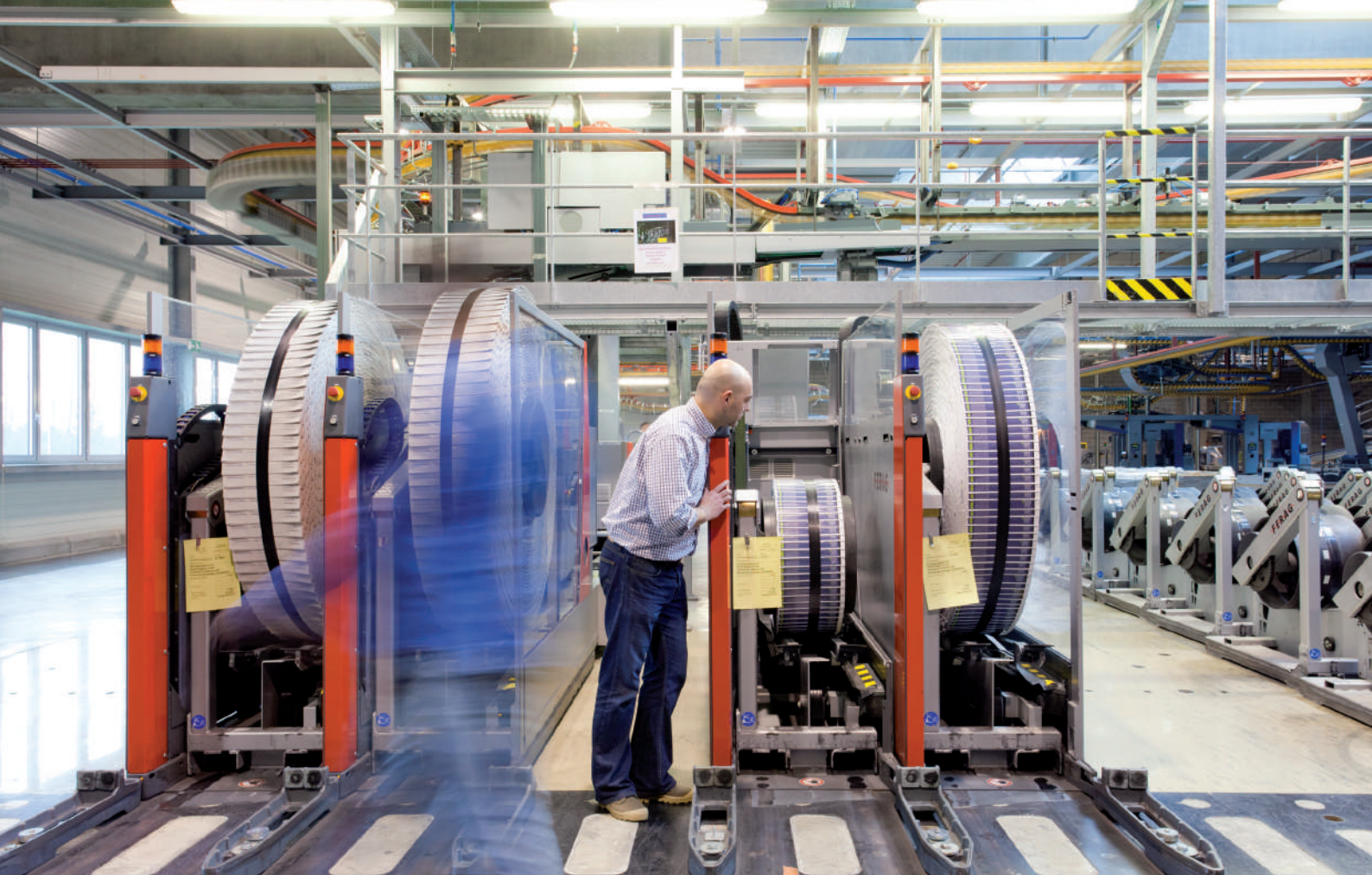


InverterChillers & Heat Pumps

EWA(Y)T-CZ series



R-32 technology at its best



Why choose Daikin chiller?



Low environmental impact

The new R-32 Small Inverter Chiller provides the lowest direct and indirect CO2 emissions levels. That makes it an environmentally friendly series, also thanks to the use of R-32, which is known for being a low GWP and sustainable refrigerant.



Top class efficiency

This new series stands out for being able to provide the best efficiency levels in the market, both in cooling and heating mode, allowing substantial savings on energy bills.



Leadership in R-32 technology

Daikin can count on the highest number of R-32 installations around the world. That not only means being the most experienced, but also means being the most knowledgeable and reliable brand producing R-32 technology.



Infinite application possibilities

The R-32 Small Inverter Chiller series has been designed to meet the needs of the widest possible range of applications, from process cooling applications, to residential, commercial and data centers applications. All that to provide customers with an extremely flexible solution to their needs.



