



GENERA

R290 monobloc heat pump



ARGO

IMPROVE YOUR LIFE

OUR HISTORY

Founded in 1929 in Gallarate, near Varese, Argo is an Italian company focused on the production and marketing of solutions for heating and air conditioning. Still today, on an area of 42,000 m², the facility includes the manufacturing area, consisting of 6 production lines, research and development and quality control. This location is joined by the Alfianello headquarters in the Brescia area which, with its 32,000 m², houses a logistics center and management offices.

The know-how acquired and developed over the years has allowed us to offer on the international market a wide range of products that includes air-to-air and air-to-water heat pumps for heating, cooling, domestic hot water production and air treatment.



Argo - Alfianello headquarters, logistics center and management offices

RESEARCH, DEVELOPMENT AND PRODUCTION

INDUSTRIAL AND ENGINEERING SELF-RELIANCE, A HERITAGE THAT WE HAVE BEEN PURSUING FOR OVER 90 YEARS

A research and development team of specialized engineers and technicians and the production site with cutting-edge technologies and equipment, allow us to propose systems based on quality, reliability and high-performances.

The skills developed within the company guarantee the total control over the product design, development and manufacturing process of the products.



OUR TEAM

COMMERCIAL AND TECHNICAL ASSISTANCE, VALUES AT THE CUSTOMERS' SERVICE

The sales network is distributed throughout the national and foreign territory and allows us to be easily reachable and updated with the needs of local supplies which, also because of different climatic conditions, require specific know-how.

A dedicated team answers to all the needs both in the evaluation phases and for after-sales inquiries.

ARGO ACADEMY

A SPACE DEDICATED TO TECHNICAL SPECIALIZATION

Argo Academy welcomes customers and collaborators for training sessions tailored on the specific needs of the interlocutors. To ensure high standards, the training combines theoretical modules with practical sessions, also carried out with the means of the working systems installed in the training room.

GENERA

THE R290 HEAT PUMP RANGE
GENERATED IN ITALY



MADE IN ITALY



The range of R290 air-to-water monobloc heat pumps is entirely designed and developed in Italy and it is produced in the Gallarate factory.

QUALITY, RELIABILITY, EFFICIENCY

Argo – improve your life



THE RANGE

The range of R290 air-to-water monobloc heat pumps, full DC Inverter, offers a complete comfort system capable of heating, cooling and domestic hot water production. The system uses the natural refrigerant R290, which guarantees almost zero impact on global warming and excellent performance in terms of energy efficiency. All products in the GENERA range are classified A+++ (35 °C). The technical characteristics of these systems ensure maximum versatility of application, both within new constructions and as replacements in traditional heating systems.

MODELS



Code	Model			Rated capacity EN14511 (kW)	
		1PH	3PH	 Heating (1)	 Cooling (2)
387032090	ANGHP06S	●		6.6	5.2
387032091	ANGHP08S	●		8.1	8.4
387032092	ANGHP08T		●	8.1	8.4
387032093	ANGHP12S	●		12.4	11.9
387032094	ANGHP12T		●	12.4	11.9
387032095	ANGHP16S	●		16.0	15.3
387032096	ANGHP16T		●	16.0	15.3

(1) Water temperature 30 °C/35 °C, outdoor air temperature 7 °C D.B./6 °C W.B.

(2) Water temperature 23 °C/18 °C, outdoor air temperature 35 °C

ENERGY CLASS

A+++ Heating (35 °C)	A++ Heating (55 °C) (6-8 kW)	A+++ Heating (55 °C) (12-16 kW)	A+ DHW 6-8-12 kW	A DHW 16 kW
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CERTIFICATION





MADE IN ARGO

Design, performance and sustainability are just some of the distinctive features of the GENERA heat pump range. The black finish, embossed with a matt effect, was designed for optimal integration with the external environments of the house. All the screws have been eliminated from the frontal part of the monobloc unit and are used only on the back to improve aesthetics. The cladding is coated with a special layer of epoxy paint, with high resistance. Thanks to the know-how of the R&D department, the project was generated to bring to the market a product accurate in every detail.

Our know-how for sustainable comfort

R290 REFRIGERANT

R290 refrigerant has a GWP (global warming potential) of 0.02 and an ODP (ozone depletion potential) of 0, which reduces the impact on the greenhouse effect and the ozone layer to almost zero. R290 meets today's maximum performance requirements both in terms of maximum deliverable water temperature and external temperature operating range. It also effectively reduces energy consumption, thanks to the high efficiency achievable and for this reason it is currently considered the best refrigerant to be used in air-to-water heat pumps.

HIGH TEMPERATURE CONSTANT DELIVERY EVEN WITH EXTREME COLD

The system is suitable for both new structures and renovations: it can replace traditional boilers combined with radiators. From -10 °C to +38 °C the outlet water temperature can reach 75 °C. Even at the lower operating limit of -25 °C the water temperature can still reach 65 °C. In addition to the high capacities always available throughout the external temperature range, these products are excellent for ensuring complete heating, often without the need for installing additional electrical resistances and/or oversizing the unit. This will ensure optimal operation performances of the unit, using the minimum space during installation and keeping low the cost of the system.

MAXIMUM SILENCE

Achieving a low sound level is a goal for any modern heat pump. Argo's research and development department has dedicated great efforts to optimize this characteristic, selecting and isolating with great care the compressor. Furthermore, an in-depth aerodynamic analysis was carried out to minimize the sound of the fan's airflow. A very large fan allows noise to be minimized by reducing the rotation speed. The overall structure has also been developed and insulated to optimize silence, making the product ideal even in residential areas. The machine is also equipped with SILENT and SUPER-SILENT modes which further reduces the sound level when necessary.



VERSATILE AND EFFICIENT

Each element was designed and developed evaluating maximum versatility during the installation phase without compromising performances. The outdoor unit stands out for its small size and low weight, which also makes it suitable for installation in limited spaces. Research into components has made it possible to guarantee optimal performance even in any climatic condition.



RELIABILITY AND SAFETY

Genera is equipped with refrigerant pressure and water flow control systems, in order to protect the system in all working conditions. The safety gas-liquid separator is incorporated into the unit, for ensuring no-worries when using the R290 refrigerant. To ensure correct operation of the gas-liquid separator, glycol cannot be added to the fluid.

COMPACT DIMENSIONS

Thanks to the reduced size and low weight obtained by optimizing the components and their arrangement, the units can be easily installed even in narrow spaces or on surfaces with low load capacity. Even the more powerful 16 kW version is characterized by a reduced footprint.

SINGLE OR GROUP MANAGEMENT

The control panel can control a single unit or, if the installation includes a group of units, it can control up to 4 at the same time.

MAIN COMPONENTS

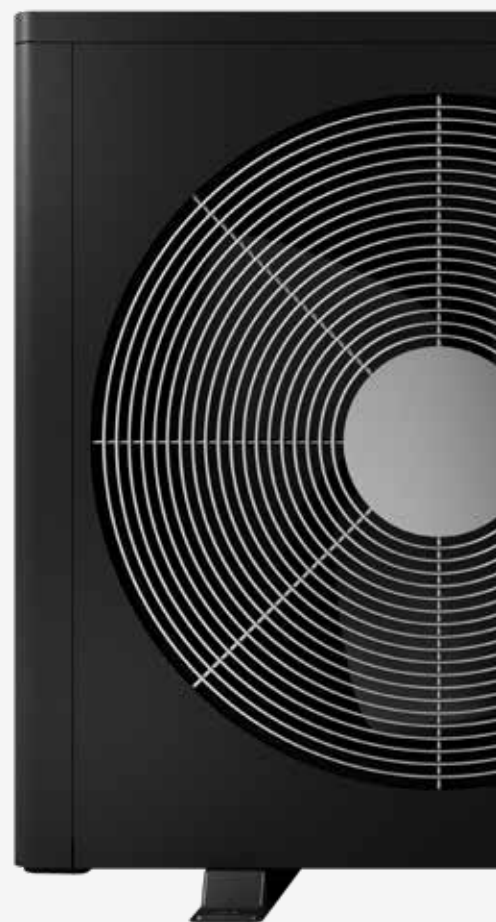
The main components have been selected from the most reliable and cutting-edge suppliers:

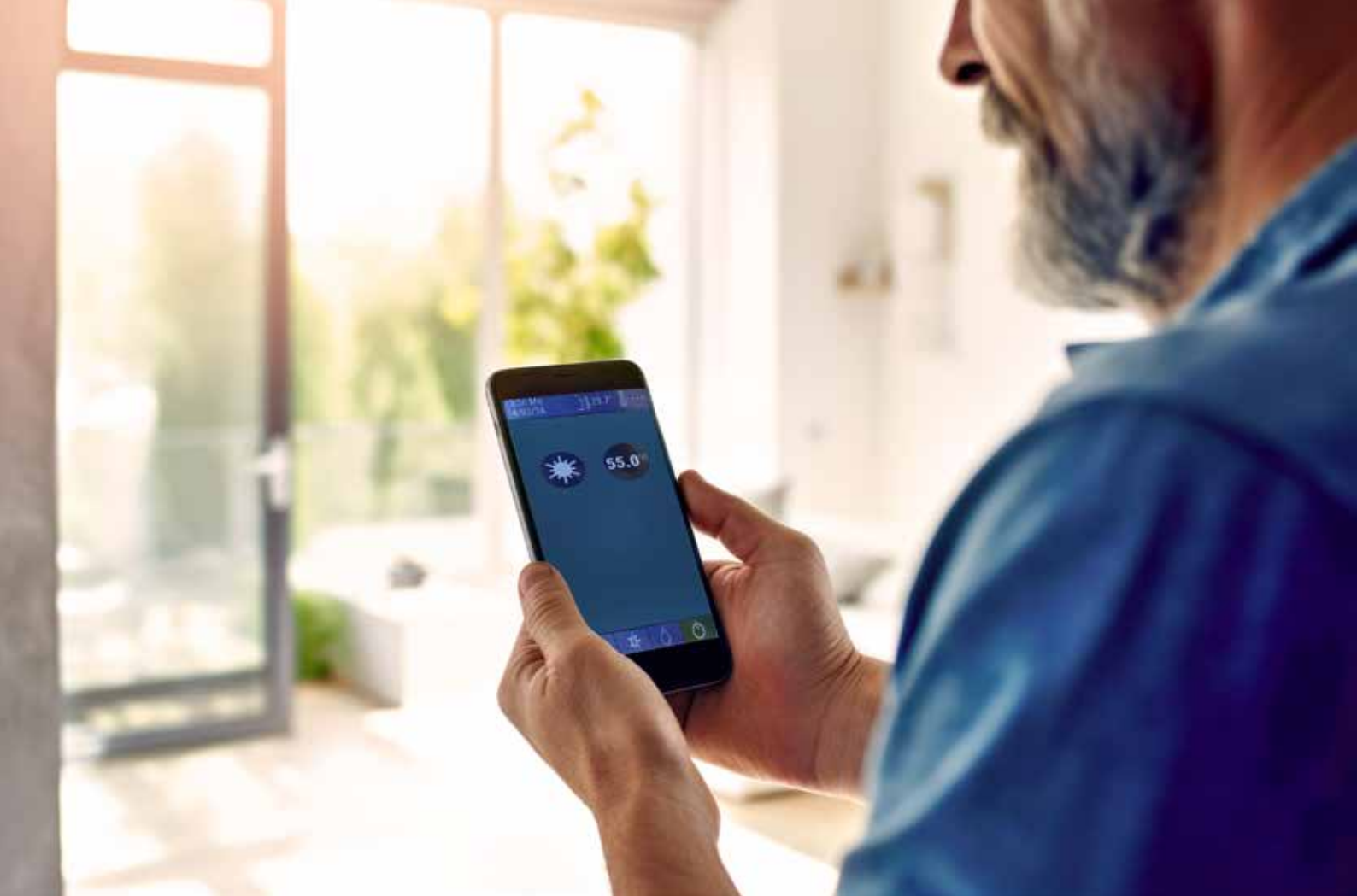
- The latest generation Twin-rotary compressor, optimized for the use of R290, can guarantee excellent performance in a wide range of action.
- DC-brushless axial fans are designed for aerodynamic optimization: they guarantee a low noise level, but high efficiency and powerful airflow.
- Finned heat exchangers have a special superficial treatment: the fins are coated to ensure corrosion resistance and hydrophilic reaction.

HYDRAULIC COMPONENTS

Installation is simplified as the unit is already internally equipped with most of the necessary hydraulic components:

- Inverter circulator
- Plate heat exchanger
- Flowmeter
- Safety valve
- Safety Gas-liquid separator





CONNECTED



All models in the R290 air-to-water monobloc heat pump range can be managed remotely thanks to the connection systems provided as standard. The control panel has been designed to be positioned inside the technical room so as to optimize the connections with the external unit and the other system components.



Code	Description
387030740*	ANGHP Controller (two probes included)
T9900027**	External probe
108602 ***	Anti-freeze valve 1" (1 pcs.)

*Not included, mandatory accessory, one for each system

** Strongly recommended for using the "climatic curve" function

*** To be foreseen for installations that can reach temperatures below 0 °C.
It is recommended to install a pair of valves (leaving and return pipes)

INNOVATIVE INTERFACE

The control panel is equipped with a color LCD touch emergency display, while the main interface can be managed from a dedicated App, available on smartphone, tablet or PC. The controller is separate from the monobloc unit and requires internal installation. It incorporates all the electrical connections of the system accessories, so the connection to the unit is made with a simple communication cable which, in addition to the power supply, is the only electrical wiring needed for the external unit.

DYNAMIC SET-POINTS

Two input dry-contacts allow to interface with smart electrical grids or other systems for optimizing consumption. Depending on the system complexity, two or four cases are available, providing for differentiated operations and/or set-points for DHW and system, depending on the cost and availability of electrical energy.

