

New range of ecoGEO heat pumps

IMPROVEMENTS IN DESIGN



- 🌱 New model (ecoGEO 4) with active and passive cooling production integrated.
- 🌱 Desuperheater in all models (HTR Technology), serially in models 3 and 4, optional in models 1 and 2.
- 🌱 Intakes can be vertical or at the rear (thanks to flexible hoses) and more space between intakes → better adaption to all installations.
- 🌱 Larger diameters in pipes and valves: HEATING and BRINE circuits from 1" to 1 ¼" and DHW circuit from ¾" to 1".
- 🌱 The COMPACT models include a ¾" intake for DHW recirculation.
- 🌱 Improved sound insulation, considerable reduction in the noise level → 35 < db < 46.
- 🌱 New electrical board:
 - Simpler and more secure electrical connections
 - 24 Vac power supply for mixing groups from within the heat pump
 - Hinged lid box for safer installation
- 🌱 Higher power brine circulation pump in 5-22 kW models (Wilco Stratos 25/1-12).
- 🌱 Brine security group included in all models with higher capacity expansion vessel (from 5 liters to 8 liters).
- 🌱 Inclusion of a condensate drain pan.
- 🌱 Hydraulic module located at the front of the heat pump to improve accessibility.
- 🌱 Electrical heater of 2/4/6 kW integrated (OPTIONAL) – To provide support for DHW and/or heating or in the event of failure in DHW and/or heating, it can be configured by software in all models.
- 🌱 Common connection schemes for all models.

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IMPROVEMENTS IN CONTROL



- 🌱 Control of one or more modulating Air Units AU12 with no need of external electrical boards.
- 🌱 Control of Hybrid systems, air source + ground source systems.
- 🌱 Control of fan speed in Air Units AU12.
- 🌱 Modulating control of auxiliary systems (boilers, electrical heaters, etc.) alternative, parallel or both.
- 🌱 Control of up to 3 ecoGEO heat pumps in cascade.
- 🌱 Cascade management with maximum efficiency range tracking technology.
- 🌱 Integrated management of up to 4 different outlet temperatures (3 mixing groups and 1 direct group).
- 🌱 Possibility to configure the ΔT in brine and heating/cooling circuits.
- 🌱 Possibility of managing demand and outlet temperature via bus series.
- 🌱 Improved anti freeze control for protecting heat exchangers from breakage.
- 🌱 Control of DHW recirculation.
- 🌱 Control of passive cooling in Hybrid installations (brine system: air source + ground source).
- 🌱 Control of external passive cooling in models 1 and 3.
- 🌱 Quick and easy software updates via USB.

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IMPROVEMENTS IN OPERATION

- 🌱 Improved compressor control that allows to adapt quickly and more safely to more operating conditions that may occur in the installations.
- 🌱 Evolution of CHW Technology to HTR Technology (High Temperature Recovery system) that allows simultaneous production of DHW + heating or cooling and DHW production up to 70 °C without electrical support and performance optimization.
- 🌱 Possibility of producing heating or cooling + pool heating simultaneously (HTR Technology).
- 🌱 Adaptation of the production to the demand even in installations with a separation buffer tank.
- 🌱 Improved defrosting process in configurations with Air Unit/s by incorporating an additional heat exchanger, that reduces waiting times, increases compressor lifetime and decreases its electrical consumption.
- 🌱 Inclusion of underfloor drying program.
- 🌱 Inclusion of installation anti freeze function.

