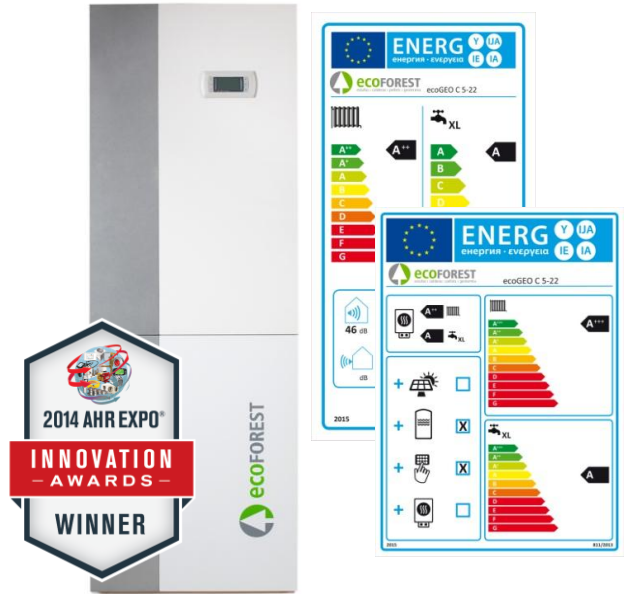


# ecoGEO COMPACT 5-22 kW



- Ⓐ Modulating thermal power control over a wide range (25-100%) and modulating flow control in brine and production circuits (20-100%)
- Ⓐ Compact design includes brine and production circulation pumps and expansion vessels of 8 and 12 liters in brine and production circuits respectively
- Ⓐ High temperature recovery system (HTR) for DHW production up to 70 °C without electrical support
- Ⓐ Integrated management of simultaneously heating, cooling and DHW production
- Ⓐ Integrated management of up to 4 different outlet temperatures, two different buffer tanks (1 for heating and 1 for cooling), 1 DHW tank and 1 pool
- Ⓐ Integrated management of modulating air units, both in air source systems and in hybrid (air source + ground source) systems
- Ⓐ Integrated management of external auxiliary systems like boilers or electrical resistances
- Ⓐ Integrated management of up to 3 units in cascade
- Ⓐ Integrated energy meters for electrical consumption, heating and cooling power, COP and monthly and annual SPF measurement