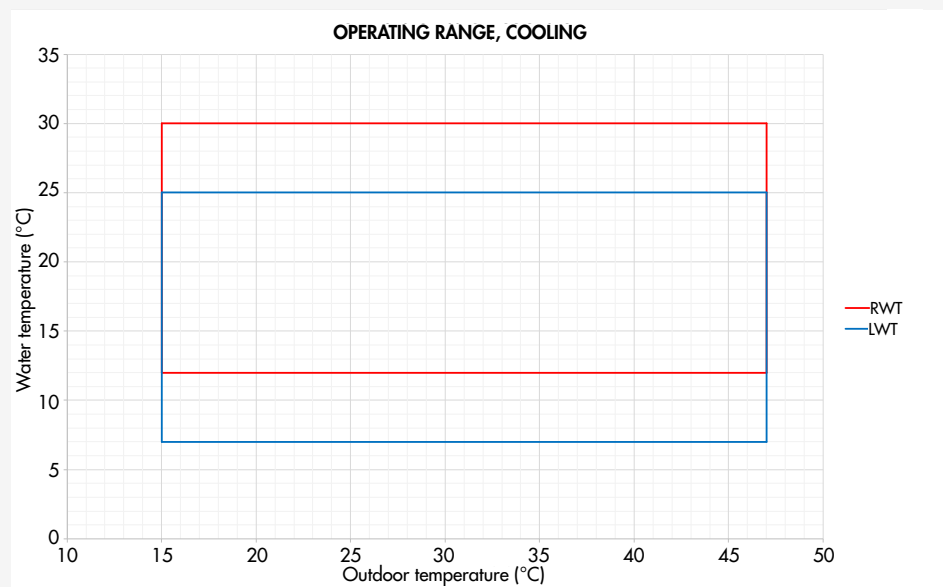
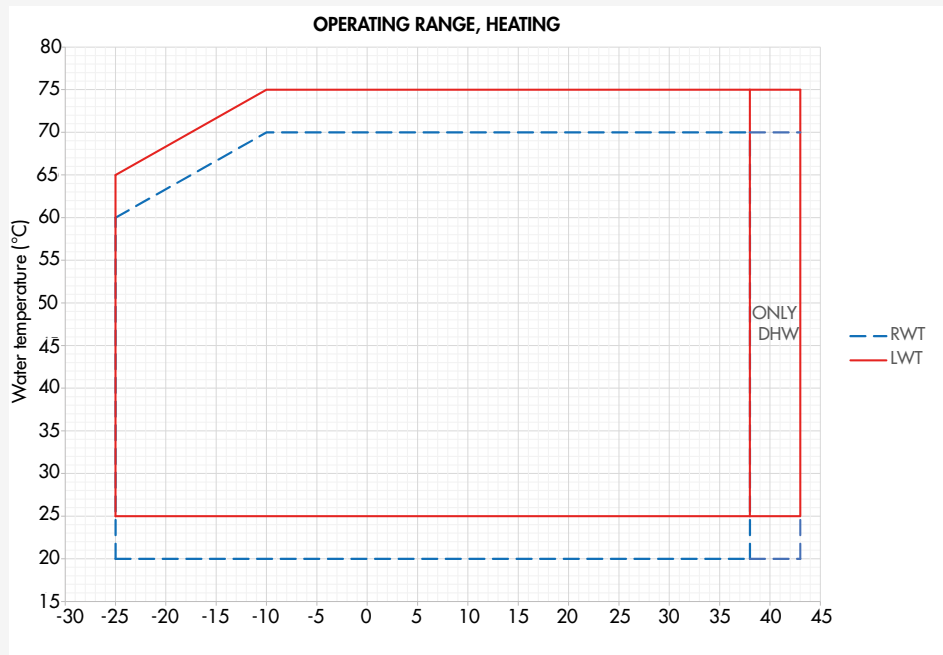
CONSUMPTION ACCOUNTING

The consumption and efficiency of the system are always available via the App. The actual performance data can be viewed at any time and it is possible to recall the archived data for constant improvement in use and performance optimization.

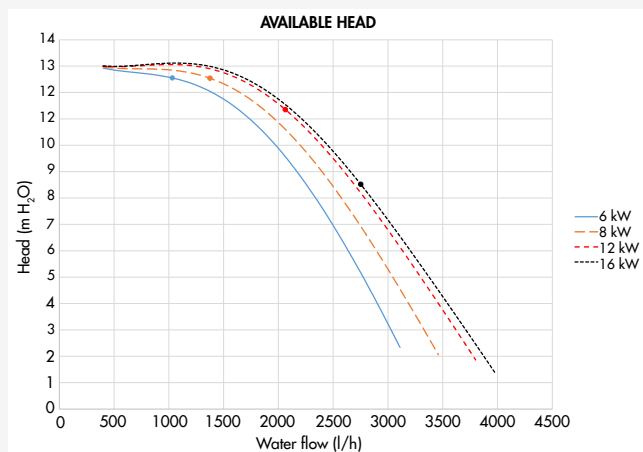
INTEGRATED WI-FI AND MODBUS

For easy remote management, the controller is equipped with a built-in WiFi module which also includes the possibility of updating the firmware. For more advanced management, Modbus connectivity is available as standard, which allows to monitor and adjust all the necessary parameters.

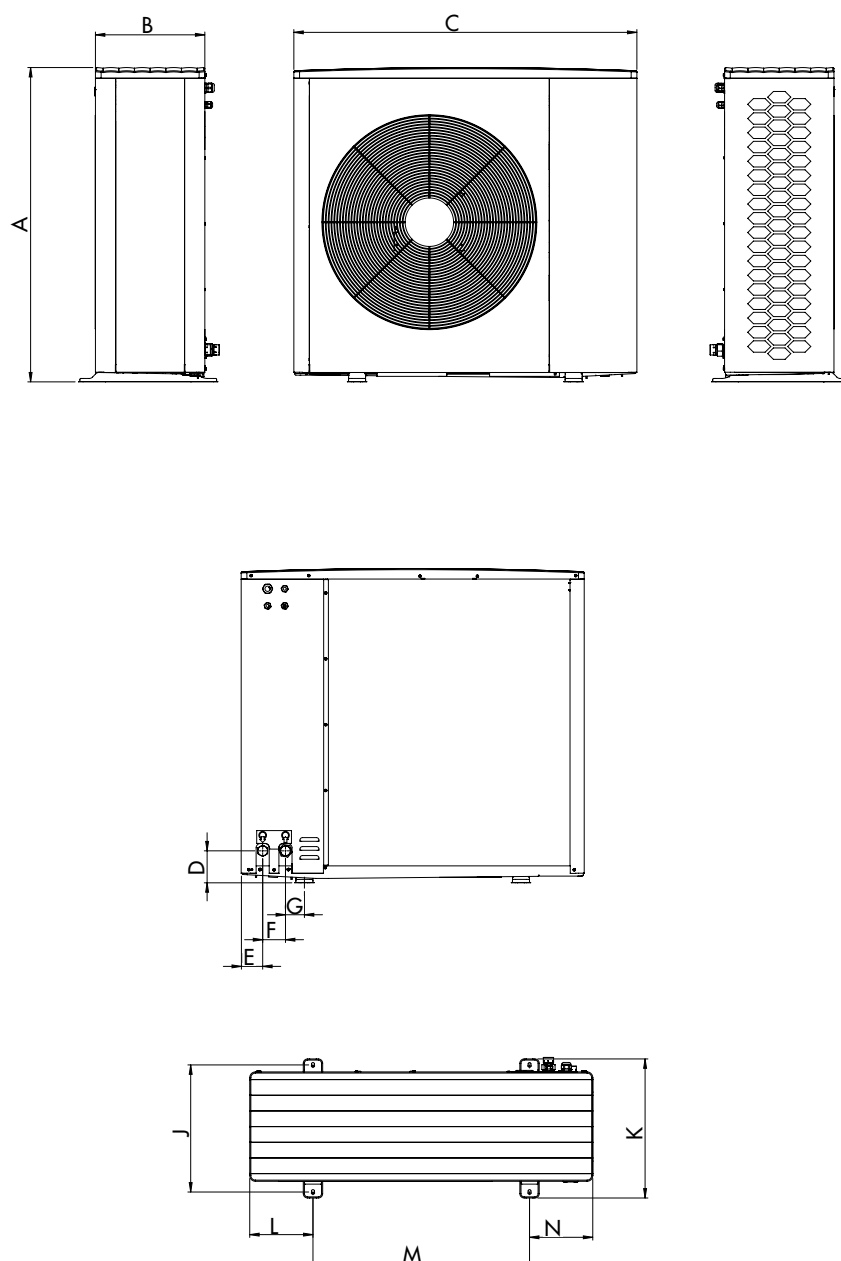
OPERATING CURVE



AVAILABLE HEAD



DIMENSIONAL DATA



Model	A	B	C	D	E	F	G	J	K	L	M	N	Weight (kg)
ANGHP06S	720	355	915	94	52	80	46	416	458	178	560	178	69
ANGHP08S	892	385	1204	112	75	80	66	446	488	222	760	222	97
ANGHP08T	892	385	1204	112	75	80	66	446	488	222	760	222	105
ANGHP12S	1103	385	1204	112	75	80	66	446	488	222	760	222	114
ANGHP12T	1103	385	1204	112	75	80	66	446	488	222	760	222	122
ANGHP16S	1397	385	1204	112	75	80	66	446	488	222	760	222	141
ANGHP16T	1397	385	1204	112	75	80	66	446	488	222	760	222	149

NOTE: dimensions in mm

TECHNICAL DATA



MODEL				ANGHP06S	
Matchable units for domestic hot water production (DHW)				200 liters external tank with diverting valve	
				Cooling	Heating
Performance according to EN 14511	Air +35 °C - Water 23/18 °C Air +7 °C - Water 30/35 °C	Rated capacity	kW	5.28	6.62
		Rated electrical power input	kW _{el}	1.26	1.47
		EER/COP		4.19	4.51
	Air +35 °C - Water 12/7 °C Air -7 °C - Water 30/35 °C	Rated capacity	kW	4.06	4.29
		Rated electrical power input	kW _{el}	1.30	1.70
		EER/COP		3.12	2.53
Performance according to Ecodesign (ERP) EN 14825	LOW TEMPERATURE (35 °C) AVERAGE climate	Design thermal load (Pdesign _h)	kW	5.1	
		Energy efficiency class		A+++	
		SCOP		4.75	
		η _s		187	
	MEDIUM TEMPERATURE (55 °C) AVERAGE climate	Design thermal load (Pdesign _h)	kW	4.6	
		Energy efficiency class		A++	
		SCOP		3.37	
		η _s		132	
DHW production	With 200 liters tank and diverting valve AVERAGE climate	Load profile		L	
		Energy efficiency class		A+	
		SCOP _{DHW}		2.90	
Unit operation data			Maximum delivery water temperature	°C	75
			Outdoor temperature range (heating)	°C	-25/+38
			Outdoor temperature range (cooling)	°C	+15/+47
			Outdoor temperature range (DHW)	°C	-25/+43
			Power supply (Voltage/Phases/Frequency)	V/Ph/Hz	230/1/50
			Max current	A	10
			Delayed fuse	A	13
			Sound power*	dB(A)	49
			Sound pressure (super silent)**	dB(A)	40
Components and dimensions			Circulator pump head	mH ₂ O	12
			Hydraulic connections	inches	G1"
			Safety valve	bar	2,5
			Weight	kg	69
			Dimensions (W./D./H.)	mm	914/355/720
			Compressor type		Twin-rotary
Refrigerant			Refrigerant type e GWP		R290/0.02 kg CO ₂ eq.
			Quantity	kg	0.5

Data declared in accordance with REGULATION no. 811/2013/EU regarding the labeling indicating the energy consumption of space and combination heating appliances and the (EU) REGULATION No. 813/2013/EU containing methods of application of Directive 2009/125/EC regarding the specifications for the eco-design of space and combination heating appliances.

* Data as per EN12102-1 from ERP regulation (35% part load)

** Data at 6 m frontal distance, in super-silent mode

MODEL				ANGHP08S		ANGHP08T	
Matchable units for domestic hot water production (DHW)				300 liters external tank with diverting valve		300 liters external tank with diverting valve	
				Cooling	Heating	Cooling	Heating
Performance according to EN 14511	Air +35 °C - Water 23/18 °C Air +7 °C - Water 30/35 °C	Rated capacity	kW	8.39	8.15	8.39	8.15
		Rated electrical power input	kW _{el}	2.21	1.73	2.21	1.73
		EER/COP		3.80	4.71	3.80	4.71
	Air +35 °C - Water 12/7 °C Air -7 °C - Water 30/35 °C	Rated capacity	kW	6.92	7.48	6.92	7.48
		Rated electrical power input	kW _{el}	2.24	2.91	2.24	2.91
		EER/COP		3.09	2.57	3.09	2.57
Performance according to Ecodesign (ERP) EN 14825	LOW TEMPERATURE (35 °C) AVERAGE climate	Design thermal load (P _{design,i})	kW	7.5		7.5	
		Energy efficiency class		A+++		A+++	
		SCOP		4.78		4.78	
		η _s		188		188	
	MEDIUM TEMPERATURE (55 °C) AVERAGE climate	Design thermal load (P _{design,i})	kW	6.5		6.5	
		Energy efficiency class		A++		A++	
		SCOP		3.78		3.78	
		η _s		148		148	
DHW production	With 300 liters tank and diverting valve AVERAGE climate	Load profile		XL		XL	
		Energy efficiency class		A+		A+	
		SCOP _{DHW}		3.15		3.15	
Unit operation data			Maximum delivery water temperature	°C	75		75
			Outdoor temperature range (heating)	°C	-25/+38		-25/+38
			Outdoor temperature range (cooling)	°C	+15/+47		+15/+47
			Outdoor temperature range (DHW)	°C	-25/+43		-25/+43
			Power supply (Voltage/Phases/Frequency)	V/Ph/Hz	230/1/50		400/3/50
			Max current	A	12.5		5
			Delayed fuse	A	16		6
			Sound power*	dB(A)	53		53
			Sound pressure (super silent)**	dB(A)	39		39
Components and dimensions			Circulator pump head	mH ₂ O	12		12
			Hydraulic connections	inches	G1"		G1"
			Safety valve	bar	2.5		2.5
			Weight	kg	97		105
			Dimensions (W./D./H.)	mm	1204/385/892		1204/385/892
			Compressor type		Twin-rotary		Twin-rotary
Refrigerant			Refrigerant type e GWP		R290/0.02 kg CO ₂ eq.		R290/0.02 kg CO ₂ eq.
			Quantity	kg	0.8		0.8

