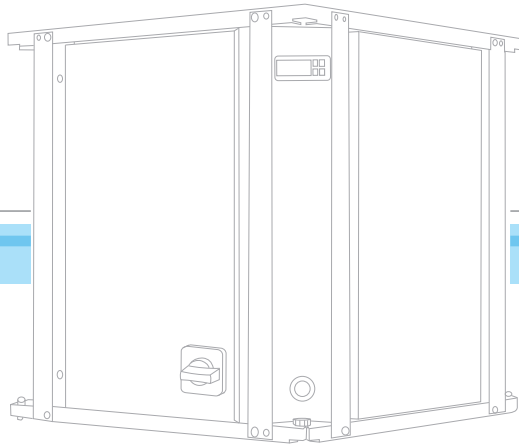
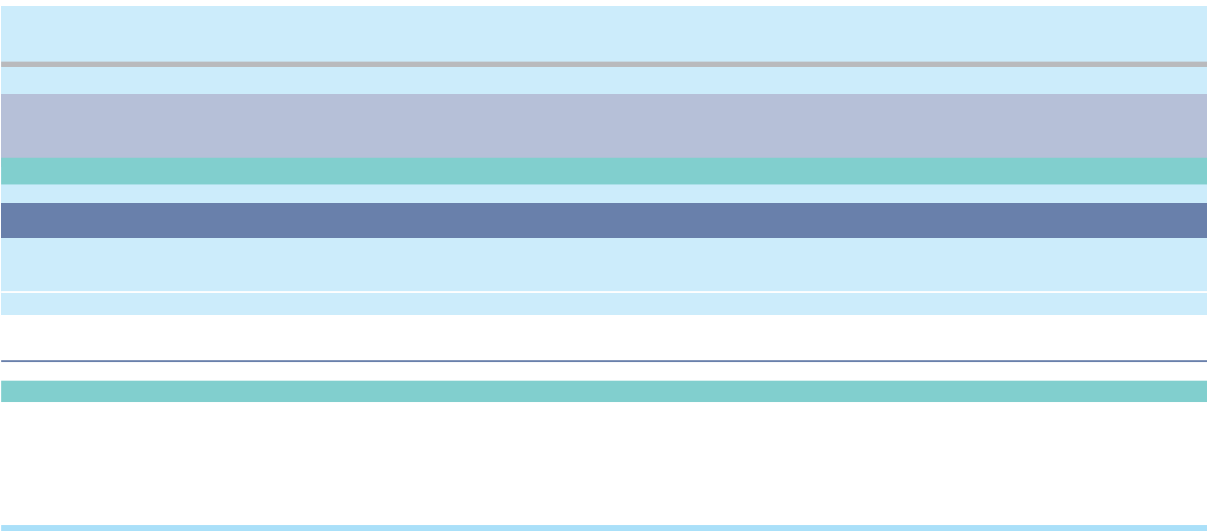




A I R C O N D I T I O N I N G



Water-cooled chillers Remote condenser chillers



EWWP014-065KAW1N
EWLP012-065KAW1N
Applied systems



R-407C



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 (EWWP014-065KAW1N) with capacities from 13 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 KAW1N-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 (EWLP012-065KAW1N).

Modular *design*

The unique modular concept adopted for EWWP-KAW1N chillers allows their installation as a stand alone single circuit unit (13 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 EWLP-KAW1N 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 pCO² 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 EWWP-KAW1N / EWLP-KAW1N chillers provide an economic and efficient solution for water cooled applications in many fields.
Daikin the choice of professionals, everywhere.**

EWWP-KAW1N / EWLP-KAW1N ⁽¹⁾			014 / 012	022 / 020	029 / 026	035 / 030	045 / 040	055 / 055	065 / 065	
Nominal capacity ⁽²⁾	cooling (EWWP)	kW	13.0	21.5	28.0	32.5	43.0	56.0	65.0	
	cooling (EWLP)	kW	12.1	20.0	26.8	31.2	40.0	53.7	62.4	
Nominal input	cooling (EWWP)	kW	3.61	5.79	7.48	8.75	11.8	15.5	17.6	
	cooling (EWLP)	kW	4.2	6.6	8.5	10.1	13.4	17.8	20.3	
EER (EWWP/EWLP)			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 ⁽³⁾	kg	1.2	2	2.5	3.1	4.6	4.6	5.6	
	control		Thermostatic expansion valve							
	oil type		FVC68D							
Compressor	oil charge	l	1.5	2.7	2.7	2.7	2 x 2.7	2 x 2.7	2 x 2.7	
	type		Hermetically sealed scroll compressor							
No. of circuits/compressors			1				2			
Dimensions	HxWxD	mm	600 x 600 x 600				600 x 600 x 1,200			
Machine weight (EWWP/EWLP)		kg	118/108	155/141	165/147	172/151	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	5° (-10°C as option) ~ 20°C							
Power supply		W1	3N ~ /400V/50Hz							

Notes:

- The water-cooled chillers are standard available from 13 to 65 kW. For combination of multiple units (up to 195 kW) 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
- The sound power level is an absolute value indicating the "power" which a sound source generates.
- For refrigerant charge of EWLP-KAW1N, please consult the databook.

Option Number	Option description	Unit size							Availability
		014WC 012RC	022WC 020RC	028WC 026RC	035WC 030RC	045WC 040RC	055WC 055RC	065WC 065RC	
Not completely combinable options									
Opzh	Glycol application chilled water temperature down to -5°C	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	factory mounted
Available kit									
EKBMSMBA	BMS gateway modbus / j-bus protocol	0	0	0	0	0	0	0	kit
EKBMSBNA	BMS gateway bacnet protocol	0	0	0	0	0	0	0	kit
EKAC10B	BMS card	0	0	0	0	0	0	0	kit
EKRUMC	Remote controller	0	0	0	0	0	0	0	kit
EKLS1	Low noise operation EWWP014KAW1N / EWLP012KAW1N	o1	-	-	-	-	-	-	kit
EKLS2	Low noise operation EWWP022KAW1N / EWLP020-06SKAW1N	-	o1	o1	o1	o2	o2	o2	kit
EHMC10AV1010/1080	Hydraulic module	0	0	-	-	-	-	-	kit
EHMC15AV1010/1080	Hydraulic module	-	-	0	0	-	-	-	kit
EHMC30AV1010/1080	Hydraulic module	-	-	-	-	0	0	0	kit

• To install EKBMSMBA, EKBMSBNA and EKRUMC -> EKAC10B needs to be installed on the unit.

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

DAIKIN EUROPE N.V.

Naamloze Vennootschap
Zandvoordestraat 300
B-8400 Oostende, Belgium
www.daikineurope.com
BTW: BE 0412 120 336
RPR Oostende



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.



Daikin Europe NV 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.

"The present publication is drawn up by way of information only and does not constitute an offer binding upon Daikin Europe N.V. Daikin Europe N.V. has compiled the content of this publication to the best of its knowledge. No express or implied warranty is given for the completeness, accuracy, reliability or fitness for particular purpose of its content and the products and services presented therein. Specifications are subject to change without prior notice. Daikin Europe N.V. explicitly rejects any liability for any direct or indirect damage, in the broadest sense, arising from or related to the use and/or interpretation of this publication. All content is copyrighted by Daikin Europe N.V."

Daikin products are distributed by:



EPLEN07-407