	Refrigerant charge	kg	1.7				2.95					
	No of circuits			1								
	Refrigerant control			Inverter				Electronic expansion valve				
Power Supply			1~/230V/50Hz						3N~/400V/50Hz			
Piping connections	Water heat exchanger inlet/outlet		1" MBSP				-					
	Water heat exchanger drain		Hose nipple 1/2" FBSP				-					
Water circuit	Piping connections diameter	Inch	G 5/4"									

STRENGTHS

- › Optimised for use with R-410A
- › Inverter controlled swing compressor (size 005-007)
 - Precise temperature control
- › Inverter controlled scroll compressor (size 009-011)
- › ESEER up to 4.68
- › COP up to 3.44
- › Cooling operation from 10 °C to 46 °C (to 43 °C for size 005-007)
- › Heating operation from -15 °C to 35 °C (to 25 °C for size 005-007)
- › PE treated condenser coil
- › Built-in hydraulic module
 - No buffer tank required
 - 2-speed or 3-speed pump
- › Sound power down to 62dBA
- › Main switch accessible without removing panels
- › Refrigerant charge less than 3 kg
- › Easy 'plug and play' installation

OPTIONS (FACTORY MOUNTED)

- › Evaporator heater tape

OPTION KIT

- › Digital Input/Output PCP (size 009-013 only)

CONTROL

- › Leaving water control
- › Setpoint in heating & cooling

AVAILABLE INPUTS

- › Voltage free contact:
 - ON/OFF
 - Cooling/Heating changeover
- › Schedule timer:
 - ON/OFF
 - Dual setpoint
 - Silent operation



DIGITAL CONTROLLER

swing



scroll



R-410A





EWYQ005-007ACV3 +
EWYQ009-011ACV3/EWYQ009-013ACW1

HEATING & COOLING

			EWYQ-ACV3						EWYQ-ACW1				
CAPACITY CLASS			005	006	007	009	010	011	009	011	013		
Capacity	Cooling	kW	5.2	6.0	7.1	8.5	9.5	11.0	9.0	11.0	13.2		
	Heating	kW	5.65	6.35	7.75	10.0	11.5	13.0	11.0	12.5	14.0		
Power input	Cooling	kW	1.89	2.35	2.95	2.74	3.19	3.82	2.96	3.82	5.10		
	Heating	kW	1.97	2.24	2.83	2.91	3.38	3.86	3.23	3.70	4.19		
EER			2.75	2.55	2.41	3.11	2.98	2.88	3.04	2.88	2.59		
ESEER			-			4.57	4.52	4.46	4.68	4.63	4.52		
COP			2.87	2.83	2.74	3.44	3.40	3.37	3.41	3.38	3.34		
Dimensions	Height x Width x Depth	mm	805 x 1,190 x 360						1,435 x 1,418 x 382				
Weight	Machine weight	kg	100						180				
	Operating Weight	kg	104						-				
Water Heat Exchanger	Type		Brazed plate										
	Water volume	l	-						1.01				
	Minimum water volume in the system	l	10						-				
	Water flow rate	Min	12						16				
	Nominal Water Flow	Cooling	l/min	14.9	17.2	20.4	24.4	27.2	31.5	25.8	31.5	37.8	
		Heating	l/min	17.5	19.5	23.5	28.7	33.0	37.5	31.5	35.8	40.1	
Air heat exchanger	Type		Tube type						Hi-XSS				
External static pressure	Cooling	kPa	49.4	45.1	38.3	60.2	57.5	53.0	58.9	53.0	45.7		
	Heating	kPa	44.5	40.3	30.7	55.2	50.0	41.8	51.9	44.2	36.7		
Expansion vessel	Volume	l	6						10				
Compressor	Type		Hermetically sealed swing compressor						Inverter hermetically sealed scroll compressor				
	Model	Quantity	1										
Sound Power	Cooling	dBA	62			63			64			66	
	Heating	dBA	-						64				
Sound Pressure	Cooling	Rated	48			50			51			52	
		Night quiet	-						45				
	Heating	Rated	48			49			51				
		Night quiet	-						42			43	
Operation Range	Water side	Cooling	5 ~ 20						5 ~ 22				
		Heating	25 ~ 50						25 ~ 50				
	Air side	Cooling	10 ~ 43						10 ~ 46				
		Heating	-15 ~ 25						-15 ~ 35				
Refrigerant circuit	Refrigerant type		R-410A										
	Refrigerant charge	kg	1.7						2.95				
	No of circuits		1										
	Refrigerant control		Inverter						Electronic expansion valve				
Power Supply			1~/230V/50Hz									3N~/400V/50Hz	
Piping connections	Water heat exchanger inlet/outlet		1" MBSP						-				
	Water heat exchanger drain		Hose nipple 1/2" FBSP						-				
Water circuit	Piping connections diameter	Inch	G 5/4"										

STRENGTHS

- › Daikin scroll compressor
- › Standard reverse phase protection
- › High fan static pressure (up to 150Pa)
- › Operation down to -10°C ambient temperature
- › Pressure gauges

OPTIONS (FACTORY MOUNTED)

- › Chilled water temperature down to -5°C (OPZH) or -10°C (OPZL)

ACCESSORIES (KIT)

- › Filter
- › BMS gateway (MODBUS / J-BUS / BACNET protocol)
- › Remote user interface
- › Hydraulic module (see also EHMC)

CONTROL

- › Water inlet temperature control

AVAILABLE INPUTS / OUTPUTS

Input

- › ON / OFF (per circuit)
- › Pump / flow switch

Output

- › Compressor operation
- › Summary alarm
- › Pump relay contact

* OPZH: Option LWE high glycol
OPZL: Option LWE low glycol



DIGITAL CONTROLLER

scroll



R-407C





EUWAC8FZW

COOLING ONLY

CAPACITY CLASS				005	008	010
Capacity	Cooling	kW		11.6	18.4	23.8
Power input	Cooling	kW		5.25	7.78	9.85
Capacity Steps		%		0-100		
EER				2.21	2.37	2.42
Dimensions	Height x Width x Depth	mm		1,345 x 856 x 630	1,290 x 1,180 x 630	1,395 x 1,330 x 630
Weight	Machine weight	kg		164	224	261
	Operating Weight	kg		166	228	266
Water Heat Exchanger Evaporator	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			
Fan	Nominal air flow		m³/min	1.17	1.83	2.10
Compressor	Type		Hermetically sealed scroll compressor			
	Model	Quantity		1		
Sound Power	Cooling	dBA		63	66	69
Operation Range	Water side	Min~Max	°CDB	-10 (OPZL) ~ 21		
	Air side	Min~Max	°CDB	-10 ~ 43		
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"		
	Evaporator water drain			field installation		

STRENGTHS

- › Optimised for use with R-407C
- › Integrated hydraulic module (models B and P)
- › Built-in buffer tank (model B)
- › Daikin scroll compressor
- › Standard main isolator switch
- › Standard water flow switch
- › Standard filter (delivered as a kit with the unit)
- › Operation down to -15°C ambient temperature
- › Standard reverse phase protection
- › Standard condenser protection grille
- › Freeze-up protection and prevention
- › PE treated condenser coil

OPTIONS (FACTORY MOUNTED)

- › Chilled water temperature down to -5°C (OPZH) or -10°C (OPZL)
- › High ESP fans (50Pa) (OPHF)
- › Pump size up (OPHP)

ACCESSORIES (KIT)

- › Refrigerant pressure gauges
- › Address card and BMS gateway (MODBUS / J-BUS / BACNET protocol)
- › Remote user interface
- › 200l buffer tank
- › Soft starter (single circuit)

CONTROL

- › Water inlet temperature control

AVAILABLE

INPUTS / OUTPUTS

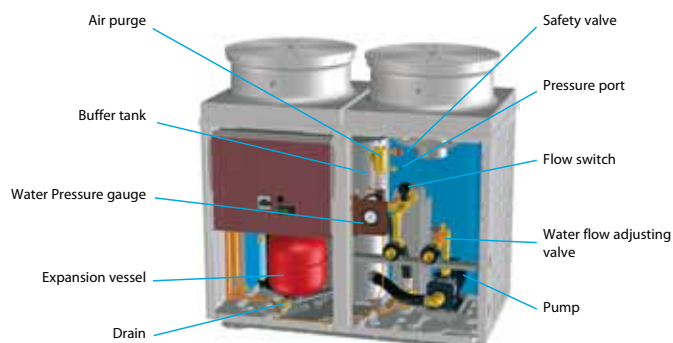
Input

- › Remote ON/OFF
- › Pump contact

Output

- › Compressor operation
- › Summary alarm
- › Pump relay contact

HYDRAULIC CIRCUIT COMPONENTS



DIGITAL CONTROLLER

scroll



R-407C





EUWA*16KAZW

EUWAN:

- › Scroll compressor
- › Main isolator switch
- › Water flow switch
- › Filter
- › Condenser protection grille
- › All year operation

EUWAP = EUWAN +

- › Pump
- › Expansion vessel
- › Adjusting valve
- › Drain
- › Water pressure gauge
- › Pressure relief valve

