



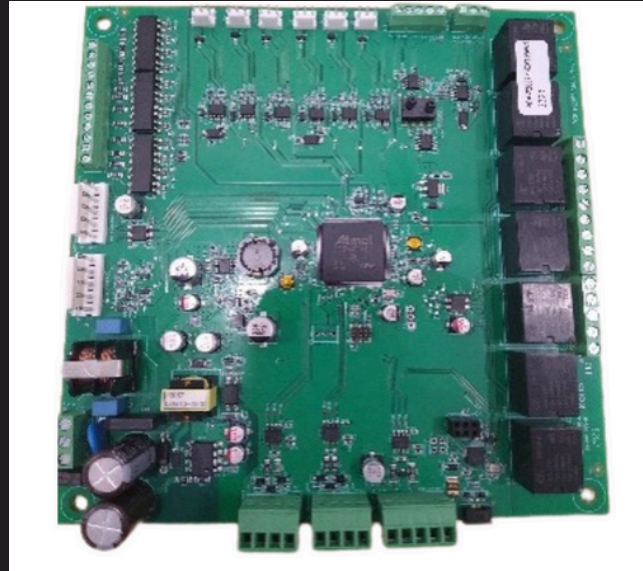
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GEOHERMAL HEAT PUMP CONTROL

Heat pumps provide year-round comfort, heating in winter, cooling in summer, and are reversible, efficiently transferring heat between spaces.

APPLICATION

North American heat pump systems for residential and commercial applications.



FEATURES

- EC motor PWM control for outdoor fan
- -200F to 200 degrees fahrenheit digital temperature measurement system for up to 6 RTD sensors (refrigerant suction, outdoor water input and output lines)
- Optional differential pressure sensor interface
- High refrigerant pressure sensor (0-600psi) and low refrigerant pressure sensor (0-300psi) interface
- Condensation overflow sensor control based on conductivity measurement
- BACnet RS485-MS/TP communication port
- Control of refrigerant Electronic Expansion Valve (EEV) equipped with stepper motor
- RS-485 MODBUS Communication Port
- 12 inputs with 24VAC optically isolated interface (air flow reduction AR, low pressure selects LS, water valve, disable switch, G, Y1, Y2, W2, O)
- 7 I/O dry contact outputs (compressor STAGE 1, STAGE 2, reversing valve, OV1, L, CP, future use)
- 24VAC supply to electronic control
- Long distance wired communication to Display Board over RS-485
- Electrically isolated DC/DC power supply
- ARM Cortex-M core high-end microcontroller