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* Data as per EN12102-1 from ERP regulation (35% part load)

** Data at 6 m frontal distance, in super-silent mode

TECHNICAL DATA



MODEL				ANGHP12S		ANGHP12T	
Matchable units for domestic hot water production (DHW)				300 liters external tank with diverting valve		300 liters external tank with diverting valve	
				Cooling	Heating	Cooling	Heating
Performance according to EN 14511	Air +35 °C - Water 23/18 °C Air +7 °C - Water 30/35 °C	Rated capacity	kW	11.88	12.37	11.88	12.37
		Rated electrical power input	kW _{el}	2.93	2.73	2.93	2.73
		EER/COP		4.05	4.53	4.05	4.53
	Air +35 °C - Water 12/7 °C Air -7 °C - Water 30/35 °C	Rated capacity	kW	9.42	9.19	9.42	9.19
		Rated electrical power input	kW _{el}	3.01	3.22	3.01	3.22
		EER/COP		3.13	2.85	3.13	2.85
Performance according to Ecodesign (ERP) EN 14825	LOW TEMPERATURE (35 °C) AVERAGE climate	Design thermal load (Pdesign _h)	kW	10.5		10.5	
		Energy efficiency class		A+++		A+++	
		SCOP		4.78		4.78	
		η _s		188		188	
	MEDIUM TEMPERATURE (55 °C) AVERAGE climate	Design thermal load (Pdesign _h)	kW	9		9	
		Energy efficiency class		A+++		A+++	
		SCOP		3.82		3.82	
		η _s		150		150	
DHW production	With 300 liters tank and diverting valve AVERAGE climate	Load profile		XL		XL	
		Energy efficiency class		A+		A+	
		SCOP _{DHW}		3.12		3.12	
Unit operation data		Maximum delivery water temperature	°C	75		75	
		Outdoor temperature range (heating)	°C	-25/+38		-25/+38	
		Outdoor temperature range (cooling)	°C	+15/+47		+15/+47	
		Outdoor temperature range (DHW)	°C	-25/+43		-25/+43	
		Power supply (Voltage/Phases/Frequency)	V/Ph/Hz	230/1/50		400/3/50	
		Max current	A	16		6	
		Delayed fuse	A	20		10	
		Sound power*	dB(A)	53		53	
		Sound pressure (super silent)**	dB(A)	45		45	
Components and dimensions		Circulator pump head	mH ₂ O	12		12	
		Hydraulic connections	inches	G1 "		G1 "	
		Safety valve	bar	2,5		2,5	
		Weight	kg	114		122	
		Dimensions (W./D./H.)	mm	1204/385/1103		1204/385/1103	
		Compressor type		Twin-rotary		Twin-rotary	
Refrigerant	Refrigerant type e GWP			R290/0.02 kg CO ₂ eq.		R290/0.02 kg CO ₂ eq.	
	Quantity		kg	1.1		1.1	

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* Data as per EN12102-1 from ERP regulation (35% part load)

** Data at 6 m frontal distance, in super-silent mode

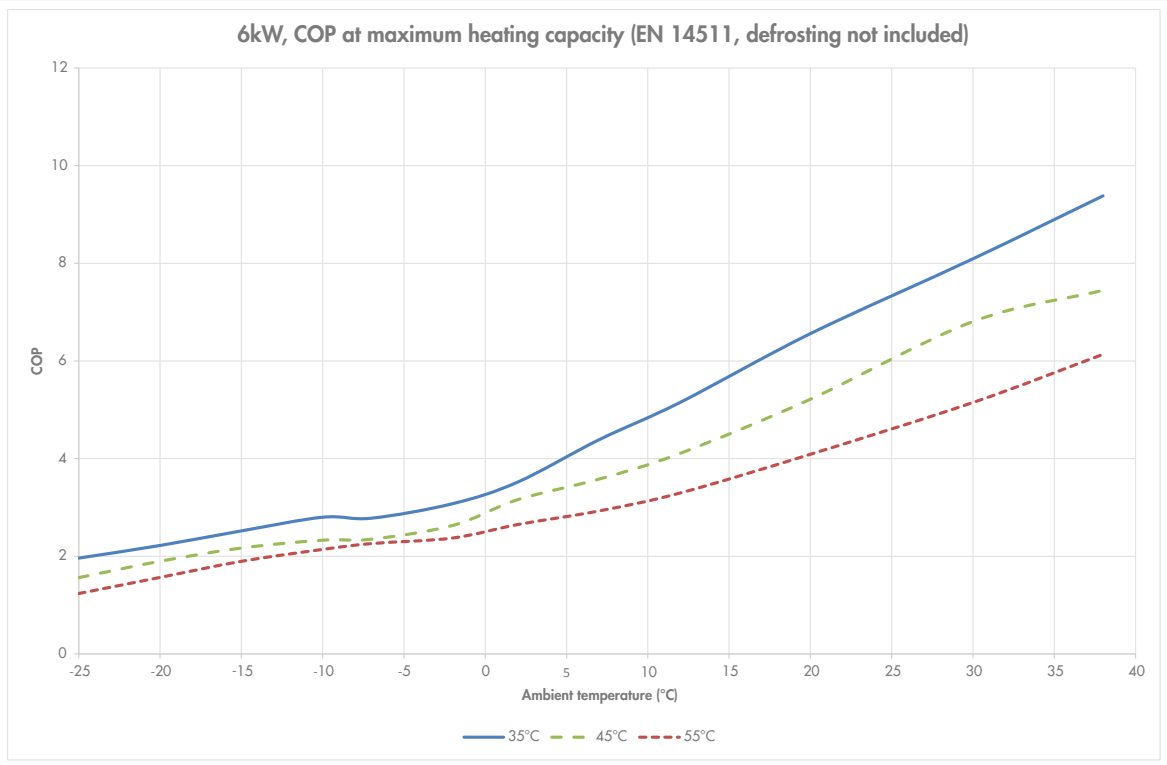
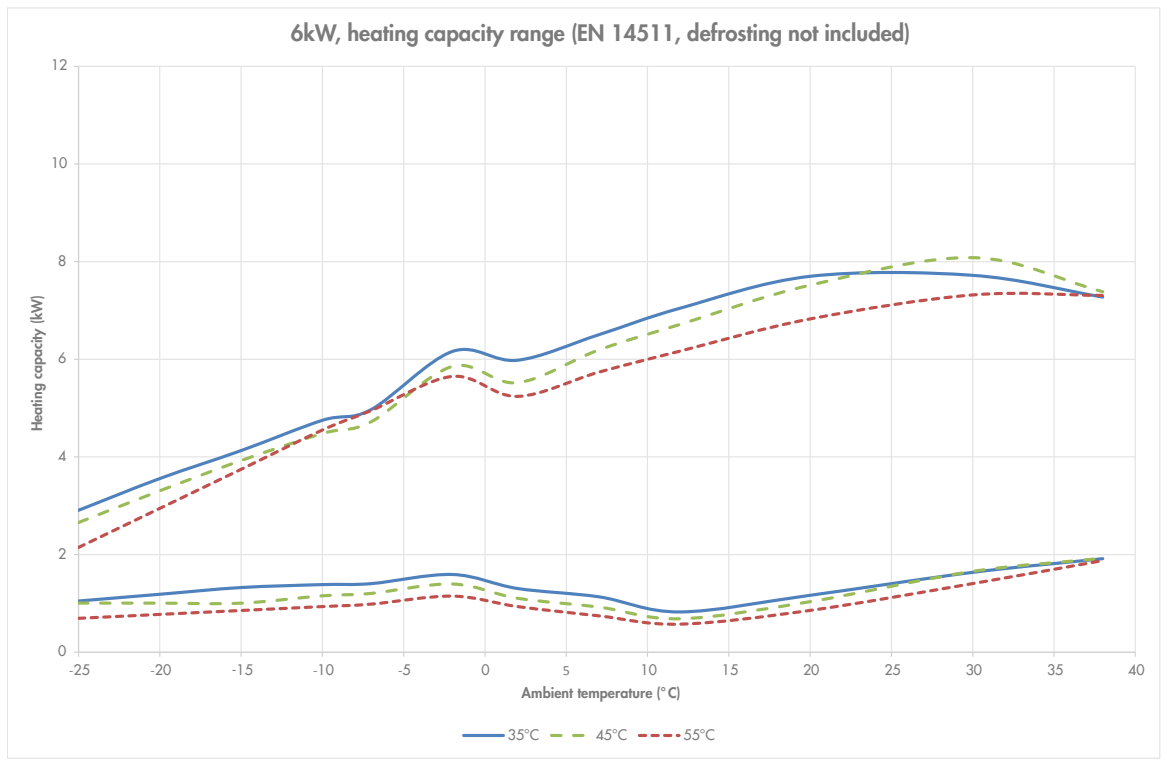
MODEL				ANGHP16S		ANGHP16T	
Matchable units for domestic hot water production (DHW)				300 liters external tank with diverting valve		300 liters external tank with diverting valve	
				Cooling	Heating	Cooling	Heating
Performance according to EN 14511	Air +35 °C - Water 23/18 °C Air +7 °C - Water 30/35 °C	Rated capacity	kW	15.30	16.05	15.30	16.05
		Rated electrical power input	kW _{el}	3.55	3.73	3.55	3.73
		EER/COP		4.31	4.30	4.31	4.30
	Air +35 °C - Water 12/7 °C Air -7 °C - Water 30/35 °C	Rated capacity	kW	13.02	11.40	13.02	11.40
		Rated electrical power input	kW _{el}	4.05	4.19	4.05	4.19
		EER/COP		3.22	2.72	3.22	2.72
Performance according to Ecodesign (ERP) EN 14825	LOW TEMPERATURE (35 °C) AVERAGE climate	Design thermal load (P _{design,i})	kW	13.50		13.50	
		Energy efficiency class		A+++		A+++	
		SCOP		5.15		5.15	
		η _s		203		203	
	MEDIUM TEMPERATURE (55 °C) AVERAGE climate	Design thermal load (P _{design,i})	kW	13		13	
		Energy efficiency class		A+++		A+++	
		SCOP		3.97		3.97	
		η _s		156		156	
DHW production	With 300 liters tank and diverting valve AVERAGE climate	Load profile		XL		XL	
		Energy efficiency class		A		A	
		SCOP _{DHW}		3.02		3.02	
Unit operation data			Maximum delivery water temperature	°C	75		75
			Outdoor temperature range (heating)	°C	-25/+38		-25/+38
			Outdoor temperature range (cooling)	°C	+15/+47		+15/+47
			Outdoor temperature range (DHW)	°C	-25/+43		-25/+43
			Power supply (Voltage/Phases/Frequency)	V/Ph/Hz	230/1/50		400/3/50
			Max current	A	22		9
			Delayed fuse	A	25		10
			Sound power*	dB(A)	51		51
			Sound pressure (super silent)**	dB(A)	50		50
Components and dimensions			Circulator pump head	mH ₂ O	12		12
			Hydraulic connections	inches	G1"		G1"
			Safety valve	bar	2.5		2.5
			Weight	kg	141		149
			Dimensions (W./D./H.)	mm	1204/385/1397		1204/385/1397
			Compressor type		Twin-rotary		Twin-rotary
Refrigerant			Refrigerant type e GWP		R290/0.02 kg CO ₂ eq.		R290/0.02 kg CO ₂ eq.
			Quantity	kg	1.6		1.6

