ENERGIE®
THERMODYNAMIC SOLAR ENERGY

WWW.LVPRENEWABLES.IE

AQUAPURA

HEATING & COOLING

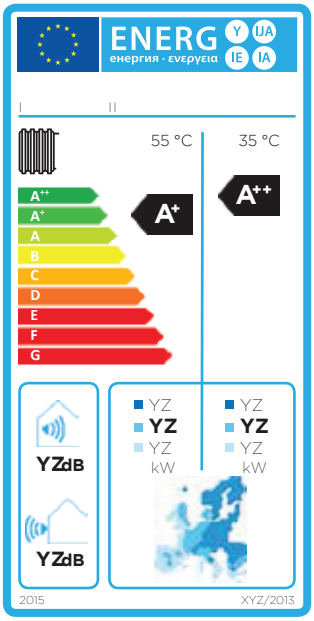
AIR TO WATER HEAT PUMPS

A++	35°C
A+	55°C

EVI + INVERTER MODELS

- REPLACE YOUR OIL / GAS BOILER
- IDEAL FOR UNDERFLOOR HEATING
- SUITABLE FOR HEATING BOTH RADIATORS AND DOMESTIC HOT WATER
- COOLING ALSO A POSSIBILITY

HIGHLY EFFICIENT AIR TO WATER HEAT PUMP THAT OFFER BOTH HEATING AND HOT WATER SOLUTIONS



OUR HEAT PUMP SOLUTIONS OFFER:

- High efficiency with maximum comfort
- Reduction in the household bills whilst never compromising the comfort
- Improved BER Rating
- Easy to maintain
- Aesthetically pleasing

GREATER HEAT PRODUCTION WITH LESS ENERGY CONSUMPTION

The environment's heat is commonly attributed to indirect solar energy, stored in water, air and soil. The heat pump will remove heat from these heat sources to, later, be used for heating your home. The highly efficient EVI and INVERTER Air to Water heat pumps are a modern, efficient and clean solution that guarantee your home's comfort, while considering the environment.

A smart way to use Nature's resources in order to improve your quality of life. With this solution you will be making a serious commitment to the reduction of harmful emissions into our atmosphere, thus contributing to the planet's green agenda.

The EVI and INVERTER Air to water heat pumps have been developed to meet both domestic and industrial needs, for heating, cooling and Domestic Hot Water solutions (DHW).

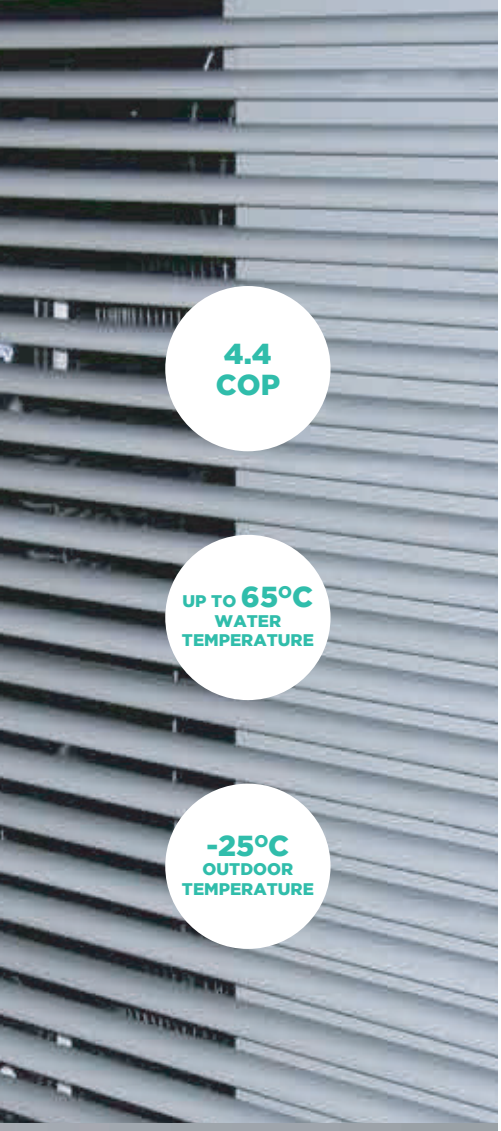
THE RANGE OF AQUAPURA HEAT PUMPS INCLUDE 8 TO 17kW MODELS