Optimized system solutions

The management of multiple units in parallel as well as the advanced control logics for optimizing the heating and cooling production and fulfil domestic hot water needs provide this new Series a with a full set of invaluable features.



Advanced connectivity

Complexity has been reduced by moving from hardware to software tools. Thanks to a newly designed Configuration App, it possible to let the units of this Series communicate with any external BMS.



Compact design

The new R-32 Small Inverter Chiller comes in three different layouts, all providing a very compact footprint despite the cooling/heating capacity they can deliver. That makes the series a great solution for projects dealing with space issues.



Widespread support network

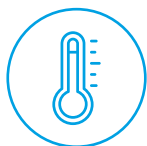
Daikin customers, other than benefitting from the quality standards associated with the brand, they can benefit from Daikin's widespread network of installers and after sales support teams around the world.

EWA(Y)T-CZ

scroll inverter chillers



Suitable for comfort & process applications



Working conditions

Heating guaranteed all year round and hot water production up to 60°C and cooling from -20°C up to 52°C in order to respond to all countries need installations.



Capacity range and layout



16-25 kW



32-50 kW



64-90 kW



Full inverter technology

SEER up to 5.76 | SCOP up to 4.19 | SEPR up to 8.48

The most advanced technology with highest efficiency and quality levels.

Unrivalled and proven reliability thanks to testing of chillers and components in different locations even at extreme working conditions.

Daikin's Scroll compressors can benefit from Inverter technology that increases this Series' efficiency performance, both at full load and part load, which is very important, as chillers and heat pumps usually operate at part load conditions for most of their operating time.

Great energy efficiency levels are also granted by the Inverter Driven Fans, which, along with the Inverter Scroll Compressors, make this new R-32 Small Inverter Chiller a full Inverter Series.

The operating range of the unit can be extended up to the standard operating limit of the unit thanks to the **HIGH AMBIENT TEMPERATURE KIT** and a specific electrical design for high ambient temperatures (up to 52°C).



Plant management & connectivity

Master/Slave or Modbus RTU are standard to ensure a perfect plant Connectivity.

Remote monitoring and system optimization with Daikin proprietary cloud platform Daikin on Site.

- ▮ Predictive maintenance to prevent breakdowns
- ▮ Visualize energy consumption to reduce energy costs
- ▮ Monitor and control your building no matter where you are via the Daikin On Site
- ▮ Remote diagnostic support to increase your system lifetime
- ▮ Manage Multiple sites