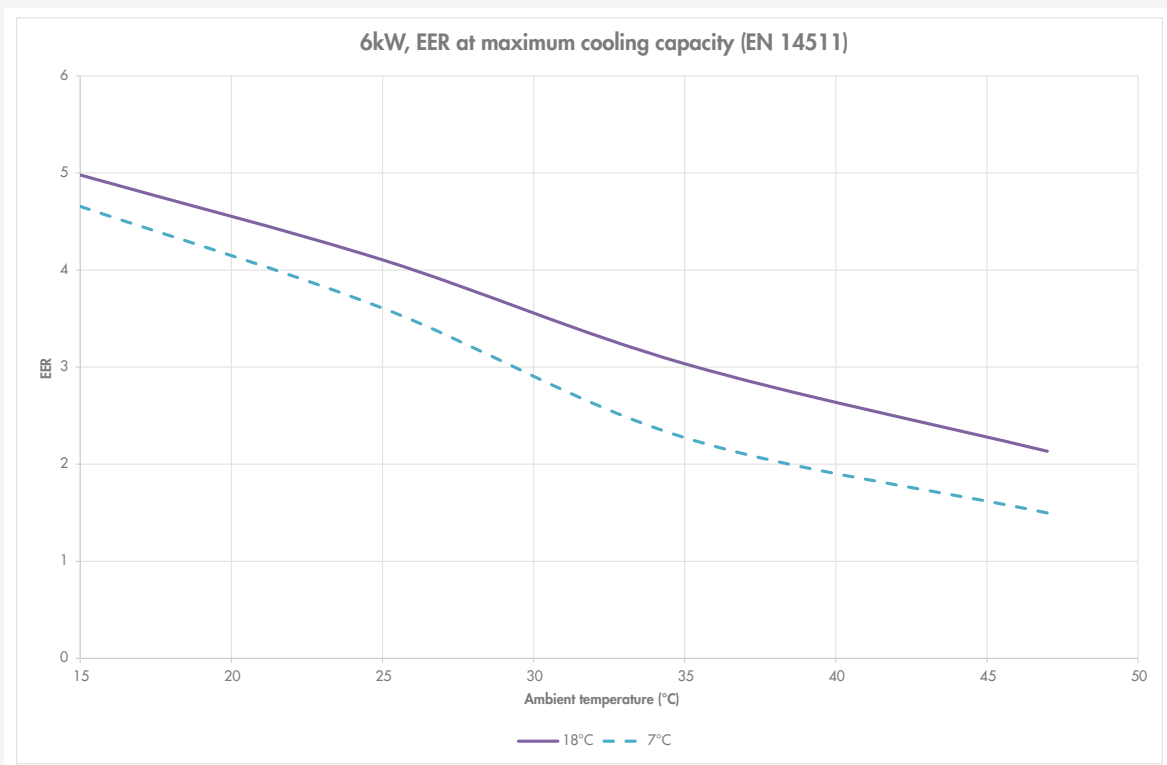
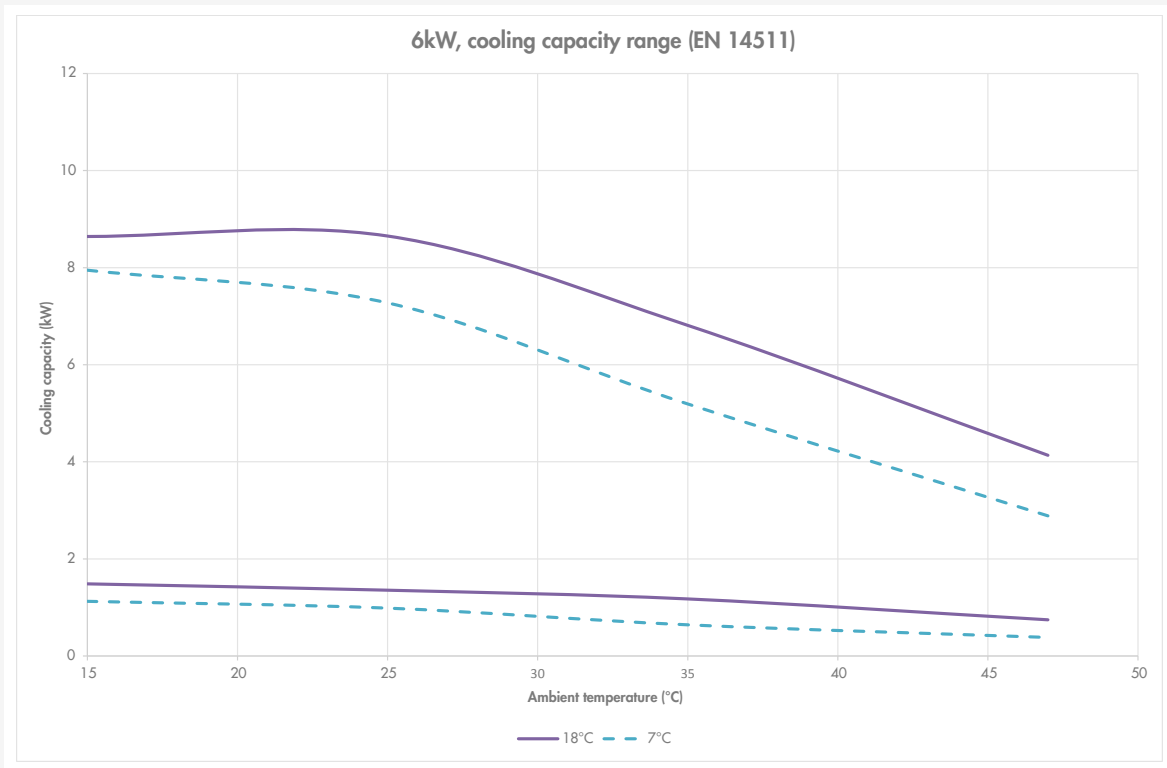
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* Data as per EN12102-1 from ERP regulation (35% part load)

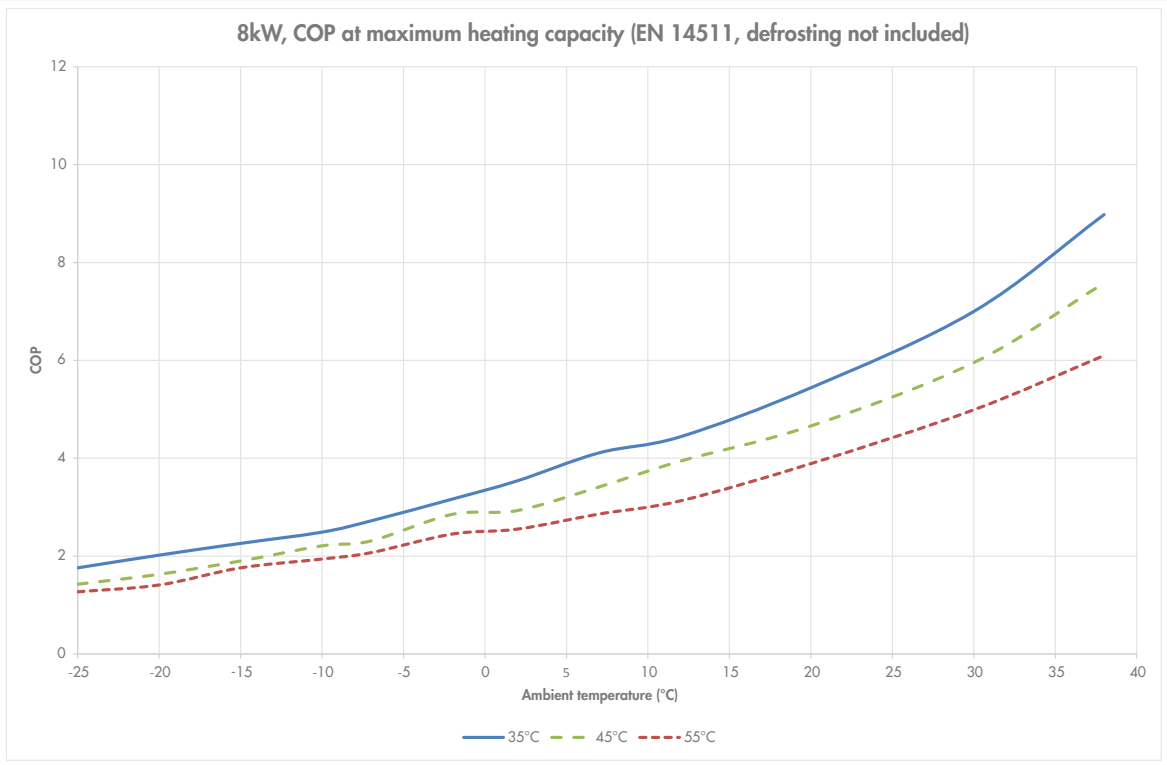
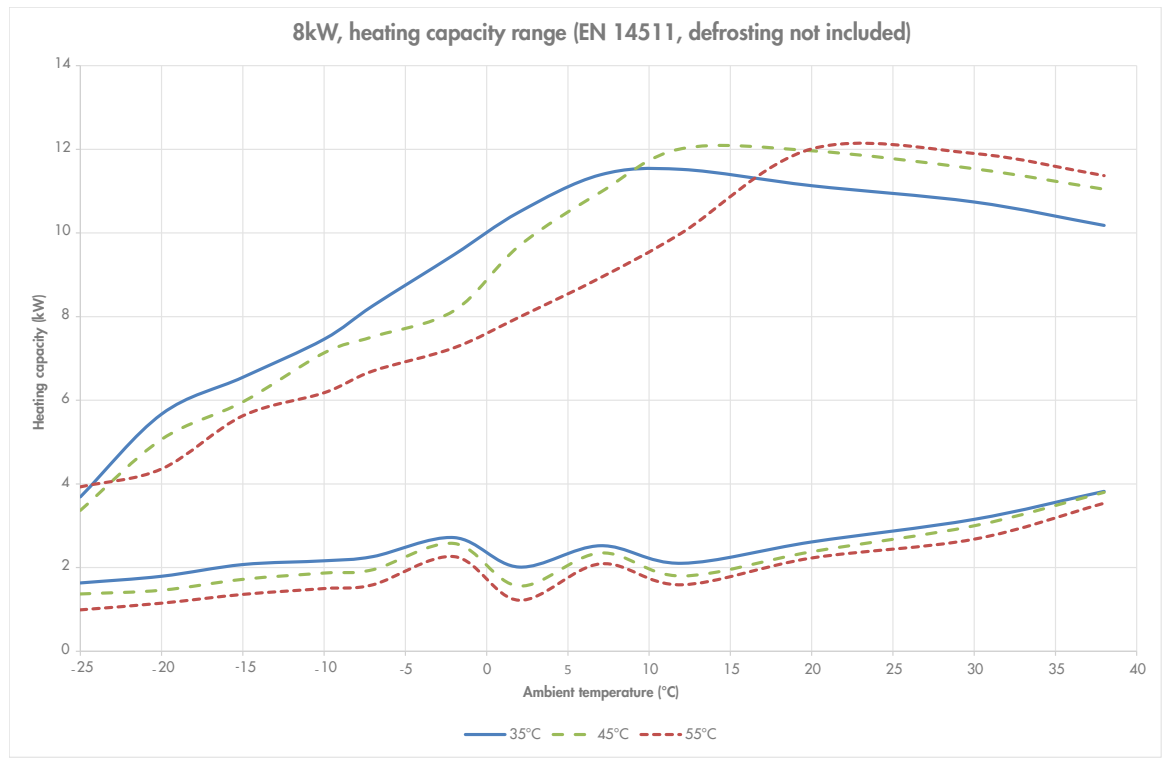
** Data at 6 m frontal distance, in super-silent mode

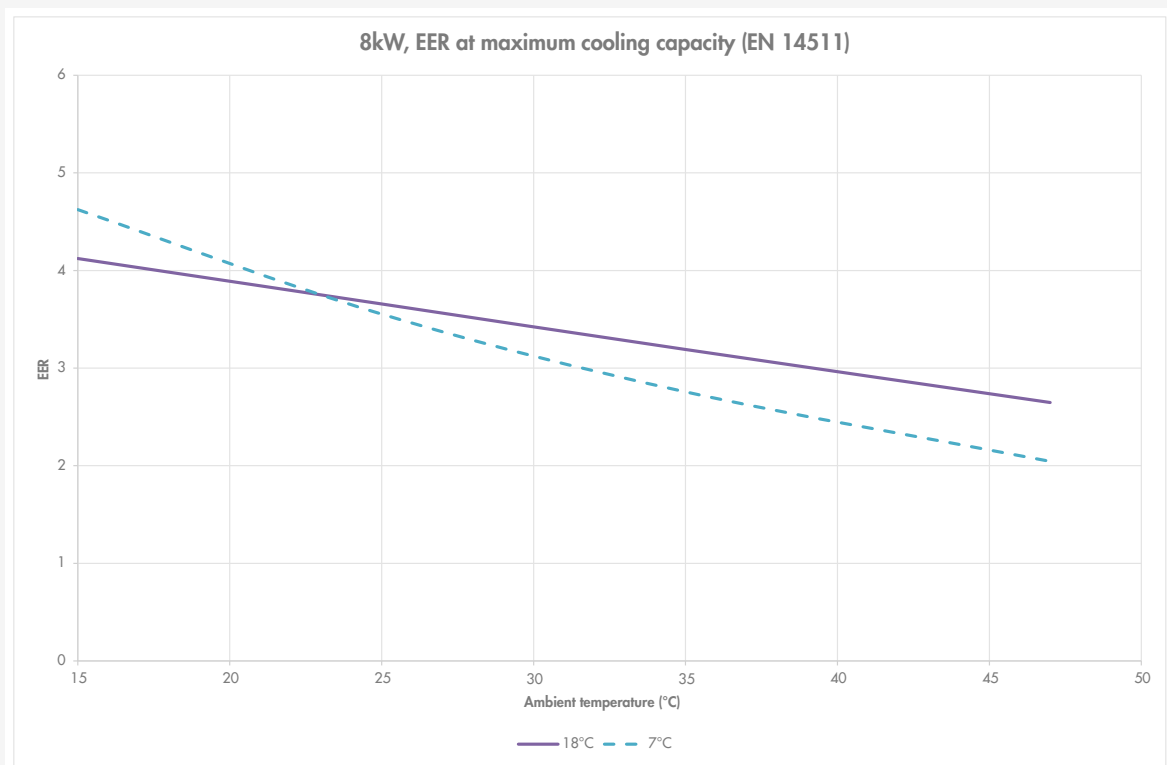
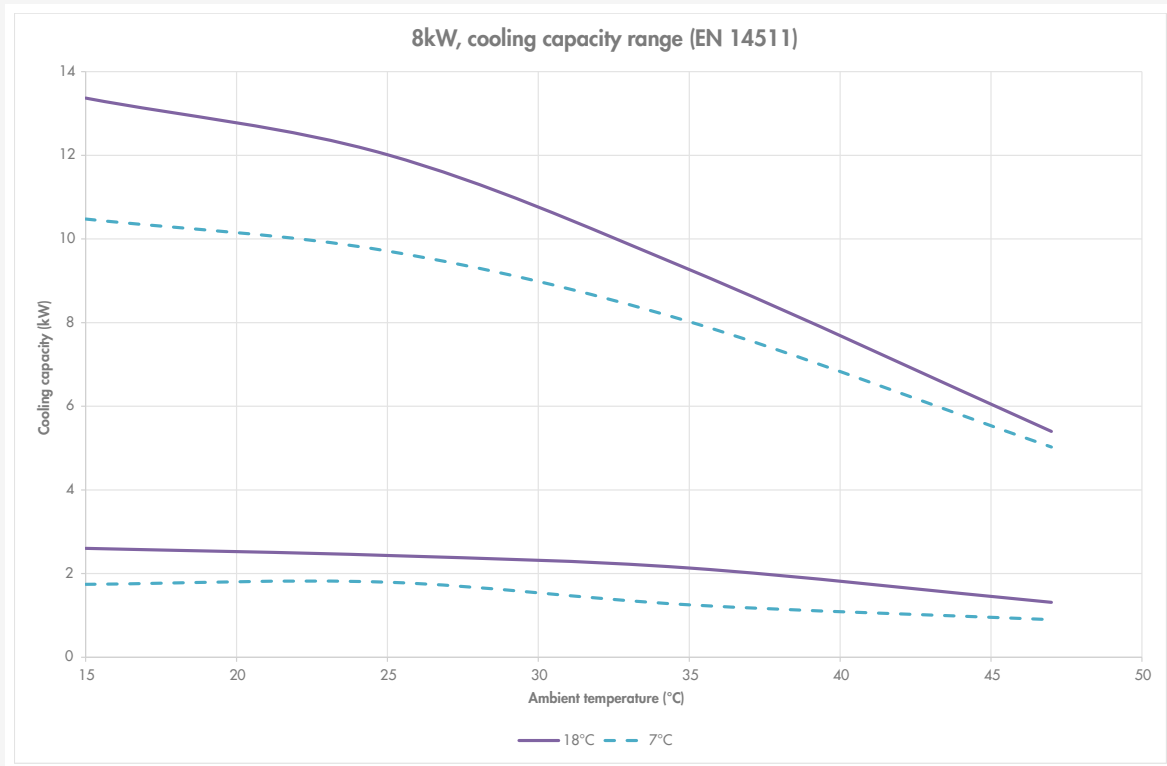
PERFORMANCES ANGHPO6S