KEY FEATURES

- Heating and/or Cooling
- Reduced Maintenance and low operating noise
- Operating with external temperatures down to – 25°C
- Construction with anodized coating resistant to natural corrosion
- Domestic Hot Water Function

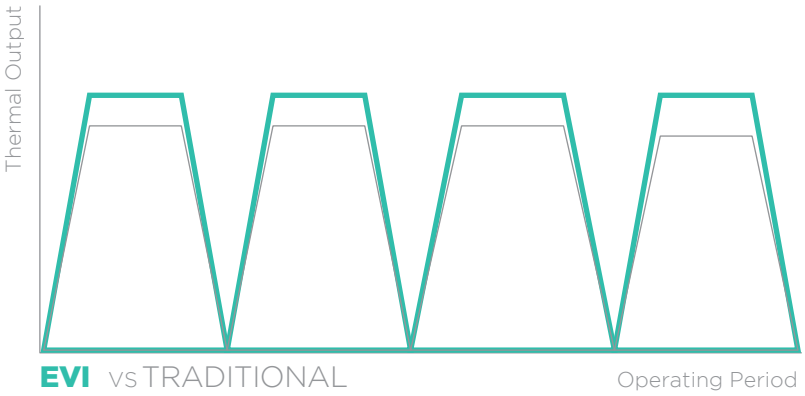
COMPONENTS BRANDS

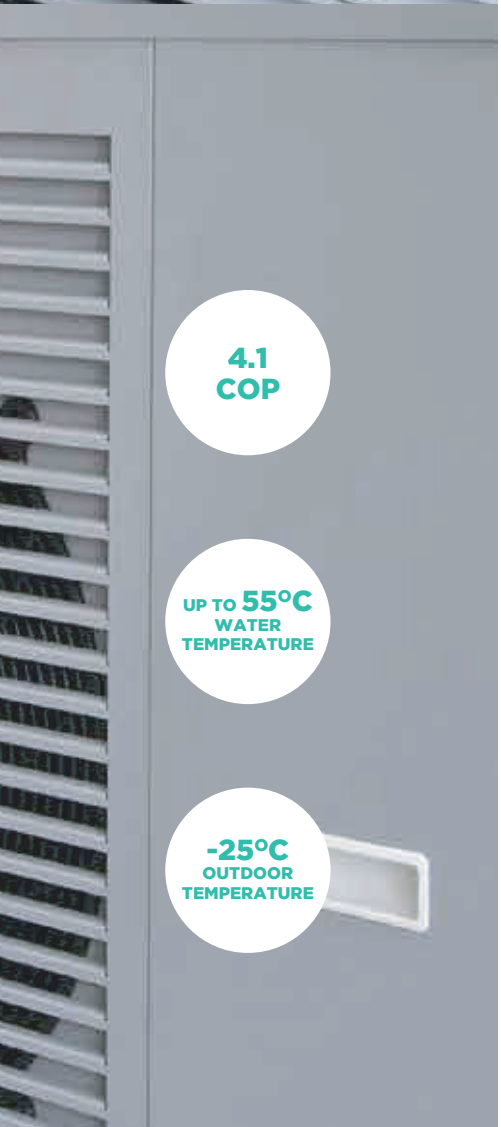
EMERSON Copeland · ZIEHL-ABEGG · wilo · GRUNDFOS · CAREL



EVI TECHNOLOGY

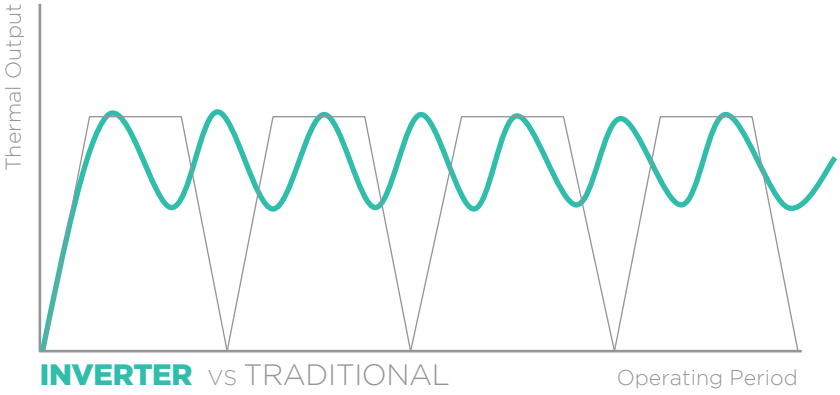
The EVI SCROLL optimized steam injection technology confers a higher efficiency to conventional SCROLL technology. This is achieved with an intermediate steam injection during the compression cycle thus reducing the high working frequency of the compressors, allowing an increase of the heat production capacity with lower energy consumption.





