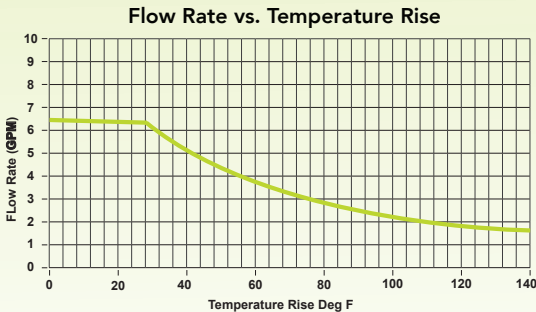


SPACE HEATING SIZING GUIDE for Hydro Smart 120 Condensing Micro-Boiler

<div>1. CHOOSE YOUR APPLICATION & TEMPERATURE</div> <div>→</div>	<div></div> <div><div>50° F Operation</div><div><div>• Garage</div><div>• Post Frame</div></div></div>	<div></div> <div><div>70° F Operation</div><div><div>• Whole House</div><div>• Sun Room</div><div>• Garage</div><div>• Post Frame</div><div>• Basement</div></div></div>																
<div>2. CHOOSE YOUR SQUARE FOOTAGE</div> <div>→</div>	<table><tr><th>MODEL</th><th>SKU</th></tr><tr><td>HS120-NG</td><td>665-1008</td></tr><tr><td>HS120-LP</td><td>665-1009</td></tr><tr><td colspan="2">900-3,500 Sq Ft.</td></tr></table>	MODEL	SKU	HS120-NG	665-1008	HS120-LP	665-1009	900-3,500 Sq Ft.		<table><tr><th>MODEL</th><th>SKU</th></tr><tr><td>HS120-NG</td><td>665-1008</td></tr><tr><td>HS120-LP</td><td>665-1009</td></tr><tr><td colspan="2">900-3,500 Sq Ft.</td></tr></table>	MODEL	SKU	HS120-NG	665-1008	HS120-LP	665-1009	900-3,500 Sq Ft.	
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<div>EMITTERS TYPES</div>	<div><div>Tubing In Concrete</div><div></div></div>																	

HS120CON 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-CVENT-3		3" PVC - Concentric Vent	3" Schedule 40 PVC	N
HS-2SVSNA04.5		Universal Adapter on Air Intake	Category III 4" Stainless Steel	O

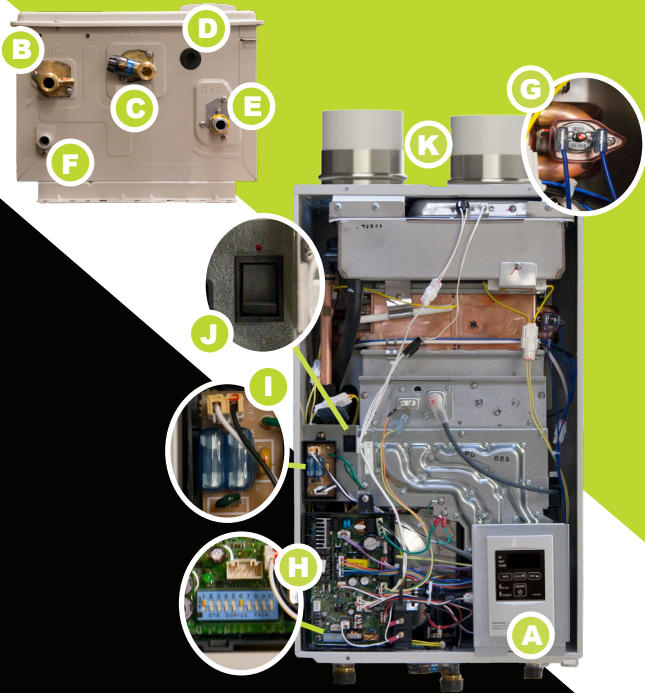


*For zones under 900 Sq. Ft., Use a Buff Max Tank to prevent short cycling.



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. For more accurate sizing, a BTU heat loss of the heated space should be considered.
ALWAYS CHECK WITH & FOLLOW LOCAL CODES



- A - Boiler Control/Code Detector

B - 3/4" Hot Fluid Supply

C - 3/4" Cold Fluid Return

D - 120 Volt Power Supply

E - 1/2" Gas Supply

F - Condensate Drain
- G - Fluid Over Heating Protection

H - High Altitude Heating Adjustment

I - Fuse Protection

J - Power Switch

K - Intake/Exhaust

THIS IS A CONDENSING BOILER AND REQUIRES A FLOOR DRAIN.