| TECHNICAL DATA                             |   | Unit        | C1 5-22                         | C2 5-22          | C3 5-22          | C4 5-22          |
|--|---|-------------|---------------------------------|------------------|------------------|------------------|
| Application                                | Installation site                                     | -           | Interior                        | Interior         | Interior         | Interior         |
|  | Type of brine system                                  | -           | Ground source/Air source/Hybrid |                  |                  |                  |
|  | Heating   | -           | ✓                               | ✓                | ✓                | ✓                |
|  | Stainless steel DHW tank 165 liters                   | -           | ✓                               | ✓                | ✓                | ✓                |
|  | High Temperature Recovery system HTR                  | -           | Optional                        | Optional         | ✓                | ✓                |
|  | Active cooling integrated                             | -           | -                               | -                | ✓                | ✓                |
|  | Passive cooling integrated                            | -           | -                               | ✓                | -                | ✓                |
|  | Control of external passive cooling                   | -           | ✓                               | ✓                | ✓                | ✓                |
| Features                                   | Emergency electrical resistance Integrated            | -           | Optional                        | Optional         | Optional         | Optional         |
|  | Modulation range of the compressor                    | %           | 25 to 100                       | 25 to 100        | 25 to 100        | 25 to 100        |
|  | Heating output <sup>1</sup> , B0W35                   | kW          | 6 to 25,9                       | 6 to 25,9        | 6 to 25,9        | 6 to 25,9        |
|  | COP <sup>1</sup> , B0W35                              | -           | 4,9                             | 4,9              | 4,9              | 4,9              |
|  | Active cooling power <sup>1</sup> , B35W7             | kW          | --                              | --               | 7 to 29          | 7 to 29          |
|  | EER <sup>1</sup> , B35W7                              | -           | --                              | --               | 5,5              | 5,5              |
|  | Passive cooling power <sup>2</sup> , B16W19/B16W23    | kW          | --                              | 4/9,3            | --               | 4/9,3            |
|  | Max. DHW temperature without support                  | °C          | 58                              | 58               | 58               | 58               |
|  | DHW production rate without support                   | °C/min      | 1,9                             | 1,9              | 1,9              | 1,9              |
|  | Max. DHW temperature with support <sup>3</sup>        | °C          | 70                              | 70               | 70               | 70               |
| Working limits                             | Noise emission level <sup>4</sup>                     | dB          | 35 to 46                        | 35 to 46         | 35 to 46         | 35 to 46         |
|  | Energy label with control                             | -           | A+++                            | A+++             | A+++             | A+++             |
|  | Heating outlet temperature                            | °C          | 20 to 60                        | 20 to 60         | 20 to 60         | 20 to 60         |
|  | Cooling outlet temperature                            | °C          | 4 to 35                         | 4 to 35          | 4 to 35          | 4 to 35          |
|  | Brine inlet temperature                               | °C          | -10 to 35                       | -10 to 35        | -10 to 35        | -10 to 35        |
|  | Refrigerant circuit pressure                          | bar         | 2 to 45                         | 2 to 45          | 2 to 45          | 2 to 45          |
|  | Heating/cooling circuit pressure                      | bar         | 0,5 to 3                        | 0,5 to 3         | 0,5 to 3         | 0,5 to 3         |
| Working fluids                             | Brine circuit pressure                                | bar         | 0,5 to 3                        | 0,5 to 3         | 0,5 to 3         | 0,5 to 3         |
|  | DHW tank maximum pressure                             | bar         | 8                               | 8                | 8                | 8                |
|  | Type of refrigerant/Refrigerant charge                | kg          | R410A/1,70                      | R410A/1,70       | R410A/2,00       | R410A/2,00       |
| Electrical data: Single-phase power supply | Type of compressor oil/Oil charge                     | kg          | POE/1,18                        | POE/1,18         | POE/1,18         | POE/1,18         |
|  | Recommended antifreeze for brine circuit <sup>5</sup> | -           | Propylene glycol                | Propylene glycol | Propylene glycol | Propylene glycol |
|  | 1/N/PE 230 V / 50-60 Hz                               | -           | ✓                               | ✓                | ✓                | ✓                |
|  | Maximum external recommended protection <sup>6</sup>  | A           | C40A                            | C40A             | C40A             | C40A             |
|  | Maximum electrical consumption <sup>1</sup> , B0W35   | kW/A        | 5,8/25,2                        | 5,8/25,2         | 5,8/25,2         | 5,8/25,2         |
|  | Maximum electrical consumption <sup>1</sup> , B0W55   | kW/A        | 8,5/36,8                        | 8,5/36,8         | 8,5/36,8         | 8,5/36,8         |
| Electrical data: Three-phase power supply  | Starting current                                      | A           | 11,1                            | 11,1             | 11,1             | 11,1             |
|  | cos φ correction                                      | -           | 0,96-1                          | 0,96-1           | 0,96-1           | 0,96-1           |
|  | 3/N/PE 400 V / 50-60 Hz                               | -           | ✓                               | ✓                | ✓                | ✓                |
|  | Maximum external recommended protection <sup>6</sup>  | A           | C16A                            | C16A             | C16A             | C16A             |
|  | Maximum electrical consumption <sup>1</sup> , B0W35   | kW/A        | 5,8/8,4                         | 5,8/8,4          | 5,8/8,4          | 5,8/8,4          |
|  | Maximum electrical consumption <sup>1</sup> , B0W55   | kW/A        | 8,5/12,2                        | 8,5/12,2         | 8,5/12,2         | 8,5/12,2         |
| Dimensions and weight                      | Starting current                                      | A           | 3,7                             | 3,7              | 3,7              | 3,7              |
|  | cos φ correction                                      | -           | 0,96-1                          | 0,96-1           | 0,96-1           | 0,96-1           |
| Other Data                                 | Height x width x depth                                | mm          | 1804 x 600 x 710                | 1804 x 600 x 710 | 1804 x 600 x 710 | 1804 x 600 x 710 |
|  | Unladen weight (without packaging)                    | kg          | 247                             | 255              | 247              | 255              |
| Other Data                                 | Time required for reversing the cycle                 | Min and sec | --                              | --               | 1' 15"           | 1' 15"           |

1) According to EN 14511, including circulation pumps and Inverter.  
 2) Considering flow of 2500 l/h in the brine and water circuits.  
 3) Considering a support with the emergency electrical heater or with HTR system. The maximum DHW temperature with HTR system can be limited by compressor discharge temperature.  
 4) According to EN 12102.  
 5) Always check regional regulations before using the antifreeze.  
 6) The maximum consumption can vary significantly with operation conditions, or if the operating range of the compressor is limited. See the service manual for more details.