DC INVERTER TECHNOLOGY

The DC INVERTER technology differs from some other existing technologies in the market since it possesses compressors with the capacity to vary the frequency of operation according to the exact comfort needs of the house HVAC. There is therefore lower energy consumption.



HEAT PUMPS THAT GIVE YOUR HOME MORE COMFORT AND EFFICIENCY

AQUAPURA INVERTER

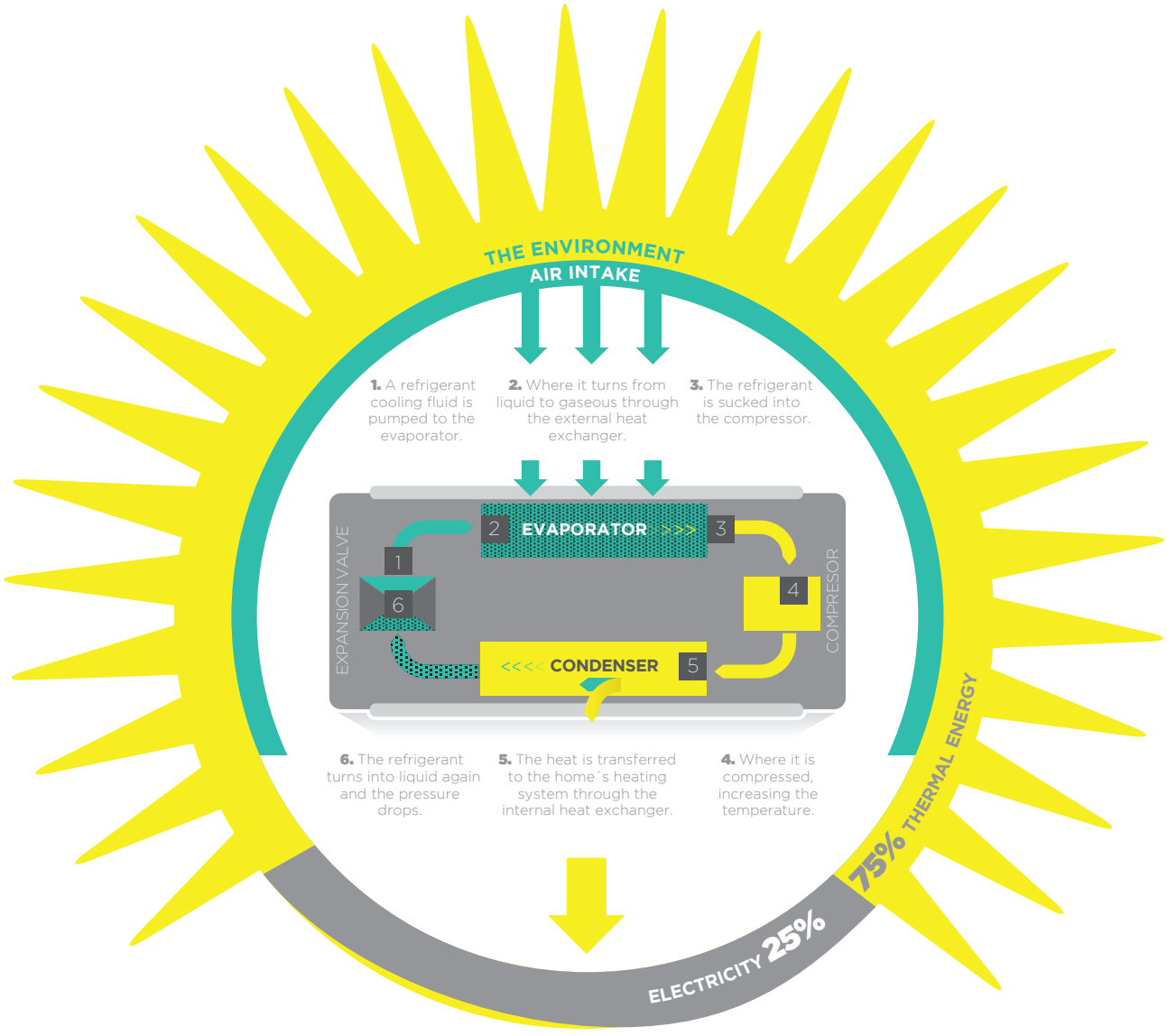
- The ideal heat pump for underfloor heating
- Efficient and silent solution
- Attractive and compact design
- INVERTER technology
- Heat pump with the capability to heat DHW
- Facilitates heating and cooling in certain situations