EUWAB = EUWAP +

- › Buffer tank

COOLING ONLY

CAPACITY CLASS			N5	P5	B5	N8	P8	B8	N10	P10	B10	N12	P12	B12	N16	P16	B16	N20	P20	B20	N24	P24	B24			
Capacity	Cooling	kW	11.3			17.9			22.5			26.5			37.0			46.6			55.3					
Power input	Cooling	kW	4.52	4.64	7.38	7.39	8.79	8.74	11.50		15.2	15.0	18.1	17.9	24.0											
Capacity Steps	%		0-100												0-50-100											
EER			2.51	2.44	2.42		2.56	2.57	2.30		2.42	2.47	2.57	2.60	2.30											
Dimensions	Height x Width x Depth	mm	1,230 x 1,290 x 734						1,450 x 1,290 x 734						1,321 x 2,580 x 734						1,541 x 2,580 x 734					
Weight	Machine weight	kg	150	168	180	215	229	241	245	259	271	248	262	274	430	448	460	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 Evaporator	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																							
Nominal static height unit	Heating	kPa	-	205	205	-	154	154	-	123	123	-	105	105	-	187	187	-	137	137	-	100	100			
Buffer tank volume	Volume	l	-	-	55	-	-	55	-	-	55	-	-	55	-	-	55	-	-	55	-	-	55			
Fan	Nominal air flow	m³/min	160			170									2x 170											
Compressor	Type		Hermetically sealed scroll compressor																							
	Model	Quantity	1												2											
Sound Power	Cooling	dBA	67			76			78						79			81								
Operation Range	Water side	Min~Max	-10 (OPZL) ~ 25																							
	Air side	Min~Max	-15 ~ 43																							
Refrigerant circuit	Refrigerant type		R-407C																							
	Refrigerant charge	kg	3.9			4.6						6.0			4.6+4.6			5.9+5.9			6.0+6.0					
	No of circuits		1												2											
	Refrigerant control		Thermostatic expansion valve																							
Power Supply			3N~/400V/50Hz																							
Piping connections	Evaporator water inlet/outlet	MBSP	1-1/4"												2"											
	Evaporator water drain		15 mm																							

STRENGTHS

- › Optimised for use with R-407C
- › Integrated hydraulic module (models B and P)
- › Built-in buffer tank (model B)
- › Daikin scroll compressor
- › Standard main isolator switch
- › Standard water flow switch
- › Standard filter (delivered as a kit with the unit)
- › Operation down to -15°C ambient temperature in cooling mode, down to -10°C in heating mode
- › Standard reverse phase protection
- › Standard condenser protection grille
- › Freeze-up protection and prevention
- › PE treated condenser coil

OPTIONS (FACTORY MOUNTED)

- › Chilled water temperature down to -5°C (OPZH) or -10°C (OPZL)
- › High ESP fans (50Pa) (OPHF)
- › Pump size up (OPHP)

ACCESSORIES (KIT)

- › Refrigerant pressure gauges.
- › Address card and BMS gateway (MODBUS / J-BUS / BACNET protocol)
- › Remote user interface
- › 200l buffer tank
- › Soft starter (single circuit)

CONTROL

- › Water inlet temperature control

AVAILABLE

INPUTS / OUTPUTS

Input

- › Remote ON/OFF
- › Pump contact
- › Remote cool/heat selection

Output

- › Compressor operation
- › Summary alarm
- › Pump relay contact



DIGITAL CONTROLLER

scroll



R-407C





EUWY*16KAZW

EUWYN:

- Standard equipment
- › Scroll compressor
- › Main isolator switch
- › Water flow switch
- › Filter
- › Condenser protection grille.
- › All year operation

EUWYP = EUWYN +

- › Pump
- › Expansion vessel
- › Adjusting valve
- › Drain
- › Water pressure gauge
- › Pressure relief valve

EUWYB = EUWYP +

- › Buffer tank

HEATING & COOLING

CAPACITY CLASS			N5	P5	B5	N8	P8	B8	N10	P10	B10	N12	P12	B12	N16	P16	B16	N20	P20	B20	N24	P24	B24	
Capacity	Cooling	kW	9.1			17.1			21.0			25.0			34.2			40.0			50.0			
	Heating	kW	11.9			18.5			24.0			27.0			37.0			46.0			54.0			
Power input	Cooling	kW	3.78			7.45	7.46		8.57			11.4			14.9			16.3			22.8			
	Heating	kW	4.59			7.10			9.10			10.8			14.2			17.4			21.6			
Capacity Steps		%	0-100												0-50-100									
EER			2.40			2.30			2.45			2.20			2.30			2.45			2.20			
COP (Eurovent)			2.60						2.64			2.50			2.61			2.64			2.50			
Dimensions	Height x Width x Depth	mm	1,230 x 1,290 x 734						1,450 x 1,290 x 734						1,321 x 2,580 x 734			1,541 x 2,580 x 734						
Weight	Machine weight	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	l/min	26			49			60			72			98			115			143		
		Heating	l/min	34			53			69			77			106			132			155		
	Nominal water pressure drop	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																					
Nominal static height unit	Heating	kPa	-	205		-	160		-	127		-	100		-	195		-	147		-	111		
Buffer tank volume	Volume	l	-	55		-	55		-	55		-	55		-	55		-	55		-	55		
Fan	Nominal air flow		m³/min	160			170																	
Compressor	Type		Hermetically sealed scroll compressor																					
	Model	Quantity	1										2											
Sound Power	Cooling	dBA	67			76			78			79			81									
Operation Range	Water side	Cooling	-10 (OPZL) ~ 20																					
		Heating	35 ~ 50																					
	Air side temperature	Cooling	-15 ~ 43																					
		Heating	-10 ~ 21																					
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	MBSP	1-1/4"										2"											
	Evaporator water drain												15mm											

STRENGTHS

- › Wide capacity range: 80 to 254kW with 8 cooling only models
- › Optimised for use with 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
- › Dual circuit heat exchanger (from >100 kW)
- › Non hermetic filter/dryer
- › Daikin controller (Pcso) with user friendly and powerful LCD interface

OPTIONS (FACTORY MOUNTED)

- › Single pump contactor (OPSC)
- › Twin pump contactor (OPTC)
- › Single pump (OPSP)
- › Twin pump (OPTP) (1 pump casing, dual motor)
- › High ESP pump (OPHP) (single pump only)
- › Buffer tank (OPBT)
- › Inverter fans (OPIF) (Not available with option OPLN)
- › Glycol 0°C / -10°C (OPZL)
- › Dual pressure relief valve (OP03)
- › Evaporator heater tape (OP10)
- › Option valves (discharge, liquid line and suction stop valve)
- › A-meter / V-meter (OP57)
- › Low Noise (OPLN) (=OPIF + compressor housing)
- › Condenser protection grills (OPCG)

ACCESSORIES (KIT)

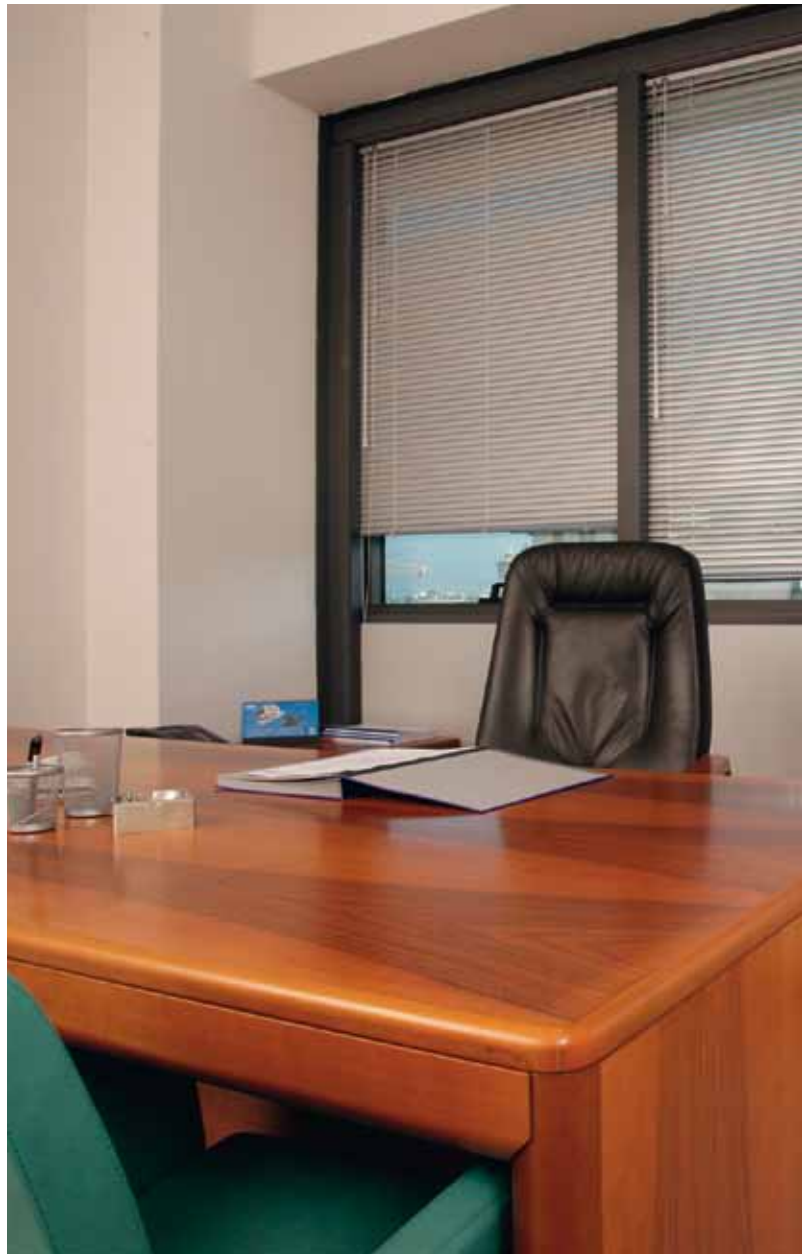
- › Gateway for LON (EKLONPG)
- › Gateway for BACNET (EKBNPG)
- › Address card (EKACPG)
- › Remote user interface (EKRUPG)



