

- The thermal power control can modulate within a large range (25-100%) and control the flow of the brine and the production circuit.
- Integrated management of up to 5 different distribution temperatures, 2 different buffer tanks (1 for cooling and 1 for heating), 1 DHW tank, 1 pool and the daily schedule of DHW recirculation.
- Integrated management of external variable or ON/OFF auxiliary systems such as boilers or electric resistances.
- Management of cascade systems up to 6 units.
- Integrated management of simultaneous heating/cooling systems according to the scheme.
- Passive Cooling management.
- Integrated Active cooling in HP3 models.
- Three-phase electrical power supply.
- Compatibility with e-manager and e-system
- Integrated energy meters to measure the electric consumption, the heating/cooling thermal power, the COP and the monthly and annual SPF.



| SPECIFICATIONS ECOGEO HP 12-40            |  | UNITS | HP1   | HP3          |
|---|--|-------|---|--------------|
| APPLICATION                               | Place of installation                                      | -     | Indoors   |              |
|   | Type of brine system                                       | -     | Ground source / Air source <sup>1</sup> / Hybrid <sup>1</sup> |              |
|   | Heating, DHW in external tank and pool                     | -     | ✓   |              |
|   | Integrated Active cooling                                  | -     | ✓*  | ✓**          |
|   | External Passive cooling management                        | -     | ✓   |              |
| PERFORMANCE                               | Modulation range of the compressor                         | %     | 25 to 100   |              |
|   | Heating power <sup>2</sup> , B0W35                         | kW    | 10,7 to 44,6  |              |
|   | COP <sup>2</sup> , B0W35                                   | -     | 4,6   |              |
|   | Active cooling power <sup>2</sup> , B35W7                  | kW    | -   | 11,3 to 45,8 |
|   | EER <sup>2</sup> , B35W7                                   | -     | -   | 4,4          |
|   | Max. DHW temperature without support                       | °C    | 60  |              |
|   | Max. DHW temperature with support                          | °C    | 70  |              |
|   | Noise emission level <sup>3</sup>                          | db    | 43 to 58  |              |
|   | Energy label / η <sub>a</sub> with average climate control | -     | A++ / 187%  |              |
| WORKING LIMITS                            | Distribution / Set heating outlet temperature range        | °C    | 10 to 60 / 20 to 60   |              |
|   | Distribution / Set cooling outlet temperature range        | °C    | 4 to 35 / 7 to 25   |              |
|   | Brine inlet temperature range                              | °C    | -20 to +35  |              |
|   | Brine outlet temperature in cooling mode range             | °C    | 10 to 60  |              |
|   | Refrigerant circuit pressure min / max                     | bar   | 2 / 45  |              |
|   | Heating / Cooling circuit pressure                         | bar   | 0,5 to 3  |              |
|   | Brine circuit pressure                                     | bar   | 0,5 to 3  |              |
| WORKING FLUIDS                            | R410A Refrigerant load                                     | kg    | 4   | 4,2          |
|   | Compressor oil type / load                                 | kg    | POE / 3,3   |              |
| CONTROL ELECTRICAL DATA                   | 1/N/PE 230 V / 50-60 Hz                                    | -     | ✓   |              |
|   | Maximum external recommended protection <sup>4</sup>       | A     | C16A  |              |
|   | Transformer primary circuit fuse                           | A     | 0,5A  |              |
|   | Transformer secondary circuit fuse                         | A     | 2,5   |              |
| ELECTRICAL DATA: THREE-PHASE POWER SUPPLY | 3/N/PE 400 V / 50-60Hz                                     | -     | ✓   |              |
|   | Maximum external recommended protection <sup>4</sup>       | A     | C25A  |              |
|   | Maximum consumption <sup>2</sup> , B0W35                   | kW/A  | 10,9 / 17,7   |              |
|   | Maximum consumption <sup>2</sup> , B0W55                   | kW/A  | 15,5 / 24,6   |              |
|   | Starting current min/max                                   | A     | 9,8   |              |
| DIMENSIONS/WEIGHT                         | Correction of cosine Ø                                     | -     | 0,96-1  |              |
|   | Height x width x depth                                     | mm    | 1000x950x900  |              |
|   | Empty weight (without assembly)                            | kg    | 280   | 285          |

1. With the use of the source manager.
2. According to EN 14511, including circulation pumps and Inverter.
3. According to EN 12102, with the acoustic isolation kit of the compressor.
4. The maximum consumption can vary significantly with operation conditions, or if the operating range of the compressor is limited. Check the service manual for more details.

\* Depends on the scheme

\*\* The Reverse cycle is made internally by means of the 4-way-valve

Note: Circulating pumps of the primary and secondary circuits not included.

# HEAT PUMP: ecoGEO 12-40

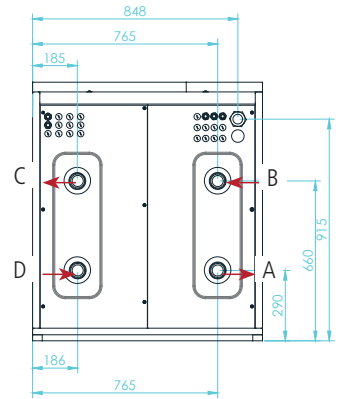
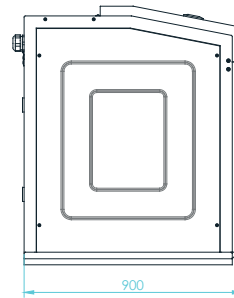
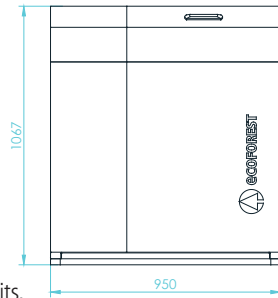
ecoGEO HP

35 / 55 °C



A++

ecoGEO 12-40



- SUPERVISOR-connection of two or more units.
- SOURCE MANAGER

A. Primary Outlet / 2" M  
 B. Primary Inlet / 2" M  
 C. Secondary Outlet / 2" M  
 D. Secondary Inlet / 2" M

