



Air to Water Inverter Heat Pump

EWYE-CZ





AIR TO WATER HEAT PUMP

High temperature & Low carbon solution

Heat Pump Version



High temperature Heat Pump

Heat Pump version with One and Two indipendent refrigerant circuits characterized by the optimised and compact design from 1 to 4 fans in line.



Installation flexibility

The new R-454C Small Inverter Heat Pump EWYE-CZ comes in three different layouts, all providing a very compact footprint despite the capacity they can deliver. That makes the series a great solution for projects dealing with space issues such as: residential, hotels and hospitals. No need for extra safety countermeasures due to the fact that the R-454C is an A2L refrigerant as the largely used R-32.

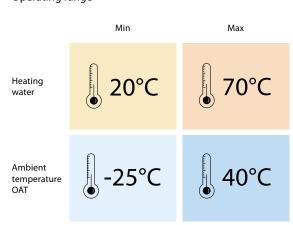
Product overview

The most complete and unique solution on the market for Decarbonisation. EWYE-CZ reaches 70 °C of heating water temperature even in extreme ambient conditions. That is, during winter season in Nordic Countries (low ambient temperature) and even in summer when Domestic Hot Water production would still be required. Moreover, EWYE-CZ can work in high delta T conditions allowing the supply of heating water to different heating applications in the installation space.

EWYE-CZ is available in 8 sizes from 16 to 70 kW capacity, all equipped with Daikin inverter scroll compressors. As well, fans used on EWYE-CZ are designed by Daikin. The product range also integrates an inverter water pump, facilitating installation operations and saving space.

The product is also available in reduced noise configuration, particularly suitable for noise-sensitive applications as: residential buildings, hotels and hospitals. Comfort heating can be supplied in many different applications, and on top of that EWYE-CZ allows domestic hot water production, including anti-legionella control function for the external storage tank.

Operating range





Outdoor

installation





Daikin Tubes and fins (Cu/Al coil)

scroll

Fans

Integrated VFD Pump

Refrigerant



Product Benefits

Daikin Core Technology

Daikin Scroll Compressors can benefit from Inverter technology that increases this Series' efficiency performance, while the Vapor Injection with Economizer guarantees the Series Capacity steps and extended operating heating envelope.

Great energy efficiency levels are also granted by the **Daikin Inverter Driven Fans**, with high efficiency design glass reinforced resin to maximize performances.

Daikin Inverter Scroll Compressors and Pump with Vapor Injection, make this new R-454C Small Inverter Heat Pump a full Inverter Series.

Daikin Tube & Fins (Cu/Al) Heat Exchanger: Reversible heat exchanger optimised for most extreme heating operation. Aluminum fins are covered by acrylic layer to ease flowing of condensate moisture and provide resistance to corrosion and protection from UV.



New compressor technology with Vapor Injection

Refrigerant piping diagram with economizer for Vapor Injection

Water IN Water OUT

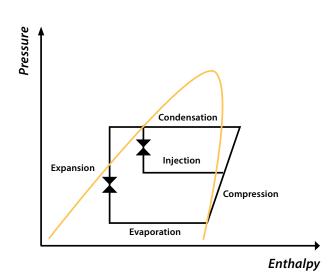
BPHE

Intermediate Expansion valve

Vapor Injection

Coil

Refrigerant cycle with Vapor Injection



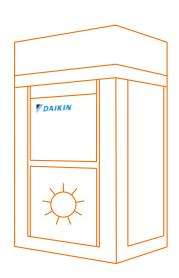


Optimised DeFrost Management

Integrated Defrost logic optimised for multiple units to sequence the non-simultaneity of the defrost cycle. Plant up to 4 units are optimised in terms of overall defrost impact:

- · Less plant water content
- Higher customer comfort due to minimized temperature drop
- · Heating load uniformity over time





Low operating costs

Thanks to its Full Inverter design, this new unit can closely follow the cooling and heating load profile of the building. This is particularly important as it ensures low operating costs for the HVAC system at part load conditions, which represent most of the operating time.

