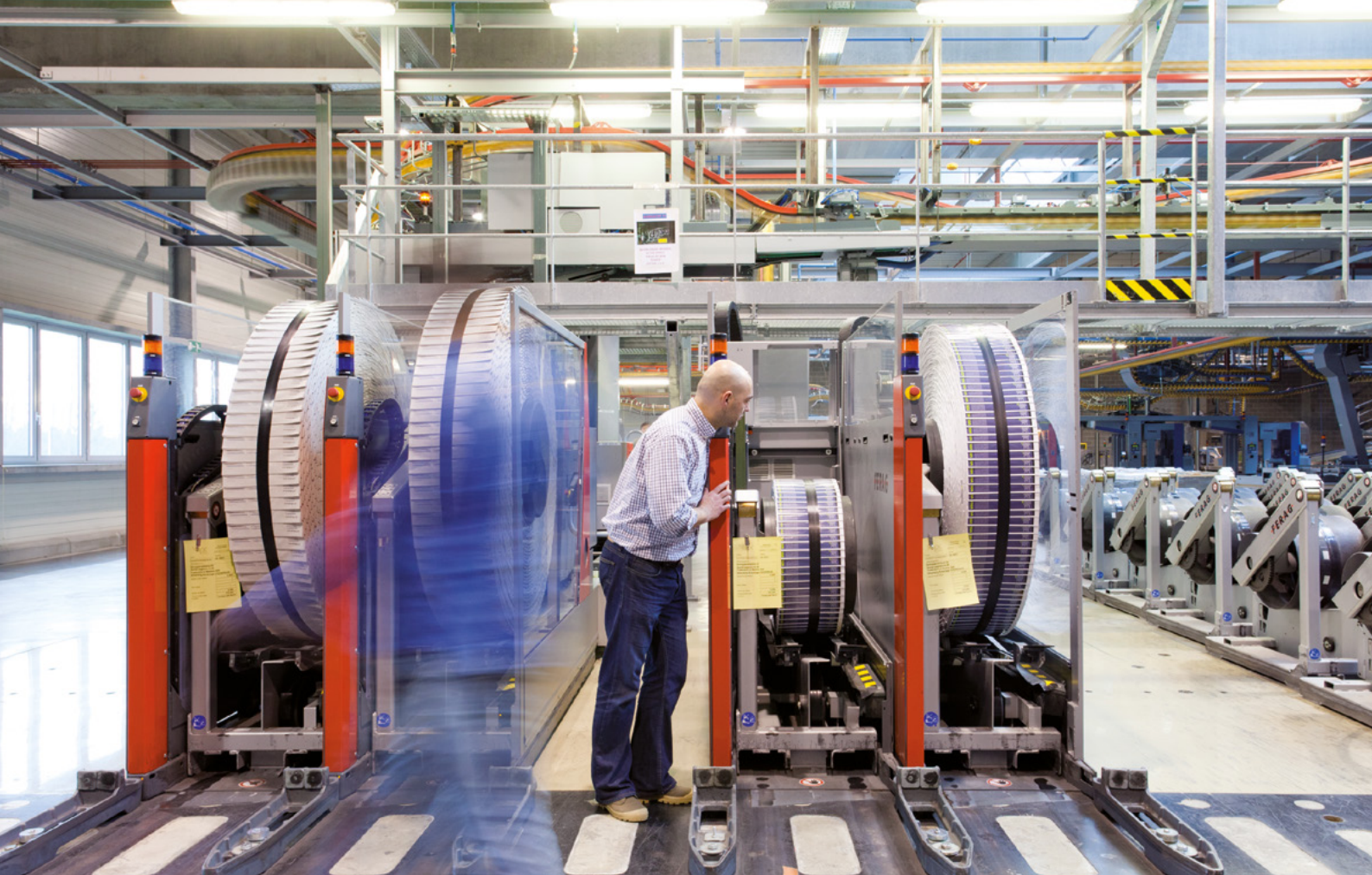


Inverter Chillers & Heat Pumps

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 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.