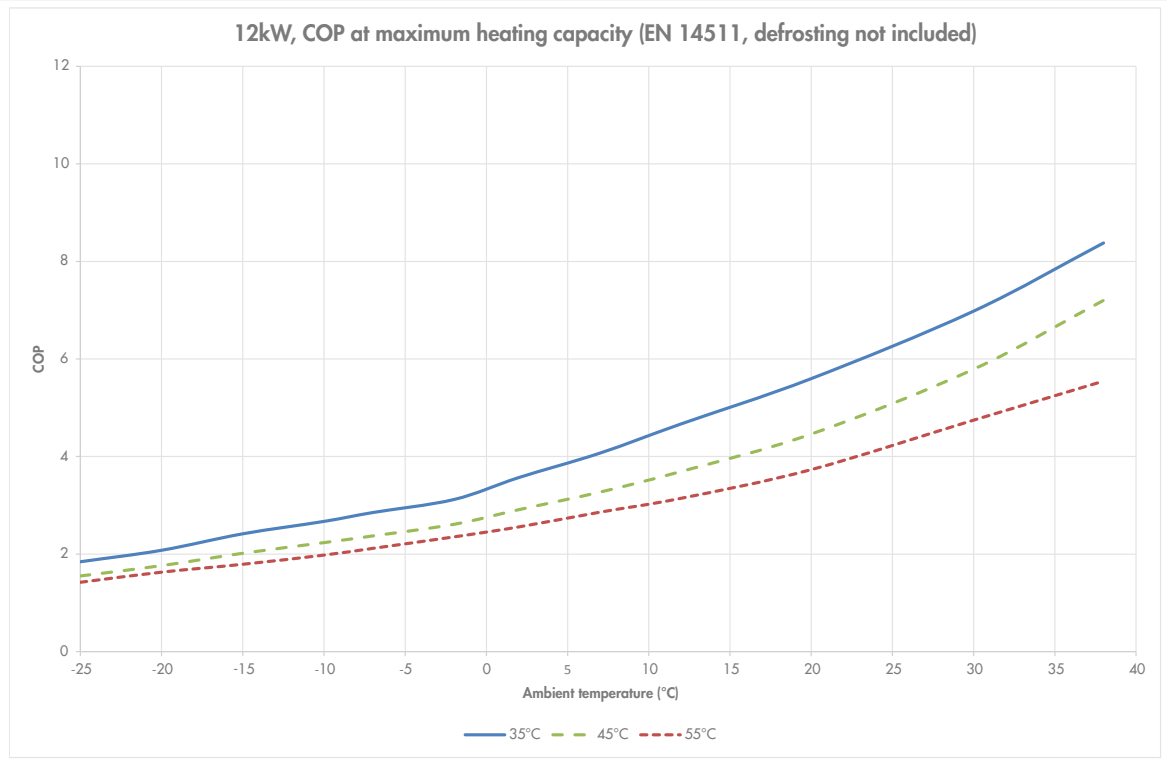
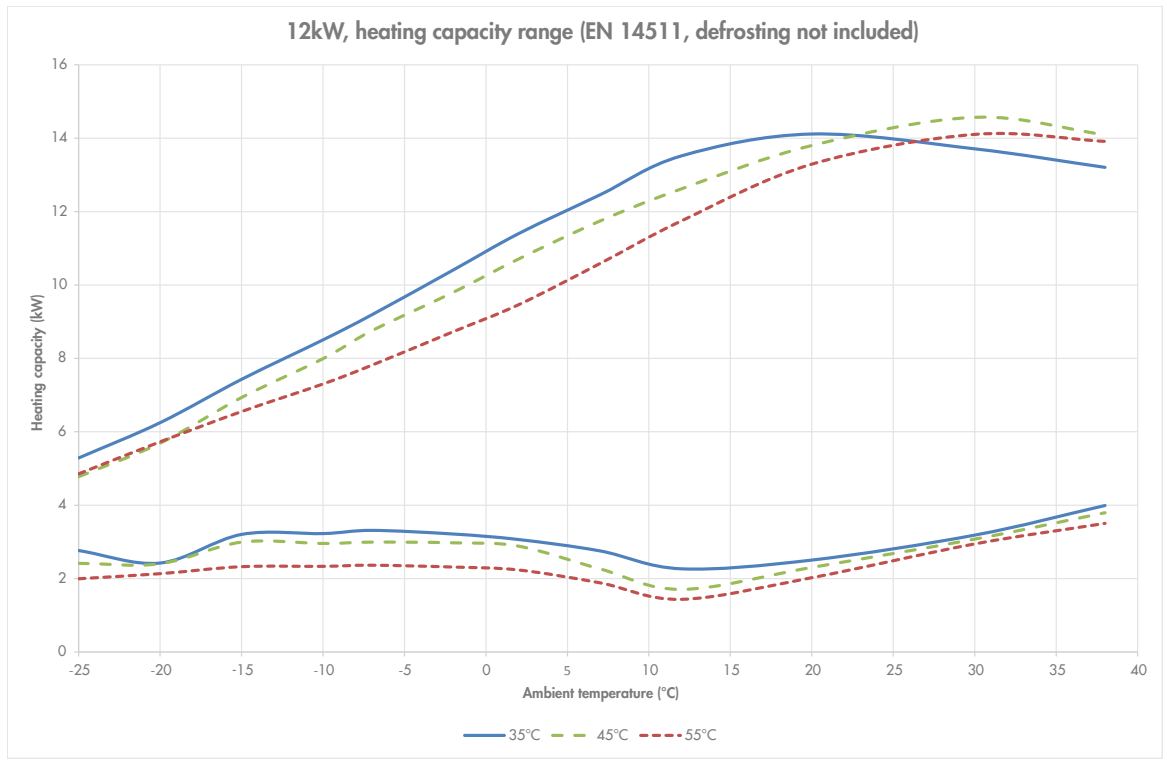


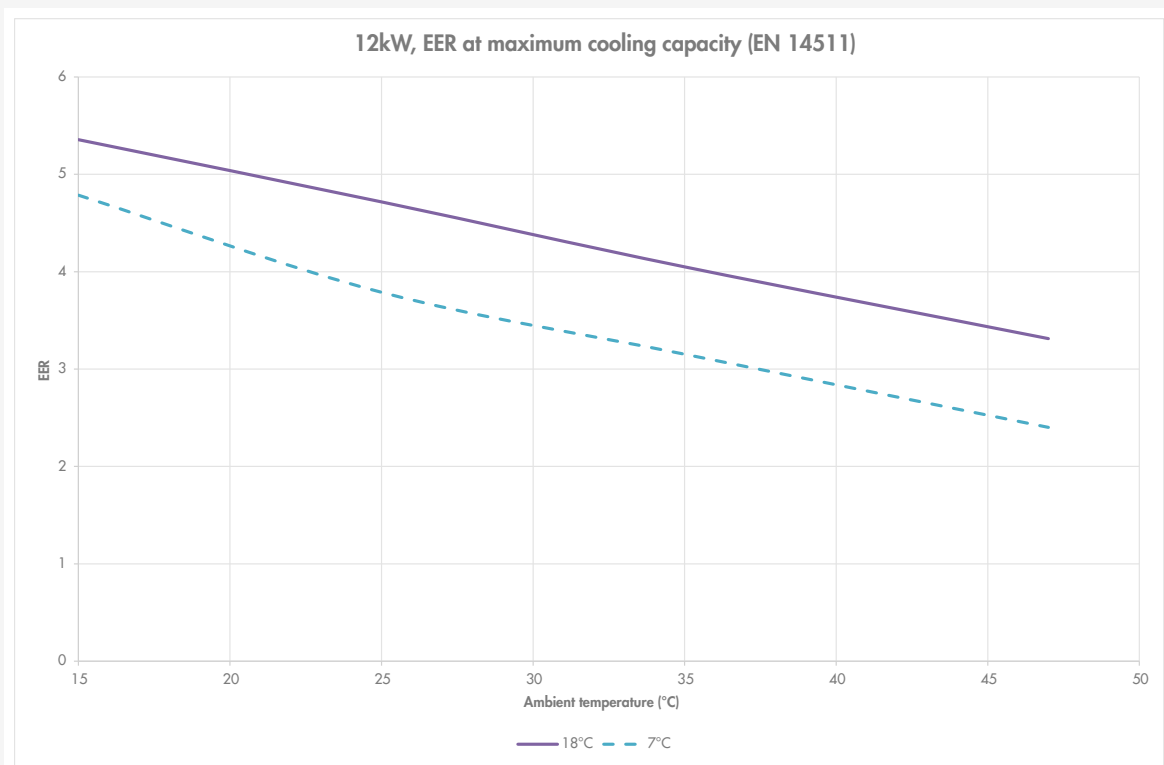
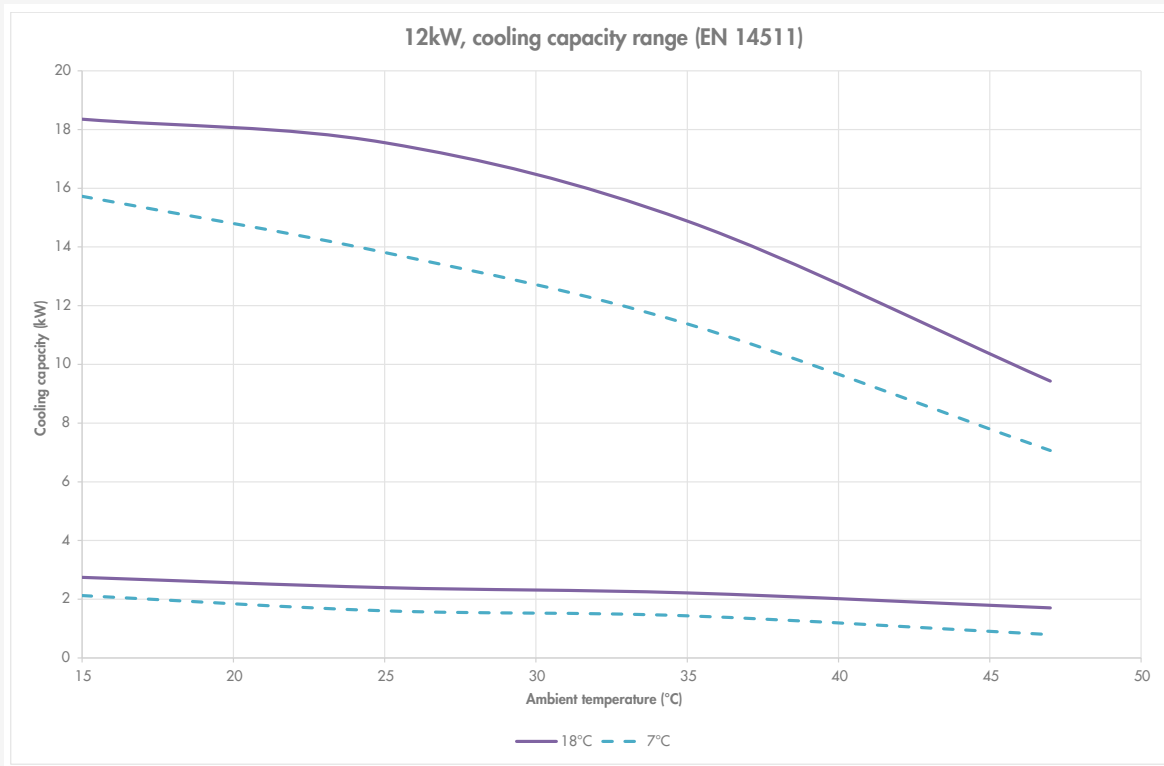
PERFORMANCES ANGHPO8S/T