DIGITAL CONTROLLER



R-410A





EWAQ130,150DAYN

COOLING ONLY

CAPACITY CLASS			080	100	130	150	180	210	240	260	
Capacity	Cooling	kW	80	105	131	152	182	209	236	254	
Power input	Cooling	kW	26.4	36.2	46.6	56.3	64.5	74.6	82.8	94.0	
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	
EER			3.03	2.90	2.81	2.70	2.82	2.80	2.85	2.70	
ESEER			4.12	4.00	4.34	4.22	4.36	4.32	4.20	4.00	
Dimensions	Height x Width x Depth	mm	2,311 x 2,000 x 2,566		2,311 x 2,000 x 2,631		2,311 x 2,000 x 3,081		2,311 x 2,000 x 4,850		
Weight	Machine weight	kg	1,350	1,400	1,500	1,550	1,800	1,850	3,150	3,250	
	Operating Weight	kg	1,365	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	l/min	229	301	377	436	522	599	677	728
Air heat exchanger	Nominal water pressure drop	Cooling	kPa	59	58	52	49	52	53	51	47
	Type		Cross fin coil / Hi-Xss tubes and PE coated waffle fins								
	Fan	Nominal air flow	m³/min	780		800	860	1290		1600	
		Speed	rpm	880		900	970		900		
	Compressor	Type		Scroll compressor							
Model		Quantity	2		4						
Sound Power	Cooling	dBA	86		88	89	90		91		
Operation Range	Water side	Min~Max	-10 (OPZL) ~ 25								
	Air side	Min~Max	-15 ~ 43								
Refrigerant circuit	Refrigerant type		R-410A								
	Refrigerant charge	kg	33		19+19	25+25	29+29	28+28	39+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"q								

STRENGTHS

- › Wide capacity range: 77 to 252kW with 8 heat pump models
- › Optimised for use with 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
- › Dual circuit heat exchanger (from >100 kW)
- › Non hermetic filter/dryer
- › Daikin controller (Pcso) with user friendly and powerful LCD interface

OPTIONS (FACTORY MOUNTED)

- › Single pump contactor (OPSC)
- › Twin pump contactor (OPTC)
- › Single pump (OPSP)
- › Twin pump (OPTP) (1 pump casing, dual motor)
- › High ESP pump (OPHP) (single pump only)
- › Buffer tank (OPBT)
- › Inverter fans (OPIF) (Not available with option OPLN)
- › Glycol 0°C / -10°C (OPZL)
- › Dual pressure relief valve (OP03)
- › Evaporator heater tape (OP10)
- › Option valves (discharge, liquid line and suction stop valve)
- › A-meter / V-meter (OP57)
- › Low Noise (OPLN) (=OPIF + compressor housing)
- › Condenser protection grills (OPCG)

ACCESSORIES (KIT)

- › Gateway for LON (EKLOPG)
- › Gateway for BACNET (EKBNPG)
- › Address card (EKACPG)
- › Remote user interface (EKRUPG)



DIGITAL CONTROLLER



R-410A





EWYQ130,150DAYN

HEATING & COOLING

CAPACITY CLASS			080	100	130	150	180	210	230	250	
Capacity	Cooling	kW	77.0	100	136	145	183	211	231	252	
	Heating	kW	87.7	114	149	165	199	225	258	281	
Power 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	
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	
EER			2.91	2.76	2.86	2.6	2.87	2.80	2.81	2.70	
COP (Eurovent)			2.92	2.99	3	2.81	2.93	2.92	3.06	2.91	
ESEER			4.00	3.81	4.31	4.07	4.33	4.23	4.20	4.00	
Dimensions	Height x Width x Depth	mm	2,311 x 2,000 x 2,566		2,311 x 2,000 x 2,631		2,311 x 2,000 x 3,081		2,311 x 2,000 x 4,850		
Weight	Machine weight	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	l/min	221	287	390	416	525	605	662	722
		Heating	l/min	251	327	427	473	570	645	740	806
	Nominal water pressure drop	Cooling	kPa	36		43	38	41	44	39	38
		Heating	kPa	47	46	51	49	48	50	48	46
Air heat exchanger	Type		Cross fin coil / Hi-Xss tubes and PE coated waffle fins								
Fan	Nominal air flow		m³/min		780		800	860	1,290		1,600
	Speed		rpm		880		900	970		900	
Compressor	Type		Scroll compressor								
	Model	Quantity	2		4						
Sound Power	Cooling	dBA	86		88	89	90		91		
Operation Range	Water side	Cooling	-10 (OPZL) ~ 25								
		Heating	25 ~ 50								
	Air side	Cooling	-15 ~ 43								
		Heating	-10 ~ 21								
Refrigerant circuit	Refrigerant type		R-410A								
	Refrigerant charge	kg	33	37	22+22		32+32		39+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						1/2"G		

Water Cooled

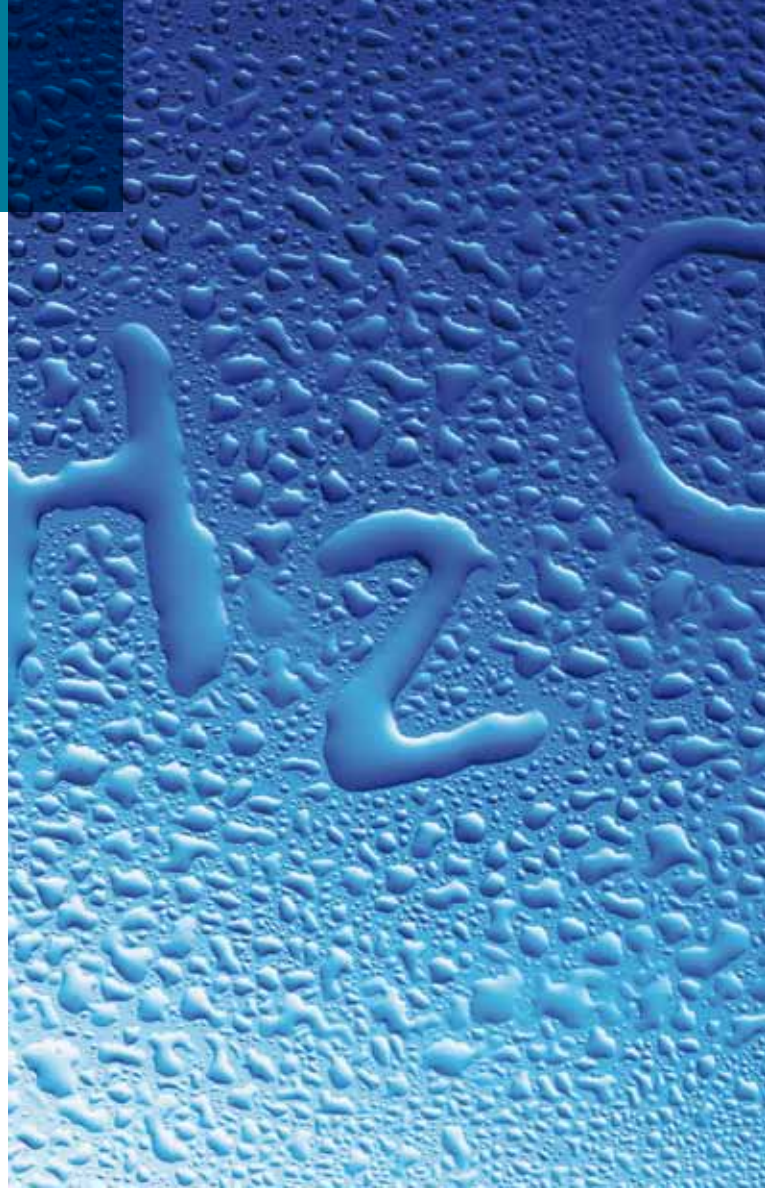
Daikin offers you compact water cooled chiller units which require only very limited space in a machine room.

Used for commercial or industrial applications, these chillers generate cold and hot water, which can be used for chilling, heating, or even both at the same time.

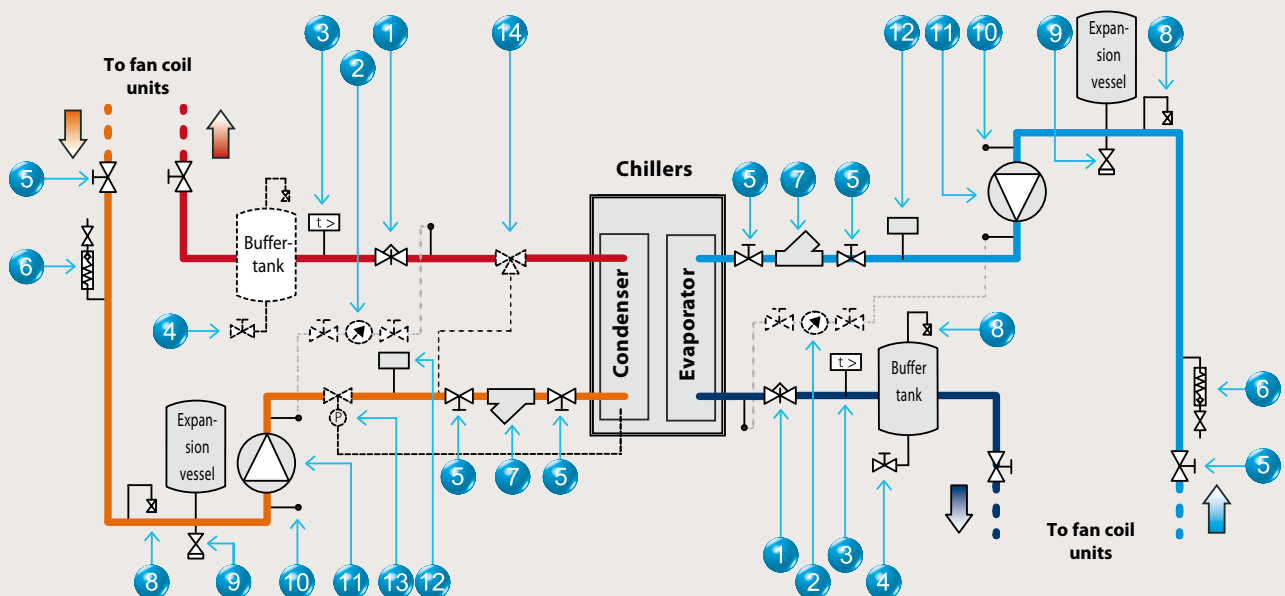
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EWWD-MBYN	36

