


SPACE HEATING SIZING GUIDE for Ruud Condensing Boiler

1. CHOOSE YOUR APPLICATION & TEMPERATURE

→



70° F Operation




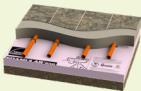
- Whole House
- Sun Room
- Garage
- Post Frame
- Basement

2. CHOOSE YOUR SQUARE FOOTAGE

→

MODEL	SKU
RUCBH199DVLN	665-1048
RUCBH199DVLP	665-1049
900-3,500 Sq. Ft.	900-3,500 Sq. Ft.

EMITTERS TYPES



ADDITIONAL SPECS

- Efficient heating combined with continuous hot water all from one unit for space and cost savings
- Perfect for replacing a boiler, compatible with any hydronic heat emitting devices including air handlers
- A single, compact combo boiler can replace a boiler and tank water heater, saving space
- Built-in auto feeder maintains hydronic loop pressure automatically between 12-30 PSI
- Outdoor reset sensor tracks outdoor temperatures and overrides the heating set point as needed to keep the home comfortable when weather changes
- If the thermostat set point has not been achieved in a reasonable time, the combo will auto boost the hydronic loop to reach the desired temperature more quickly
- Max vent length is 100’ at 3” and 50’ at 2” meaning more flexible and versatile installation options 4.5 gal./min. at 77°F rise for 199,000 BTU
- Vents with room air which saves time and money on installation
- 95% AFUE qualifies for top rebates across the US (see local offers for details)
- 10-year heat exchanger warranty, 5-year warranty on parts, 1-year labor warranty

Heat your Domestic Hot Water and Radiant System in one compact and powerful unit.

RUUD **COMBI**
RUCBH199DV
HYDRONIC SYSTEMS
With Condensing Technology



Up to 95%
Energy
Efficiency



The Ruud Condensing Gas 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.

RUUD
CONDENSING BOILER

Natural Gas Model:	RUCBH199DVLN	SKU: 665-1048
Liquid Propane Model:	RUCBH199DVLP	SKU: 665-1049

SPECS

• VOLTS	120
• AMPS	6
• BTU OUTPUT	199,000 Btu/H
• WATER TEMP RANGE	86° - 180° F
• GAS LINE MIN. SIZE	1/2" NPT
• VENTING	2"- 3" PVC Schedule 40 (Solid Core)
• ENERGY FACTOR	95%
• IGNITION TYPE	Electronic

EMITTER TYPES

- Tubing In Concrete
- Staple Up
- Water/Fan Coil
- Radiator

FEATURES

- ASME H Stamp
- Flow Activated -.75 GPM
- 2" or 3" Venting
- 10 Year Warranty
- 95% Efficient

Dual Purpose for DHW and Radiant Heating
(Does not require Hydro Smart Combi Panel for DHW)

BOILER SIZE
28" H x 17" W x 15" D - 90lbs

BR-Menards-Ruud



SPACE HEATING PANEL SYSTEMS

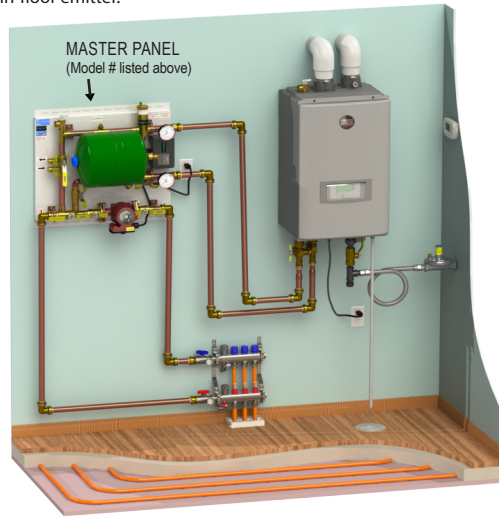
ONE ZONE INTEGRATOR PANEL

Primary Secondary Panel - (One Zone)

Model # CM1ZN-100-S-XXXX-2699-RUUD

1 Thermostat Zone - Up to 3500 Sq. Ft. SKU: 665-0906

Shown: Ruud Gas Boiler with Master 1 Zone Panel (CM1ZN-100-S-XXXX-2699-RUUD) and a Thermostat heating tubing in-floor emitter.



