

SPACE HEATING SIZING GUIDE for Hydro Smart 115 PLUS Micro-Boiler

1. CHOOSE YOUR APPLICATION & TEMPERATURE



50° F Operation

- Garage
- Post Frame



70° F Operation

- Whole House
- Sun Room
- Garage
- Post Frame
- Basement

2. CHOOSE YOUR SQUARE FOOTAGE

MODEL

SKU

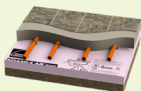
HS115 PLUS NG/LP

665-1012

900-3,500 Sq. Ft.

EMITTERS TYPES

Tubing In Concrete

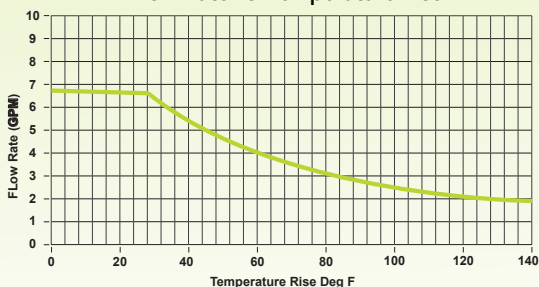


HS115 PLUS OPTIONAL VENTING ACCESSORIES

MODEL	SKU	DESCRIPTION	VENTING TYPE	ITEM
HS-2ZVB04	665-1003	Back Flow Preventer on Exhaust Vent	Category III 4" Stainless Steel	L
HS-2ZVWB04	Special Order	Vent Kit with Back Flow Preventer-Wall Thimble-Hood-90°Elbow-Pipe	Category III 4" Stainless Steel	M
HS-2SVBFDPA04		Back Flow with Drain and Universal Adaptor on Exhaust Vent	Category III 4" Stainless Steel	O



Flow Rate vs. Temperature Rise



\*For zones under 900 Sq. Ft., Use a Buff Max Tank to prevent short cycling.

BUFFMAX 30  
SKU: 665-1413



Micro-Boilers & Hydro Smart Integrator Panels sold separately. Guide is based on insulating to a R19 in walls, R38 in ceilings, maximum 12 ft. sidewalls, with 2" of extruded styrene insulation around perimeter & under slab emitter and/or 3-1/2" of fiberglass insulation for staple up emitter. For more accurate sizing, a BTU heat loss of the heated space should be considered.

ALWAYS CHECK WITH & FOLLOW LOCAL CODES

HYDRO  
SMART 115<sup>PLUS</sup>  
HYDRONIC SYSTEMS



- A - Boiler Control/Code Detector
- B - 3/4" Hot Fluid Supply
- C - 3/4" Cold Fluid Return
- D - 120 Volt Power Supply
- E - 3/4" Gas Supply
- F - 4" Flue Exhaust
- G - 3" Intake
- H - Fluid Overheating Protection
- I - High Altitude Heating Adjustment
- J - Fuse Protection
- K - Power Switch

The HS115 PLUS Gas Micro-Boiler is a compact and powerful residential unit with a versatile BTU modulating range.

Install your system easily with our Hydro-Smart panels that are pre-wired, pre-plumbed and pressure tested.

HYDRO SMART 115 PLUS  
BOILER

HS115 PLUS      SKU: 665-1012  
This boiler includes LP Conversion Kit

SPECS

- VOLTS 120
- AMPS 1
- BTU OUTPUT 16,000 - 114,800
- WATER TEMP RANGE \*99° - 140° F
- GAS LINE MIN. SIZE 3/4" MPT
- VENTING 4" Cat III Stainless Steel
- ENERGY FACTOR 82%
- IGNITION TYPE Electronic Spark
- INLET GAS PRESSURE NG: Min 5.0" WC Max 10.5 " WC  
LP: Min 8.0" WC Max 14.0 " WC

MICRO-BOILER SIZE  
21" H x 14" W x 10" D - 42lbs

EMITTER TYPES

- Tubing In Conrete

FEATURES

- Copper Heat Exchanger
- Flow Activated -.75 GPM
- 4" Cat III Stainless Steel Venting
- Temperature Range - 99° - 140°F
- BTU Modulation Output 16,000-114,800
- Power Vent
- Wall Hung
- Freeze Protection
- No Pilot Light
- Energy Factor: 82%