1. Balancing valve
2. Pressure gauge
3. Temperature sensor
4. Drain valve
5. Shut-off valve
6. Fill valve
7. Filter
8. Drain
9. Safety valve
10. Pressure port
11. Pump
12. Flow switch
13. Pressure regulating valve
14. Bypass valve



PIPING DIAGRAM FOR COMFORT COOLING APPLICATION



STRENGTHS

- › One of the most compact units in the market (60cm x 60cm x 60cm for models 014 to 035)
- › Daikin scroll compressor
- › Standard reverse phase protection
- › Extension possible up to 195kW

FOR SINGLE MODULE UNITS

- › Standard main isolator switch
- › Basic hydraulic components for KA-series included with the unit as a kit: flow switch, air purge, filter + shut-off valves for both condenser and evaporator

OPTIONS (FACTORY MOUNTED)

- › Chilled water temperature down to -5°C (OPZH) or -10°C (OPZL)

ACCESSORIES (KIT)

- › Compressor soundproof material (-3dBA)
- › Hydraulic module (see page EHMC)
- › BMS gateway (MODBUS/J-BUS / BACNET protocol)
- › Remote user interface

CONTROL

- › Microprocessor control
- › Water inlet temperature control
- › Cold water or hot water regulation

AVAILABLE

INPUTS / OUTPUTS

Input

- › Remote ON / OFF
- › Pump contact
- › Cool/heat selection

Output

- › Compressor operation
- › Summary alarm
- › Pump relay contact



DIGITAL CONTROLLER



pCO₂

scroll



R-407C





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)		13.0	21.5	28.0	32.5	43.0	56.0	65.0	86.0	99.0	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	-	-	-	-	-	-	-	-	-	-	-	-	
UNIT ONLY (Without Control)	EWWP065KAW1N	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	
	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

HEATING ONLY & COOLING ONLY

CAPACITY CLASS			014	022	028	035	045	055	065	90	100	110	120	130	145	155	165	175	185	195								
Capacity	Cooling	kW	13.0	21.5	28.0	32.5	43.0	56.0	65.0	86.0	99.0	112	121	130	142	155	168	177	186	195								
Power input	Cooling	kW	3.61	5.79	7.48	8.75	11.80	15.50	17.60	23.6	27.3	31.0	33.1	35.2	39.1	42.8	46.5	48.6	50.7	52.8								
Capacity Steps			1				2				4				6													
EER			3.6	3.71	3.74	3.71	3.64	3.61	3.69	3.64	3.63	3.61	3.66	3.69	3.63	3.62	3.61	3.64	3.67	3.69								
Dimensions	Height x Width x Depth	mm	600 x 600 x 600				600 x 600 x 1,200				1,200 x 600 x 1,200				1,800 x 600 x 1,200													
Weight	Machine weight	kg	118	155	165	172	300	320	334	600	620	640	654	668	920	940	960	974	988	1,002								
Water Heat Exchanger Evaporator	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	19	31	40	47	62	80	93	123	142	161	173	186	204	222	241	254	267	280							
		Nominal	l/min	37	62	80	93	123	161	186	247	284	321	347	373	407	444	482	507	533	559							
		Max	l/min	75	123	161	186	247	321	373	493	568	642	694	745	814	889	963	1,015	1,066	1,118							
Water Heat Exchanger Condenser	Type		Brased plate																									
	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	1,038	1,133	1,229	1,293	1,357	1,422							
Compressor	Type		Hermetically sealed scroll compressor																									
	Model	Quantity	1				2				4				6													
Sound Power	Cooling	dBA	64			71		67			74		71			75		77		73			76		78		79	
Operation Range	Evaporator	Min~Max	°C	-10(OPZL) ~ 20																								
	Condenser	Min~Max	°C	20 ~ 55																								
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		mm	FBSP 25				FBSP 40				2 x 2 x FBSP 38				3 x 2 x FBSP 38												
	Evaporator water drain			Field installation																								
	Condenser water inlet/outlet		mm	FBSP 25				FBSP 40				2 x 2 x FBSP 38				3 x 2 x FBSP 38												
	Condenser water drain			Field installation																								

STRENGTHS

- › Compact and modular design
- › DAIKIN stepless single screw compressor
- › Standard reverse phase protection
- › VICTAULIC joints
- › DICN operation as standard within same series
- › Standard discharge shut-off valve
- › Standard filter, flow switch

OPTION (FACTORY MOUNTED)

- › Main isolator switch
- › Low noise (-5 to -7dB(A))
- › Compressor suction stopvalve
- › Ampere & Voltmeter (read-out on switchbox)
- › Chilled water temperature down to -5°C (ZH) or -10°C (ZL)
- › Dual pressure relief valve

ACCESSORIES

- › Gateway BACnet RS232 (EKBMSBNA)
- › Gateway ModBus RS232/RS485 (EKBMSMBA)
- › Address card screw chillers (EKAC'200A)
- › Remote controller kit screw chillers

CONTROL

- › Microprocessor control
- › Water inlet or outlet temperature control
- › Weekly operating schedule

AVAILABLE INPUTS / OUTPUTS

Input

- › ON / OFF
- › Pump contact
- › Dual setpoint through analog signal
- › Floating setpoint

Output

- › Compressor operation
- › Summary alarm (per circuit)
- › Pump relay contact



DIGITAL CONTROLLER

screw



R-134a





EWWD120MBYN

HEATING ONLY & COOLING ONLY

CAPACITY CLASS			120	180	240	280	360	440	500	520	540	
Capacity	Cooling	kW	123	183	249	273	366	432	498	522	546	
	Heating	kW	147	216	290	327	431	505	580	617	655	
Power input	Cooling	kW	28.7	45.2	61.6	69.2	90.5	107	123	131	138	
	Heating	kW	34.5	54	72.8	83.4	108	127	146	156	167	
Capacity Steps		%	30-100 (stepless)				15-100 (stepless)					
EER			4.29	4.05	4.04	3.95	4.04		4.05	3.98	3.96	
COP			4.26	4.00	3.98	3.92	3.99	3.98	3.97	3.96	3.92	
Dimensions	Height x Width x Depth	mm	1,018 x 2,681 (3,051) x 930		1,018 x 2,681 (3,254) x 930			2,000 x 2,681 (3,254) x 930				
Weight	Machine weight	kg	1,000	1,273	1,527	1,623	2,546	2,800	3,034	3,150	3,346	
	Operating Weight	kg	1,032	1,318	1,588	1,693	2,636	2,906	3,156	3,281	3,485	
Water Heat Exchanger Evaporator	Type		Brased plate, one per circuit									
	Minimum water volume in the system		l	600	890	1,220	1,330	895	1,055	1,215	1,275	1,335
	Water flow rate	Min	l/min	175	265	350	400	525	625	700	750	800
		Nominal	l/min	353	525	714	783	1,049	1,238	1,428	1,496	1,565
		Max	l/min	700	1,070	1,400	1,600	2,100	2,500	2,800	3,000	3,200
Nominal water pressure drop		Cooling	kPa	21 + 2 + 23	25 + 3 + 28	26 + 7 + 33	22 + 9 + 31	2x (25 + 3 + 28)	25 + 3 + 28 + 26 + 7 + 33	2x (26 + 7 + 33)	26 + 7 + 33 + 22 + 9 + 31	2x (22 + 9 + 31)
Water Heat Exchanger Condenser	Type		Shell and tube									
	Water flow rate	Min	l/min	217	336	450	520	670	790	900	970	1,040
		Nominal	l/min	435	654	890	981	1,309	1,545	1,781	1,871	1,962
		Max	l/min	800	1,050	1,230	1,370	2,100	2,290	2,470	2,600	2,730
	Nominal water pressure drop		Heating	kPa	25	30		38	30 + 30		30 + 38	38 + 38
Compressor	Type		Semi-hermetic single screw compressor									
	Model	Quantity	1				2					
Sound Power LwA			dBA	87	93	94	93	96				
Operation Range	Evaporator	Min~Max	°C	- 10 ~ 20								
	Condenser	Min~Max	°C	10 ~ 50		20 ~ 60		20 ~ 50		20 ~ 60		
Refrigerant circuit	Refrigerant type		R-134a									
	Refrigerant charge		kg	18	35	37	38	70	72	74	75	76
	No of circuits		1				2					
	Refrigerant control		Thermostatic expansion valve		Electronic expansion valve			2x Thermostatic expansion valve 2x Electronic expansion valve		2 x Electronic expansion valve		
Power Supply			3~/400V/50Hz									
Piping connections	Evaporator water inlet/outlet		3" OD victaulic coupling		3" victaulic coupling							
	Evaporator water drain		Field installation									
	Condenser water inlet/outlet		2" 1/2 victaulic			3" victaulic						
	Relief device outlet		1x1"		2x1"			3x1"		4x1"		

Condenserless Chiller

Daikin offers you flexible and compact chillers with remote condenser, which can be used to satisfy applications with special requirements in the field of available space, sound level or extreme operating conditions. In these exceptional cases, remote condenser solutions can be preferred over standard air cooled or water cooled solutions.

