For Residential and Light Commercial

Job Name _____ Contractor _____

Job Location _____ Approval _____

Engineer _____ Contractor's P.O. No. _____

Approval _____ Representative _____

HydroNex® Geo Series

Sizes: 1-1/4" Trunk; 1" Distribution

The HydroNex Geo Series panel is designed to control geothermal heat sources, utilizing water storage tanks. Geo panels are designed to be used with either single or multiple geothermal heat sources. The Geo1 panel is designed to be used with a single geothermal unit. Geo2 and Geo3 panels are designed to be used with two and three geothermal heat sources respectively.

Geo Series panels are intended to connect to the inlet side of any HydroNex Primary Series panel. A 2 conductor 18 gauge thermostat wire has to be connected between terminals in the Geo panel relay box and terminals 5 & 6 on the Primary Series panel.

Geo panels include a Tekmar control with outdoor reset. Geo1 panels use a Tekmar 256 while Geo2 and Geo3 panels use a Tekmar 274. This control increases the overall efficiency of the geothermal unit.

The heat pump will only run when the temperature of the buffer tank falls below the outdoor reset control set point. If there is no call for heat from the system, the solenoid valve will remain closed, directing hot water into the buffer tank until the set point is met. When the radiant system calls for heat, the solenoid valve will open, allowing hot water to flow from the tank and/or heat pump.

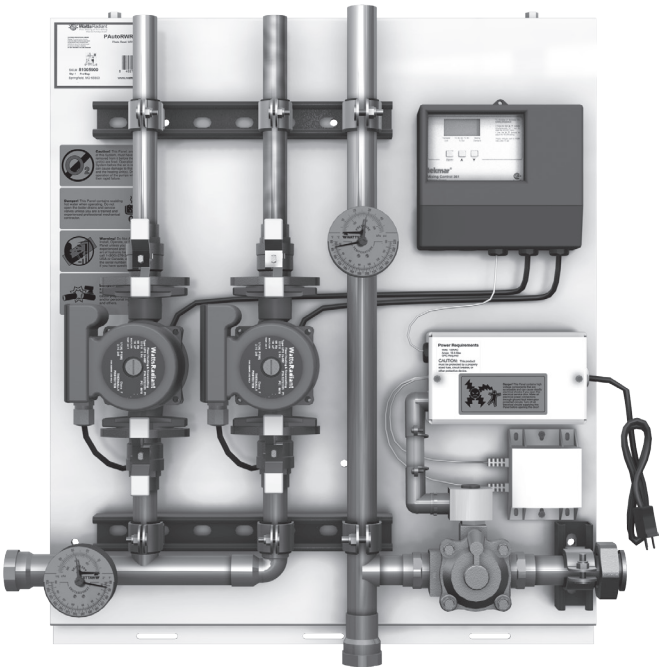
Installation Parameters

Make sure an electrical outlet is within 3 feet of where the Geo Series panel will mount. If there are not outlets, one will need to be added.

Install and level Z-Bracket with 1/4" x 2-1/2" lag screw to studs. Make sure the Z-Bracket is the correct size for the given Geo Series panel. Incorrect Z-Brackets may interfere with cover placement.

Hang the Geo Series panel on the Z-Bracket. Lag screws should be added to the bottom of the panel, further securing the panel to the wall. Hang cover from top down.

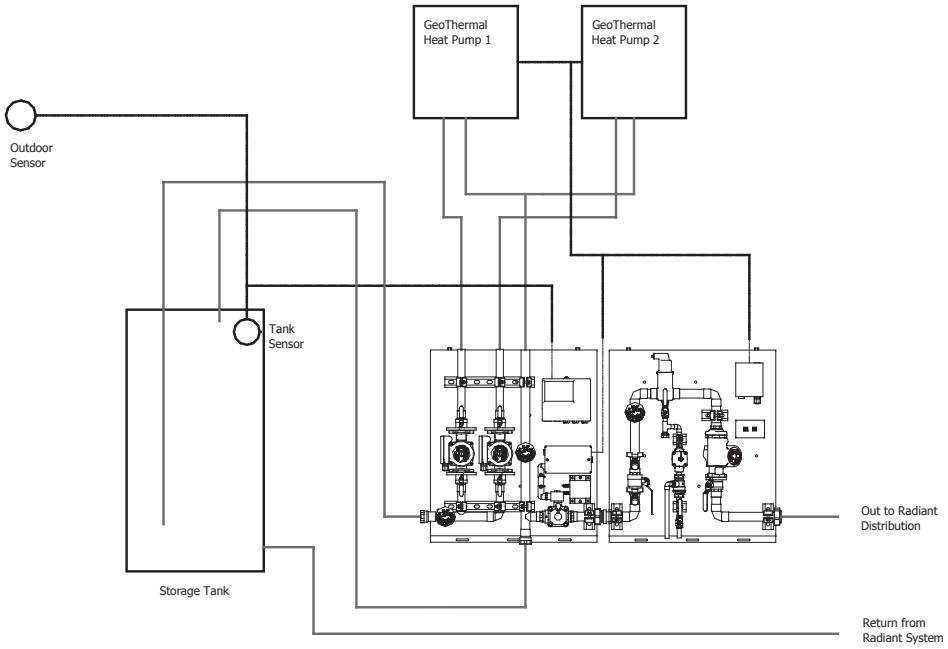
In order to avoid property damage, injury, and/or death, please refer to the complete installation manual and warnings provided with the product.



