



WATER-COOLED CHILLERS



APPLIED SYSTEMS

R-134a



www.daikin.eu

EWWD-CJYNN COOLING ONLY HEATING ONLY

A



ABOUT DAIKIN

Daikin has a worldwide reputation based on over 80 years' experience in the successful manufacture of high quality air conditioning equipment for industrial, commercial and residential use.

Daikin Europe N.V.

LARGER OPERATION RANGE

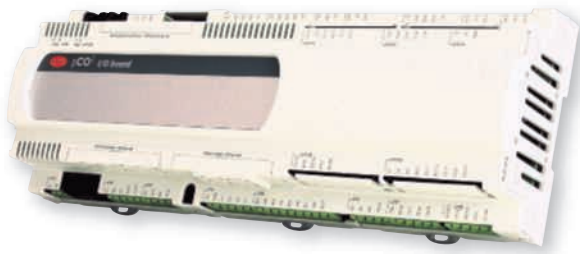
- › 19 models available with cooling capacities ranging from 334 to 1893kW
- › Ideal for use in severe weather conditions and over a wide operation range
- › 2 independent circuits from 360kW onwards
- › Remote condenser version available
- › Compact, simple and robust construction
- › Operation range in heating up to 50°C
- › Standard fitted with victaulic joints on evaporator:
 - Victualic joints absorb vibrations, reduce operating sound and thermal deflection and simplify chiller piping and installation
 - They can accommodate 8° angles and guarantee stress free, leak tight water piping connection

	Application	Sizes	Capacity range	EERavg	Noise level
Std	Standard efficiency	19	334-1893kW	4.4	75-82dBA

ELECTRONIC CONTROL



- › Advanced pCO² control
- › detailed information on and accurate control of all functional parameters by easy menu scrolling
- › Chilled water and brine temperatures down to -8°C on standard unit (to be set up by a certified engineer)
- › Changeable digital input/output such as remote on/off, remote cooling/capacity, dual setpoint and capacity limit
- › Lead lag function is standard
- › Standard equipped with night setback and peak load limitation
- › Remote DDC (EK RUPCK) can be installed up to 1,000m from the unit



Open Network Integration

Daikin has released a gateway for connection to BACnet, LonWorks and Modbus networks equipment and building control systems. BACnet, LonWorks and Modbus networks are recognised worldwide as the de facto standard within the building controls industry. BACnet, LonWorks and Modbus data communication protocols make it possible to control access, energy management, fire/life/safety, HVAC and lighting etc.

Simultaneous operation of up to 5 chillers is optional through EKCSII sequencing panel (this function enables a Daikin 9MW chiller plant to be operated via a single controller).

SPECIFICATIONS			EWWD340CJYNN	EWWD400CJYNN	EWWD480CJYNN	EWWD550CJYNN	EWWD700CJYNN	EWWD750CJYNN	EWWD800CJYNN
Nominal capacity *	cooling	kW	334	399	462	510	666	735	792
Capacity steps *		%	Stepless 25-100	Stepless 25-100	Stepless 25-100	Stepless 25-100	Stepless 12.5-100	Stepless 12.5-100	Stepless 12.5-100
Nominal input	cooling	kW	81.1	90.1	102	109	160	170	180
EER			4.12	4.43	4.49	4.64	4.16	4.3	4.4
ESEER			4.57	4.86	4.91	5.08	5.26	5.43	5.56
Dimensions (HxWxD)		mm	1,970x3,310x900	1,970x3,310x900	1,970x3,310x900	1,970x3,310x900	2,070x4,300x1,290	2,070x4,300x1,290	2,070x4,300x1,290
Machine weight		kg	1,830	1,855	1,886	1,965	3,395	3,495	3,515
Water Heat Exchanger	type								
	minimum water volume in the system	l	140	135	128	152	210	350	350
	type								
	minimum water volume in the system	l	30	35	34	36	60	63	70
Nominal water pressure drop	heating	kPa							37
Compressor	type								
	model	Quantity	1	1	1	1	2	2	2
Sound Pressure	cooling	dB(A)	75.2	76.2	78.2	78.2	77.8	78.2	78.7
Refrigerant circuit	refrigerant type								
	refrigerant charge	kg	53	63	73	77	106	116	126
	no of circuits		1	1	1	1	2	2	2
	Refrigerant control								
Power Supply									

* Nominal cooling capacity and power input are based on 12/7% entering/leaving water temperature and 35°C ambient temperature. Power input is for the whole unit.

