

For Snow Melt Applications

Job Name _____
 Job Location _____
 Engineer _____
 Approval _____

Contractor _____
 Approval _____
 Contractor's P.O. No. _____
 Representative _____

ProMelt® HX Snow Melt Panel

Heat Exchanger with Mixing Configuration

ProMelt® HX hydronic panels are designed to be a standalone single zone mechanical solution used with a condensing heat source.

Specifications

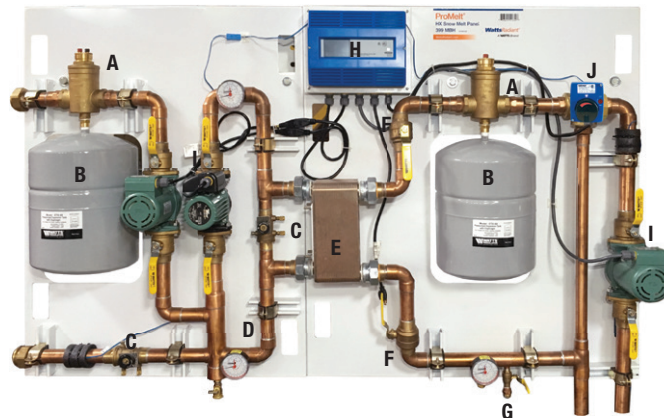
ProMelt® HX panel are designed to tie into an existing system or to be used solely with a condensing boiler or a heat source able to deliver the necessary system fluid temperature. Each ProMelt HX panel is equipped with dual circulators to provide independent system flow control while maintaining dedicated flow through the heat source. A reset mix valve is provided to ensure proper mix temperature is delivered to the snow melt zone, regardless of minor fluctuations in system temperature. An automatic start is provided via the tekmar Snow Melting Control 680 control and slab mounted Snow / Ice Sensor 090.

This configuration of panels is capable of controlling a single radiant zone.

Each panel is controlled by a BACnet or Modbus enabled tekmar Snow Melting Control 680 allowing users to monitor and control the snow melt system when away from the operating site. Panels are secured to a powder coated mounting plate for ease of installation.

The ProMelt 399 HX panel is suitable for projects up to 2000 square feet and up to 150 BTUs per square foot melting capacity. Up to 50 feet of 1-1/2" tubing (supply and return combined) can be used to connect the panel to the snow melt manifold.*

*If your project requires more than 2000 square feet of coverage, greater than 150 BTUs per square foot of output or requires more than 50 feet total of tubing to connect panel to snow melt manifold, contact Watts technical support for assistance.



- A: Air Remover**
- B: Expansion Tank**
- C: Balance Valve**
- D: Hydraulic Separator**
- E: Heat Exchanger**
- F: Ball Valve**
- G: Drain Valve**
- H: tekmar 680 Control**
- I: Circulator**
- J: Mix Valve with Actuator**

Features

- Wall mounted white powder coated back panel and cover
- Easy access to all components
- Pre-wired circulators and controls
- Automatic snow/ice detection
- Communications link to predict and prepare for inclement weather
- Integrated leveling system
- Cleats for simplified mounting

CAUTION

This Engineering Sheet is not intended to provide full installation instructions and safety information. In order to avoid property damage or injury, please refer to the complete installation manual and product safety information provided with the product.

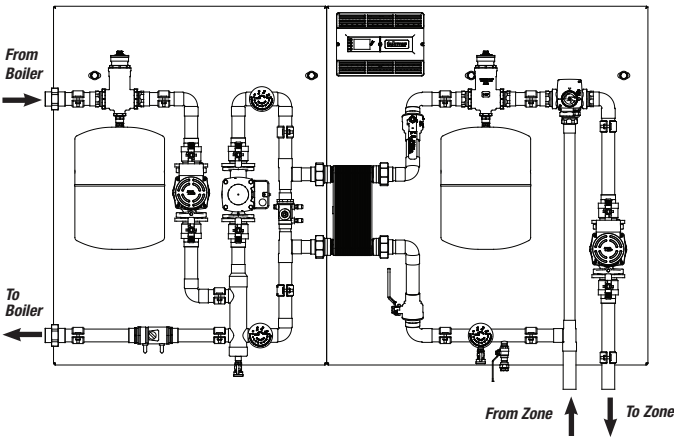
Specifications	
Supply Voltage	120 Volts
399 MBH Circulator Type	Boiler Pump = Taco 2400-45, HX Pump = Taco 0013 3 Speed, System Pump = Taco 2400-45
Control	tekmar Snow Melting Control 680
Max. Temp/Pres	210°F @ 30psi
399 MBH Panel	1-1/2" Piping, 175 lbs w/o heat exchanger

Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



ProMelt HX Panel

399 MBH Panel Assembly

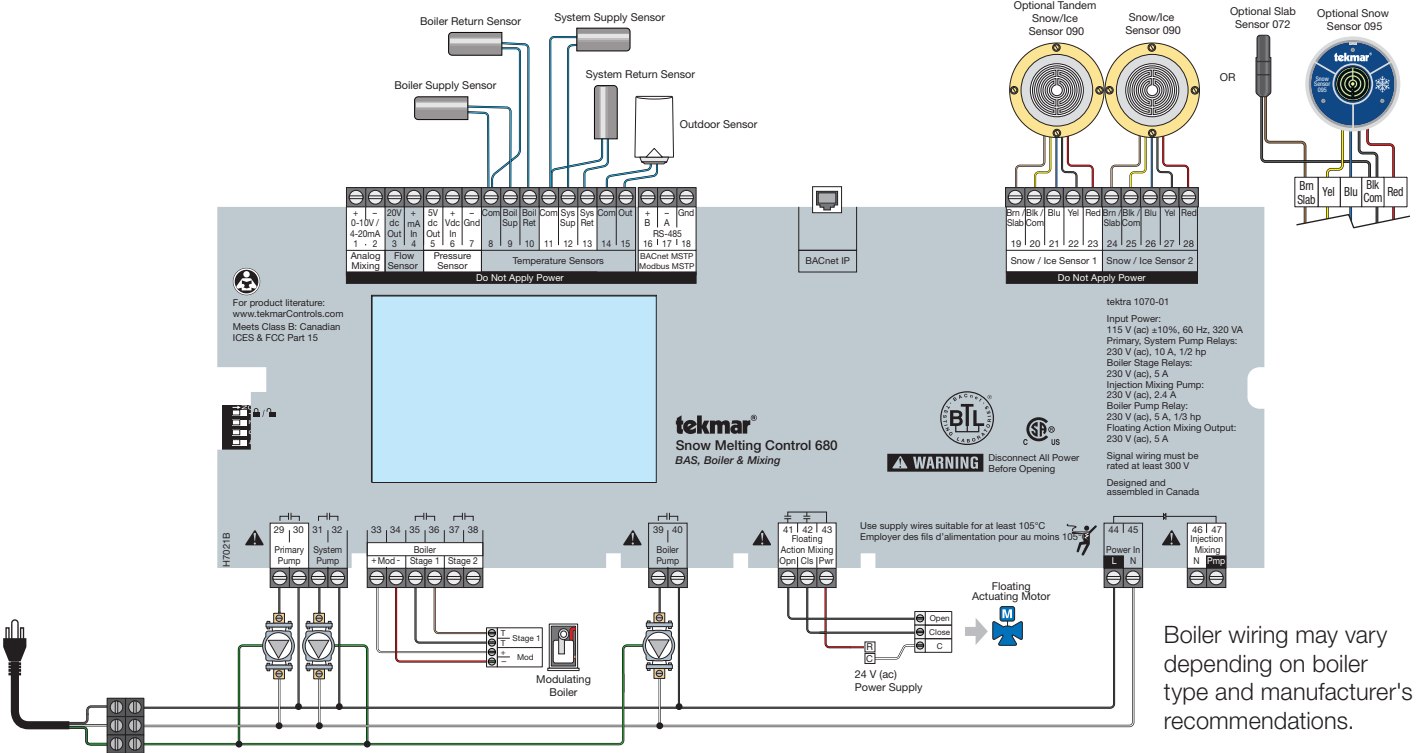


✓ Description	Order #	Dimensions
399 MBH Panel	81020129	76" x 45" x 18" (193.04 cm x 114.30 cm x 45.75 cm)

Each ProMelt® HX panel comes pre-wired, including a cord with an AC plug for a standard outlet, making on-site electrical connections fast, simple, and secure.

The heat exchanger provided with the ProMelt HX panel is shipped loose and requires field connection to the primary and secondary sides. O-ring unions, rated to 100 psi, are provided to ensure leak-free operation.

The Snow/Ice Sensor 090 and the Outdoor Sensor 070 are not factory wired. Follow all installation instructions when wiring sensors to the tekmar control.



Boiler wiring may vary depending on boiler type and manufacturer's recommendations.



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 Canada: T: (905) 332-4090 • F: (905) 332-7068 • Watts.ca
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