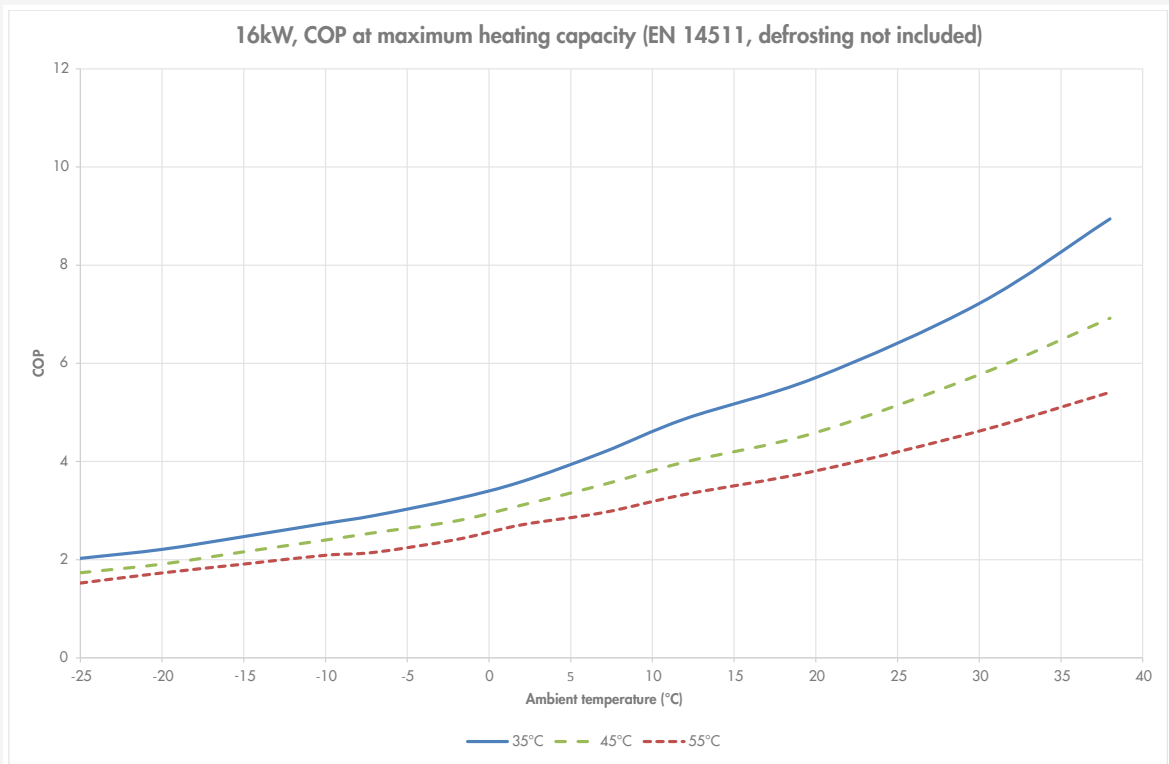
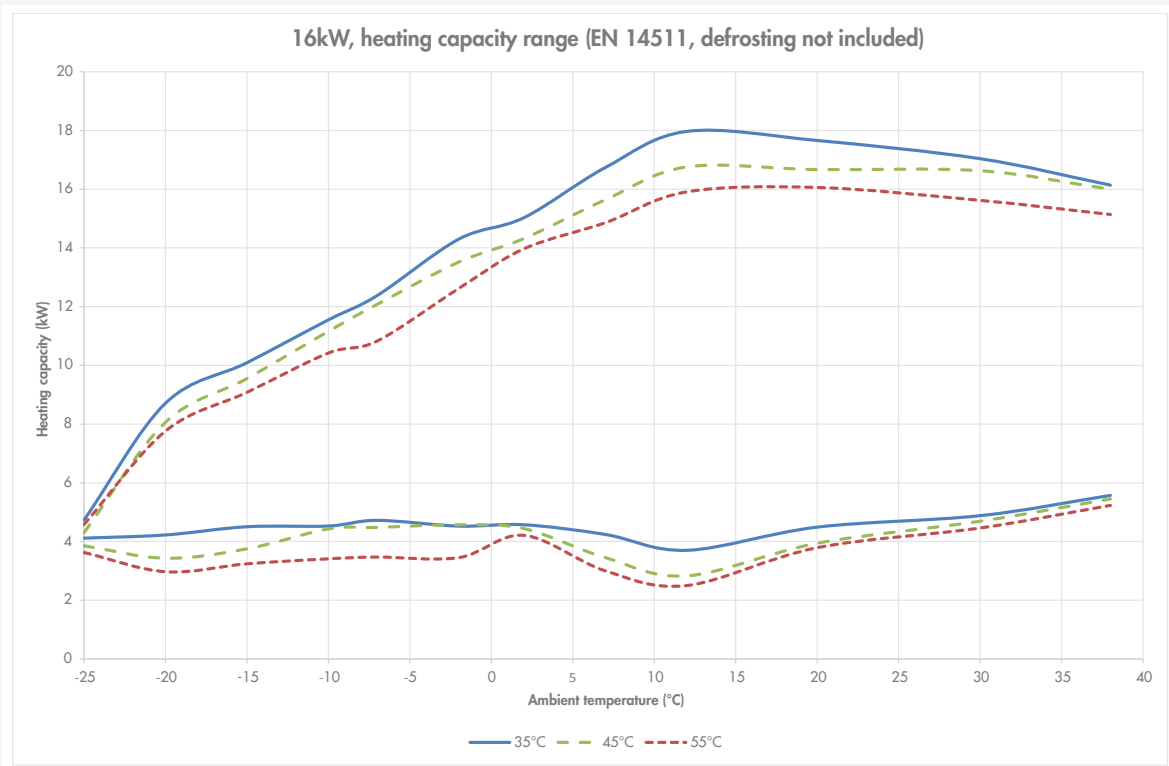


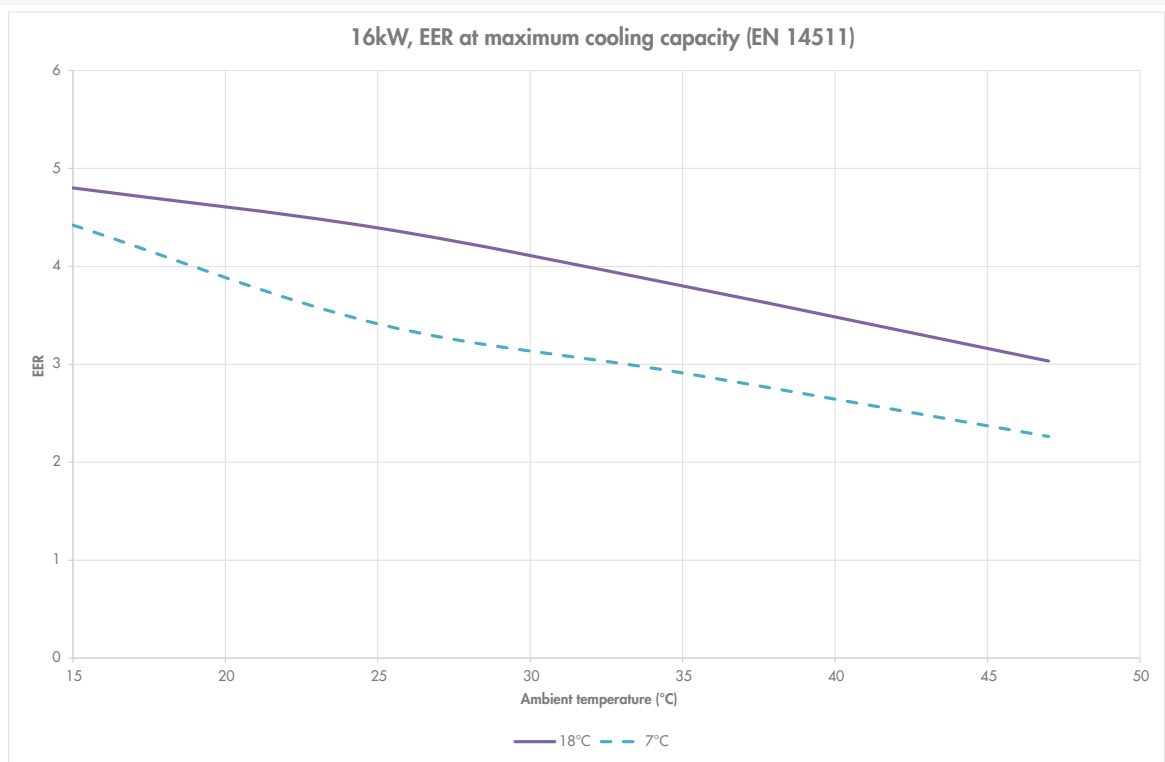
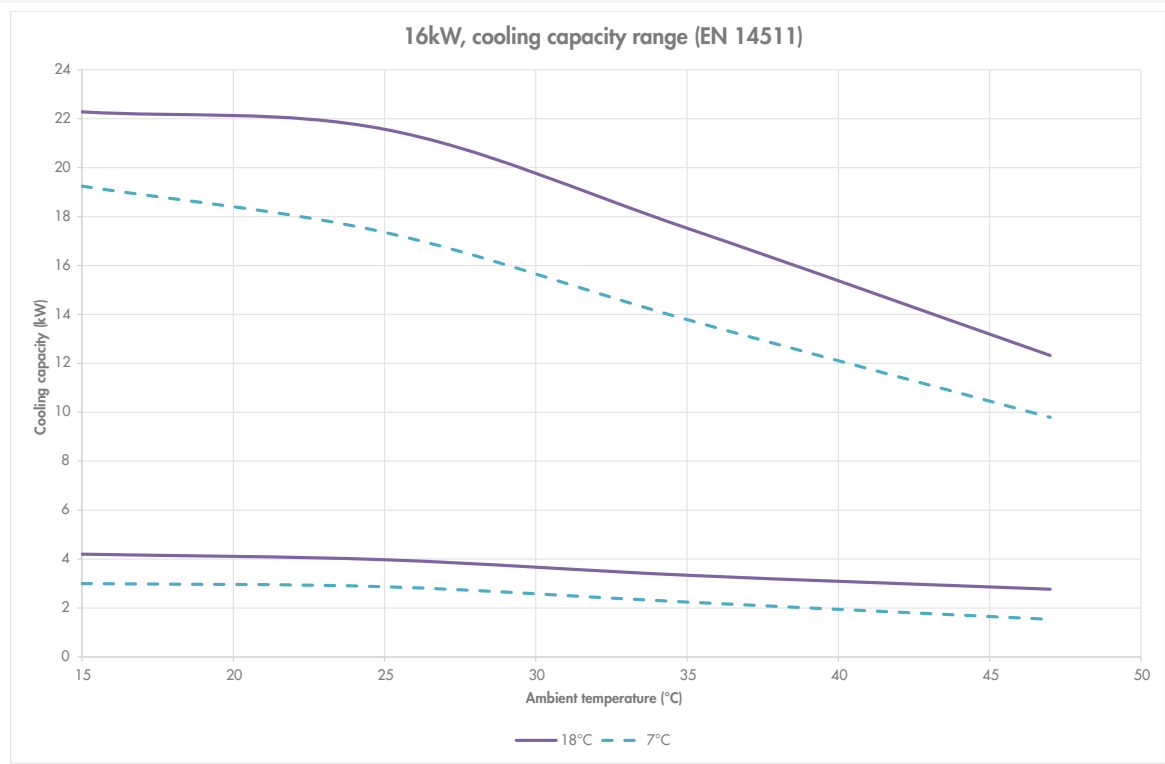
PERFORMANCES ANGHPO12S/T



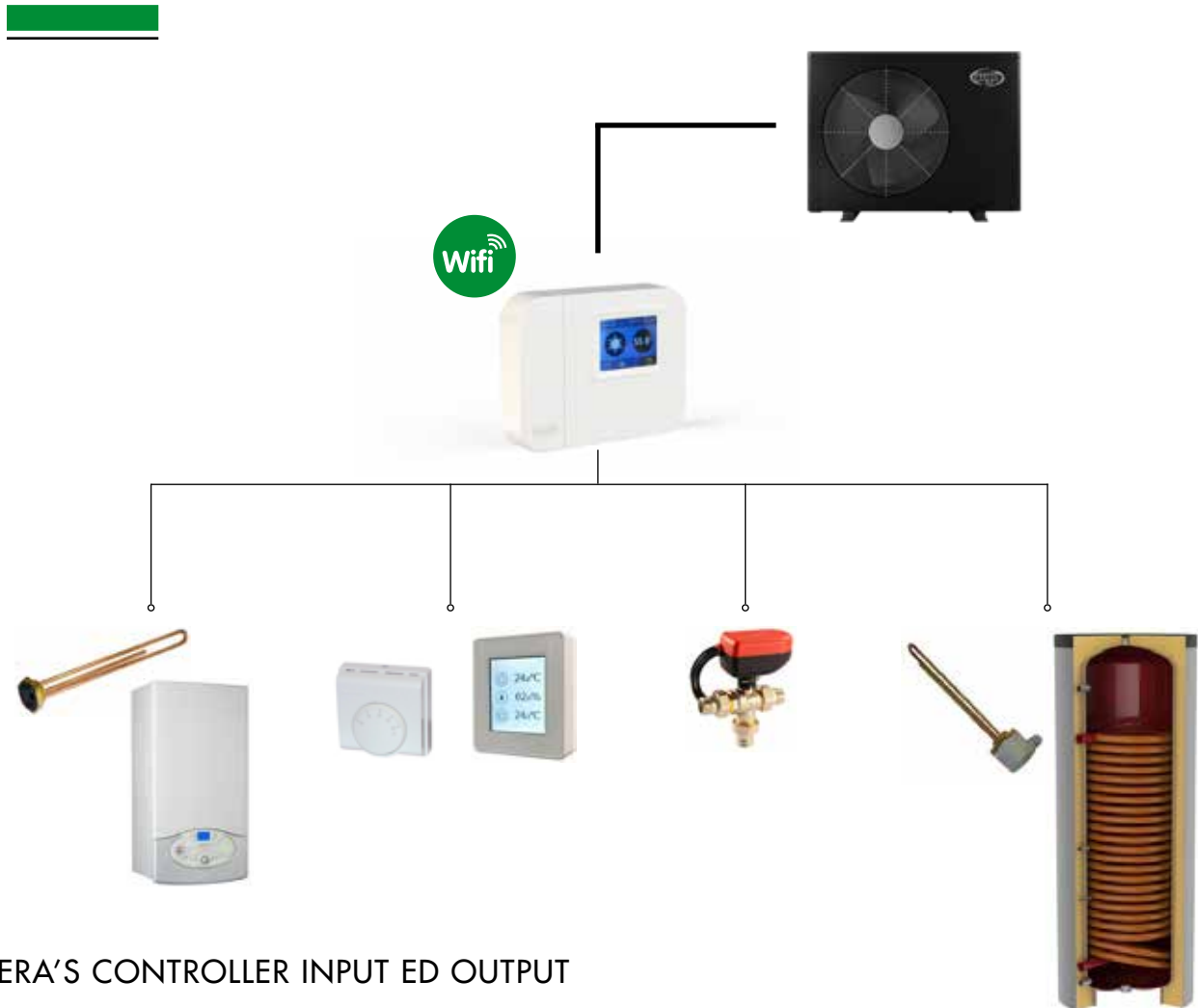


PERFORMANCES ANGHP16S/T





CONNECTIVITY



GENERA'S CONTROLLER INPUT ED OUTPUT

RS485 PORTS

- 1) Dedicated port for ODU communication;
- 2) Secondary port for optional expansion-boards/Modbus for third-party BMS.