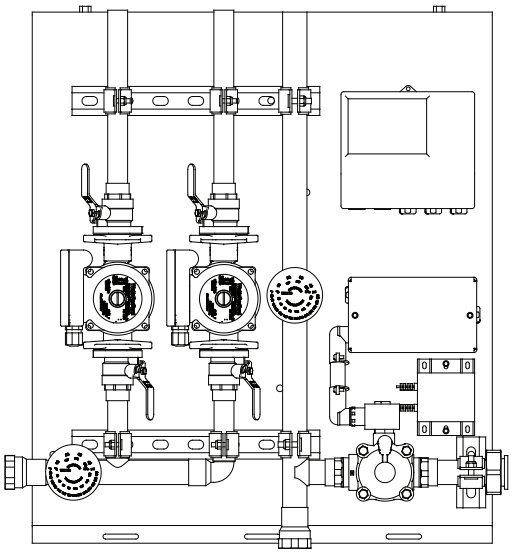
Features
Wall mounted white powder coated back panel and cover
Easy access to all components
Pre-wired circulators and controls
O-Ring sealed, threaded union connection between panels
Integrated leveling system
Z-Bracket for simplified mounting

Specifications	
Supply Voltage	120 Volts
Circulator Type	Watts Radiant 26-99 (three-speed)
Electrical	Relay
Injection/Buffer Tank Reset Control	Tekmar 256, 274
Zone Valve	24 Volt NO/NC Actuation

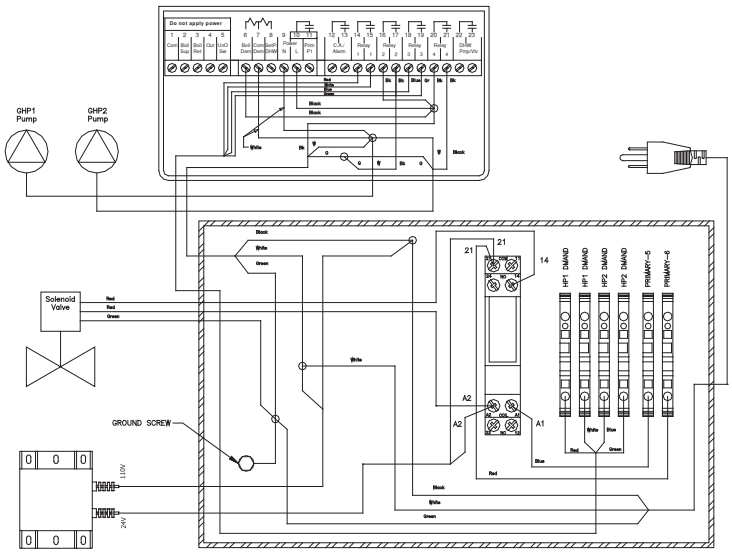
WattsRadiant™
Floor Heating & Snow Melting



HydroNex Geo2 panel connected to a HydroNex P-Series panel.



HydroNex Geo2 panel.



HydroNex Geo2 panel typical electrical schematic.

# of GeoThermal Units
1, 2, or 3

SG – ☐

Description	Model #	Wt. (lbs)	Size
1 GeoThermal Unit	SG-1	60-65	S
2 GeoThermal Units	SG-2	80-85	M
3 GeoThermal Units	SG-3	95-100	M

S=28" wide x 31.5" high x 12" deep
M=40" wide x 31.5" high x 12" deep

WattsRadiant™
Floor Heating & Snow Melting

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Canada: 5435 North Service Rd., Burlington, ONT. L7L 5H7; www.wattscanada.ca