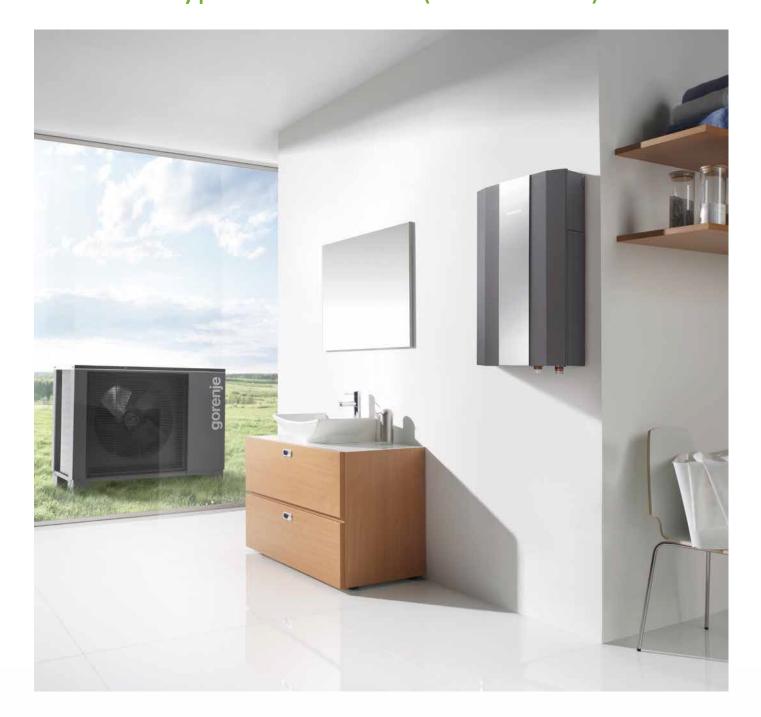
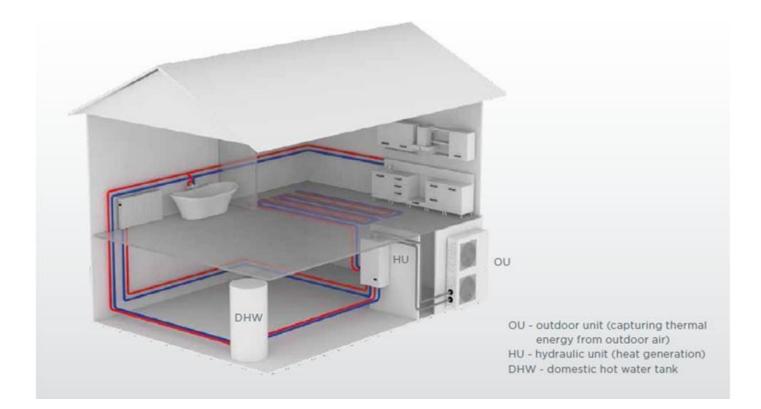
New generation of heat pumps Gorenje Product information Model name: **Aerogor ECO Inverter 10 A** Type: air to water (DC Inverter)



Heating system with heat pump air to water (Aerogor ECO Inverter 10 A)

2



Operating modes - (Aerogor ECO Inverter 10 A)



HEATING MODE

DOMESTIC HOT WATER



ACTIVE COOLING

ADVANTAGES AND CHARACTERISTICS

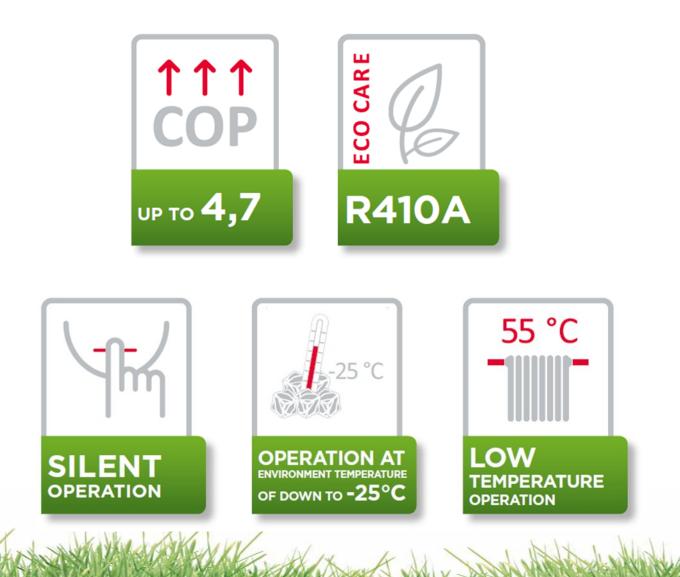
HEAT PUMP Aerogor ECO Inverter

DC Inverter compressor allows optimum adjustment to actual requirements for heating or cooling.

