

HEAT PUMPS

AEROGOR **ECO** INVERTER



ADVANCED INVERTER TECHNOLOGY

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 4.9 (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 13 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.
- The heat pump operates in the temperature range from -25 °C to +45 °C, which means that it will keep your home warm during freezing winter and efficiently cool it on hot summer days.

AEROGOR ECO INVERTER

The system consists of two units:

1 Outdoor unit

2 Indoor unit – Hydrobox



MAIN OUTDOOR UNIT COMPONENTS

The outdoor unit includes key components for highly efficient heat pump operation:

- **DC inverter** compressor featuring compressor frequency control
- Evaporator unit with heat transfer surface 27 m² and excellent heat transfer
- Electronic expansion valve - **EEV**
- Silent axial fan



MAIN INDOOR UNIT COMPONENTS



KEY:

- 1 Heat exchanger -condenser
- 2 Control unit
- 3 Circulation pump (A energy class)
- 4 Electric instantaneous water heater (for bivalent systems)
- 5 Flow - heating circuit
- 6 Return
- 7 Connectors for connection to outdoor unit

Outdoor unit - HEAT PUMP Aerogor **ECO** Inverter 13 A



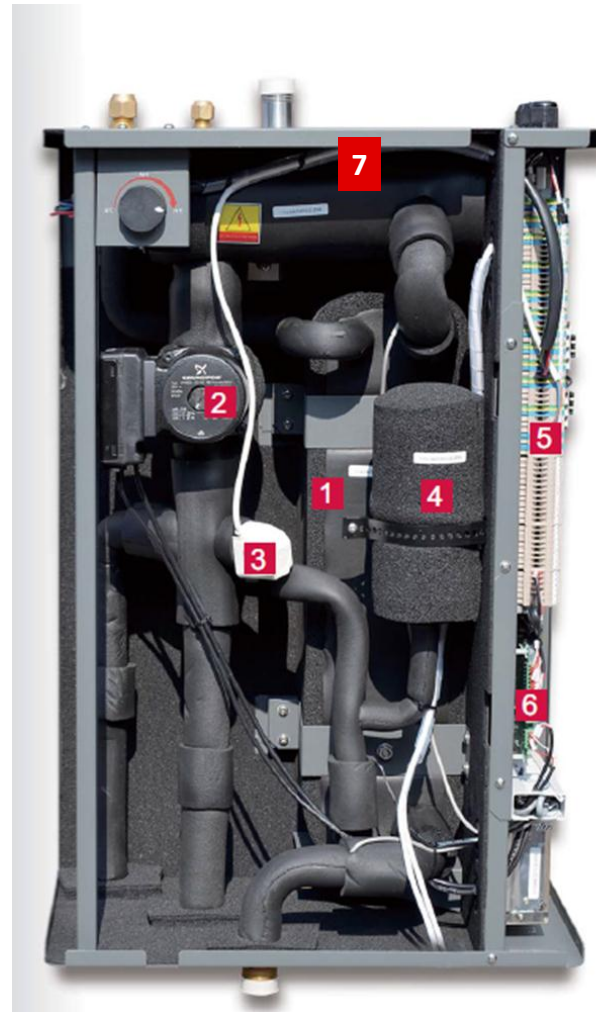
Outdoor unit - HEAT PUMP Aerogor **ECO** Inverter