DIGITAL INPUTS (dry-contacts)

- 1) ON/OFF: stand by or operation;
- 2) Summer/Winter: Summer/Winter commutation;
- 3) ECO MODE: if the contact is open the maximum usable electrical power is 100%, if closed it can be set with a parameter to a percentage value of the maximum.
- 4) 2 dry contacts for Smart Grid or dynamic set point management (for example with advanced photovoltaic systems)

ANALOG INPUTS

- 1) Additional external air probe input: wiring of a second external probe to measure the temperature in a more suitable position (if necessary). Automatically identified by the unit.
- 2) DHW temperature probe input
- 3) System water temperature probe input (downstream of the integration element)

DIGITAL OUTPUTS

- 1) 230 Vac output for DHW diverting valve servomotor (diversion to DHW);
- 2) 230 Vac output for DHW diverting valve servomotor (repositioning towards the system - optional);
- 3) 230 Vac output for ALARM;
- 4) 230 Vac output for integrative heating element (electrical resistance, boiler, etc.) via specific external relay if necessary;
- 5) 230 Vac output for DHW tank supplementary heating element via specific external relay if necessary

RECOMMENDED OPTIONAL

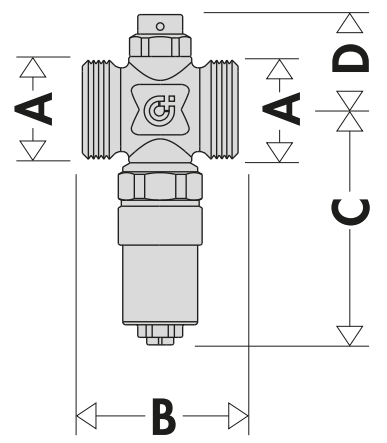
ANTI-FREEZE VALVE



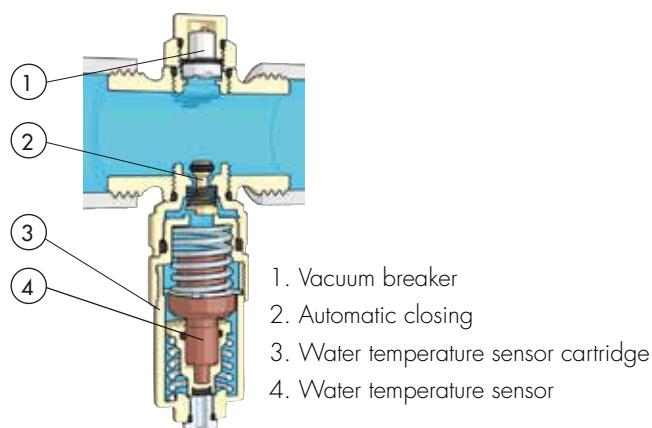
CODE	DESCRIPTION
108602	Anti-freeze valve 1" (1 pcs.)

For the products that don't admit the use of glycole, the antifreeze valve is designed to prevent ice from forming in the pipes. When the fluid temperature reaches 3 °C, the internal sensor opens and allows water to drain from the system. Designed for systems served by monobloc heat pumps, it prevents damage to the unit and system components in the event of a power failure and air temperature below zero. The valve is designed for heat pumps with leaving water temperatures up to 90 °C.

DIMENSIONS (mm)



COMPONENTS

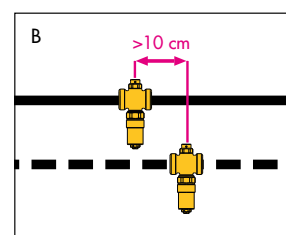
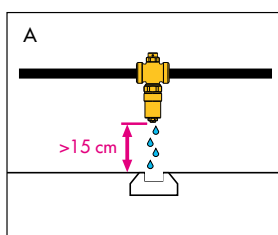


INSTALLATION

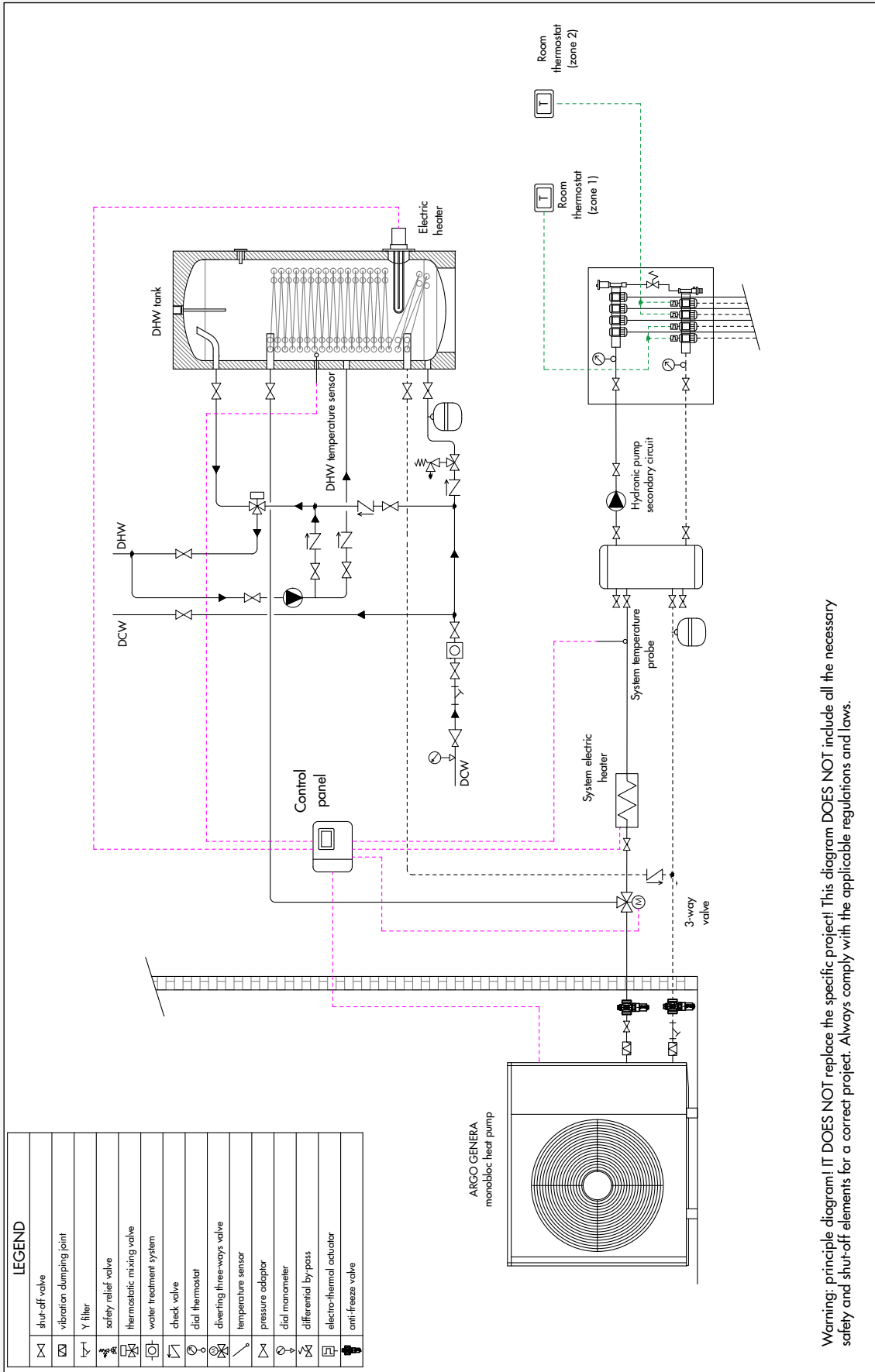
Antifreeze valves must be installed outdoors, where the lowest temperatures can be reached. The device must only be installed in a vertical position, with the outlet facing downwards, to allow the discharged water to flow correctly and without obstructions. Antifreeze valves must be protected from heat sources, rain, snow and direct sunlight. It is recommended to install antifreeze valves on both pipes (outlet and return). The pipes must not have siphons, otherwise frost protection will no longer be guaranteed. The antifreeze valve must be free of insulation for the system to operate correctly. It is recommended to always keep the system under pressure, even during discharge, to ensure the correct functioning of the antifreeze device. Leave at least 15 cm of free space from the ground (fig. A) to prevent the formation of ice. Maintain a distance of at least 10 cm between the antifreeze valves (fig. B).

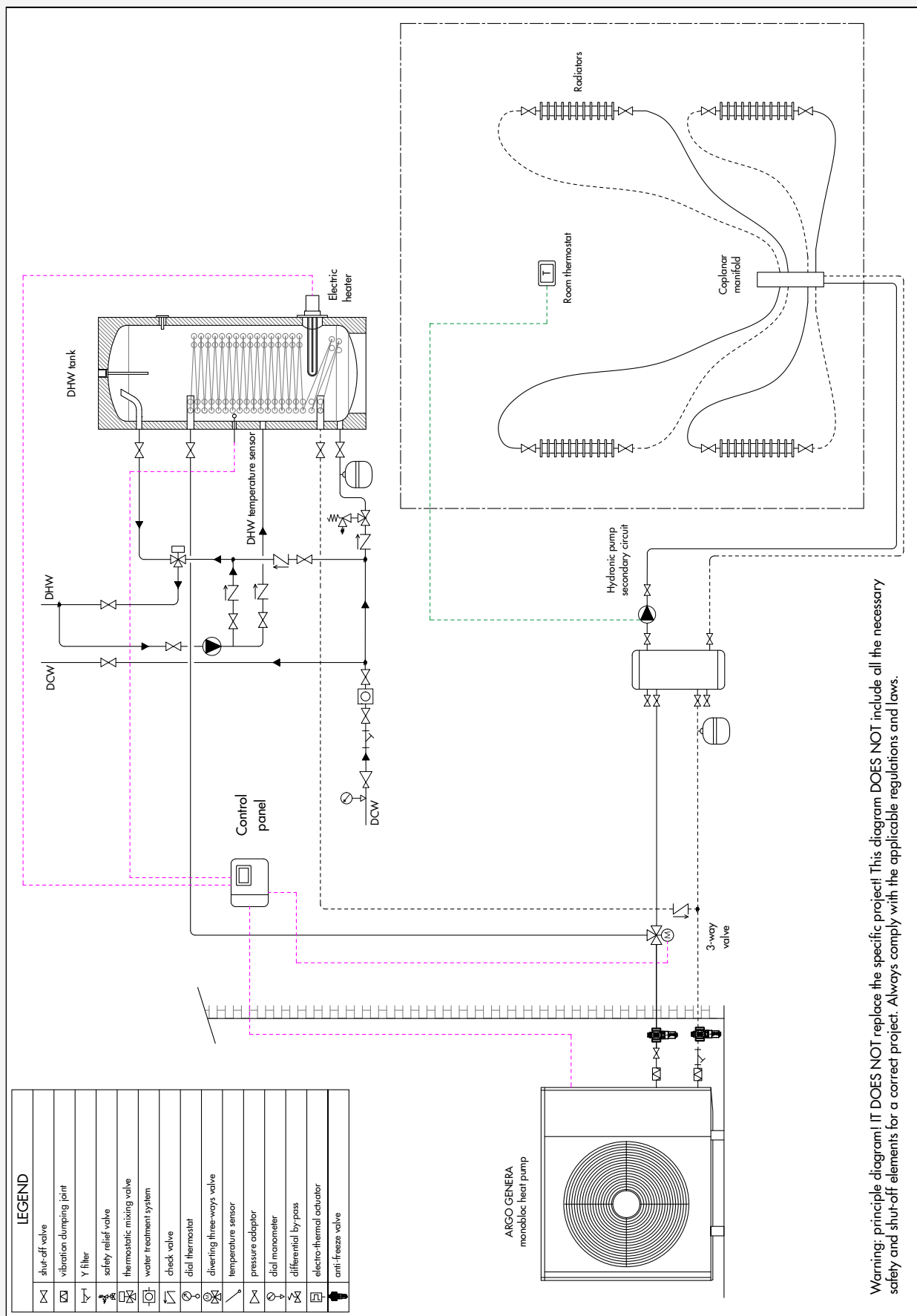
TECHNICAL DATA

Type	Antifreeze valves
Connection dimensions	G 1" (ISO 228-1)
Valve material	brass CW617N UNI EN 12165
Spring material	stainless steel
Gasket material	EPDM
K _{v3}	33 m ³ /h
Max operating pressure	10 bar
Fluid T (open)	+3 °C
Fluid T (close)	+4 °C
Accuracy	±1 °C
Max Fluid T	+90 °C
Fluid	water



INSTALLATION DIAGRAM EXAMPLES





Warning: principle diagram! IT DOES NOT replace the specific project! This diagram DOES NOT include all the necessary safety and shut-off elements for a correct project. Always comply with the applicable regulations and laws.

