

Inverter Chillers & Heat Pumps

EWA(Y)T-CZ series



R-32 technology at its best



Why choose Daikin chiller & heat pump range?



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. This not only means being the most experienced, but also 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 to this new series a full set of key features.



Advanced connectivity

Complexity has been reduced by moving from hardware to software tools. Thanks to a newly designed Configuration App, it is 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. The new series represents a great solution for projects dealing with space issues.



Widespread support network

Daikin customers, other than benefiting 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.

Daikin technology at its best

Full Inverter Technology

- › Daikin design DC-Inverter scroll compressors
- › Daikin design DC-Inverter fans
- › Inverter pump kit both Low and High Lift

Low environmental impact

R-32
refrigerant



68% Lower GWP
compared to R-410A

Extended range

Cooling capacity

16 21 32 40 50 64 90
kW

Heating capacity

16 21 32 40 50 64 90
kW



Boost mode
reach around 100 kW!

Wide operating envelope



Hot water production
up to 60°C
for space heating or
domestic hot water

Chilled water production
down to -15°C
for brine application

down to -20°C
ambient temperature both in
cooling and heating mode for
the most critical applications

up to 52°C
ambient temperature
operation suitable for the
most extreme conditions

Achieving best performances



Top Full Load and Part Load
efficiencies for Comfort and Process applications
both in Cooling and Heating modes

- › EER up to 3,22
- › SEER up to 5,76
- › SEPR up to 8,48
- › COP up to 3,46

- › SCOP AW35
up to 4,19 **A++**
- › SCOP AW55
up to 3,02 **A+**

Multiple versions for different applications



- › Cooling Only or Heat pump versions
- › Naked, with low lift or high lift inverter pump kit as an option

Quiet operation



Down to

76 dB(A)

sound power, with the possibility of
further reduction with quiet mode
operation enabled

Enhanced Connectivity



- › User friendly control interface
- › Control by App (Next Step)
- › Daikin On Site
- › Modbus and Bacnet Communication*
- › Applications: radiators, fan coils, radiant floor, domestic hot water*

*with an additional accessory

Fast delivery to site



Large stock availability
allowing immediate
satisfaction of customer's
needs

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 the different climatic areas installation needs.



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 standards**.

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 series' efficiency performance**, both at full load and part load, which is very advantageous, 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



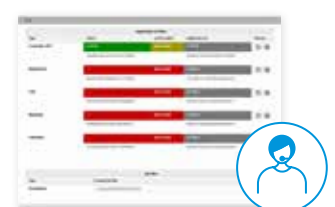
OPERATOR

Diagnostics



SERVICE

Remote software upgrade



DAIKIN

Cooling only EWAT-CZ series

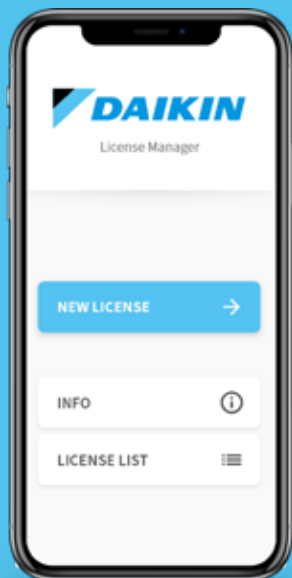
Cooling only				EWAT-CZN/CZP/CZH	016	021	025	032	40- MONO	40- DUAL	050	064	090					
EWAT-CZN (without pump)				€	8.704,-	10.037,-	11.394,-	13.252,-	15.877,-	17.451,-	19.265,-	22.218,-	29.952,-					
EWAT-CZP (with low lift pump)				€	9.755,-	11.416,-	12.727,-	14.956,-	17.581,-	19.109,-	21.125,-	24.357,-	34.327,-					
EWAT-CZH (with high lift pump)				€	10.056,-	11.765,-	13.076,-	15.463,-	18.194,-	19.725,-	21.821,-	24.882,-	34.851,-					
Cooling capacity	Nom.		kW	Inverter controlled														
				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)						
Power input	Cooling	Nom.	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)	31 (1)/31,1 (2)/31,2 (3)					
				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	Minimum capacity	%	Inverter controlled														
				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	1.552					1.752									
		Depth	mm	802					2.306									
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											
	Cooling	Nom.	l/s	0,8		1		1,2		1,6		1,9		2		2,4		
				Water pressure drop	Cooling	Total	19,8		11,3		16,3		19,2		27,6		9,91	
Air heat exchanger	Type	Quantity	2															
			Compressor	Type	Quantity	1												
Fan	Type	Quantity				2												
			Sound power level	Cooling	Nom.	dB(A)	76		78		79		80		81		83	
Operation range	Air side	Cooling					Min.–Max.	°CDB		-20~-52		-15~-25		R32		Electronic expansion valve		675
			Refrigerant	Type	Circuits	Quantity		1		2		8		12		12		13
Refrigerant charge	Total	kg					kgCO ₂ eq	3		5,5		7		8		8,100		8,775
			Water circuit	Piping connections diameter	Unit	Running current		Max	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)	
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 License Manager