F-Gas Ready Solution

The new Small Inverter Heat Pump provides low direct and indirect ${\rm CO_2}$ emissions levels. That makes it an environmentally friendly series, also thanks to the use of R-454C, which is known for being a low GWP (145.5) and sustainable refrigerant, fully compliant with the new F-gas regulation.

Contribution to Green Building

The most popular green building protocols are BREEAM and LEED. EWYE-CZ can contribute to project's credits when evaluating energy efficiency of the hydronic system, thanks to inverter driven compressors. The limited GWP of R-454C also result in a possible contribution when evaluating the impact of refrigerants. On top of that, the Smart Grid accessory allows to control the heat pump maximizing consumptions when renewable energy is produced. Thereby, potentially resulting in credits under BREEAM and LEED protocols, as carbon footprint would be reduced.





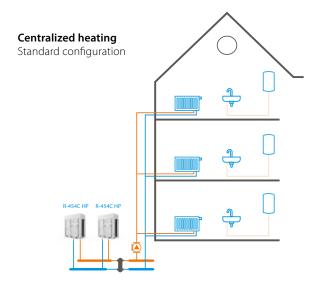


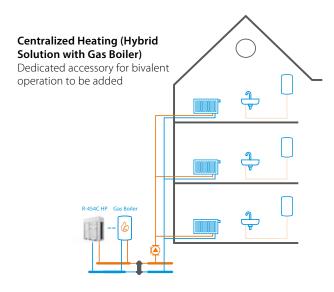
Product applications

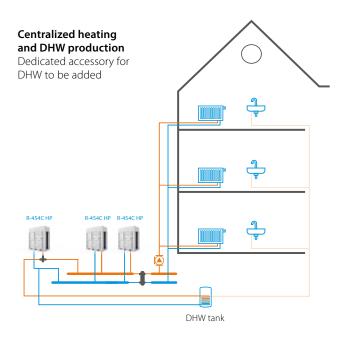
High Temperature Heating for boiler replacement and Domestic Hot Water (DHW)

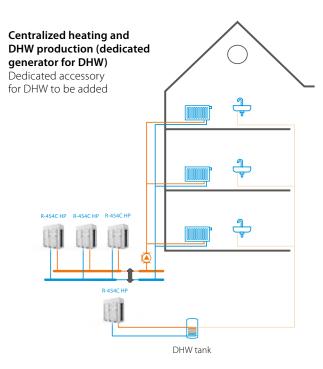
Space Heating + DHW configurations

- Centralized heating, eventually in combination with gas boilers.
 DHW supply managed via integration with centralized heating, or independent DHW supply. Groups of units can be managed in master / slave up to 4 per single master
- · Applications: residential, light commercial, hotels, gym
- · Installation: replacement and new building
- · Possible terminals are:
 - Existing radiators (70 °C)
 - Heating floor (30-35 °C)
 - Fan coils (40-45 °C)









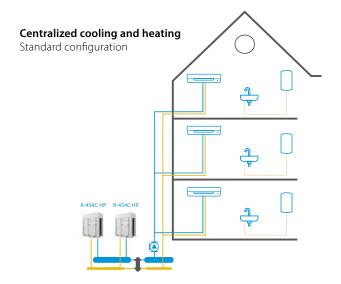
Product applications

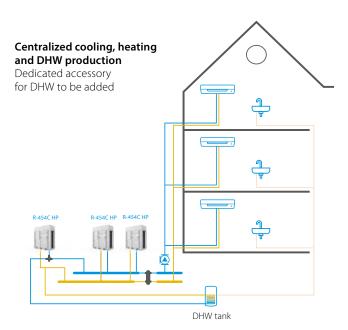
Seasonal Comfort Heating and Cooling

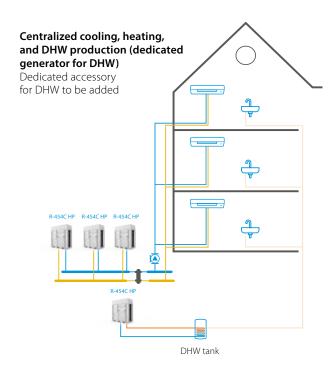
+ Domestic Hot Water (DHW)

Comfort cooling & heating

- Centralized comfort heating and cooling. DHW managed via three way valves (priority on DHW demand) or independent DHW supply. Groups of units can be managed in master / slave up to 4 per single master
- · Applications: residential, light commercial, hotels, gym
- · Installation: replacement and new building
- · Possible terminals are:
 - Cooling (23-18°C) and Heating floor (30-35°C)
 - Heating and Cooling Fan Coils









Product options and accessories

Standard

Hydronic Kit

Description

The Small Inverter Heat Pump is equipped with an inverter pump on board with electrical protection as standard. Possibility to order the unit also without the pump.