GENERA INDOOR UNIT



Controller included

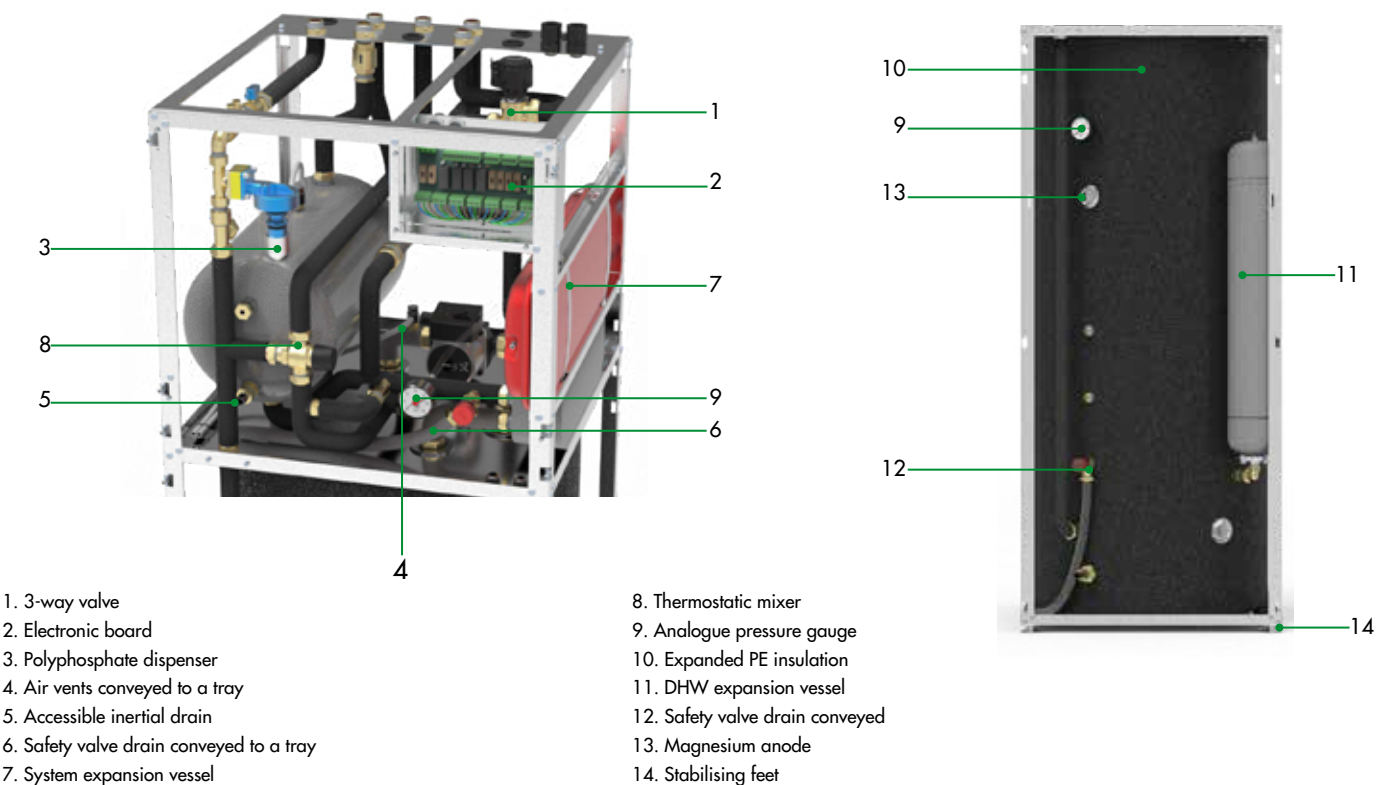


CODE	DESCRIPTION
387030745	Genera indoor unit

CODE	DESCRIPTION
387030756	Recirculation kit
387030757	Solar thermal kit
387030758	DHW resistance kit
387030759	System resistance kit

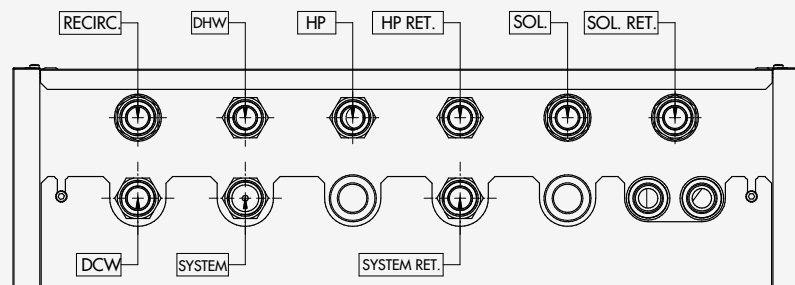
The Genera hydronic indoor unit is the ideal completion of the system that integrates with the furnishings of the kitchen or other rooms of the house. It contains all the hydraulic accessories for a complete system in a metal chassis with a brushed steel finish. It includes a 185 liter DHW tank, a 20-liter buffer tank, a 3-way valve and two expansion vessels, for the system and for the DHW tank. Various optional features are also available to meet all needs: recirculation kit, solar thermal integration kit, DHW resistance kit and heating system resistance kit. The Genera controller is included as standard, which therefore does not need to be purchased separately.

MAIN COMPONENTS

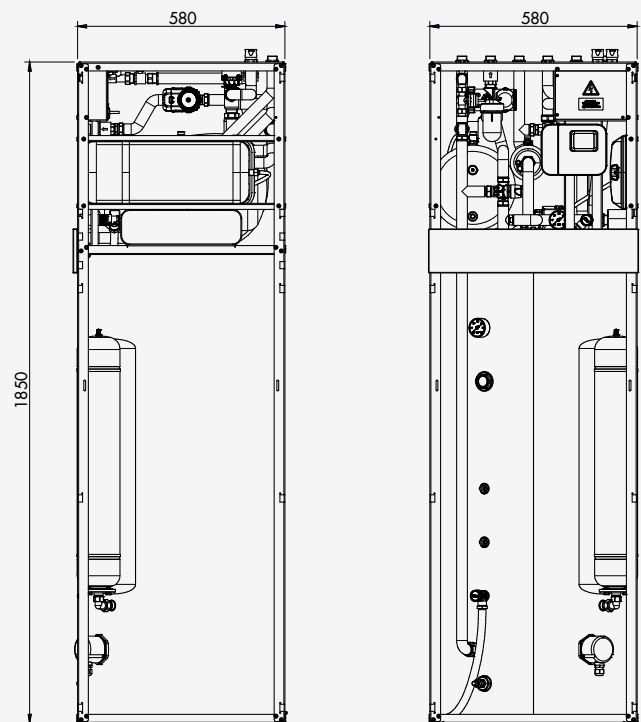


TECHNICAL DATA		GENERA IDU
Power supply	V/Ph/Hz	230/1/50
Max electric consumption (without res.)	W	60
Max electric consumption (with res.)	W	3600
Water connections to heat pump	inch	1"
Other water connections	inch	3/4"
Adjustable by-pass valve	mca	0,3-5
DHW analog pressure gauge	bar	0-6
DHW tank insulation thickness	mm	50
DHW expansion vessel	l	8
System expansion vessel	l	7
DHW tank	l	185
Buffer tank	l	20
Net weight	kg	128
DHW thermostatic valve	°C	35-60
Dimensions (H./W./D.)	mm	1800/580/580
DHW safety valve	bar	10
System safety valve	bar	3

CONNECTION FROM ABOVE



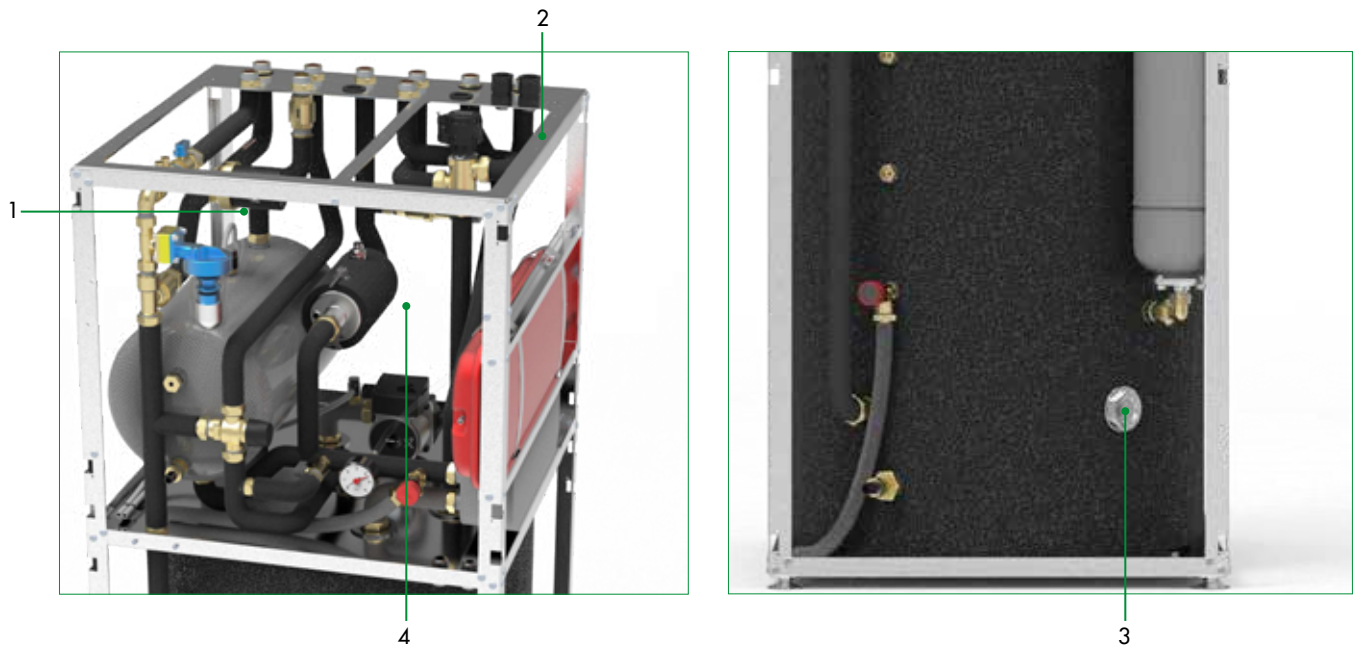
DIMENSIONAL DATA



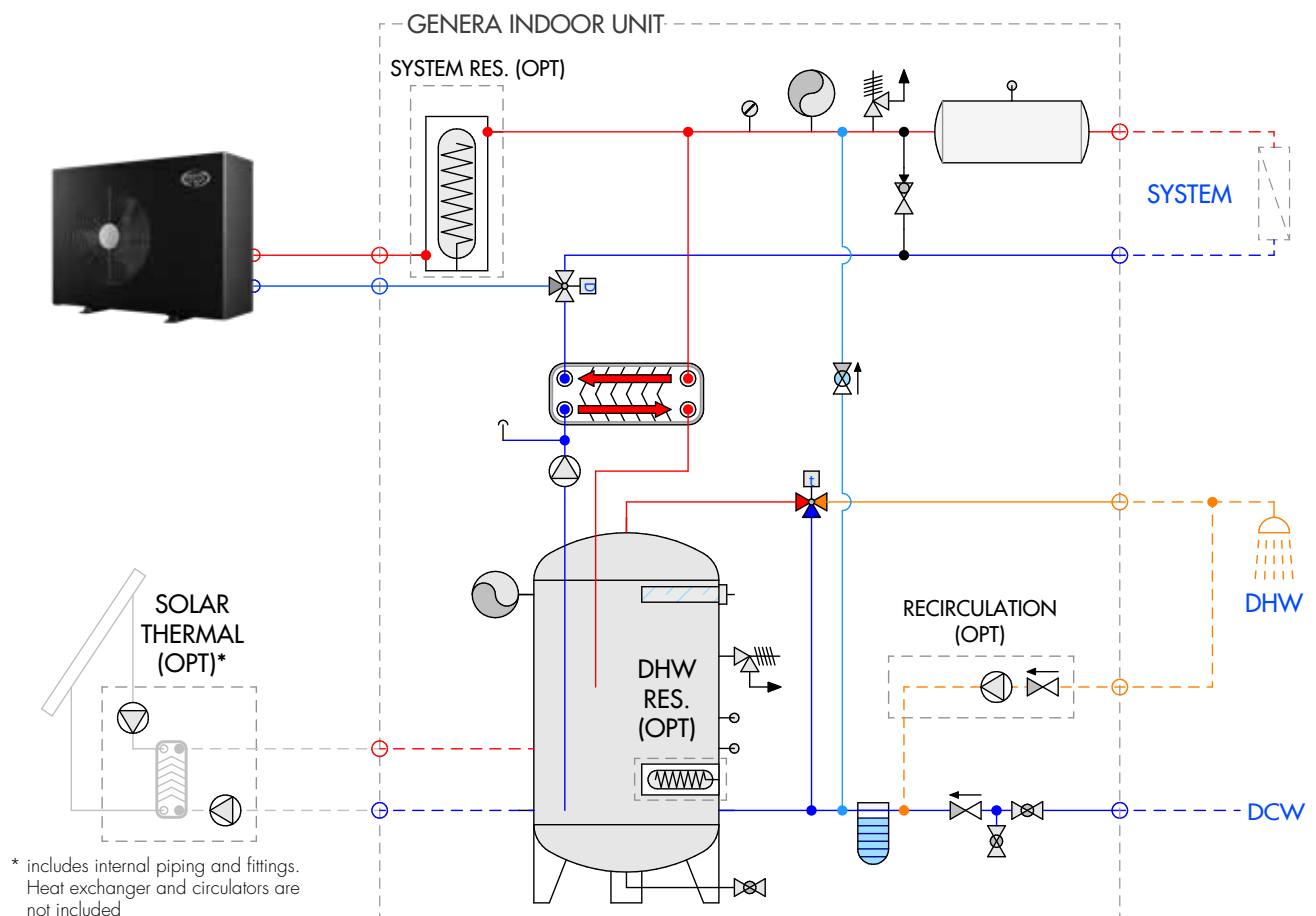
OPTIONAL KIT

The indoor unit can be completed with:

1. recirculation kit (includes pipe section with circulation pump, check valve and relevant fittings)
2. solar thermal integration kit (includes internal piping and relevant fittings; plate heat exchanger and pump not included)
3. DHW resistance kit (includes 2 kW resistance)
4. heating system resistance kit (includes pipe section with 1.5 kW resistance)



SCHEME



This diagram represents the circuits of the internal unit. For the remaining part, the diagram does NOT replace the specific project!
These system diagrams do NOT contain the necessary safety elements for correct installation. Always comply with the local regulations and laws.





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Argo is a brand of Argoclima S.p.A., leading european company in air conditioning, heating and air treatment.