• Low operating expenses resulting from a high COP according to the EN 14511 standard, ranging from 3.8 to 4.7 (A7/W35).

• Maximum heating water temperature of up to 55 °C allows installation of the heat pump in systems with radiator heating.

- Advanced regulation unit allows connection to solar panels and use of heat generated by them.
- performance range from 4 to 10,5 kW,
- Operating range from -25 °C to +45 °C,
- lower heating costs resulting from
- Excellent comfort owing to reversible performance for both heating and cooling.



Outdoor unit - HEAT PUMP Aerogor ECO Inverter 10 A



Indoor unit - Hydrobox Aerogor ECO Inverter 10 A



gorenje

Main components of outdoor unit - HEAT PUMP Aerogor ECO Inverter 10 A



- **1** DC Inverter Fan Motor
- 2 Panasonic DC Inverter
- Compressor
- **3** Electronic expansion valve EEV
- **4** Evaporator Heater
- **5** Compressor Crankcase heater
- 6 Gas piping connections 3/8" 1/2"

Main components of indoor unit - Hydrobox for Aerogor ECO Inverter 10 A

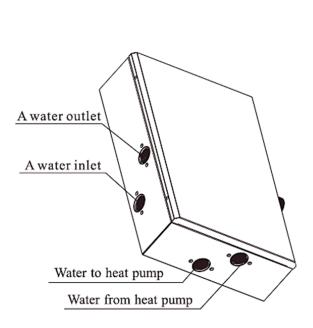
- **1** Plate heat exchanger
- 2 Circulating pump A energy class
- (HALM HEP Plus 25-60 130 E)
- **3** Receiver tank
- 4 Indoor PC board
- 5 Electrical flow heater 3 kW
- **6** Water inlet/outlet piping connections
- 7 Refrigerant connection size 3/8" 1/2"

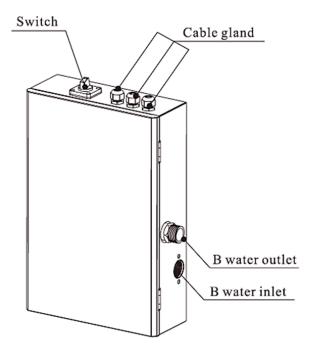


Motorizde 3 way valve kit ECV - 25 L1W for Aerogor ECO Inverter 10 A

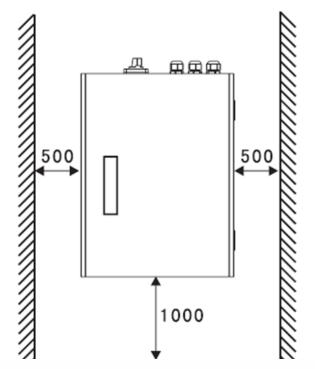
(For the application with DHW tank)