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



Diagnostics



Remote software upgrade



Master Slave Control

Description

The Small Inverter Heat Pump is able to operate in Master/Slave mode optimizing the plant operation up to 4 units. The Master unit manages the Slave units connected in parallel on the same hydraulic plant balancing the running hours and load of each unit and each compressor.

Product options and accessories

On-demand

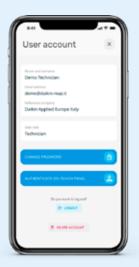
mAP Mobile APP for HMI controller extension towards end users



Description

HMI APP is available on smartphone and tablet devices for close monitoring of unit parameters up to 5 meters

ACCESS TO THE







MONITORING

PARAMETERS CATEGORIES



Plug & play connectivity

Description

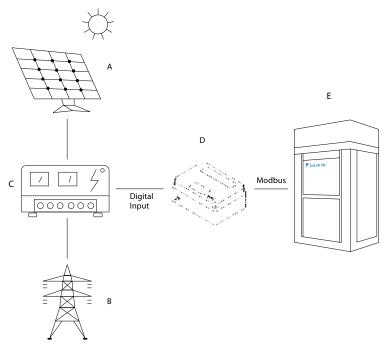
When ordering the Connectivity Kit, you will receive a Connectivity card. The card will report a unique Activation ID (QR code) identifying the license for a specific SIC unit controller. The SIC controller has a sticker that must be put on the Connectivity card in order to use it with the app.

Smart grid ready box

Description

The Smart Grid Box is an accessory that allows the integration of the Heat Pump control for a Smart Grid application, maximizing use of green energy to run the Heat Pump.

A: Solar panels C: Interface-compatible system components (Solar inverter / energy management system) D: Smart Grid Box E: Heat Pump





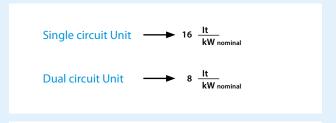
Plant water content

The heating water content of the systems should have a minimum water amount to avoid excessive decrease of the water setpoint during the defrost cycle to guarantee the proper environmental comfort.

As a general indication the system water content should not be less than the values deriving from the following fomula:

kWnominal = Heating capacity at 40/45°C OAT=7°C

The above rule of thumb derives from the following formula, as the relative volume of water capable of maintaining the system temperature within an acceptable ΔT (which depends on the heating application) during the defrost transient:



CC [W] * MDD [s] Water volume= $FD\left[\frac{g}{L}\right]*SH\left[\frac{J}{\sigma^{\circ}C}\right]*(DT)[^{\circ}C]$

CC = Cooling Capacity during defrost operation MDD = Max Defrost Duration

FD = Fluid Density

SH = Specific Heat

DT = Acceptable Water Temperature Differential

The water temperature difference is considered acceptable for the Comfort Heating application which allows to operate with the minimum volume mentioned in the previous formula.

However, if a smaller water temperature difference is considered acceptable, a larger minimum water volume will be required.

A properly designed storage tank should be added if the system components do not provide sufficient water volume.

In case of more than one installed unit, the overall capacity of the installation must be considered in the calculation so summing the water

These considerations refer to the water volume always flowing through the unit. If there are bypasses, branch of the system that can be excluded, that parts should not be accounted in the water content calculation.