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

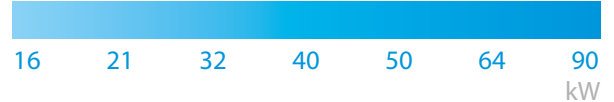
R-32
refrigerant



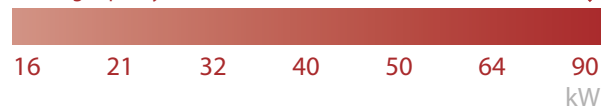
68% Lower GWP
compared to R-410A

Extended range

Cooling capacity



Heating capacity



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 45°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



Optimized Heating Application

Dedicated **controller extension (EKRSCIOH)** for **Heating applications** as the Water Loop Cascade, Bivalent operation with Gas Boilers and Advanced DHW control including Backup heater enabling.



Full inverter technology

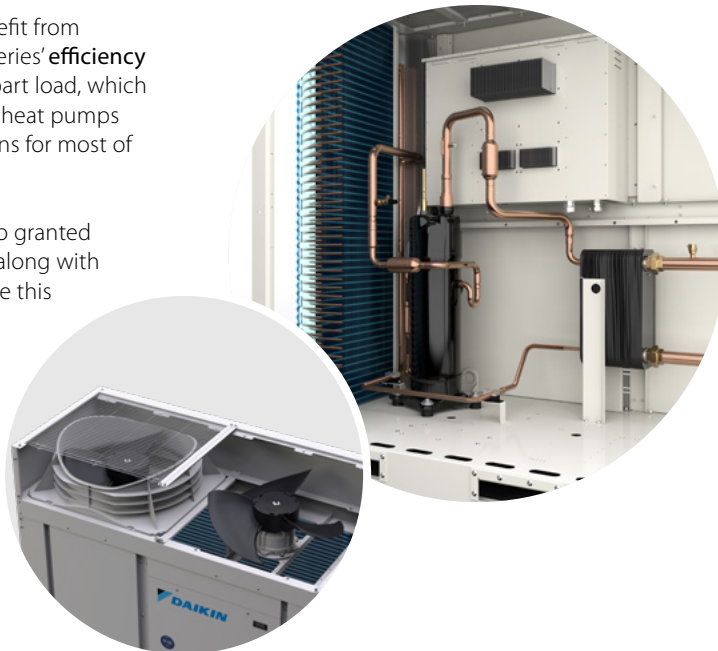
SEER up to 5,76 | SCOP up to 4,19 | SEPR up to 8,48

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**.