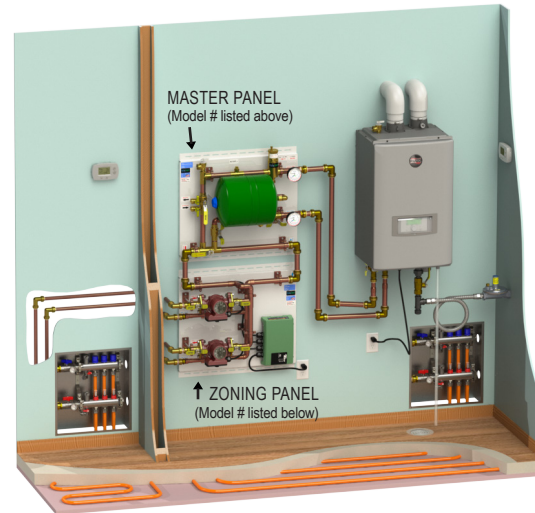
ZONING BY PUMP

Zone by Master Pump Panel - 2- 4 Zones

Model # CMPUMP-100-S-XXXX-XXXX-RUUD

Multiple Thermostat Zones - Using 2-4 Thermostats - Up to 3500 Sq. Ft.

Shown: Ruud Gas Boiler with Master Pump Panel (CMVALVE-100-S-XXXX-XXXX-RUUD) and a Zoning by Pump Panel (HS1T2Z-PMP) with 2 Thermostats heating tubing in-floor emitters.



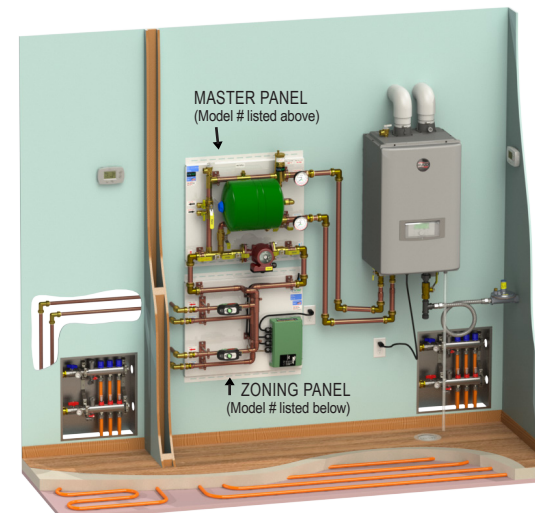
ZONING BY ZONE VALVE

Zone by Master Zone Valve Panel 2- 4 Zones

Model # CMVALVE-100-G-XXXX-2699-RUUD

Multiple Thermostat Zones - Using 2-4 Thermostats - Up to 3500 Sq. Ft.

Shown: Ruud Gas Boiler with Master Zone Valve Panel (CMVALVE-100-G-XXXX-2699-RUUD) and a Zoning by Zone Valve Panel (HS1T2ZZV) with 2 Thermostats heating tubing in-floor emitters.



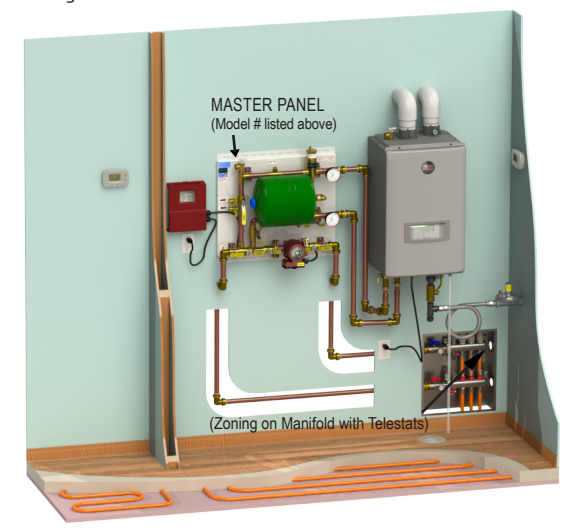
ZONING BY TELESTAT

Zone by Master Telestat Panel - 2- 4 Zones

Model # CMACTUATOR-100-G-XXXX-2699-RUUD

Multiple Thermostat Zones - Using 1 Manifold - Up to 3500 Sq. Ft.

Shown: Ruud Gas Boiler with Master Telestat Panel (CMACTUATOR-100-G-XXXX-2699-RUUD) with 1 - 4 Thermostats 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

2 TEMPERATURE ZONE BY PUMP PANEL

(2 Temperature panels have a mixing valve for systems with different emitter types)

2 Zone Model # HS2T2ZPMP - SKU: 665-1200

3 Zone Model # HS2T3ZPMP - SKU: 665-1201

4 Zone Model # HS2T4ZPMP - SKU: 665-1203

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

2 TEMPERATURE ZONE BY VALVE PANEL

2 Zone Model # HS2T2ZZV - SKU: 665-1220

3 Zone Model # HS2T3ZZV - SKU: 665-1221

4 Zone Model # HS2T4ZZV - SKU: 665-1222

SPECIAL ORDER

Other boilers, water heaters and accessories available on Menards.com

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.