Product dimensions



Model	Dimensions (mm)
EWYE019CZ(N)(P)-A1	1878x1152x802
EWYE022CZ(N)(P)-A1	1878x1152x802
EWYE025CZ(N)(P)-A1	1878x1152x802
EWYE030CZ(N)(P)-A1	1878x1753x802
EWYE035CZ(N)(P)-A1	1878x1753x802
EWYE050CZ(N)(P)-A2	1878x2905x814
EWYE060CZ(N)(P)-A2	1878x2905x814
EWYE070CZ(N)(P)-A2	1878x3506x814

Minimum access distances to be respected: 500 mm all around the unit (single unit installation) or 1000 mm from each condensing section in case of multiple units' installation

Technical data

Inverter Pun	np On Board			EWYE019 CZP-A1	EWYE022 CZP-A1	EWYE025 CZP-A1	EWYE030 CZP-A1	EWYE035 CZP-A1	EWYE050 CZP-A2	EWYE060 CZP-A2	EWYE070 CZP-A2
Cooling		Cooling capacity	kW	14,88	16,42	18,24	22,45	25,66	42,11	46,90	59,62
performance		Capacity control	Туре				Inverter C	ontrolled			
12/7 35°C		Unit power input		5,39	6,03	6,64	7,39	8,90	15,69	17,86	22,35
		EER		2,76	2,73	2,75	3,04	2,88	2,68	2,63	2,67
Honting		SEER Heating canadity		3,88	3,94	4,07	4,60	4,66	4,22	4,42	4,66
Heating performance		Heating capacity Unit power input	Heating kW	18,21 5,86	20,25 6,51	23,93 7,66	29,72 8,92	34,35 10,56	49,89 16,35	59,58 20,34	73,27 24,42
40/45 7°C		COP	riedding KW	3,11	3,11	3,13	3,33	3,25	3,05	2,93	3,00
Space	Average climate,		Low								
heating	water outlet 35°C	SCOP	Temperature	4,00	4,00	4,00	4,38	4,38	3,87	3,87	4,06
	Average climate,	SCOP	Medium	2,83	2,83	2,83	3,20	3,20	2,83	2,83	3,02
	water outlet 55°C	5001	Temperature	2,03	2,03	2,03	3,20	3,20	2,03	2,03	3,02
Water heat exchanger		Water flow rate	I/s	0,70	0,77	0,84	1,06	1,21	1,99	2,16	2,77
cooling		Water pressure drop	kPa	6,05	7,19	8,41	9,82	12,41	10,01	11,62	9,51
Water heat		<u> </u>									
exchanger		Water flow rate	I/s	0,87	0,97	1,11	1,42	1,61	2,35	2,77	3,45
heating		Water pressure drop	kPa	9,03	10,89	13,77	16,40	20,53	13,57	18,38	14,38
Air heat		Туре					Al Fine &	Cu Tubes			
exchanger		Туре					AITIIIS	Cu lubes			
Water heat exchanger							Braze	d Plate			
		T					D44	.46			
Refrigerant		Type GWP						54C 5,5			
Compressor		Туре						or Injection			
-		Quantity	N°			1		,		2	
		Economizer	N°			1				2	
Fan		Туре					Ax				
		Drive					VI				
		Quantity	N°		1			2	3	3	4
Dimensions		Height	mm				10	70			
		Width Length	mm		1152		18 17		20	06	3506
Sound power		Lw [dB(A)] **			1132	77		JZ	2,	78	3300
Journa power		Cooling & Heating Lw									
		[dB(A)]		82	83	83	83	83	86	86	86
Power supply		Phase/Frequency/ Voltage					3N~/50	<u>%</u> 60/400			
No Pump On	Board			EWYE019	EWYE022	EWYE025	EWYE030	EWYE035	EWYE050	EWYE060	EWYE070
Cooling		Cooling capacity	kW	CZN-A1 14,66	CZN-A1 16,18	CZN-A1 18,29	CZN-A1 22,19	CZN-A1 25,39	CZN-A2 41,78	CZN-A2 46,98	CZN-A2 59,21
performance		Capacity control	Type	14,00	10,10	10,23	Inverter C		41,70	40,70	33,21
12/7 35°C		Unit power input	.,,,,,	5,43	6,07	6,69	7,43	8,96	15,81	17,76	22,30
		EER		2,70	2,67	2,73	2,99	2,83	2,64	2,65	2,66
							4.42	4,54			4,56
		SEER		3,74	3,80	3,99	4,43	4,54	4,10	4,34	
Heating		SEER Heating capacity		3,74 18,47	3,80 20,51	3,99 24,21	4,43 30,02	34,68	4,10 50,24	4,34 60,47	73,73
performance		Heating capacity Unit power input	Heating kW	18,47 5,90	20,51 6,57	24,21 7,72	30,02 9,00	34,68 10,65	50,24 16,48	60,47 20,54	24,39
performance 40/45 7°C		Heating capacity		18,47	20,51	24,21	30,02	34,68	50,24	60,47	
Heating performance 40/45 7°C Space heating	Average climate, water outlet 35°C	Heating capacity Unit power input	Low Temperature	18,47 5,90	20,51 6,57	24,21 7,72	30,02 9,00	34,68 10,65	50,24 16,48	60,47 20,54	24,39
performance 40/45 7°C Space		Heating capacity Unit power input COP	Low	18,47 5,90 3,13	20,51 6,57 3,12	24,21 7,72 3,14	30,02 9,00 3,34	34,68 10,65 3,26	50,24 16,48 3,05	60,47 20,54 2,94	24,39 3,02