AQUAPURA EVI

- Integrated Comfort solution, heating, cooling and production of Domestic Hot Water (DHW)
- Substitute your boiler for this high temperature heat pump.
- Keep the existing radiators
- Attractive and compact Design
- EVI SCROLL technology
- Heat pump with a facility for DHW
- Allows heating and cooling

FUNCTIONING PRINCIPLE

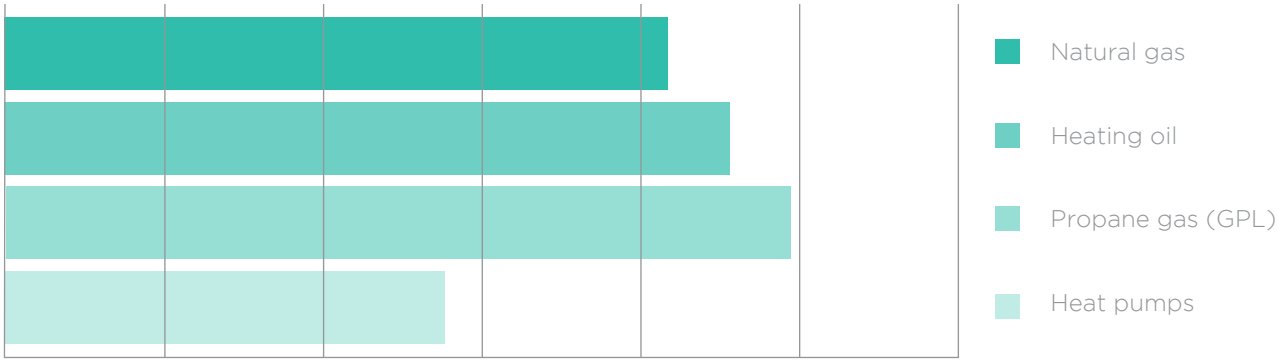
There is a refrigerant that is pumped to an outdoor heat exchanger (evaporator). The refrigerant, with the help of a fan, absorbs the energy from the atmosphere to the temperature differential obtained outdoors. During this process, the liquid changes to a gaseous state. The gaseous state is sucked in by the mechanical part of the system, the compressor where it is compressed. The pressure goes up and, consequently, the liquid temperature increases. After that, the liquid travels to a second inside heat exchanger (condenser) and transfers heat to the water in the cylinder. The fluid goes into liquid state by cooling down. The liquid pressure is reduced due to a strangulation that happens in the expansion valve and the process starts again.