ECV—25L1W: water connections and electrical connections





ECV—25L1W: Installation location

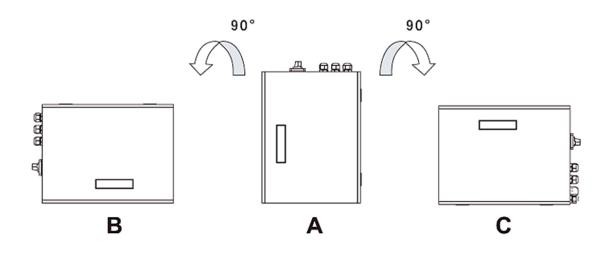


Motorizde 3 way valve kit ECV - 25 L1W for Aerogor ECO Inverter 10 A

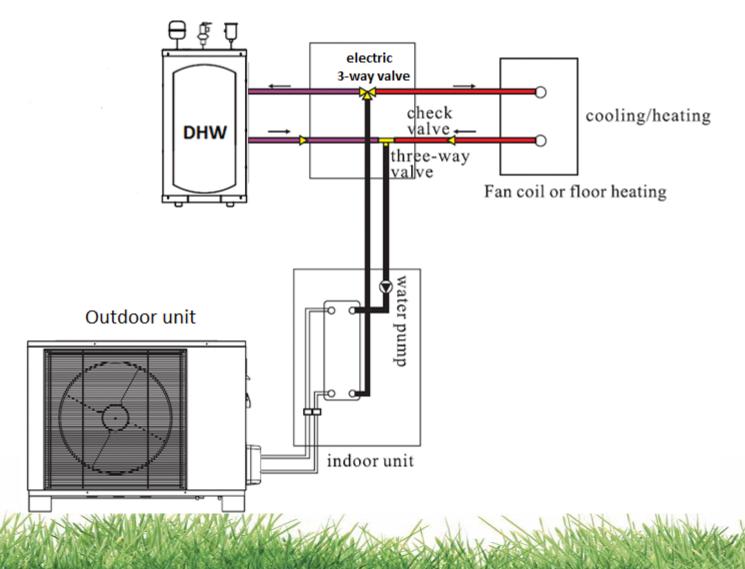
(For the application with DHW tank)

ECV—25L1W: Installation direction

The product can be installed in three ways. Please refer to drawings bellow.



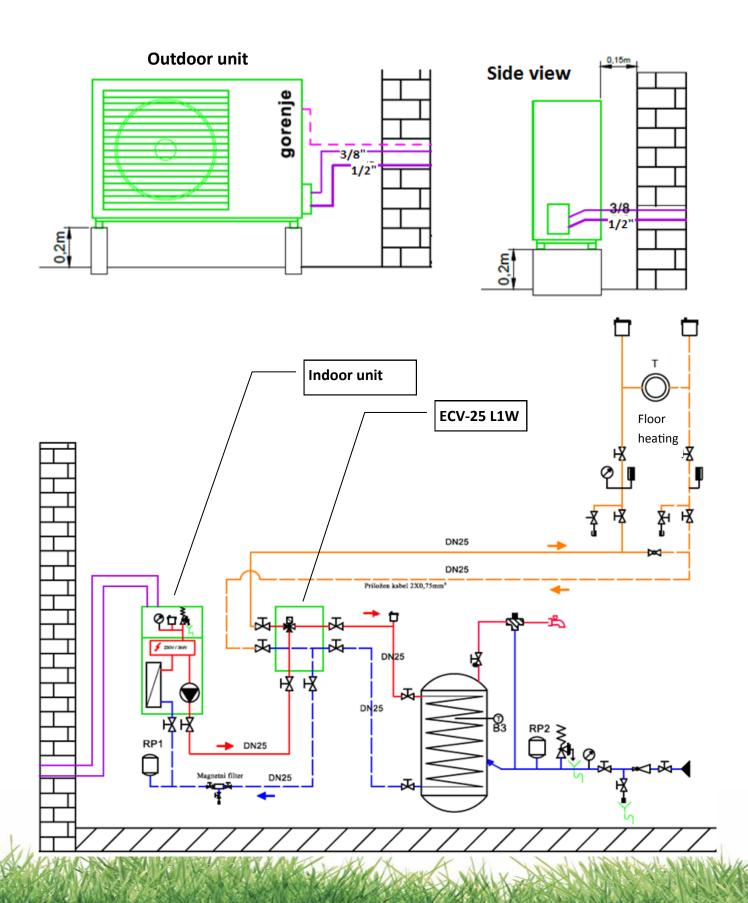
ECV—25L1W: Application system sketch of Aerogor ECO Inverter 10 A with ECV-25L1W + DHW + floor heating systems



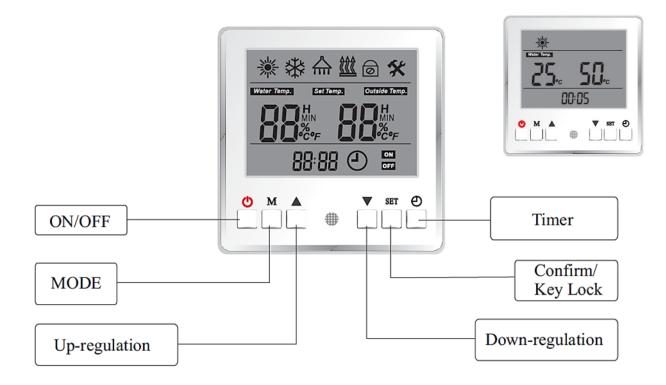
OPTION 1: Application system sketch with HWT (without buffer tank)