performance 40/457°C Space heating	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP	Low Temperature Medium	18,47 5,90 3,13 3,89	20,51 6,57 3,12 3,89	24,21 7,72 3,14 3,89	30,02 9,00 3,34 4,31	34,68 10,65 3,26 4,31	50,24 16,48 3,05 3,72	60,47 20,54 2,94 3,72	24,39 3,02 4,00
performance 40/45 7°C Space heating Water heat exchanger	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate	Low Temperature Medium Temperature	18,47 5,90 3,13 3,89 2,83 0,7	20,51 6,57 3,12 3,89 2,83	24,21 7,72 3,14 3,89 2,83 0,84	30,02 9,00 3,34 4,31 3,20	34,68 10,65 3,26 4,31 3,20 1,21	50,24 16,48 3,05 3,72 2,83 1,99	60,47 20,54 2,94 3,72 2,83 2,16	24,39 3,02 4,00 3,01 2,77
performance 40/45 7°C Space heating Water heat	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop	Low Temperature Medium Temperature I/s	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19	24,21 7,72 3,14 3,89 2,83 0,84 8,41	30,02 9,00 3,34 4,31 3,20 1,06 9,82	34,68 10,65 3,26 4,31 3,20 1,21 12,41	50,24 16,48 3,05 3,72 2,83 1,99	60,47 20,54 2,94 3,72 2,83 2,16 11,62	24,39 3,02 4,00 3,01 2,77 9,51
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water flow rate	Low Temperature Medium Temperature I/s kPa	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19	24,21 7,72 3,14 3,89 2,83 0,84 8,41	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80	24,39 3,02 4,00 3,01 2,77 9,51 3,45
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop	Low Temperature Medium Temperature I/s	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19	24,21 7,72 3,14 3,89 2,83 0,84 8,41	30,02 9,00 3,34 4,31 3,20 1,06 9,82	34,68 10,65 3,26 4,31 3,20 1,21 12,41	50,24 16,48 3,05 3,72 2,83 1,99	60,47 20,54 2,94 3,72 2,83 2,16 11,62	24,39 3,02 4,00 3,01 2,77 9,51
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water flow rate	Low Temperature Medium Temperature I/s kPa	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19	24,21 7,72 3,14 3,89 2,83 0,84 8,41	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80	24,39 3,02 4,00 3,01 2,77 9,51 3,45
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performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating Air heat exchanger	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water flow rate Water flow rate	Low Temperature Medium Temperature I/s kPa	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19	24,21 7,72 3,14 3,89 2,83 0,84 8,41	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40 Al Fins &	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61 20,53	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80	24,39 3,02 4,00 3,01 2,77 9,51 3,45
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating Air heat exchanger Water heat	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water pressure drop Type Type	Low Temperature Medium Temperature I/s kPa	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19	24,21 7,72 3,14 3,89 2,83 0,84 8,41	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40 Al Fins & Brazee	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61 20,53 Cu Tubes	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80	24,39 3,02 4,00 3,01 2,77 9,51 3,45
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating Air heat exchanger Water heat exchanger Refrigerant	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water pressure drop Type Type GWP	Low Temperature Medium Temperature I/s kPa	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19	24,21 7,72 3,14 3,89 2,83 0,84 8,41	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40 Al Fins & Brazec R4:	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61 20,53 Cu Tubes	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80	24,39 3,02 4,00 3,01 2,77 9,51 3,45