the mobile App to enable BMS communication protocols on the new Small Inverter Chiller

When ordering the **Connectivity Kit**, you will receive a **Connectivity card**. The card will report a unique **Activation ID (QR code)** identifying the license for a specific **Small Inverter Chiller unit controller**. The Small Inverter Chiller controller has a **sticker** that must be stucked on the Connectivity card in order to use it with the app.



1 SCAN
Frame the **Connectivity card** with your camera



2 DOWNLOAD
Download the license for the Small Inverter Chiller unit controller



3 CONGRATULATIONS
You can now **connect your Chiller to your BMS**



Heat pump EWYT-CZ series

Heating & cooling				EWYT-CZN/CZP/CZH	016	021	025	032	40 - MONO	40 - DUAL	050	064	090						
EWYT-CZN (without pump)				€	9.840,-	11.504,-	13.061,-	15.263,-	18.238,-	20.074,-	21.999,-	25.714,-	34.899,-						
EWYT-CZP (with low lift pump)				€	10.802,-	12.816,-	14.388,-	16.902,-	20.249,-	21.912,-	24.138,-	27.969,-	39.573,-						
EWYT-CZH (with high lift pump)				€	11.327,-	13.206,-	14.737,-	17.188,-	21.036,-	22.521,-	24.706,-	28.495,-	40.145,-						
Cooling capacity	Nom.		kW	Inverter controlled															
				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)							
Heating capacity	Nom.		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)	58,6 (2)/58,7 (3)	72,7 (1)/73,3 (2)/73,4 (3)	98,3 (1)/98,8 (2)/98,9 (3)							
				15,9 (1)/15,62 (2)/15,5 (3)	20,2 (1)/19,93 (2)/19,8 (3)	24,8 (1)/24,6 (2)/24,5 (3)	32,4 (1)/32,08 (2)/32 (3)	39,4 (1)/39 (2)/38,9 (3)	40,3 (1)/40,01 (2)/39,9 (3)	49,8 (1)/49,49 (2)/49,4 (3)	61,9 (1)/61,43 (2)/61,3 (3)	85,8 (1)/85,33 (2)/85,2 (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)							
				Heating	Nom.	4,7 (1)/4,63 (2)/4,8 (3)	5,8 (1)/5,81 (2)/6 (3)	7,5 (1)/7,42 (2)/7,6 (3)	9,4 (1)/9,32 (2)/9,5 (3)	11,8 (1)/11,7 (2)/11,9 (3)	11,9 (1)/11,8 (2)/12 (3)	15,4 (1)/15,3 (2)/15,4 (3)	19,1 (1)/19,2 (2)/19,3 (3)	27,2 (1)/27,3 (2)/27,4 (3)					
Capacity control	Method	Inverter controlled																	
	Minimum capacity	%																	
EER				18	14	12	19	15	14	12	15	14							
				2,9 (1)/2,96 (2)/2,89 (3)	3,16 (1)/3,22 (2)/3,15 (3)	3 (1)/3,05 (2)/2,98 (3)	3,13 (1)/3,18 (2)/3,14 (3)	2,95 (1)/3 (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)							
COP				3,41 (1)/3,37 (2)/3,24 (3)	3,46 (1)/3,43 (2)/3,31 (3)	3,33 (1)/3,31 (2)/3,22 (3)	3,45 (1)/3,44 (2)/3,37 (3)	3,33 (1)/3,33 (2)/3,28 (3)	3,38 (1)/3,38 (2)/3,33 (3)	3,24 (1)/3,23 (2)/3,2 (3)	3,23 (1)/3,2 (2)/3,17 (3)	3,16 (1)/3,13 (2)/3,12 (3)							
SEER				5 (1)/5,3 (2)/5,2 (3)	5 (1)/5,41 (2)/5,32 (3)	5,06 (1)/5,41 (2)/5,34 (3)	5,21 (1)/5,7 (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)/5,4 (3)	5,21 (1)/5,34 (2)/5,27 (3)	5,03 (1)/5,18 (2)/5,12 (3)							
