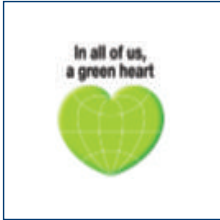


Water-cooled chillers Remote condenser chillers

EUW5-24KZW
EUWL5-24KZW
Applied systems





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 environmental friendly products. This challenge demands the eco design and development of a wide range of products and an energy management system; which involves energy conservation and reduction of waste.



Flexible *application*

The latest series of small modular, water-cooled R-407C units (EUW5 - 24KZ) with capacities from 13kW to 65kW extends Daikin expertise, already acknowledged in the commercial and industrial sectors. The incorporation of reversible water to water technology plus a modularised format also enables them to be used in cooling applications up to 195kW or heating applications up to 232kW as required.

The KZ-series incorporate main switch, water filter + shut off valves, flow switch, air purge and pressure ports. A remote condenser version can also be supplied as standard (EUWL5-24KZ).

Modular *design*

The unique modular concept adopted for EUW-KZ chillers allows their installation as a stand alone single circuit unit (13kW to 33kW) or as a twin circuit single module (43 to 65kW). With measurements of just 600mm (width) x 600mm (length) x 600mm (height),

for the stand alone unit, the footprint is some 25% less and volume occupied 50% less than those of contemporary units.

The modular concept also enables EUW(L)-KZ chillers to pass through a standard width door, thereby minimising installation time and costs. Furthermore, the wide range of sizes - 7 basic models and 18 different combinations - ensures against serious over or under capacity situations. Independent refrigeration circuits provides built in protection and can also yield cost savings by minimising floor space requirements. Particular attention has been paid to suppressing operating sound levels whilst maintenance is simplified by readily accessible water, refrigeration and electrical circuits.





Energy efficient *scroll compressor*

The heart of the unit is a Daikin hermetic scroll compressor, optimised for use with R-407C refrigerant and designed to the very highest technical standards. The presence of more than 1 million of these units in the field is testament to their low power consumption, high compression efficiency, low operating sound levels and starting torque and ability to operate in world wide environments.



Efficient *heat transfer*

The use of a stainless plate heat exchanger for evaporator and condenser results in maximum heat transfer between refrigerant and water circuits within minimal and compact areas with high W/m^2 values that ensure optimum efficiency. Compared to other heat exchangers, the use of the plate heat exchangers results in a much more efficient pump selection. Also, the counter flow design utilised for refrigerant and water overcomes all problems associated with R-407C temperature glide characteristics.



DDC *control*

Smaller sized chillers (up to 65kW) are fitted with standard Daikin μ DDC self diagnostic, electronic control, offering auto restart, LED status display and total integration of all chiller functions within a single controller.



For combination of multiple units in master-slave application, a special pCO^2 DDC controller is included, which is able to monitor all operating parameters. The controller can be set up in 6 languages (English/German/French/Spanish/Italian/Norwegian). A multiplicity of programmable functions can be handled, such as floating setpoint, compressor lead lag, freeze up control and extended alarm history etc. Also, a built in schedule timer enables up to 4 timer groups with 9 time-related options to be programmed.



**Daikin EUW(L)-KZ chillers provide an economic and efficient solution
for water cooled applications in many fields.
Daikin the choice of professionals, everywhere.**

