

PELTI-THERM™

Re-circulating Thermoelectric Heater/Chiller System

■ Semiconductor ■ Medical ■ Pharmaceutical ■ Solar



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Introducing *Pelti-Therm™*, Applied Integrated Systems' thermoelectric re-circulating heater/chiller system for applications where temperature stability, reliability, and low cost are of critical importance.

Pelti-Therm™ applications include semiconductor, medical, pharmaceutical, solar, and industrial.

Features and Benefits

- **HIGH TEMPERATURE ACCURACY**
AIS's unique thermoelectric based heating/cooling module design coupled with innovative power control assures tight temperature accuracy is achieved ($\pm 0.1^{\circ}\text{C}$ or better).
- **ENVIRONMENTALLY FRIENDLY**
AIS's unique thermoelectric design is environmentally friendly as it eliminates the use of ozone depleting chemicals or toxic Freon substitutes.
- **COMPATIBLE WITH A WIDE RANGE OF COOLANTS**
Several materials of construction can be selected to allow operation with virtually any coolant.
- **MULTIPLE PUMP OPTIONS**
Various pump options are available to meet your flow and pressure requirements.
- **FLEXIBLE DESIGN**
Modular design approach allows for a wide range of wattages, physical shapes, electrical configuration, plumbing connections, pump capacities...all configured around your preference.
- **COMPACT FOOTPRINT**
High efficiency heating/cooling module coupled with modular design approach allows for the most compact footprint in the market.
- **HIGH RELIABILITY**
The Pelti-Therm™ product series has been engineered with the highest quality components available in the market, resulting in years of maintenance free operation.
- **USER FRIENDLY**
Intuitive design makes it simple to install and operate.
- **SAFETY**
Heating/cooling module over-temperature protection and redundant over-temperature interlocks. CE, SEMI, UL compliant.

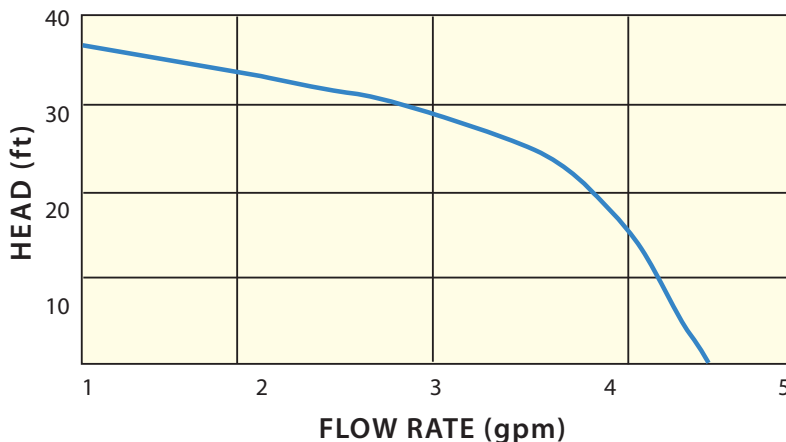
Specifications

Dimensions*	W = 7.0", D = 14.0", H = 9.0"
Heating/Cooling Technology	AIS Thermoelectric
Heating Capacity	Up to 2,000 W
Cooling Capacity	Up to 1,000 W
Voltages	208-230VAC, 1Ø, 50/60 Hz
Temperature Control	-10°C to 80°C
Temperature Accuracy	±0.1°C (varies with application)
Temperature Control Method	PID
Pump Capacity	See pump curve below
Heat Dissipation Requirement	Water or Air
Temperature Sensor	Platinum RTD
Fluid Connections	¼" to ¾" compression
Power Connections	Flying leads or connectors
Reservoir Volume	Up to 10 liters
Enclosure Material	Powder coated steel
Compliance	SEMI, CE, UL
Warranty	12 months

* Dimensions listed are for a 250W cooling and 600W heating capacity Pelti-Therm™, with 1 liter reservoir and Iwaki 30rz pump

Applied Integrated Systems reserves the right to change specifications without notice.

Typical Pump Capacity



Safety Features

- Heating/cooling module over-temp protection
- Over-current and over-load protection
- Fire retardant enclosure
- Grounded heating/cooling module
- SEMI, CE, UL compliant

Options

- Host communication
- Cooling and heating capacity
- Pump capacity
- Reservoir volume
- Physical shape
- Plumbing connection size and type
- Electrical connection style and location
- Extended warranty
- Additional options upon request

For more information, contact AIS at: sales@appliedintegratedsystems.com



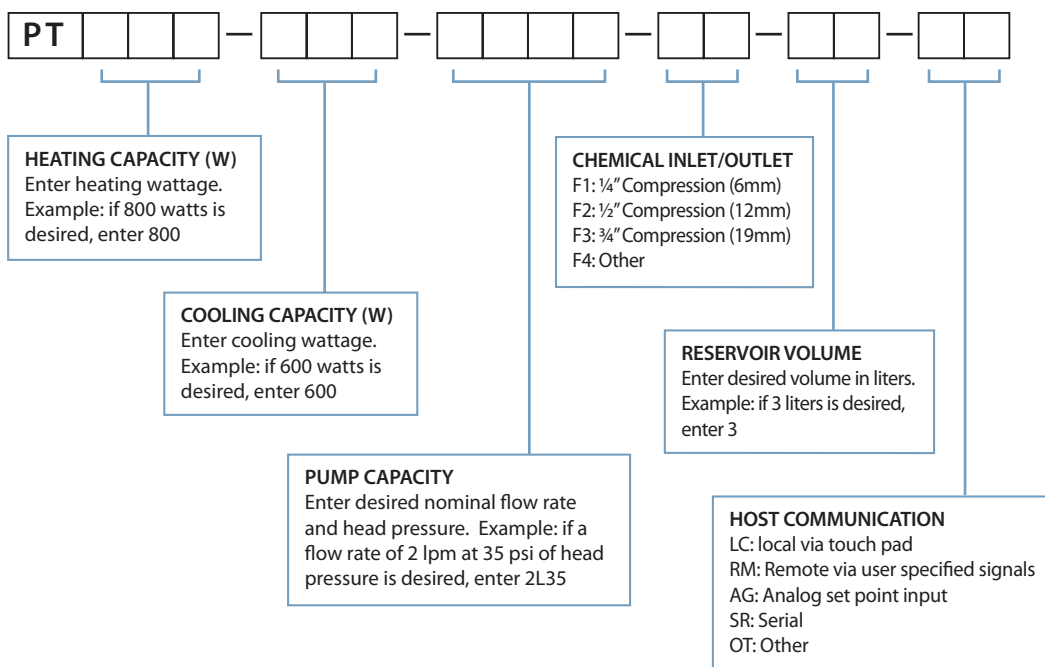
PELTI-THERM™

ORDERING INFORMATION

Please don't hesitate to contact us to help you determine the best product for your application. You may compose the part number of your *Pelti-Therm*™ heater/chiller by using the guideline below or simply call one of our product specialists for assistance.

You may also e-mail us at sales@appliedintegratedsystems.com

USE THIS CHART TO COMPOSE THE PART NUMBER



CONTACT US

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