(Combi Panel option for potable water and space heating)

BR-Menards-HS115 PLUS-xx1

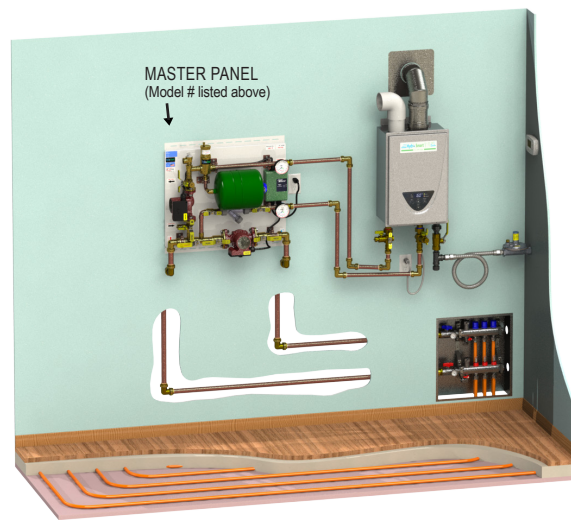


# SPACE HEATING PANEL SYSTEMS

## ONE ZONE INTEGRATOR PANEL

Primary Secondary Panel - (One Zone)  
Model # HSPS120LT - SKU: 665-0900 (shown)

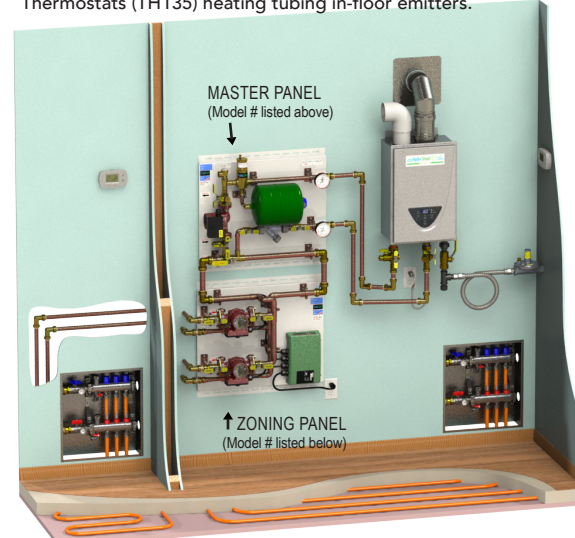
Shown: HS115 PLUS Gas Micro Boiler with Master 1 Zone Panel (HSPS120LT) and a Thermostat (TH135) heating tubing in-floor emitter.



## ZONING BY PUMP

Zone by Master Pump Panel - 1- 4 Zones  
Model # HSPS120MPL - SKU: 665-1150 (shown)

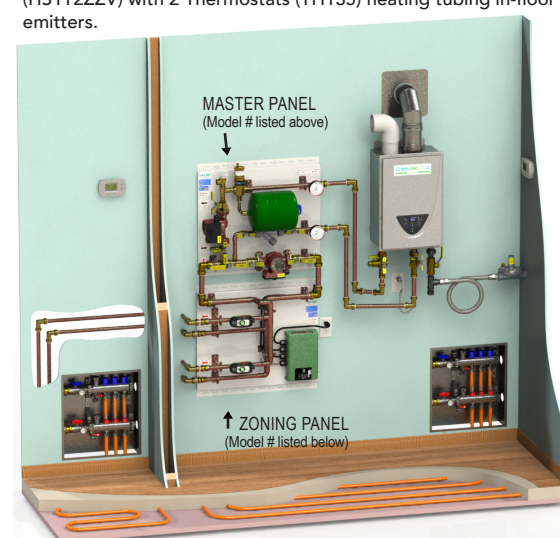
Shown: HS115 PLUS Gas Micro-Boiler with Master Pump Panel (HSPS120MPL) and a Zoning by Pump Panel (HS1T2ZPMP) with 2 Thermostats (TH135) heating tubing in-floor emitters.