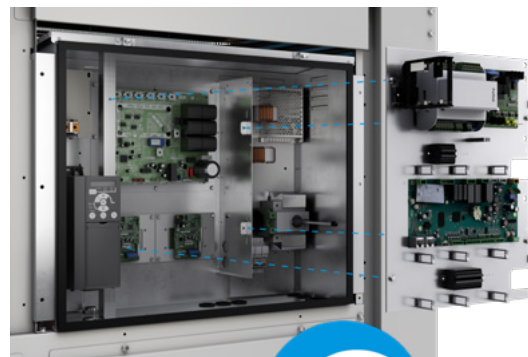


Plant management & connectivity

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



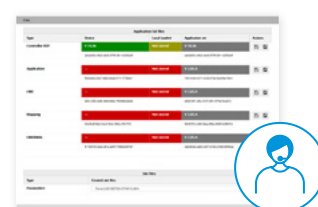
OPERATOR

Diagnostics



SERVICE

Remote software upgrade



DAIKIN

Cooling only EWAT-CZ series

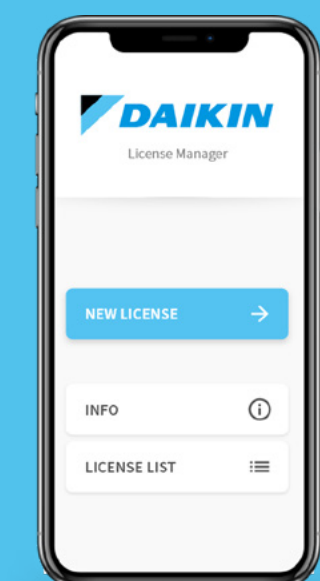
Cooling only		EWAT-CZN/CZP/CZH		016	021	025	032	40- MONO	40- DUAL	050	064	090		
Cooling capacity	Nom.			kW	15,9 (1)/16,1 (2)/16,2 (3)	20,9 (1)/21,1 (2)/21,2 (3)	25,6 (1)/25,9 (2)/25,9 (3)	32,4 (1)/32,7 (2)/32,8 (3)	39,6 (1)/39,9 (2)/40,1 (3)	41,4 (1)/41,7 (2)/41,8 (3)	50,8 (1)/51,1 (2)/51,3 (3)	64 (1)/64,4 (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	1.552			1.752			2.306		2.906	3.506
		Depth		mm	802			814			814			
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				Braze 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	
	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		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	3.227	3.122	3.524	5.080	6.701	5.444	7.048	8.967	13.402	
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	
				kgCO ₂ eq	2.025	3.713	3.713	4.725	5.400	8.100	8.100	8.775	10.800	
Water circuit	Piping connections diameter				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				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 stuck on the Connectivity card in order to use it with the app.



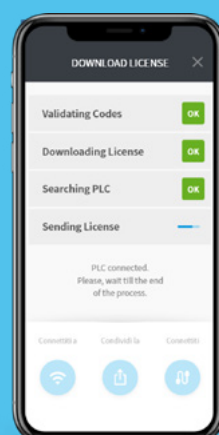
1 SCAN

Frame the **Connectivity card** with your camera



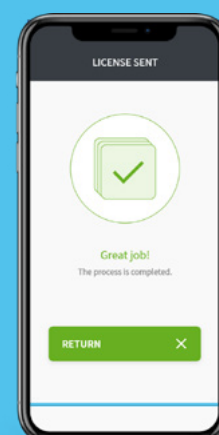
2 DOWNLOAD

Download the license for the Small Inverter Chiller unit controller



3 CONGRATULATIONS

Your 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		
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)		
Heating capacity	Nom.			kW	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)		
	Max.			kW	18,3 (1)/18 (2)/18 (3)	24,3 (1)/24 (2)/23,9 (3)	28,7 (1)/28,4 (2)/28,3 (3)	36,5 (1)/36,2 (2)/36,1 (3)	44,7 (1)/44,3 (2)/44,2 (3)	48,7 (1)/48,4 (2)/48,3 (3)	57,3 (1)/ 58,9 (2)/56,7 (3)	69,2 (1)/68,7 (2)/68,6 (3)	94,7 (1)/ 94,1 (2)/94 (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.		kW	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		%	18	14	12	19	15	14	12	15	14		
EER					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)		
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)		
Space heating	Average climate water outlet 35°C	General	ηs (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			2.306		2.906	3.506	
		Depth		mm	802			814			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				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		
		Heating	Nom.	l/s	0,8	1	1,2	1,6	1,9	2	2,4	3,1	4,2		
	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	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		3.227	3.122	3.524	5.080	6.701	5.444	7.048	8.967	13.402		
Sound power level	Cooling	Nom.	dB(A)		76		78	79	80		81	83	85		
	Air side	Cooling	Min.~Max.	°CDB	-20~-52										
		Heating	Min.~Max.	°CDB	-20~-35										
Operation range	Water side	Cooling	Min.~Max.	°CDB	-15~-25										
		Heating	Min.~Max.	°CDB	20~-60										
Refrigerant	Type				R32										
	Circuits	Quantity			1					2					
					Electronic expansion valve										
Control					675										
Refrigerant charge	GWP				675										
	Total			kg	3	5,5	5,5	7	8	12	12	13	16		
				kgCO ₂ eq	2.025	3.713	3.713	4.725	5.400	8.100	8.100	8.775	10.800		
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										

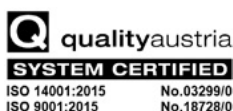
(1) EWYT-CZN: version without pump. (2) EWYT-CZP: version with pump low lift. (3) EWYT-CZH: version with pump high lift.
All the cooling performances (cooling capacity, unit power input in cooling and EER) are based on the following conditions: 12.0/7.0°C; ambient 35.0°C, unit at full load operation;
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 ηs are calculated in accordance with the Ecodesign regulation No. 813/2013 and the standard EN 14825-2018.
Performances according to CSS software 10,29



DAIKIN AIRCONDITIONING CENTRAL EUROPE HandelsgmbH

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