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating Air heat exchanger Water heat exchanger Refrigerant	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water flow rate Water pressure drop Type Type GWP Type	Low Temperature Medium Temperature I/s kPa I/s kPa	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19	24,21 7,72 3,14 3,89 2,83 0,84 8,41 1,11 13,77	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40 Al Fins & Brazec R4:	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61 20,53 Cu Tubes	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80 18,76	24,39 3,02 4,00 3,01 2,77 9,51 3,45
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating Air heat exchanger Water heat exchanger Refrigerant	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water flow rate Type GWP Type Quantity	Low Temperature Medium Temperature I/s kPa I/s	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19	24,21 7,72 3,14 3,89 2,83 0,84 8,41 1,11 13,77	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40 Al Fins & Brazec R4:	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61 20,53 Cu Tubes	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80 18,76	24,39 3,02 4,00 3,01 2,77 9,51 3,45
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating Air heat exchanger Water heat exchanger Water heat exchanger Water heat exchanger Compressor	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water flow rate Water flow rate Type GWP Type Quantity Economizer	Low Temperature Medium Temperature I/s kPa I/s kPa	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19	24,21 7,72 3,14 3,89 2,83 0,84 8,41 1,11 13,77	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40 Al Fins & Brazec R4: 14 Scroll - Vap	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61 20,53 Cu Tubes	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80 18,76	24,39 3,02 4,00 3,01 2,77 9,51 3,45
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating Air heat exchanger Water heat exchanger Kefrigerant Compressor	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water flow rate Type GWP Type Quantity	Low Temperature Medium Temperature I/s kPa I/s	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19	24,21 7,72 3,14 3,89 2,83 0,84 8,41 1,11 13,77	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40 Al Fins & Brazee R4: 14 Scroll - Vap	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61 20,53 Cu Tubes d Plate 64C 5,5 or Injection	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80 18,76	24,39 3,02 4,00 3,01 2,77 9,51 3,45
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating Air heat exchanger Water heat exchanger Water heat exchanger Water heat exchanger Compressor	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Type Type GWP Type Quantity Economizer Type Drive Quantity	Low Temperature Medium Temperature I/s kPa I/s	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19	24,21 7,72 3,14 3,89 2,83 0,84 8,41 1,11 13,77	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40 Al Fins & Brazec R4: 14 Scroll - Vap	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61 20,53 Cu Tubes d Plate 64C 5,5 or Injection	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35 13,57	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80 18,76	24,39 3,02 4,00 3,01 2,77 9,51 3,45
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating Air heat exchanger Water heat exchanger Refrigerant Compressor	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water flow rate Water pressure drop Type Type GWP Type Quantity Economizer Type Drive Quantity Height	Low Temperature Medium Temperature I/s kPa I/s kPa N° N° N°	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19 0,97 10,89	24,21 7,72 3,14 3,89 2,83 0,84 8,41 1,11 13,77	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40 Al Fins & Brazer R4' 14 Scroll - Vap	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61 20,53 Cu Tubes d Plate 54C 5,5 or Injection	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35 13,57	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80 18,76	24,39 3,02 4,00 3,01 2,77 9,51 3,45 14,38