EUW(L)-KZW ⁽¹⁾			5	8	10	12	16	20	24	
Nominal capacity ^(2,3)	cooling (EUW)	kW	13.0	21.5	28.0	32.5	43.0	56.0	65.0	
	cooling (EUWL)	kW	12.1	20.0	26.8	31.2	40.0	53.7	62.4	
	heating	kW	15.4	25.2	34.2	39.0	50.1	67.2	77.4	
Nominal input	cooling (EUW)	kW	3.71	5.96	7.76	9.1	12.1	16.0	18.3	
	cooling (EUWL)	kW	4.2	6.7	8.7	10.2	13.5	18.0	20.5	
	heating	kW	4.5	7.1	9.4	11.1	14.6	19.3	22.1	
EER (EUW/EUWL)			3.5 / 2.88	3.61 / 2.99	3.61 / 3.08	3.57 / 3.06	3.55 / 2.96	3.5 / 2.98	3.55 / 3.04	
COP			3.42	3.55	3.64	3.51	3.43	3.48	3.50	
Capacity steps		%	1				2			
Refrigerant circuit	type		R-407C							
	charge ⁽⁵⁾	kg	1.2	2	2.3	2.7	4.6	4.6	5.6	
	control		thermostatic expansion valve							
	oil type		FVC68D							
	oil charge	l	1.5	2.7	2.7	2.7	2 x 2.7	2 x 2.7	2 x 2.7	
Compressor	type		hermetically sealed scroll							
No. of circuits/compressors			1				2			
Dimensions		mm	600 x 600 x 600				600 x 600 x 1200			
Machine weight (EUW(L))		kg	113 (104)	150 (138)	160 (144)	167 (149)	300 (252)	320 (265)	334 (274)	
Sound power level ⁽⁴⁾		dB(A)	64			71	67		74	
Casing	material/colour		polyester painted steel plate / ivory white - Munsell code 5Y75/1							
Piping connections	evap./cond. water in/outlet	mm	FBSP 25				FBSP 40			
	condenser/evaporator drain purge						field installation			
Operation range	leaving water condenser	°C	20°C ~ 55°C							
	condensing temperature	°C	25°C ~ 60°C							
	leaving water evaporator	°C	-10° ~ 20°C							
Power supply	Y1		3N ~ /400V/50Hz							

Notes:

- The water-cooled chillers are standard available from 5 to 24hp. For combination of multiple units (up to 72hp) in master-slave application, an optional switchbox (see option list) is required. For detailed selection, please consult the databook.
- Nominal cooling capacities are based on: evaporator: 12°C/7°C * condenser 30°C/35°C
- Nominal heating capacities are based on: evaporator: 10°C/5°C * condenser 40°C/45°C
- The sound power level is an absolute value indicating the "power" which a sound source generates.
- For refrigerant charge of EUWL-KZ, please consult the databook.

Option Number	Option description	unit size							Availability	
		5	8	10	12	16	20	24		
Not completely combinable options										
opzh	glycol application chilled water temperature down to -5°C	0	0	0	0	0	0	0	0	factory mounted
opzl	glycol application chilled water temperature down to -10°C	0	0	0	0	0	0	0	0	factory mounted
Available kit										
EKBMSMBA	Modbus / j-bus	0	0	0	0	0	0	0	0	kit
EKBMSBNA	Bacnet	0	0	0	0	0	0	0	0	kit
EKAC10B	BMS card for single circuit	0	0	0	0	0	0	0	0	kit
EKRUMC	Remote controller	0	0	0	0	0	0	0	0	kit
EKLS1	Low sound kit	01	-	-	-	-	-	-	-	kit
EKLS2	Low sound kit	-	01	01	01	02	02	02	02	kit
EHMC10AV1010/1080	Hydraulic module	0	0	-	-	-	-	-	-	kit
EHMC15AV1010/1080	Hydraulic module	-	-	0	0	-	-	-	-	kit
EHMC30AV1010/1080	Hydraulic module	-	-	-	-	0	0	0	0	kit
<ul style="list-style-type: none"> For combination of multiple units (up to 72hp) in master-slave application, an optional switchbox is required. To install EKBSMSMBA, EKBSMSBNA and EKRUMC > EKAC10B needs to be installed on the unit. 										
ECB2MUW	switch box for combination from 32hp up to 48hp	kit								
ECB3MUW	switch box for combination from 52hp up to 72hp	kit								

Impossible option combinations: ZH + ZL

0 available
 0 x available and a quantity of x is needed for this unit size
 - not available



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.



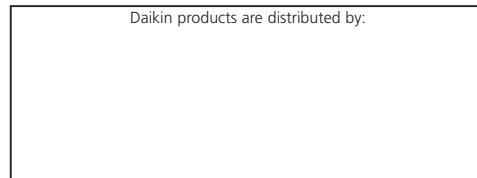
ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



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

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DAIKIN EUROPE N.V.

Zandvoordestraat 300
 B-8400 Oostende, Belgium
 www.daikineurope.com



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