



Zone Control Panels

The Original
“Boiler Room in a Box”

MBP and ZVP



MBP125



ZVPW0008

Prefabricated Zone Control Panel. Designed for use with high efficiency condensing /or modulating boilers.

Application

Capable of delivery up to 225 MBH based on a 25°F, Delta T, the MBP125 panel was designed specifically as a distribution panel for a Modulating condensing boiler system, providing Primary/Secondary piping with a separate DHW loop. The MBP125 expands our successful CMB series and can be combined with our ZVPW zone valve distribution panels to provide control or multiple zones or with a mixing panel to provide various design temperatures for a complex system.

Function

As a stand alone panel the MBP125 unit provides a boiler pump to provide circulation through the boiler loop, a System pump to provide circulation to the heating loop(s) and a DHW pump

The MBP125 is designed to be either wired to remote manifolds with their own thermostats or to be wired and piped to one of more of our ZVPW08 zone valve panel (up to 8 zones supplied – ¾” with Cv of 2.7).

A pressure bypass valve provides a minimum flow through the MBP125 panel when there is a limited demand for heat. signals from thermostats and a DHW aquastat. The terminal strip also provides connections for a heat or DHW signal to the boiler.

The MBP125 is equipped with an air eliminator and comes with a fill valve and an expansion tank connection.

Options

The MBP125 can be supplied less the DHW pump. The ZVP can be supplied with from 3 to 8 zone valves.

Construction

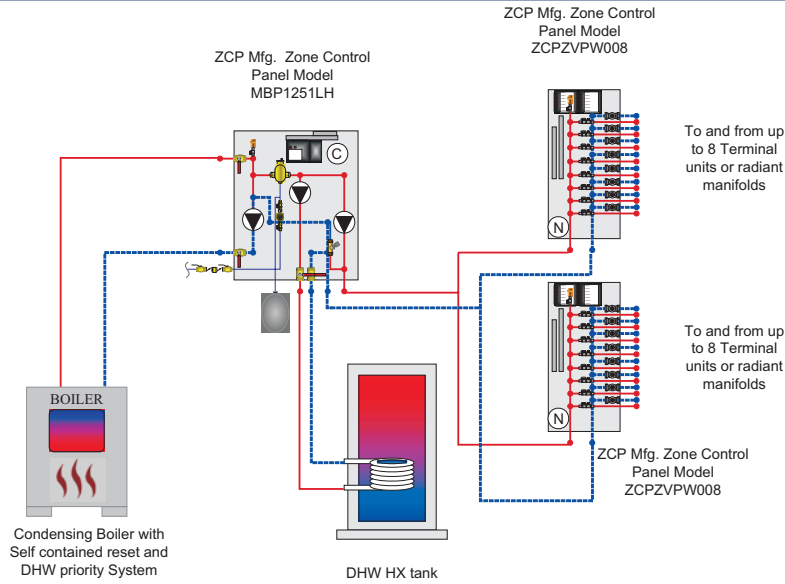
All MBP125 and ZVP zone control panels are contained in a lockable, wall mounted powder steel enclosure. Each component has been selected to provide efficient and reliable operation. Every MBP125 and ZVP panel is factory leak tested prior to leaving the factory. All electrical and mechanical components are thoroughly inspected and function tested.

FEATURES AND BENEFITS

- Pre-Engineered
All ZCP products are designed in accordance with accepted engineering practices and industry standard hydronic principles to provide efficient and reliable operation
- Pre-Assembled and Tested
Factory assembled using equipment specially designed for accuracy and uniformity.
- Pre-Wired to Simplify Installation
All controls are pre-wired and function tested to simplify installation. Line voltage to the panels is delivered by a standard 15 amp receptacle and a factory wired cord with plug.
- Compact, Packaged
Fill valve, air elimination, and expansion tank connections (supplied with the MBP125) minimize the need for additional field piping.
- Modern Enclosure
The factory-supplied, powder-coated enclosure provides protection from hot pipes and electrical controls, and discourages tampering.
- Approvals
The ETL listing confirms compliance with CAN/CSA-C22.2 No.14 & UL508, and provides assurance that relevant safety standards have been met.

MBP125

APPLICATION EXAMPLE



Standard Equipment: Air eliminator, air vent, fill valve, expansion tank connection, pressure differential valve, zone balancing and isolation valves, zone valves, thermostats, flow check valve, heating circulator, indirect DHW circulator, isolation valves, power pack, zone control, terminal strip, 115 V pre-wired cord with plug, all enclosed in a powder coated enclosure.

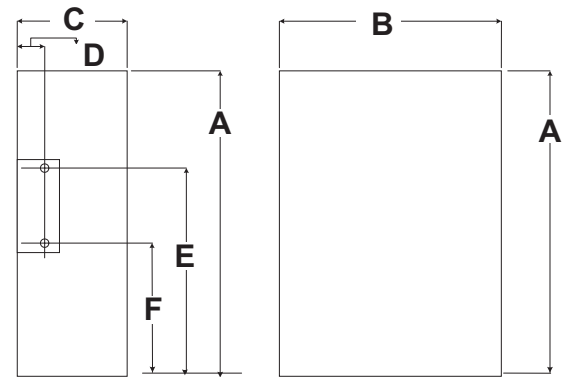


ETL listed
complies with CAN/CSA-
C22.2
No. 14 & UL-508

TECHNICAL DATA	MBP 125	ZVPW008
Panel Output ¹⁾ :	225,000 btu/hr	180,000 btu/hr
Max. Flow:	18 gpm	18 gpm
Max. Flow per Zone ²⁾ :	N/A	3.2 gpm
Heating Zones:	one 1 1/4" outlet	5 TO 8
Available Head/Heating:	28 ft	N/A
Available Head/DHW:	10 ft	N/A
Maximum Operating Pressure:	100 psi	100 psi
Maximum Ambient Temperature:	120 Deg. F	120 Deg. F
Max. Supply From Heat Source:	180 Deg. F	180 Deg. F
Max. Supply to Radiant System:	180 Deg. F	180 Deg. F
Weight incl. Cover::	165 lb	50 lb
Cover:	COATED STEEL	
Connections:	SUPPLY FROM HEAT SOURCE (PRIMARY) - 1 1/4" FPT RETURN TO HEAT SOURCE (PRIMARY) - 1 1/4" SOLDER SYSTEM RETURN AND SUPPLY (SECONDARY) - 3/4" FIP DHW RETURN AND SUPPLY - 1" SOLDER COLD WATER FILL - 1/2" FIP EXPANSION TANK CONNECTION - 3/4" FIP	
Power Supply:	Pre-wired cable plugs into standard 120V 15A dedicated receptacle.	

Dimensions/Weight:

MBP125



A	B	C	D	E	F
36-1/8	26-1/8	13	3-1/4	21-1/2	8-5/16

¹⁾ Panel output based on a temperature differential of 25° F between supply and return (secondary circuit).

²⁾ Maximum flow based on up to five loops (max. 250 feet in length) of 1/2" PEX radiant tubing with a maximum of 0.6 USGPM per loop.

Heat transfer fluid comprised of 100% water solution.

ZCP Mfg Inc.

8034, 11500-35th St. SE
Calgary AB T2Z 3W4
Tel: 403-236-9560

Fax: 403-236-0826
Email: lyndon@zcpinc.com
website: www.zcpinc.com

