



OilPro Oilfield Production Equipment Ltd.

530 Cleveland Crescent S.E.

Calgary, Alberta

T2G 4A9

CANADA



Glycol Heat Trace Module for PowerGen



Benefits

Over 50,000 BTU/HR of heat available

No external power supply required

User selectable return temperature

Ultra-reliable rotary-vane circulating pump

Independent glycol reservoir

Full monitoring and control

Ideally suited for remote locations

Glycol Heat Trace Module

Glycol Heat Trace

The Glycol Heat Trace (GHT) feature transfers recovered waste heat from the Stirling engine and exhaust to the customer. A plate heat exchanger is used to separate between the engine coolant and the GHT media. The GHT media is circulated using a rotary vane pump on a DC variable speed motor. The PowerGen monitors the supply and return temperatures of the GHT media and adjusts the units operation to match the heat load and meet the return temperature set point. The GHT feature can be disabled with the use of the winter/summer toggle switch.

GHT Module Specifications

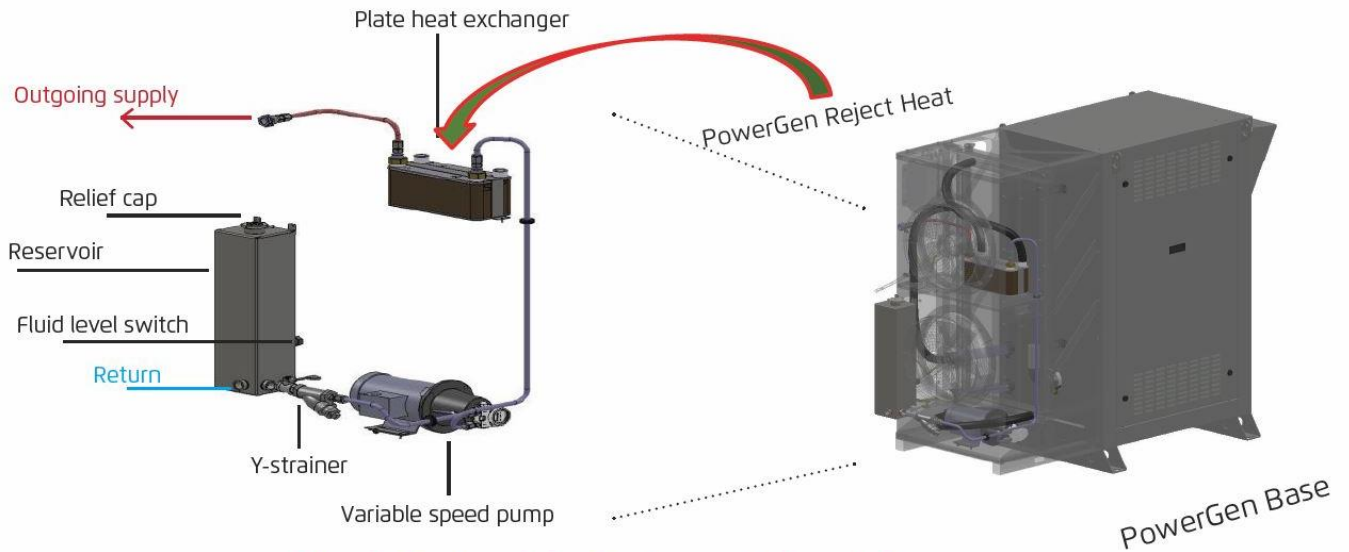
Minimum Ambient Temperature	-40 F
Minimum Return Setpoint Temperature	77 F
Maximum Return Setpoint Temperature	131 F
Maximum 1/2" tube length	1500 ft.
Flow Rate	.5 - 2.2 GPM
Fluid Reservoir - working volume	1.5 gl.
Fluid Reservoir - expansion volume	.5 gl.
Heat Trace Interface	1/2" NPT Female
Coolant Filter	SST 100 mesh (150 micron)
Glycol Content Range	Up to 50% vol. glycol content





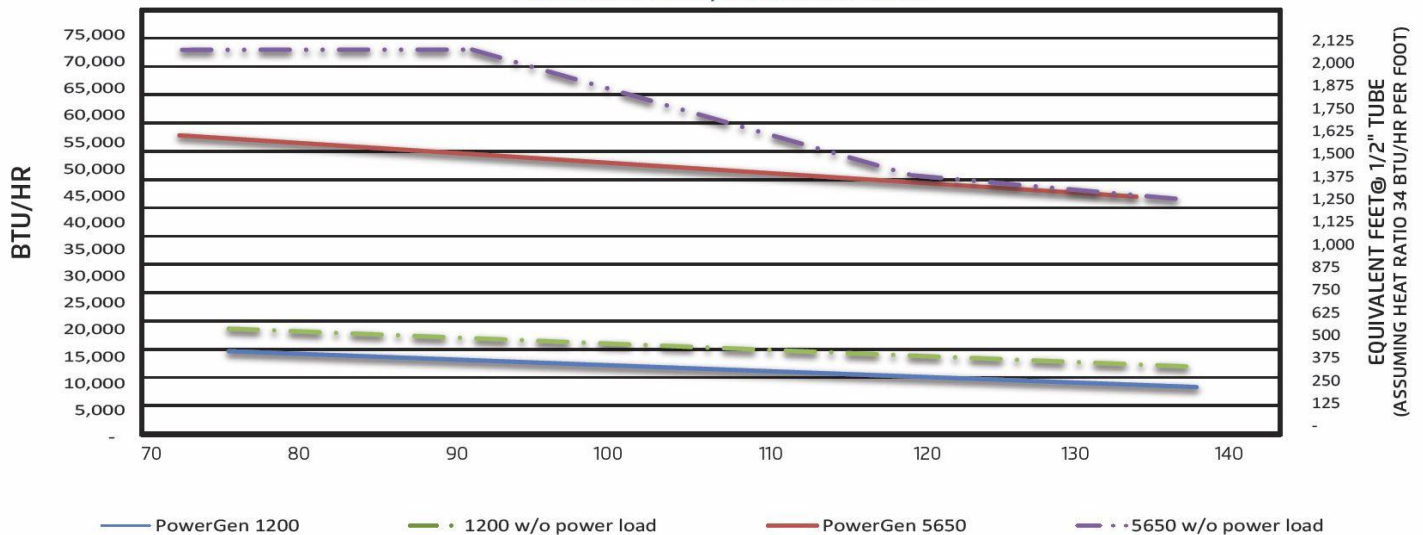
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Heat Output to Return Setpoint

PowerGen 1200 / PowerGen 5650



About the GHT Module

- The pump and motor are designed to handle a 1500' total loop length comfortably
 - Pump tested for up to 8 Bar (116 PSI), max of 12Bar (174 PSI)
- Temperature set point can be modified remotely via optional Modbus. Typical maximum outlet temperature is up to 50°C and commonly used return is 40°C
- Pump speed can be adjusted manually with the speed dial. A higher rate will optimize response times. (set to max. for 1,000'+ loops)
- Not including customer piping, the internal system is approximately 2.1 Gallons
- Thermal latency is approximately 4 minutes using a 1/2" ID 910.9mm) loop
- Recommended end-user supplied items:
 - Shut-off valve at the return port
 - T-joint with drain port at the supply connection
 - 50/50 automotive style glycol, or 60/40 for sub -20°C installations