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating Air heat exchanger Water heat exchanger Refrigerant	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water flow rate Water pressure drop Type Type GWP Type Quantity Economizer Type Drive Quantity Height Width	Low Temperature Medium Temperature I/s kPa I/s kPa N° N° mm mm	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19 0,97 10,89	24,21 7,72 3,14 3,89 2,83 0,84 8,41 1,11 13,77	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40 Al Fins & Brazec R4! 5croll - Vap	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61 20,53 Cu Tubes d Plate 54C 5,5 or Injection	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35 13,57	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80 18,76	24,39 3,02 4,00 3,01 2,77 9,51 3,45 14,38
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating Air heat exchanger Water heat exchanger Compressor Water heat exchanger Water heat exchanger Water heat exchanger Water heat exchanger Dimensions	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water flow rate Type GWP Type Quantity Economizer Type Drive Quantity Height Width Length	Low Temperature Medium Temperature I/s kPa I/s kPa N° N° N°	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19 0,97 10,89	24,21 7,72 3,14 3,89 2,83 0,84 8,41 1,11 13,77	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40 Al Fins & Brazer R4' 14 Scroll - Vap	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61 20,53 Cu Tubes d Plate 54C 5,5 or Injection	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35 13,57	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80 18,76	24,39 3,02 4,00 3,01 2,77 9,51 3,45 14,38
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating Air heat exchanger Water heat exchanger Refrigerant Compressor	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water flow rate Type Type GWP Type Quantity Economizer Type Drive Quantity Height Width Length Lw [dB(A)] **	Low Temperature Medium Temperature I/s kPa I/s kPa N° N° mm mm	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19 0,97 10,89	24,21 7,72 3,14 3,89 2,83 0,84 8,41 1,11 13,77	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40 Al Fins & Brazer R4' 14 Scroll - Vap	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61 20,53 Cu Tubes d Plate 54C 5,5 or Injection	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35 13,57	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80 18,76	24,39 3,02 4,00 3,01 2,77 9,51 3,45 14,38
performance 40/45 7°C Space heating Water heat exchanger cooling Water heat exchanger heating Air heat exchanger Water heat exchanger Compressor Water heat exchanger Water heat exchanger Water heat exchanger Water heat exchanger Dimensions	water outlet 35°C Average climate,	Heating capacity Unit power input COP SCOP SCOP Water flow rate Water pressure drop Water flow rate Type GWP Type Quantity Economizer Type Drive Quantity Height Width Length	Low Temperature Medium Temperature I/s kPa I/s kPa N° N° mm mm	18,47 5,90 3,13 3,89 2,83 0,7 6,05	20,51 6,57 3,12 3,89 2,83 0,77 7,19 0,97 10,89	24,21 7,72 3,14 3,89 2,83 0,84 8,41 1,11 13,77	30,02 9,00 3,34 4,31 3,20 1,06 9,82 1,42 16,40 Al Fins & Brazer R4' 14 Scroll - Vap	34,68 10,65 3,26 4,31 3,20 1,21 12,41 1,61 20,53 Cu Tubes d Plate 54C 5,5 or Injection	50,24 16,48 3,05 3,72 2,83 1,99 10,01 2,35 13,57	60,47 20,54 2,94 3,72 2,83 2,16 11,62 2,80 18,76	24,39 3,02 4,00 3,01 2,77 9,51 3,45 14,38