(reccomended for underfloor heating systems)

HEAT PUMP Aerogor ECO Inverter 10 A



USER FRIENDLY CONTROL UNIT



The control of the heating system with the control unit

1. The basic configuration controlled one direct heating circuit

The control of the DIRECT heating circuit: Set the temperature (T_{set}) on a flow or return pipe (eg. 30°C or 35°C) or control operation of heat pump with room temperature (in this case is neccesary to install the controller in space - attached is 10 m communication cable)

2. For applications with DHW tank is necessary to install Motorized 3-way valve kit (ECV 25), which include a three-way valve and PCB control, which assume the function of the main control unit. Note: If there is no requirements for regulation of DHW, then Motorized 3-way valve kit is not needed.

For heating systems with mixing heating circuit is needed additional equipment:

- Mixing valve
- Circulating pump
- Extension Module RVS 46.530/101 (code: 414321)
- Sensor of ambient temperature QAC 34/101, sensor for flow pipe (outlet water temperature) NTC 10 K

Advanced room unit:

- Wired QAA75.611/701 (code: 414328) Language package: EN, CZ, SK, PL, TK, RU, HU, SI, GR, SR
- Wireless QAA78.611/701 (code: 414329) Language package: EN, CZ, SK, PL, TK, RU, HU, SI, GR, SR
- Wired QAA75.611/301 (code: 414324) Language package: EN, DE, GR, IT, NL, ES, PT, DK, SE, FI
- Wireless QAA78.611/301 (code: 414325) Language package: EN, DE, GR, IT, NL, ES, PT, DK, SE, FI
- Wirelles Antena AVS71.390/109 (code: 355449)

Technical specification - HEAT PUMP Aerogor ECO Inverter 10 A

Model			Aerogor ECO Inverter 10 A
Power Supply		V/Hz/Ph	220-240/50/1
Refrigerant / mass		Type/kg	R410A/1.94
Fuse		А	16/C
Heating mode (A7/W35)			
Max. Heating Capacity ⁽¹⁾		kW	10.5
C.O.P ⁽¹⁾		W/W	3.79
Heating Capacity Min./Max. ⁽¹⁾		kW	4.5/10.5*
Heating Power Input Min./Max. ⁽¹⁾		kW	0.91/3.05*
C.O.P Min./Max. ⁽¹⁾		W/W	3.8/4.71*
Cooling mode (A35/W7)			
Max. Cooling Capacity ⁽²⁾		kW	6.74
E.E.R ⁽²⁾		W/W	2.65
Cooling Capacity Min./Max. ⁽²⁾		kW	2.17/6.74
Cooling Power Input Min./Max. ⁽²⁾		W	0.92/3.13
E.E.R Min./Max. ⁽²⁾		W/W	2.15/3.00
Circuit Max. Pressure		bar	38
Compressor	Туре		DC Inverter Twin Rotary
	Quantity/System		1
Fan	Quantity		1
	Airflow	m³/h	3200
	Rated power	W	160
Noise Level	Indoor/Outdoor	dB(A)	35/55
Water Side Heat Exchanger	Туре		Plate Heat Exchanger
	Water Pressure Drop	kPa	30
	Piping Connection	Inch	G1"
Allowable Water Flow	Min. Water Flow		0.32 (1.15)
	Rated Water Flow	L/S (m³/h)	0.53 (1.90)
	Max. Water Flow		0.63 (2.27)
Net Dimension(L×D×H)	Outdoor Unit	mm	763*414*1044
	Indoor Unit	mm	414*220*720
Packing Dimension(L×D×H)	Outdoor Unit	mm	805*480*1140
	Indoor Unit	mm	450*250*585
Net Weight	Outdoor	Кg	70
	Indoor Unit	Кg	28
Packing Weight	Outdoor	Kg	72.5

(1) Heating condition: water inlet/outlet temperature: 30°C/35°C, Ambient temperature: DB 7°C/WB 6°C; EN 14511

(2) Cooling condition: water inlet/outlet temperature: 12°C/7°C, Ambient temperature: 35°C. EN 14511

*At maximum compressor frequency 85 Hz and condition A7/W35. Influence of defrost cycle is not included in test results. Due to the impact of defrost cycle heating capacity and COP could decline for approx. 10%.