



Picture shows model HTR2-1. Model HTR2-2 has different output cables.

netec

Energy Technology

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Ground-heat pump controller HTR 2-2 for high-efficiency pumps

- Usage:** Stepless temperature controlled powering of the brine pump of a ground heat exchanger that preheats the incoming fresh air in the winter and precools the incoming hot air in the summer. Usable only for high-efficiency-pump type WILO Yonos Para ST15/7.0 PWM2 like installed in Netec pump-group PGR-2.
- Modulation:** Modulation runs nearly stepless between 0 and 100 % of pumps power by giving PWM-signal to the pump. Controller compares real fresh air temperature behind the brine-to-air heat exchanger with seasonal, user specified settings.
- Operating:** The controller is ready for plug and play installation. With the three keys, the following values can be set:
- the minimal fresh air temperature in cold season (factory setting +1°C)
 - the maximal fresh air temperature in hot season (factory setting +24°C)
 - the mode of running (automatic or manual)
 - the language of display (German, English or French)
- Display:** During current operation, the display shows the fresh air temperature behind the brine-to-air heat-exchanger and the pumps power level.
- Pressure control:** HTR2-2 has installed a connection for a pressure sensor of the brine system. This allows the fulfillment of increased requirements for safety in locations with sensitive groundwater. If the fluid pressure drops, the pump is stopped and optical and audible alarm is given.
- Output:** A 230-V-cable and a PWM-signal-cable with special plugs, compatible to the sockets in the WILO-Pump.
- Sensor:** PT-100 temperature sensor with 6 mm diameter to be placed into CWK 300 or into fresh air pipe between the brine heat exchanger and the ventilation system.
- Accessories:** Netec Pump- and Safety unit PGR-2 for systems with 100...500 m³/h
Netec brine-to-air heat exchanger CWK for systems with 200...400 m³/h
Netec brine-to-air heat exchanger PGK for systems with 500...12.000 m³/h
- Electricity supply:** AC 230 V 50 Hz
- Availability:** From July 2014