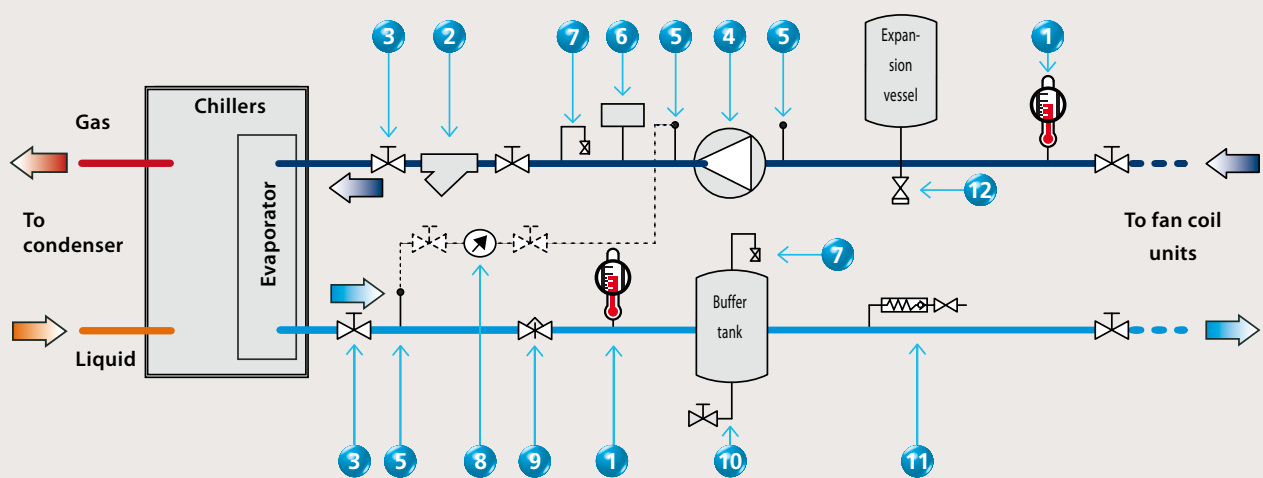
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EWLD-MBYN	42

1. Temperature sensor
2. Filter
3. Shut-off valve
4. Pump
5. Pressure port
6. Flow switch
7. Drain
8. Pressure gauge
9. Water flow adjusting valve
10. Drain valve
11. Fill valve
12. Safety valve



PIPING DIAGRAM FOR COMFORT COOLING APPLICATION



STRENGTHS

- › One of the most compact units in the market (60cm x 60cm x 60cm for models 012 to 030)
- › Daikin scroll compressor
- › Standard main isolator switch
- › Basic hydraulic components : included as a kit with the unit: flow switch, air purge, filter + shut-off valves
- › Standard reverse phase protection

OPTIONS (FACTORY MOUNTED)

- › Chilled water temperature down to -5°C (ZH) or -10°C (ZL)

ACCESSORIES (KIT)

- › Compressor soundproof material (-3dBA).
- › Hydraulic module (see also EHMC)
- › BMS gateway (MODBUS/J-BUS / BACNET protocol)
- › Remote user interface

CONTROL

- › Microprocessor control
- › Water inlet temperature control

AVAILABLE

INPUTS / OUTPUTS

Input

- › Remote ON / OFF
- › Pump contact

Output

- › Compressor operation
- › Summary alarm
- › Pump relay contact



DIGITAL CONTROLLER

scroll



R-407C





EWLP014KAW1N

COOLING ONLY

CAPACITY CLASS				012	020	026	030	040	055	065
Capacity	Cooling	kW		12.1	20.0	26.8	31.2	40.0	53.7	62.4
Power input	Cooling	kW		4.2	6.6	8.5	10.1	13.4	17.8	20.3
Capacity Steps				1				2		
EER				2.88	3.03	3.15	3.09	2.99	3.02	3.07
Dimensions	Height x Width x Depth	mm		600 x 600 x 600				600 x 600 x 1,200		
Weight	Machine weight	kg		108	141	147	151	252	265	274
Water Heat Exchanger	Type	Brased plate								
Evaporator	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
Compressor	Type	Hermetically sealed scroll compressor								
	Model	Quantity	1				2			
Sound Power	Cooling	dBA	64				71	67		74
Operation Range	Evaporator	Min~Max	°CDB	-10(OPZL) ~ 20						
	Condensing temperature	Min~Max	°CDB	25 ~ 60						
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	mm		FBSP 25				FBSP 40		
	Evaporator water drain			Field installation						
	Liquid line connection	mm		9.52 flare	12.7 flare			2x12.7 flare		
	Discharge line connection	mm		12.7 flare	19.1 flare			2x19.1 flare		

STRENGTHS

- › Daikin stepless single screw compressor
- › Compact and modular design
- › Standard phase sequence controller
- › VICTAULIC joints
- › DICN operation as standard within same series
- › Standard discharge shut-off valve
- › Standard flow switch
- › Standard filter
- › Ampere and Voltmeter (read-out on switchbox)
- › Chilled water temperature down to -5°C (OPZH) or -10°C (OPZL)
- › Dual pressure relief valve

ACCESSORIES (KIT)

- › BMS gateway (MODBUS / J-BUS / BACNET protocol)
- › Remote user interface

CONTROL

- › Microprocessor control
- › Water inlet temperature control
- › Weekly operation schedule

AVAILABLE INPUTS / OUTPUTS

Input

- › ON / OFF
- › Pump contact
- › Dual setpoint through analog signal
- › Floating set point

Output

- › Compressor operation
- › Summary alarm
- › Fan-condenser relay contacts
- › Pump relay contact



DIGITAL CONTROLLER

screw



R-134a



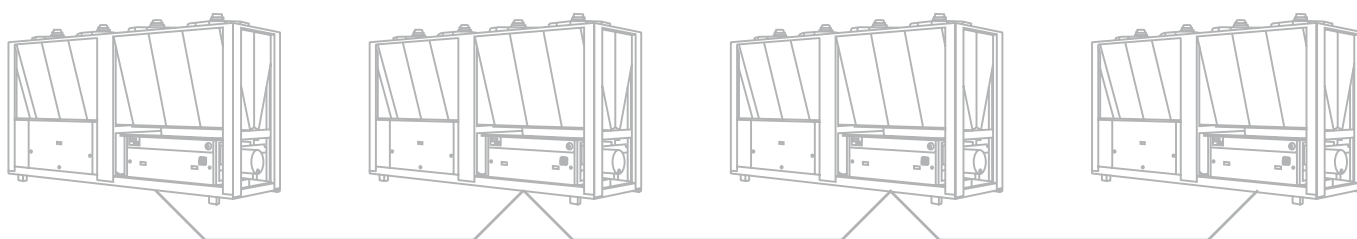
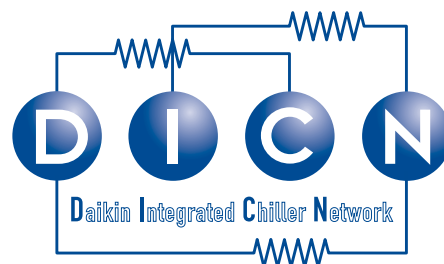


EWLP120MBYN

COOLING ONLY

CAPACITY CLASS			120	170	240	260	340	400	480	500	540	
Capacity	Cooling	kW	116	170	235	265	340	405	470	500	530	
Power input	Cooling	kW	32.0	49.8	66.5	77.9	99.6	116	133	144	156	
Capacity Steps	%		30-100 (stepless)				15-100 (stepless)					
EER			3.63	3.41	3.53	3.40	3.41	3.49	3.53	3.47	3.4	
Dimensions	Height x Width x Depth	mm	1,018 x 2,681 (3,051) x 930				2,000 x 2,681 (3,254) x 930					
Weight	Machine weight	kg	891	1,110	1,342	1,428	2,220	2,452	2,684	2,770	2,856	
	Operating Weight	kg	907	1,130	1,369	1,462	2,260	2,497	2,738	2,831	2,924	
Water Heat Exchanger Evaporator	Type	Brased plate, one per circuit										
	Water volume	l	570	830	1,150	1,300	830	990	1,150	1,220	1,295	
	Water flow rate	Min	l/min	175	265	350	400	525	625	700	750	800
		Nominal	l/min	333	487	674	760	975	1,161	1,347	1,434	1,520
		Max	l/min	700	1,070	1,400	1,600	2,100	2,500	2,800	3,000	3,200
	Nominal water pressure drop	Cooling	kPa	21 + 2 + 23	25 + 3 + 28	26 + 6 + 32	22 + 8 + 30	2x (25 + 3 + 28)	25 + 3 + 28 + 26 + 7 + 33	2x (26 + 7 + 33)	26 + 7 + 33 + 22 + 9 + 31	2x (22 + 9 + 31)
Compressor	Type	Semi-hermetic single screw compressor										
	Model	Quantity	1				2					
Sound Power	Cooling	dBa	87	93	94	93	96					
Operation Range	Evaporator	Min~Max	°CDB				-10 ~ 20					
	Condensing temperature	Min~Max	°CDB				25 ~ 55				25 ~ 62	
Refrigerant circuit	Refrigerant type	R-134a										
	No of circuits	1						2				
	Refrigerant control	Thermostatic expansion valve		Electronic expansion valve		2x Thermostatic expansion valve	1x Thermostatic expansion valve 1x Electronic expansion valve	2x Thermostatic expansion valve				
Power Supply			3~/400V/50Hz									
Piping connections	Evaporator water inlet/outlet	3" OD victaulic coupling	3" victaulic coupling									
	Evaporator water drain	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)	