OPTIONS		Heat Recovery		LWE		
Reference	Products	Total Heat Recovery	Partial Heat Recovery	High Glycol	Low Glycol	Power factor 0,9
		OPTR	OPPR	OPZH	OPZL	OPPF
EWWD-CJYNN	340-400-480-550-700-750-800-900-950-C10-C11-C12-C13-C14-C15-C16-C17-C18-C19	•	•	STD	STD	•

ACCESSORIES					
Reference	Communication cards		Modbus gateway Bacnet gateway	Remote user interface	
	EKAC200J	EKACLON	EKBSBNJ	EKRUPCK	EKBT500N
EWWD340-C19CJYNN	•	•	•	•	•



Heat recovery

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

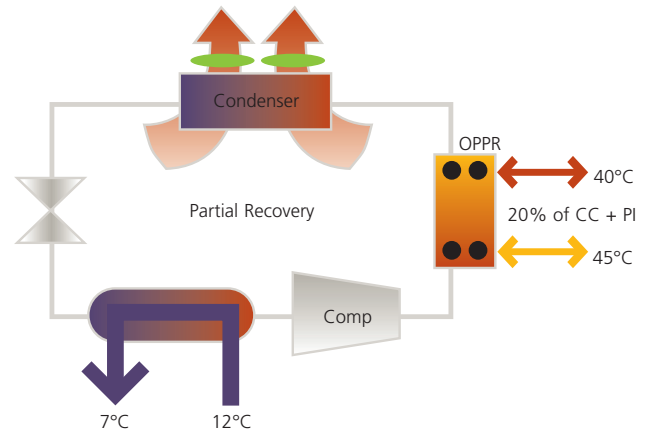
OPPR – Partial recovery

An 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.

LARGE FLEXIBILITY

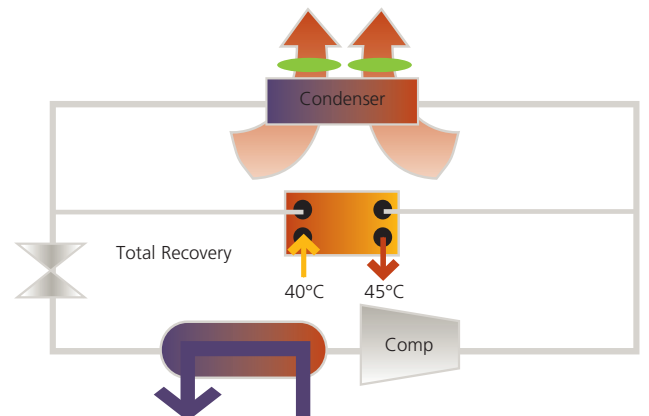
In many applications there often exists a simultaneous cooling and heating demand requirement alongside one another. To benefit from this Daikin offers the full range of R-134a EWWD-CJYNN chillers with the option of heat recovery. This option further increases the application flexibility and extends 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.



OPTR – Total 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.



ENVIRONMENTAL AWARENESS

Air Conditioning 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 enormous efforts 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.



In all of us,
a green heart



Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues.

For several years Daikin has had the intention to become a leader in the provision of products that have limited impact on the environment.

This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.



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



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



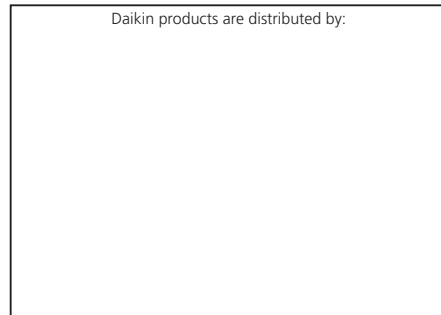
Daikin units comply with the European regulations that guarantee the safety of the product.



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. Certification is valid for air cooled models <600kW and water cooled models <1500kW.

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