Dashboards



OPERATOR

Diagnostics



SERVICE

Remote software upgrade



DAIKIN

Cooling only EWAT-CZ series

Cooling only					EWAT-CZN/CZP/CZH	016	021	025	032	40- MONO	40- DUAL	050	064	090		
Cooling capacity	Nom.				kW	15.9 (1)/16.1 (2)/16.2 (3)	20.9 (1)/21.1 (2)/21.2 (3)	25.6 (1)/25.9 (2)/25.9 (3)	32.4 (1)/32.7 (2)/32.8 (3)	39.6 (1)/39.9 (2)/40.1 (3)	41.4 (1)/41.7 (2)/41.8 (3)	50.8 (1)/51.1 (2)/51.3 (3)	64 (1)/64.4 (2)/64.5 (3)	88.3 (1)/88.8 (2)/88.9 (3)		
	Max.				kW	18.3 (1)/18.6 (2)/18.7 (3)	25 (1)/25.3 (2)/25.4 (3)	29.3 (1)/29.6 (2)/29.6 (3)	38.6 (1)/38.9 (2)/39.1 (3)	45.2 (1)/45.6 (2)/45.7 (3)	49.6 (1)/50 (2)/50.1 (3)	58.2 (1)/58.6 (2)/58.7 (3)	72.7 (1)/73.3 (2)/73.4 (3)	98.3 (1)/98.8 (2)/98.9 (3)		
Power input	Cooling	Nom.			kW	5.5 (1)/5.45 (2)/5.6 (3)	6.6 (1)/6.56 (2)/6.7 (3)	8.5 (1)/8.48 (2)/8.7 (3)	10.3 (1)/10.3 (2)/10.4 (3)	13.4 (1)/13.3 (2)/13.5 (3)	13.2 (1)/13.2 (2)/13.3 (3)	17 (1)/16.9 (2)/17 (3)	21.8 (1)/21.9 (2)/22 (3)	31 (1)/31.1 (2)/31.2 (3)		
Capacity control	Method					Inverter controlled										
	Minimum capacity				%	18	14	12	19	15	14	12	15	14		
EER						2.90 (1)/2.96 (2)/2.89 (3)	3.16 (1)/3.22 (2)/3.15 (3)	3.00 (1)/3.05 (2)/2.98 (3)	3.13 (1)/3.18 (2)/3.14 (3)	2.95 (1)/3.00 (2)/2.97 (3)	3.12 (1)/3.17 (2)/3.15 (3)	2.98 (1)/3.03 (2)/3.02 (3)	2.93 (1)/2.95 (2)/2.93 (3)	2.84 (1)/2.85 (2)/2.85 (3)		
IPLV						5.83	6.29	6.05	6.25	5.87	6.37	5.92	5.88	5.61		
SEER						5.00 (1)/5.30 (2)/5.20 (3)	5.00 (1)/5.41 (2)/5.32 (3)	5.06 (1)/5.41 (2)/5.34 (3)	5.21 (1)/5.70 (2)/5.67 (3)	5.09 (1)/5.36 (2)/5.34 (3)	5.41 (1)/5.76 (2)/5.76 (3)	5.33 (1)/5.48 (2)/5.40 (3)	5.21 (1)/5.34 (2)/5.27 (3)	5.03 (1)/5.18 (2)/5.12 (3)		
ηs,c					%	197 (1)/209 (2)/205 (3)	197 (1)/213 (2)/210 (3)	200 (1)/213 (2)/211 (3)	205 (1)/225 (2)/224 (3)	201 (1)/211 (2)/210 (3)	213 (1)/228 (2)/227 (3)	210 (1)/216 (2)/213 (3)	205 (1)/211 (2)/208 (3)	198 (1)/204 (2)/202 (3)		
Dimensions	Unit	Height			mm	1,878										
		Width			mm	1,152			1,752			2,306			2,906	3,506
		Depth			mm	802			814			574 (1)/630 (2) (3)			672 (1)/727 (2) (3)	
Weight	Unit				kg	222 (1)/256 (2) (3)	245 (1)/278 (2) (3)		340 (1)/383 (2) (3)	339 (1)/382 (2) (3)	480 (1)/531 (2) (3)		574 (1)/630 (2) (3)	672 (1)/727 (2) (3)		
Water heat exchanger	Type					Brazed plate HE										
	Water flow rate		Cooling	Nom.	l/s	0.8	1	1.2	1.6	1.9	2	2.4	3.1	4.2		
	Waterpressure		drop	Cooling	Total	kPa	19.8	11.3	16.3	19.2	27.6	9.91	14.3	21.7	20.1	
	Water volume					l	1	2						5	8	
Air heat exchanger	Type					Al Fins&Cu Tubes										
Compressor	Type					Hermetically sealed scroll compressor										
	Quantity					1					2					
Fan	Type					Axial										
	Quantity					1			2			3			4	
	Air flow rate	Cooling	Nom.		l/s	3227	3122	3524	5080	6701	5444	7048	8967	13402		
Sound power level	Cooling	Nom.			dB(A)	76		78	79	80		81	83	85		
Operation range	Air side	Cooling	Min.~Max.		°CDB	-20~52										
	Water side	Cooling	Min.~Max.		°CDB	-15~25										
Refrigerant	Type					R32										
	Circuits		Quantity			1					2					
	Control					Electronic expansion valve										
	GWP					675										
Refrigerant charge	Total				kg	3	5.5	5.5	7	8	12	12	13	16		
	kgCO2eq					2025	3713	3713	4725	5400	8100	8100	8775	10800		
Water circuit	Pipingconnections diameter				inch	1-1/4" (female)					2" (female)					
Unit	Running current	Max			A	17 (1)/21 (2)/21 (3)	21 (1)/25 (2)/25 (3)	23 (1)/27 (2)/27 (3)	34 (1)/38 (2)/39 (3)	38 (1)/42 (2)/43 (3)	41 (1)/45 (2)/46 (3)	46 (1)/50 (2)/51 (3)	61 (1)/66 (2)/68 (3)	83 (1)/88 (2)/90 (3)		
Power supply	Phase/Frequency/ Voltage				Hz/V	3N~/50/400										

(1)EWAT-CZN: version without pump. (2)EWAT-CZP: version with pump low lift. (3)EWAT-CZH: version with pump high lift. All the cooling performances (cooling capacity, unit power input in cooling and EER) are based on the following conditions: 12,0/7,0°C; ambient 35,0°C, unit at full load operation; operating fluid: water; fouling factor=0. EN14511:2018. SEER is calculated in accordance with the regulation No. 2281/2016 and standard EN14825 for information only, unless the unit is a "cooling-only" type.

Performances according to CSS software 10.29



Daikin Europe N.V. participates in the Eurovent Certified Performance programme for Liquid Chilling Packages and Hydronic Heat Pumps, Fan Coil Units and Variable Refrigerant Flow systems. Check ongoing validity of certificate: www.eurovent-certification.com



CLIMATE DESIGN D.O.O. Javorska 6, 11226 Beograd,
Tel: +38162290789, +38162290599
E-mail: veleprodaja@climatedesign.rs, www.climatedesign.rs