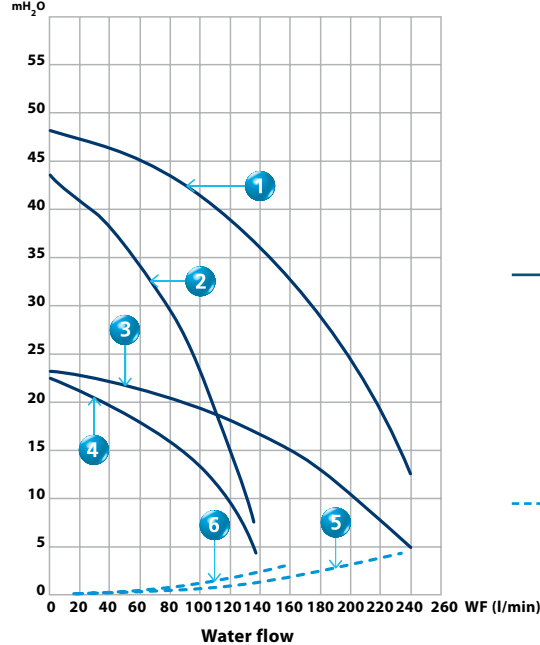
Daikin chillers can be equipped with Daikin Integrated Chiller Network (DICN) which allows the simultaneous operation of up to 4 chillers as if they were a single unit, in order to deliver the required cooling capacity. This results in precise and efficient capacity control and is also useful for back 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.



APPLICABLE SERIES:

- › EWAQ080-260DAYN (R-410A)
- › EWYQ080-250DAYN (R-410A)
- › EWWD120-540MBYN (R-134a)
- › EWLD120-540MBYN (R-134a)

PUMP CHARACTERISTICS



LEGENDS

Pump characteristics

1. EHMC30AV1080
2. EHMC10AV1080 & EHMC15AV1080
3. EHMC30AV1010
4. EHMC10AV1010 & EHMC15AV1010

Hydraulic module + filter pressures losses

5. EHMC15/30AV1010 & EHMC15/30AV1080
6. EHMC10AV1010 & EHMC10AV1080



STRENGTHS

- > 100l buffer tank
- > Freeze-up protection (heater tape)
- > Single pump
- > 12l expansion vessel
- > Standard dual pressure ports

HYDRAULIC MODULE

EHMC-AV		10		15		30	
		1010	1080	1010	1080	1010	1080
Nominal flow	l/min	62		88		187	
Nominal static height	mH ₂ O	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	
Sound pressure	dBA	52		52		52	
Power supply	V1	1~/230V/50Hz					
Operation range	Water side	°C		-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"					

BUFFER TANK

MODEL	Description	Volume	Dimensions	Unit weight
EKBT	Buffer tank with cabinet	200l	1,284x637x754	86,5
EKBT500N	Buffer tank	500l	710x1,670	70
EKBT10N	Buffer tank	1,000l	860x2,020	100
EKBT500C	Buffer tank with cabinet	500l	1,200x1,200x1,950	160
EKBT10C	Buffer tank with casing	1,000l	1,200x1,450x1,950	185

Fan Coil Units

Fan Coil Units are a highly efficient means of turning a water chiller, heat pump or hot water boiler into an efficient, quiet air conditioning system. These units are an effective solution to provide a comfortable environment for both commercial and residential applications.

Daikin offers a wide range of Fan Coil Units for both concealed and exposed applications. 3 models are available in flexible application. The only moving part in the units is the fan, making them ideal for use in offices, hotels and at home. The goal is to obtain the right solution, both technically and aesthetically.

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PRODUCT PORTFOLIO

Reference			1	2	3	4	5	6	7	8	9	10	11	12	16	18	20	22kW
FWV	2-pipe	cooling	01	02	03	04	06	08	10									
		heating	01	02	03	04	06	08	10									
	4-pipe	cooling	01	02	03	04	06	08	10									
		heating	01	02	03	04	06	08	10									
FWL	2-pipe	cooling	01	02	03	04	06	08	10									
		heating	01	02	03	04	06	08	10									
	4-pipe	cooling	01	02	03	04	06	08	10									
		heating	01	02	03	04	06	08	10									
FWM	2-pipe	cooling	01	02	03	04	06	08	10									
		heating	01	02	03	04	06	08	10									
	4-pipe	cooling	01	02	03	04	06	08	10									
		heating	01	02	03	04	06	08	10									
FWB	2-pipe	cooling	02	03	04	05	06	07	08	09	10							
		heating				02	03	04	05	06	07	08	09	10				
	4-pipe	cooling	02	03	04	05	06	07	08	09	10							
		heating			02	03	04	05	06	07	08	09	10					
FWD	2-pipe	cooling			04	06	08	10	12	16	18							
		heating			04	06	08	10	12	16	18							
	4-pipe	cooling			04	06	08	10	12	16	18							
		heating			04	06	08	10	12	16	18							

Measuring conditions (at nominal air flow and ESP) : COOLING • air temperature entering the unit: 27°C/19°C • water temperature entering the unit 7°C • leaving the unit 12°C

HEATING • room air temperature 20°C • for 2 pipe units : water temperature entering 50°C - water flow rate same as for the cooling test • for 4 pipe units : water temperature entering 70°C - water temperature leaving 60°C.

FAN COIL UNIT - ACCESSORIES

Type: FWM, FWL, FWV	1	2	3	4	6	8	10	FWV	FWL	FWM
Description										
Additional single row heat exchanger	ESRH02A6	ESRH03A6	ESRH06A6	ESRH10A6				x	x	x
Electric heater	EEH01A6	EEH02A6	EEH03A6	EEH06A6	EEH10A6			x	x	x
2-pipe 3-way valve	E2MV03A6		E2MV06A6	E2MV10A6				x	x	x
4-pipe 3-way valve	E4MV03A6		E4MV06A6	E4MV10A6				x	x	x
Fan stop thermostat			YFSTA6					x	x	x
Air intake & discharge grille	EAIDF02A6	EAIDF03A6	EAIDF06A6	EAIDF10A6				-	-	x
Supporting feet		ESFV06A6		ESFV10A6				x	-	x
Supporting feet grille	ESFVG02A6	ESFVG03A6	ESFVG06A6	ESFVG10A6				x	-	-
Fresh air intake	EFA02A6	EFA03A6	EFA06A6	EFA10A6				x	x	x
Rear panel	ERPVO2A6	ERPVO3A6	ERPVO6A6	ERPVO10A6				x	x	-
Control electromechanical			ECFWMB6					x	x	-
Electronic controller			FWEC1A, FWEC2A, FWEC3A					x	x	x
Master slave option			EPIMSA6					x	x	x
Vertical drainpan			EDPVA6					x	x	x
Horizontal drainpan			EDPHA6					-	x	x
On board installation kit			FWECKA					x	x	-
Temperature sensor kit			FWTSKA					x	x	x
Relative humidity sensor kit			FWHska					x	x	x

Type: FWB 4TW60299-2A (1/2)	2-4	5-7	8-10
Description			
Additional heat exchanger	EAH04A6	EAH07A6	EAH10A6
3-way valve add. h/e	E2MV307A6		E2MV310A6
3-way valve cooling h/e		Factory mounted	
2-way valve add. h/e	E2MV207A6		E2MV210A6
2-way valve cooling h/e		Factory mounted	
Electric Heater		Factory mounted	
Fan stop thermostat		YFSTA6	
Master slave interface		EPIMSB6	
Electronic controller		FWEC1A	
		FWEC2A	
		FWEC3A	
Temperature sensor kit		FWTSKA	
Relative humidity sensor kit		FWHska	

Type: FWD	4	6	8	10	12	16	18
Description							
Electric heater: small (1)	EDEH04A6	EDEHS06A6	EDEHS10A6	EDEHS12A6	EDEHS18A6		
Electric heater: big	EDEH04A6	EDEHB06A6	EDEHB10A6	EDEHB12A6	EDEHB18A6		
2-pipe 3-way valve (2)	ED2MV04A6	ED2MV10A6	ED2MV12A6	ED2MV18A6			
4-pipe 3-way valve	ED4MV04A6	ED4MV10A6	2xED2MV12A6	2 x ED2MV18A6			
Vertical Drainpan		EDDPV10A6		EDDPV18A6			
Horizontal Drainpan		EDDPH10A6		EDDPH18A6			
Fan stop thermostat			YFSTA6				
Fresh air intake	EDMFA04A6	EDMFA06A6	EDMFA10A6	EDMFA12A6	EDMFA18A6		
Electronic controller (3)			FWEC1A,				
			FWEC2A				
			FWEC3A				
Power interface			EPIB6				
Master slave interface			EPIMSA6				
Temperature sensor kit			FWTSKA				
Relative humidity sensor kit			FWHska				

(1) Requires electronic controller

(2) For FWD 12,16,18 only motor valve (piping not included)

(3) Water probe included



FAN COIL UNIT - CONTROL

The fan coil units
can be operated
by different controllers
according
to the model.