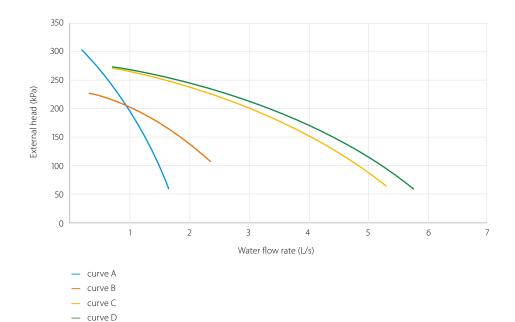
^{**} Sound power in heating mode, measured according to the EN12102 and under test method following the ISO9614. The sound pressure is calculated from the sound power level and are for information only and not considered binding.

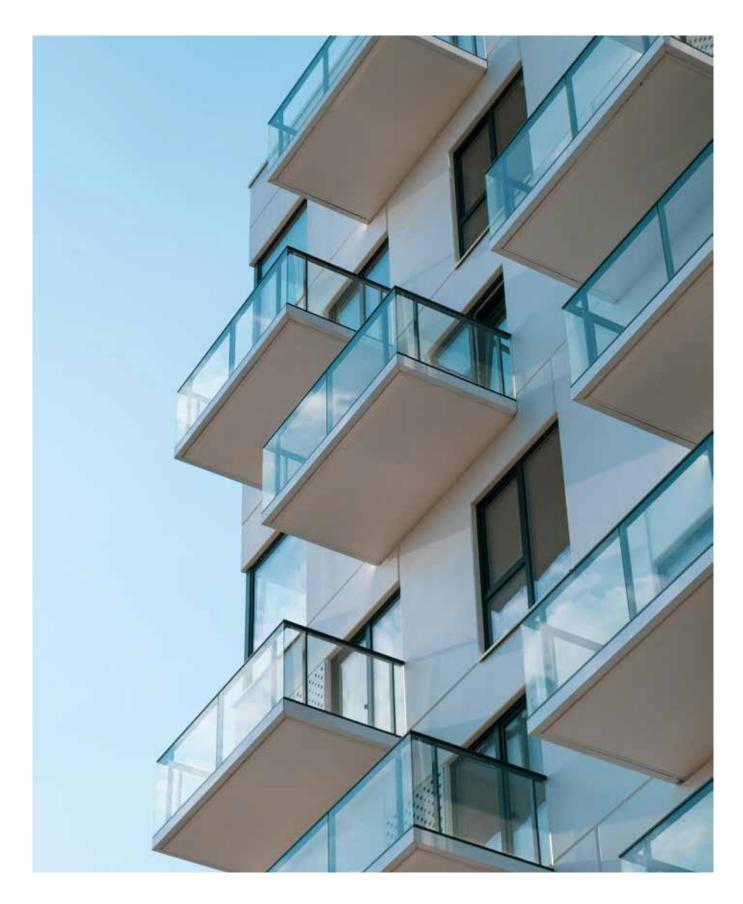
Pump curves

Sound Power & Pressure Data

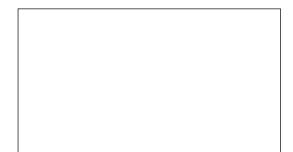
			Sound pressure level @ 1 m from the unit (rif. 2 x10-5 Pa)							
	Lw [dB(A)]	Lp @ 1m [dB(A)]	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
EWYE019CZP-A1	77	61,2	70,38	62,89	59,83	59,55	56,81	49,49	46,21	46,26
EWYE022CZP-A1	77	61,2	70,38	62,89	59,83	59,55	56,81	49,49	46,21	46,26
EWYE025CZP-A1	77	61,2	70,38	62,89	59,83	59,55	56,81	49,49	46,21	46,26
EWYE030CZP-A1	77	60,7	69,5	60,6	60,0	59,6	56,2	46,7	46,8	44,7
EWYE035CZP-A1	77	60,7	69,5	60,6	60,0	59,6	56,2	46,7	46,8	44,7
EWYE050CZP-A2	78	60,9	65,6	62,1	60,4	57,4	54,3	51,2	52,4	50,8
EWYE060CZP-A2	78	60,9	65,6	62,1	60,4	57,4	54,3	51,2	52,4	50,8
EWYE070CZP-A2	78	60,5	65,1	61,7	60,0	57,0	53,9	50,8	52,1	50,5
EWYE019CZN-A1	77	61,2	70,38	62,89	59,83	59,55	56,81	49,49	46,21	46,26
EWYE022CZN-A1	77	61,2	70,38	62,89	59,83	59,55	56,81	49,49	46,21	46,26
EWYE025CZN-A1	77	61,2	70,38	62,89	59,83	59,55	56,81	49,49	46,21	46,26
EWYE030CZN-A1	77	60,7	69,5	60,6	60,0	59,6	56,2	46,7	46,8	44,7
EWYE035CZN-A1	77	60,7	69,5	60,6	60,0	59,6	56,2	46,7	46,8	44,7
EWYE050CZN-A2	78	60,9	65,6	62,1	60,4	57,4	54,3	51,2	52,4	50,8
EWYE060CZN-A2	78	60,9	65,6	62,1	60,4	57,4	54,3	51,2	52,4	50,8
EWYE070CZN-A2	78	60,5	65,1	61,7	60,0	57,0	53,9	50,8	52,1	50,5

Model	Pump curve
EWYE019CZP-A1	Α
EWYE022CZP-A1	Α
EWYE025CZP-A1	Α
EWYE030CZP-A1	В
EWYE035CZP-A1	В
EWYE050CZP-A2	С
EWYE060CZP-A2	С
EWYE070CZP-A2	D





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