## ZONING BY ZONE VALVE

Zone by Master Zone Valve Panel 1- 4 Zones  
Model # HSPS120MZL - SKU: 665-1160 (shown)

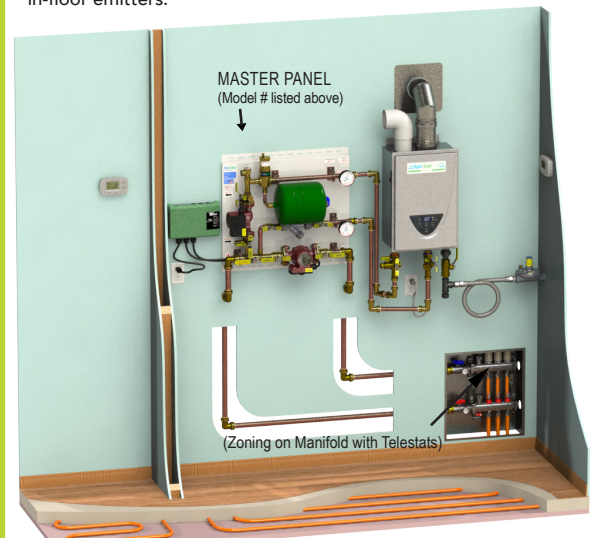
Shown: HS115 PLUS Gas Micro-Boiler with Master Zone Valve Panel (HSPS120MZL) and a Zoning by Zone Valve Panel (HS1T2ZZV) with 2 Thermostats (TH135) heating tubing in-floor emitters.



## ZONING BY TELESTAT

Zone by Master Telestat Panel - 1- 4 Zones  
Model # HSPS120MTL - SKU: 665-1170 (shown)

Shown: HS115 PLUS Gas Micro-Boiler with Master Telestat Panel (HSPS120MTL) with 1 - 4 Thermostats (TH135) heating tubing in-floor emitters.



## HYDRO-SMART PANELS HELP MAKE RADIANT HEAT **easy & reliable**

- Constructed with top quality materials, including heavy duty type L copper pipe and a powder coated panel.
- Engineered and proven panel design uses professional hydronic practices.
- By working smarter not harder, a pre-assembled panel saves job site labor expense and time.
- With nothing extra and nothing spared on each panel, every component is there to help ensure your system provides years of trouble free operation.

## 1 TEMPERATURE ZONE BY PUMP PANEL

(1 Temperature panels are for systems with one emitter type)

- 2 Zone Model # HS1T2ZPMP - SKU: 665-1240
- 3 Zone Model # HS1T3ZPMP - SKU: 665-1241
- 4 Zone Model # HS1T4ZPMP - SKU: 665-1242

## 1 TEMPERATURE ZONE BY VALVE PANEL

- 2 Zone Model # HS1T2ZZV - SKU: 665-1260
- 3 Zone Model # HS1T3ZZV - SKU: 665-1261
- 4 Zone Model # HS1T4ZZV - SKU: 665-1262

**THERMOSTAT**  
Model # TH135 - SKU: 665-5650



**SPECIAL ORDER**

Other boilers, water heaters and accessories available on [Menards.com](http://Menards.com)



**Hydro Smart 115 PLUS Micro-Boilers** are compact, efficient, and a great value. Gas Micro-Boilers don't require large electrical needs yet they produce a tremendous amount of BTUs. When venting and piping of a gas supply is an option, gas may be a great choice.

Each **Hydro Smart 115 PLUS** unit when installed and operated per the installation instructions has a 2-year warranty covering all parts and the heat exchanger. See manufacturer warranty for full details. Each Hydro Smart Integrator Panel, when installed and operated per the installation instructions, has a 1 year warranty covering all parts. No labor allowances. See manufacturer warranty for full details.

Note: Micro-Boilers, Integrator Panels, Thermostats, Manifolds, Pipe and accessories are all sold separately. Hydro Smart™ reserves the right to alter product offerings and specifications at any time without notice.