ECFWMB6

ELECTROMECHANICAL BUILT-IN CONTROLLER

- › Fan speed selector
- › Manual cooling/heating changeover.
- › ON/OFF valves can also be controlled with ECFWMB6



EPIMSA6

MASTER/SLAVE INTERFACE

- › Available as an additional interface, which is required for units with a current greater than 1.12A
- › Optional for remote control of up to 4 fan coil units
- › Up to 3 Master/Slave interfaces can be connected in parallel, enabling control over up to 12 fan coil units



EPIA6

POWER INTERFACE

- › Available as an additional interface, which is required for units with a current greater than 1.12A
- › Required for connection of ECFWER6 to FWD12-18
- › Can be used as an alternative for Master/Slave interface



FWEC1AA

ELECTRONIC CONTROLLER

- › Control of on-off valves for two or four pipes systems
- › Control of auxiliary heating element
- › Cooling/heating switching in the following modes: local or remote manual (centralised), automatic (depending on water temperature (optional) or air temperature)
- › Possibility, by means of clean contacts, of remote centralised cooling/heating switching and external activation
- › Temperature sensor kit (accessory FWTSKAA)
- › Economy function (setpoint correction by 2.5°C and forcing of the fan to run at minimum available speed)



FWEC2AA

- › Composed by:
 - lc display
 - keyboard
- › On board and wall mounted installation.
- › Same as FWEC1AA with following additional functions:
 - 1) humidity management:
 - display of relative humidity
 - dehumidification function (cooling mode) Manual activation
 - 2) serial communication interface (RS485 bus)
 - possibility to set up a master-slave system up to 247 slave units, in which one of the controls plays the role of master and manages all the other slave units. (modbus protocol)



FWEC3AA

- › Composed by:
 - lc display
 - keyboard
- › On board and wall mounted installation.
- › Same as FWEC2AA with following additional functions:
 - 1) Back light
 - 2) Proportional valve control (two voltage outputs for the proportional valves)
 - 3) Voltage contact 0-10V (same as 2)
 - 4) Time clock and weekly schedule (on / off or setpoint air)
 - 5) Integration in BMS (already included in the FWEC2AA version)
 - 6) Two digital outputs (voltage free) to manage electric heaters with the weekly schedule





FWB04AT



FWEC1,2,3AA

- › 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
- › Electronic controller with water probe, available in standard, advanced and advanced plus version



FWB					2-PIPE								
					02	03	04	05	06	07	08	09	10
Power input	High			W	106			192			294		
Capacity	Cooling	Total	High	kW	2.61	3.14	3.49	5.08	5.45	6.47	7.57	8.67	10.34
	Cooling	Sensible	High	kW	1.88	2.16	2.34	3.6	3.87	4.4	5.23	5.96	6.9
	Heating	(2-pipe)	High	kW	5.47	6.01	6.47	10.31	11.39	12.28	15.05	16.85	18.78
Dimensions	Height x Width x Depth			mm	239x1,039x609			239x1,389x609			239x1,739x609		
Machine weight				kg	23	24	26	31	33	35	43	45	48
Sound level	Sound power		High	dB(A)	58			60			69		
Water flow	Cooling			l/h	448	539	598	873	936	1,111	1,299	1,488	1,774
	Heating			l/h	480	527	567	904	999	1,077	1,319	1,479	1,647
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	High		m³/h	400			800			1,200		
	Available pressure	High		Pa	71			65			59		
Standard heat exchanger	Water volume			l	1.1	1.5	2.2	1.6	2.1	3.2	2.1	2.8	4.2
Water connections	Std. heat exchanger			inch	3/4								
Current input	High			A	0.51			0.94			1.28		
Power supply					1~230V/50Hz								



FWD04A



FWD04A



FWEC1,2,3AA

- › Quick fixing system for wall mounting
- › Straight duct connector is mounted to discharge side
- › Standard air filter: removable from the bottom
- › Electronic controller with water probe, available in standard, advanced and advanced plus version



FWD				2-PIPE								4-PIPE								
				04	06	08	10	012	016	018	04	06	08	10	012	016	018			
Power input	High			W	234	349	443		714	1,197		234	349	443		714	1,197			
Capacity	Cooling	Total	High	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		
	Cooling	Sensible	High	kW	3.08	4.65	6.52	7.16	9.36	12.80	14.10	3.08	4.65	6.52	7.16	9.36	12.80	14.10		
	Heating	(2-pipe)	High	kW	4.05	7.71	9.43	10.79	14.45	19.81	21.92	-								
	Heating	(4-pipe)	High	kW	-							4.49	6.62	9.21		15.86	21.15			
Dimensions	Height x Width x Depth			mm	280x754x559	280x964x559	280x1,174x559		352x1,174x718	352x1,384x718		280x754x559	280x964x559	280x1,174x559		352x1,174x718	352x1,384x718			
Machine weight				kg	33	41	47	49	65	77	80	35	43	50	52	71	83	86		
Sound level	Sound power		High	dB(A)	66	69	72		74	78		66	69	72		74	78			
Water flow	Cooling			l/h	674	1,064	1,339	1,514	2,056	2,833	3,140	674	1,064	1,339	1,514	2,056	2,833	3,140		
	Heating			l/h	674	1,064	1,339	1,514	2,056	2,833	3,140	349	581	808		1,392	1,856			
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		High	m³/h	800	1,250	1,600		2,200	3,000		800	1,250	1,600		2,200	3,000			
	Available pressure		High	Pa	66	58	68	64	97	145	134	63	53	63	59	92	138	128		
Standard heat exchanger	Water volume			l	1.06	1.42	1.79	2.38	2.5	4.02	5.03	0.35	0.47	0.59		1.42	1.72			
Water connections	Std. heat exchanger			inch	3/4				1				3/4				1			
Current input	High			A	0.95	1.58	1.97		3.21	5.37	5.37	0.95	1.58	1.97		3.21	5.37			
Power supply					1~/230V/50Hz															



FWV02CAT



FWEC1,2,3AA



ECFWMB6

- › 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
- › Electronic controller with water probe, available in standard, advanced and advanced plus version



FWV					2-PIPE							4-PIPE							
					01	02	03	04	06	08	10	01	02	03	04	06	08	10	
Power consumption	High	W			37	53	56	98		182	244	37	53	56	98		182	244	
Capacity	Cooling	Total	High	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	
	Cooling	Sensible	High	kW	1.20	1.51	2.11	3.15	3.65	4.91	5.96	1.14	1.51	2.07	3.15	3.57	4.85	5.85	
	Heating	(2-pipe)	High	kW	2.14	2.57	3.81	5.63	6.36	7.83	10.03								
	Heating	(4-pipe)	High	kW	-							1.90	2.10	3.08	5.05	5.30	7.91	9.30	
Dimensions	Height x Width x Depth			mm	564x774x226		564x984x226	564x1,194x226		564x1,404x251		564x774x226		564x984x226	564x1,194x226		564x1,404x251		
Machine weight				kg	19	20	25	30	31	41		20	21	26	32	33	44		
Sound level	Sound power		High	dB(A)	45	50	47	52	56	61	66	45	50	47	52	56	61	66	
Water flow	Cooling			l/h	265	359	504	745	820	1,154	1,343	251	327	494	745	803	1,142	1,355	
	Heating			l/h	265	359	504	745	820	1,154	1,343	196	182	286	396	465	694	816	
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		High	m³/h	319	344	442	706	785	1,011	1,393	307	327	431	690	763	998	1,362	
Standard heat exchanger	Water volume			l	0.5	0.7	1	1.4		2.1		0.5	0.7	1.0	1.4		2.1	2.1	
Piping connections	Water inlet/outlet			inch	1/2					3/4		1/2					3/4		
Current input	High			A	0.17	0.24	0.25	0.44	0.43	0.80	1.12	0.17	0.24	0.25	0.44	0.43	0.80	1.12	
Power supply					1~230V/50Hz														



FWM01C



FWM01C



FWEC1,2,3AA

- › 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-PIPE							4-PIPE								
					01	02	03	04	06	08	10	01	02	03	04	06	08	10		
Power input	High			W	37	53	56	98		182	244	37	53	56	98		182	244		
Capacity	Cooling	Total	High	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		
	Cooling	Sensible	High	kW	1.20	1.51	2.11	3.15	3.65	4.91	5.96	1.14	1.51	2.07	3.15	3.57	4.85	5.85		
	Heating	(2-pipe)	High	kW	2.14	2.57	3.81	5.63	6.36	7.83	10.03									
	Heating	(4-pipe)	High	kW	-							1.90	2.10	3.08	-	5.05	5.30	7.91	9.30	
Dimensions	Height x Width x Depth			mm	535x584x224		535x794x224	535x1,004x224		535x1,214x249		535x584x224		535x794x224	535x1,004x224		535x1,214x249			
Machine weight				kg	14	15	19	23		32		15	16	20	25		34			
Sound level	Sound power		High	dB(A)	45	50	47	52	56	61	66	45	50	47	52	56	61	66		
Water flow	Cooling			l/h	265	359	504	745	820	1,154	1,343	251	327	494	745	803	1,142	1,355		
	Heating			l/h	265	359	504	745	820	1,154	1,343	196	182	286	396	465	694	816		
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		High	m³/h	319	344	442	706	785	1,011	1,393	307	327	431	690	763	998	1,362		
Standard heat exchanger	Water volume			l	0.5	0.7	1	1.4		2.1		0.5	0.7	1	1.4		2.1			
Water connections	Std. heat exchanger			inch	1/2					3/4			1/2					3/4		
Current input	High			A	0.17	0.24	0.25	0.44	0.43	0.80	1.12	0.17	0.24	0.25	0.44	0.43	0.80	1.12		
Required power supply					1~230V/50Hz															