η _{s,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)							
Space heating	Average climate water outlet 35°C	General	η _s (Seasonal space heating efficiency)	%															
				153 (1)/158 (2)/152 (3)	157 (1)/165 (2)/159 (3)	160 (1)/165 (2)/160 (3)	159 (1)/164 (2)/161 (3)	160 (1)/164 (2)/162 (3)	158 (1)/165 (2)/163 (3)	157 (1)/162 (2)/161 (3)	156 (1)/157 (2)/155 (3)	157 (1)/159 (2)/157 (3)							
				SCOP Low Temp.	3,89 (1)/4,03 (2)/3,88 (3)	4 (1)/4,19 (2)/4,06 (3)	4,07 (1)/4,19 (2)/4,08 (3)	4,06 (1)/4,18 (2)/4,11 (3)	4,07 (1)/4,18 (2)/4,13 (3)	4,02 (1)/4,19 (2)/4,14 (3)	4 (1)/4,12 (2)/4,09 (3)	3,98 (1)/4,01 (2)/3,94 (3)	4 (1)/4,04 (2)/4 (3)						
			Seasonal space heating eff. Class	A++	A++	A++	A++	A++	A++	A++	A++	A++							
Dimensions	Unit	Height	mm	1.878															
				Width	mm	1.552					1.752								
						Depth	mm	802					814						
Weight	Unit	kg																	
		227 (1)/261 (2) (3)				252 (1)/286 (2) (3)			350 (1)/393 (2) (3)		349 (1)/392 (2) (3)		494 (1)/546 (2) (3)		588 (1)/644 (2) (3)		693 (1)/749 (2) (3)		
Water heat exchanger	Type	Braze plate HE																	
		Water flow rate	Cooling	Nom.	l/s	1,9													
						0,8		1		1,2		1,6		1,9		2		2,4	
		Water pressure 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															
Air heat exchanger	Type	Al Fins&Cu Tubes																	
		Hermetically sealed scroll compressor																	
Compressor	Quantity	1										2							
Fan	Type	Axial																	
		Quantity	1										2		3		4		
	Air flow rate	Cooling	Nom.	l/s	3.227	3.122	3.524	5.080	6.701	5.444	7.048	8.967	13.402						
Sound power level	Cooling	Nom.	dBA			76		78		79		80		81		83		85	
Operation range	Air side	Cooling	Min.~Max.	°CDB	-20~52														
					Heating	Min.~Max.	-20~35												
	Water side	Cooling	Min.~Max.	°CDB	-15~25														
					Heating	Min.~Max.	20~60												
Refrigerant	Type	R32																	
	Circuits	Quantity	1										2						
	Control	Electronic expansion valve																	
	GWP	675																	
Refrigerant charge	Total	kg																	
		kgCO ₂ eq	3	5,5	5,5	7	8	12	12	13	16								
Water circuit	Piping connections 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) EWYT-CZN: version without pump. (2) EWYT-CZP: version with pump low lift. (3) EWYT-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
 All the heating performances (heating capacity, unit power input in heating and COP) are based on the following conditions: 40.0/45.0°C; ambient 7.0°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.
 The values of Low Temperature SCOP and η_s are calculated in accordance with the Ecodesign regulation No. 813/2013 and the standard EN 14825-2018.
 Performances according to CSS software 10,29



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