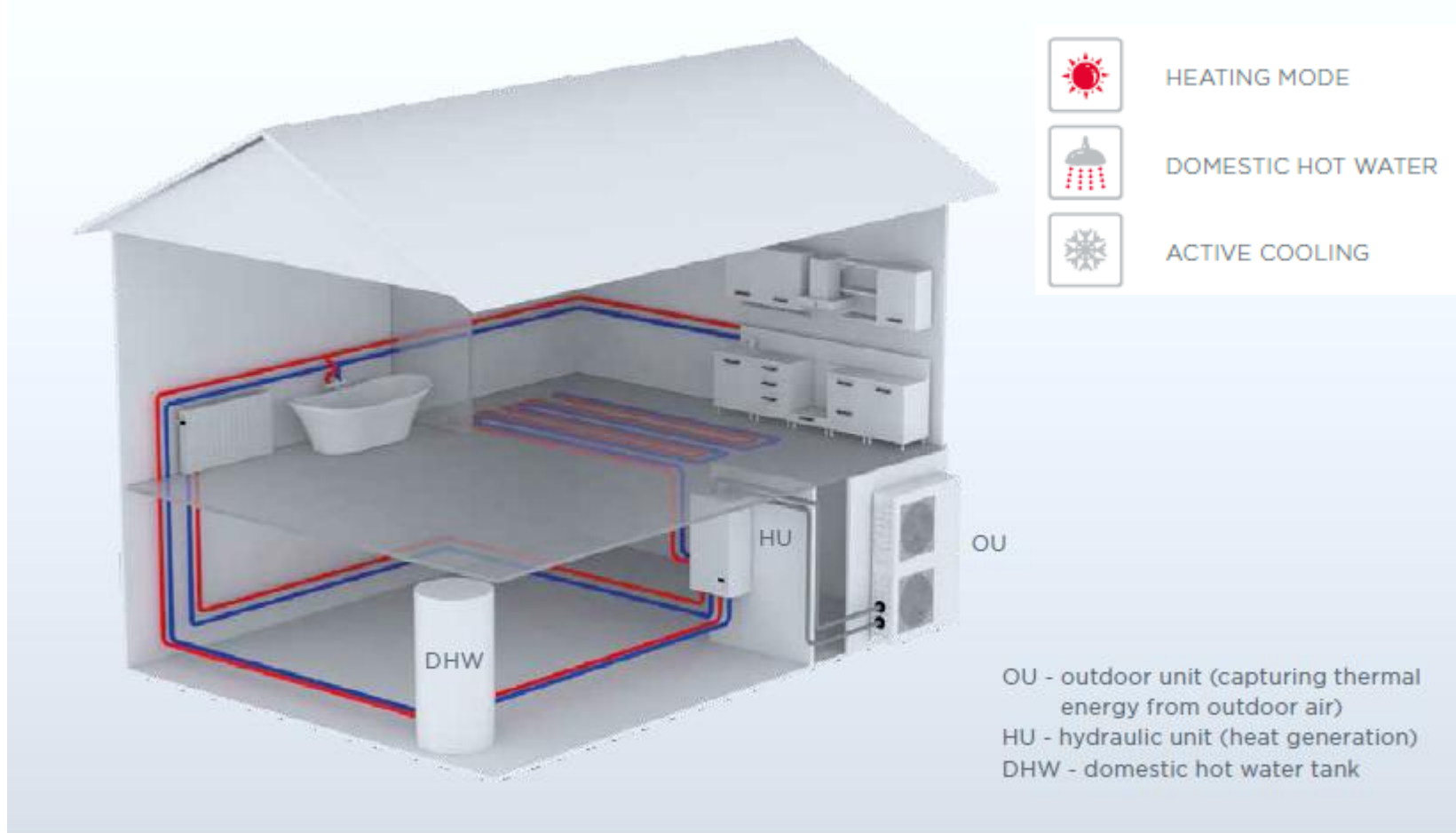
- 1** Panasonic DC Inverter Fan Motor
- 2** Panasonic DC Inverter Compressor
- 3** Carel EEV and EVD Controller
- 4** Evaporator Heater
- 5** Compressor Crankcase heater

Indoor unit - ECO Hydrobox

- 1** Plate heat exchanger (SWEP)
- 2** Circulating pump A energy class (Grundfos UPMGEO 25-85 180)
- 3** Three-way valve (Watts)
- 4** Receiver tank
- 5** Connection terminal
- 6** Indoor PC board
- 7** Electrical heater 3 kW



EXAMPLE OF A HEATING SYSTEM WITH A HEAT PUMP Aerogor **ECO** Inverter



Technical specification

Aerogor ECO Inverter

Model		enota	Aerogor ECO Inverter 10 A	Aerogor ECO Inverter 13 A
Heating (A7/W35)	Heating power	kW	4.5 – 10.5	4.2 - 12.6
	Input power	kW	0.91-3.05	0.90 – 3.16
	COP		3.8 – 4.71	4.0 - 4.91
Cooling (A35/W7)	Cooling power	kW	2.60 – 8.00	2.34 – 7.91
	Input power	kW	1.10 – 3.50	0.97 – 2.98
	EER		2.30 - 3.22	2.4 – 3.03
Voltage		V/Hz/Ph	220-240/50/1	220-240/50/1
Type of compressor			DC inverter (twin rotary)	DC inverter (twin rotary)
Max. temperature of outlet water		°C	55	55
Operating range		°C	-25 do +45	-25 do +45
Type of refrigerant			R410A	R410A
Volume of refrigerant		kg	1,94	2,5

Technical specification

Aerogor ECO Inverter

Model		Enota	Aerogor ECO Inverter 10 A	Aerogor ECO Inverter 13 A
Fan	Type		Axial	Axial
	Air flow	m ³ /h	3200	4100
	Rated power	W	160	120
Heat exchanger – water side	Type		Plate	Plate
	Pressure drop	kPa	8	40
	Dimensions of pipe connections	Inch	G1	G1
Water flow on secondary side of heat exchanger	Min. flow	m ³ /h	1.15	1.32
	Nominal flow	m ³ /h	1.8	2.20
	Max. flow	m ³ /h	2.16	2.63
Sound power level	Indoor unit	dB(A)	29	30
	Outdoor unit	dB(A)	55	56
Net dimensions	Indoor unit (VxŠxG)	mm	720×220×414	765x280x509
	Outdoor unit (VxŠxG)	mm	1044×763×414	1123x400x1195
Net weight	Indoor unit	kg	28	55
	Outdoor unit	kg	70	113