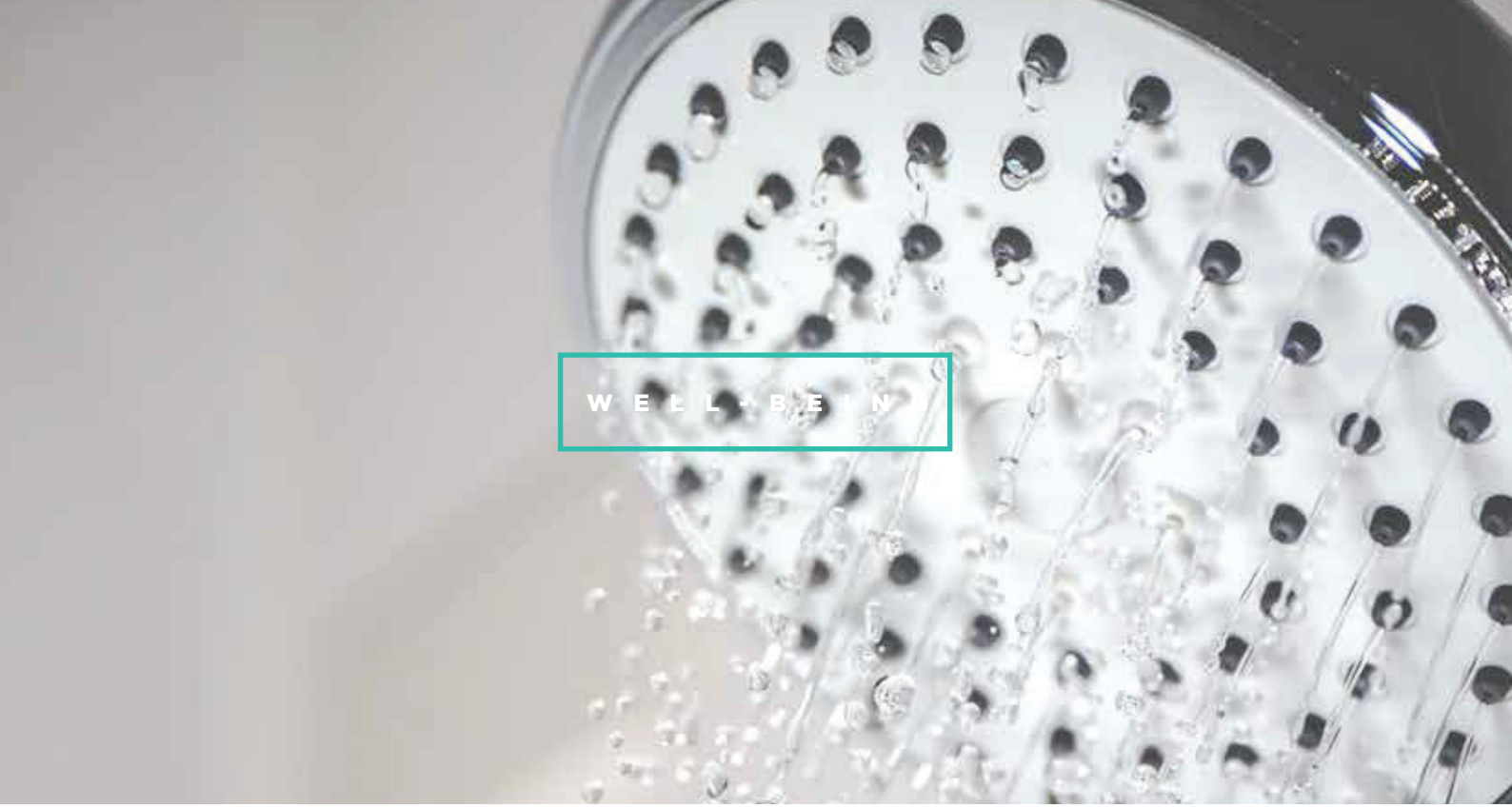
THE EVI AND INVERTER HEAT PUMPS STAND OUT FOR THEIR HIGH PERFORMANCE

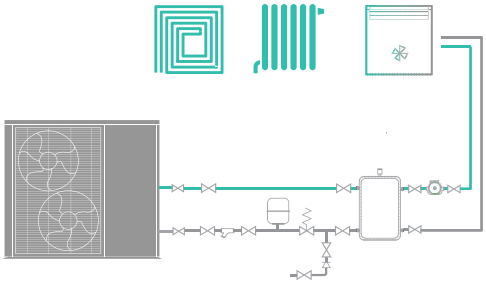
The heat pumps are capable of heating and cooling as well as domestic water heating. Those solutions stand out for their high energey efficiency, they can reach an energy classification up to A++ for heating. They also stand out for their ease of integration with other heating systems and easy installation.