HYDRO SMART 120 CONDENSING BOILER

Natural Gas Model: HS120ConNG SKU: 665-1008
Liquid Propane Model: HS120ConLP SKU: 665-1009

SPECS

- VOLTS
 - AMPS
 - BTU OUTPUT
 - WATER TEMP RANGE
 - GAS LINE MIN. SIZE
 - VENTING
- 120

1

13,950 - 111,600

*99° - 140° F

1/2" MPT

2" - 4" CAT III SS/PVC Schedule 40 (Solid Core)
- ENERGY FACTOR
 - IGNITION TYPE
 - INLET GAS PRESSURE
- 93%

Electronic Spark

NG: Min 5.0" WC Max 10.5 " WC

LP: Min 8.0" WC Max 14.0 " WC

MICRO-BOILER SIZE
24" H x 13.8" W x 10.8" D - 44lbs

HYDRO SMART 120 HYDRONIC SYSTEMS
With Condensing Technology



The HS120 Condensing 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.

EMITTER TYPES

- Tubing In Concrete

FEATURES

- Copper Heat Exchanger
 - Flow Activated -.75 GPM
 - 3" Schedule 40 PVC (Solid Core)
 - Temperature Range - 99° - 140°F
 - BTU Modulation Output 13,950-111,600
- Power Vent
 - Wall Hung
 - Freeze Protection
 - No Pilot Light
 - Energy Factor: 93%

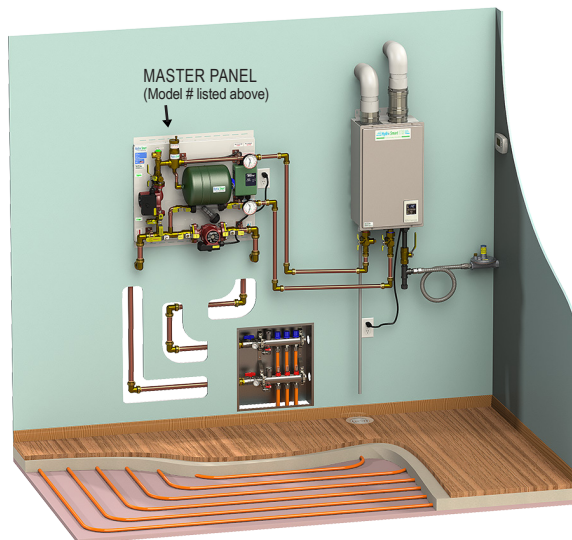
(Combi Panel option for potable water and space heating)

SPACE HEATING PANEL SYSTEMS

ONE ZONE INTEGRATOR PANEL

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

Shown: HS120 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)

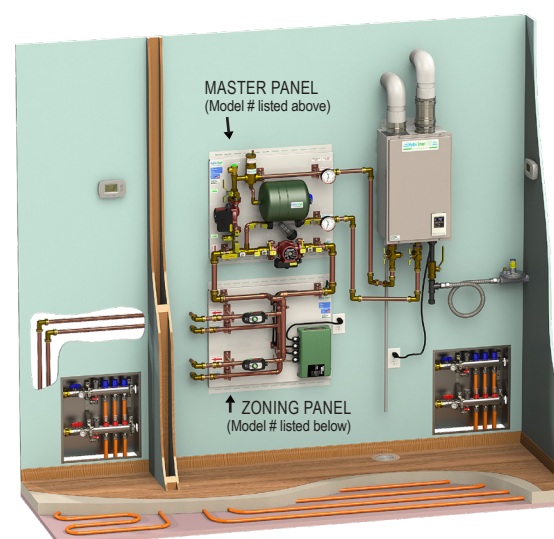
Shown: HS120 Gas Micro-Boiler with Master Pump Panel (HSPS120MPL) and a Zoning by Pump Panel (HS1T2ZPMP) with 2 Thermostats (TH135) heating tubing in-floor emitters.



ZONING BY ZONE VALVE

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

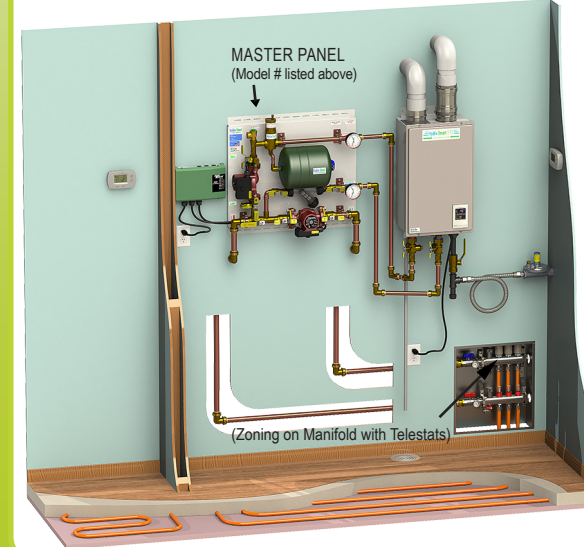
Shown: HS120 Gas Micro-Boiler with Master Zone Valve Panel (HSPS120MZL) and a Zoning by Zone Valve Panel (HS1T2ZZV) with 2 Thermostats (TH135) heating tubing in-floor emitters.



ZONING BY TELESTAT

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

Shown: HS120 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



Hydro Smart 120 Condensing Micro-Boilers are compact, efficient, and a great value.

Condensing 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.

Hydro Smart

Each **Hydro Smart 120** 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.