FWL03C



FWL03C



FWEC1,2,3AA



ECFWMB6

- › 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-PIPE							4-PIPE								
					01	02	03	04	06	08	10	01	02	03	04	06	08	10		
Power input	High			W	37	53	56	98		182	244	37	53	56	98		182	244		
Capacity	Cooling	Total	High	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		
	Cooling	Sensible	High	kW	1.20	1.51	2.11	3.15	3.65	4.91	5.96	1.14	1.51	2.07	3.15	3.57	4.85	5.85		
	Heating	(2-pipe)	High	kW	2.14	2.57	3.81	5.63	6.36	7.83	10.03									
	Heating	(4-pipe)	High	kW	-							1.90	2.10	3.08	5.05	5.30	7.91	9.30		
Dimensions	Height x Width x Depth			mm	564x774x226	564x984x226	564x1,194x226		564x1,404x251			564x774x226	564x984x226	564x1,194x226		564x1,404x251				
Machine weight				kg	20	21	27	32	33	44		21	22	28	34	35	46			
Sound level	Sound power			dB(A)	45	50	47	52	56	61	66	45	50	47	52	56	61	66		
Water flow	Cooling			l/h	265	359	504	745	820	1,154	1,343	251	327	494	745	803	1,142	1,355		
	Heating			l/h	265	359	504	745	820	1,154	1,343	196	182	286	396	465	694	816		
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		High	m³/h	319	344	442	706	785	1,011	1,393	307	327	431	690	763	998	1,362		
Standard heat exchanger	Water volume			l	0.5	0.7	1	1.4		2.1		0.5	0.7	1	1.4		2.1			
Water connections	Std. heat exchanger			inch	1/2					3/4			1/2					3/4		
Current input	High			A	0.17	0.24	0.25	0.44	0.43	0.80	1.12	0.17	0.24	0.25	0.44	0.43	0.80	1.12		
Required power supply					1~230V/50Hz															



Daikin Air Handling Units

The Daikin air handling units are based on a completely modular design, capable of adapting to the needs of a variety of installation types.

A wide standard range covers air flow rates from 1,100m³/h up to 124,000m³/h while paying special attention to energy efficiency.

SYSTEM HIGHLIGHTS

- › Custom modular design with variable dimensioning
- › Rigid 40mm and 60mm extruded aluminium profile structure
- › Double wall 25mm and 50mm foam or rockwool filled panels
- › Component flexibility for total air treatment:
Heat Recovery & Humidification
- › Air flow rates from 1,100 up to 124,000m³/h



Aluminium profile with thermal break

ROBUST THERMAL-BREAK CONSTRUCTION

The air handling unit is constructed of aluminium, using anodised aluminium profiles and double-walled panels. The profiles have a section of 40x40mm or 60x60mm. The 60x60mm profiles are also available in a thermal-break version.

The following insulation material is used between the sheets:

- › Polyurethane foam (40-50 kg/m³)
- › Mineral wool, glued to the panel (90 kg/m³)

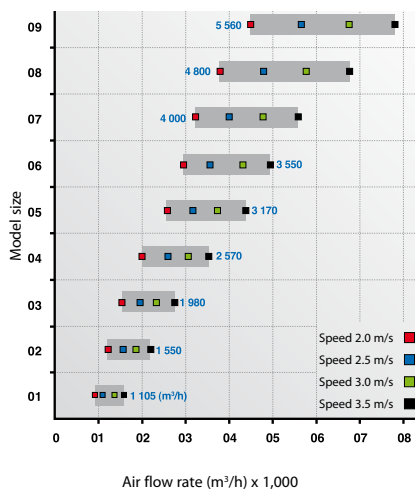
The panels are available as flat panels or as step panels, which permit to obtain a flat surface inside the unit.

The inner and outer sheet of the panel can be made with the following materials:

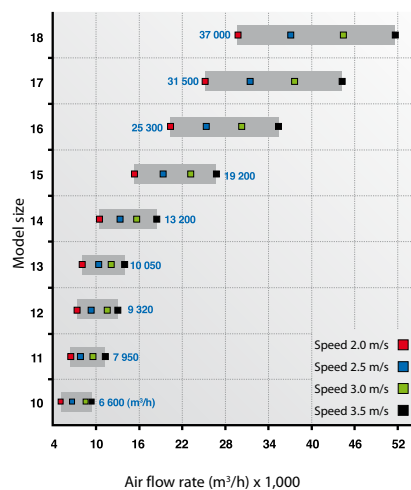
- › Platisol
- › Galvanised steel
- › Aluminium
- › Stainless steel
- › Pre-painted



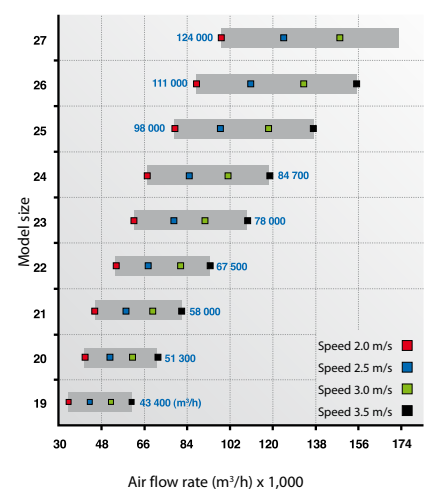
STANDARD 01-09



STANDARD 10-18



STANDARD 19-27



COMPONENTS OF AIR HANDLING UNITS

“Offering a complete range: from standard model sizes to customised solutions.”

HUMIDIFIERS

- › Surface evaporation humidifier
- › Water spray humidifier
- › Steam humidifier (on network with generator)
- › Atomized water spray humidifier

HEAT EXCHANGERS

Material:

- › Cu/Al
- › Cu/Alprepainted
- › Cu/Cu
- › galvanised Fe
- › RVS304
- › RVS316
- › Water coil
- › Steam coil
- › Direct expansion coil
- › Superheated water coil
- › Electric coils

HEAT RECOVERY

- › Heat wheel (efficiency 70 ÷ 75%)
- › Plate heat exchanger (efficiency 50 ÷ 60%)
- › Twincoil heat exchanger (efficiency 50 ÷ 60%)
- › FILTERS
- › Pre-filters:
 - › - Pleated filter (G3,G4)
 - › - Flat filter (G1,G2)
- › Medium efficiency filter:
 - › - Bag filters (rigid or soft) (F5 ÷ F9)
- › High efficiency filters (up to H13)
- › Active carbon filters
- › - Adsorption filters
- › - Deodorizing filters

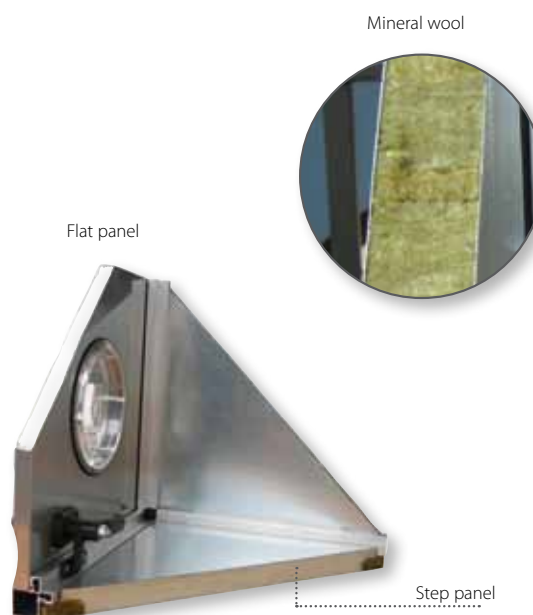
CENTRIFUGAL FANS

- › Forward bladed fans
- › Backward bladed fans
- › Centrifugal fan
- › Belt or direct drive

OTHER

- › Damper
- › Mixed section
- › Empty section
- › Gas burner section
- › Drip tray

Model size	Air flow rate at 2.5m/s	Length	Height
1	1,105	850	550
2	1,550	900	600
3	1,980	950	650
4	2,570	1,000	780
5	3,170	1,150	780
6	3,550	1,150	800
7	4,000	1,250	800
8	4,800	1,300	850
9	5,560	1,350	900
10	6,600	1,550	900
11	7,950	1,550	1,100
12	9,320	1,650	1,100
13	10,050	1,650	1,150
14	13,200	1,850	1,400
15	19,200	2,100	1,500
16	25,300	2,650	1,500
17	31,500	2,750	1,750
18	37,000	3,220	1,800
19	43,400	3,090	2,100
20	51,300	3,340	2,250
21	58,000	3,820	2,250
22	67,500	4,040	2,400
23	78,000	4,490	2,450
24	84,700	4,490	2,700
25	98 000	4,890	2,850
26	111 000	5,490	2,850
27	124,000	5,990	3,000





MEASURING CONDITIONS

CHILLERS

Air cooled	Cooling	Water 7°C / 12°C	Ambient temperature : 35°C
	Heating	Water 45°C / 50°C	Ambient temperature : 7°C
Condensing unit	Suction dewpoint : 5°C		Ambient temperature : 35°C
Condenserless chiller	Cooling	Water 7°C / 12°C	Condensing temp : 45°C
			Liquid temp. : 40°C
Water cooled	Cooling	Evaporator water : 7°C / 12°C	Water condenser : 30°C / 35°C
	Heating	Evaporator water : 7°C / 12°C	Water condenser : 40°C / 45°C

FAN COILS

Measuring conditions (at nominal air flow and ESP): COOLING: air temperature entering the unit: 27°C/19°C, water temperature entering the unit 7°C, water temperature leaving the unit 12°C - HEATING: room air temperature 20°C, for 2-pipe units: water temperature entering 50°C - water flow rate same as for the cooling test, for 4-pipe units: water temperature entering 70°C - water temperature leaving 60°C





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.



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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.

FSC

ECPEN10-401

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