PRIMARY ENERGY CONSUMPTION

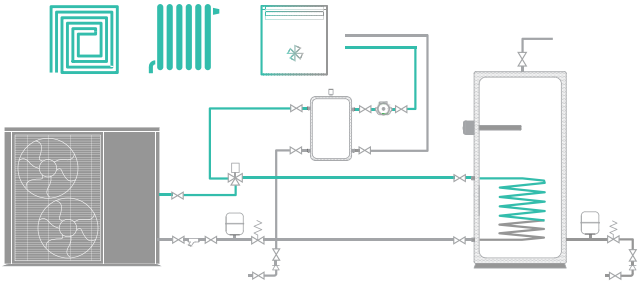


ENERGY CONSUPTION **GRAPHIC**

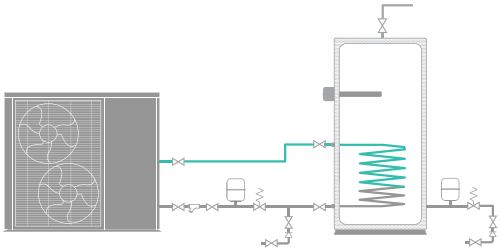




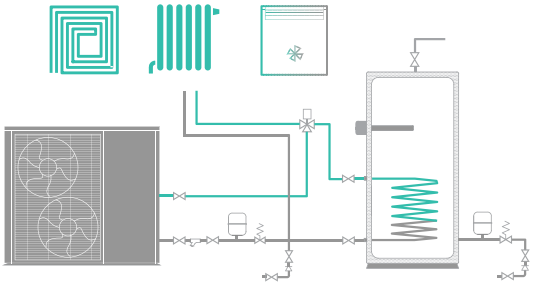
HEATPUMP FOR HEATING WITH BUFFER



HEAT PUMP FOR HEATING AND HOT WATER WITH BUFFER



HEATPUMP FOR HOT WATER ONLY



HEAT PUMP FOR HEATING AND HOT WATER WITHOUT BUFFER

THE PRESENCE OF AN BUFFER TANK IN THE INSTALLATION GUARANTEES SEVERAL ADVANTAGES:

- Energy-saving
- Available thermal outputs increase
- Smaller operating periods

CYLINDERS TO PRODUCE DOMESTIC HOT WATER (DHW):

- Capacities of 200, 250, 300 and 500 litres
- Stainless steel tub AISI 444
- 5 year guarantee

TECHNICAL FEATURES

Features		FF Evi 10 230V	FF Evi 15 230V	FF Evi 15 400SB	FF Evi 17 400V	INVERTER 8/12 230V
*Heat output	kW	9.20	14.50	15.10	17.00	4.20~12.30
*Electrical consumption	kW	2.24	3.40	3.30	4.00	0.80~3. 20
*COP	W/W	4.10	4.26	4.58	4.25	4.21
**Refrigerated Power	kW	7.68	12.70	14.70	15.36	2.80~10.00
**Electric power	kW	2.48	3.74	4.10	4.52	1.00~3.40
**EER	W/W	3.10	3.40	3.58	3.40	3.57
Supply	V/Hz	230V~/50Hz	230V~/50Hz	400V~/50Hz	400V~/50Hz	230V~/50Hz
Electric immersion	kW	3	3	-	3	3
Fans	No	1	2	2	2	1
Compressors	No	1	1	1	1	1
Kind of compressor	/	EVI Scroll	EVI Scroll	Scroll	EVI Scroll	Rotary
Integrated circulation pump	/	Yes	Yes	No	Yes	Yes
Liquid dimensions (L /A /P)	mm	1160/845/424	1364/1180/450	1364/1180/450	1364/1180/450	960/910/440
Packed dimensions (L /A /P)	mm	1200/880/480	13751255/550	13751255/550	1375/1255/550	1010/920/470
Noise level (outer unit)	dB	62	66	66	68	68
***ErP	°C	35	35	35	35	35
Optimum power output	kW	9.20	14.50	15.10	17.00	8.52
Electric efficiency	%	135	135	151	137	152
Efficiency energy-class	/	A+	A+	A++	A+	A++

*Electrical consumption: environment temperature (DB/WB): 7°C/6°C, water temperature (In /Out): 30°C/35°C
**Refrigerated power: environment temperature (DB/WB): 35°C/24°C, water temperature (In/Out): 23°C/18°C
***Average climate (-10°C)

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