

Innovatio

Submittal: HBX ZON-0500

Project:[

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HBX Controls Inc Specification

Part 1: ZON-0500 Product

1. The Hydronic Zone Control must be a full microprocessor control with at least an 8bit, 8MHz integrated microprocessor chip.

2. The Control must be capable of the following Input/Output Functions

- a. 4 x Demand (Thermostat) dry contact inputs
- b. 1 x Dry Contact Boiler/Chiller Output Relay
- c. 4 x 2-wire Zone Power Outputs (24-240VAC, 5A @ 120VAC)
- d. 1 x 2-wire Zone Power Input (24-240VAC)
- e. 2 x 24 VAC transformer outputs (6VA total, thermostat power only)

4. The Control must be capable of standalone operation, or directly interfacing (no crosswiring) as an expansion module with HBX CPU-1000 and HBX ECO-1000 controls.

5. The Control must allow, by DIP switches, for multiple priority selections.

- i. No zone priority
- ii. Sequential (left to right) priority
- iii. Zone pair priority (two left over to right)

iv. Module priority (module over module, left to right)

6. The Control must be daisy chainable, with no cross-wiring required, and there is no limit on how many can be connected together.

7. The Control must allow for zone post purge. Two different post purge times (45 or 180 seconds) should be available by DIP switch selection.

8. The Control, when functioning as a CPU-1000 expansion module, will have DIP switch selections for each zone, allowing for internal demands to be seen by the CPU-1000 as a high temperature demand (HTD), or heat demand (HD) when the CPU-1000 is operating in Mixing Mode.



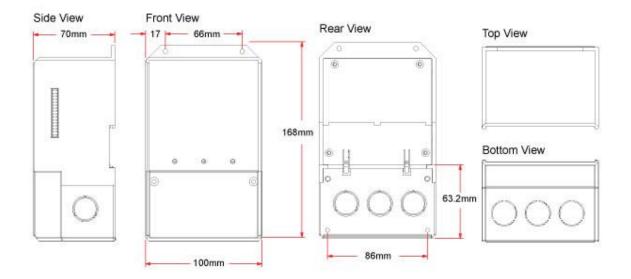
9. The Control, when functioning as an ECO-1000 expansion module, will have DIP switch selections for each zone, allowing for internal demands to be seen by the CPU-1000 as a heat demand (HD), or cool demand (CD) when the ECO-1000 is operating in Geothermal Mode.

10. The Control unit must be ETL approved.

Part 2: Acceptable Products

1. HBX ZON-0500 Control





Part 4: Technical Data, Main Parts & Labels

Inputs/Outputs:

- 1 x Boiler/Chiller Dry Contact (2A @ 120 VAC) Output
- 4 x Relay Powered Contact (5A @120VAC) Zone Outputs
- 4 x Dry Contact (Thermostat Inputs)
- 1 x Zone Power Input (24-240VAC)
- 2 x Thermostat power outputs (6VA total)





Power supply:

120 VAC, 2A (protected by integrated fast acting fuse)

Supplied Parts:

32-Pin Connector 033-0037

Dimensions:

3.94" x 6.61" x 2.76" (100mm x 168mm x 70mm)

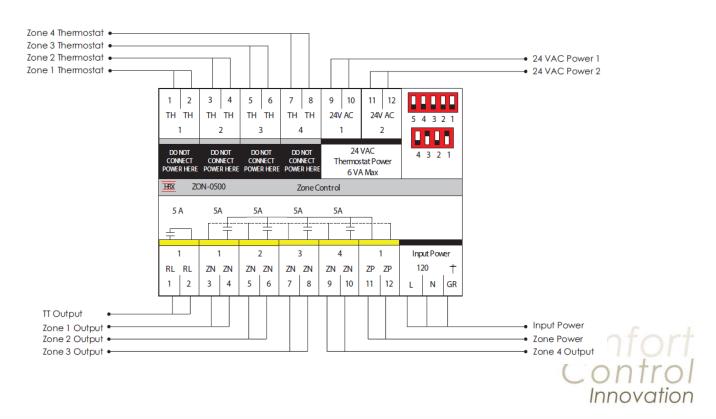
ETL Listings:

Meets CSA C22.2 No. 24 Meets UL Standard 873 ETL Control No. 3068143

Storage:

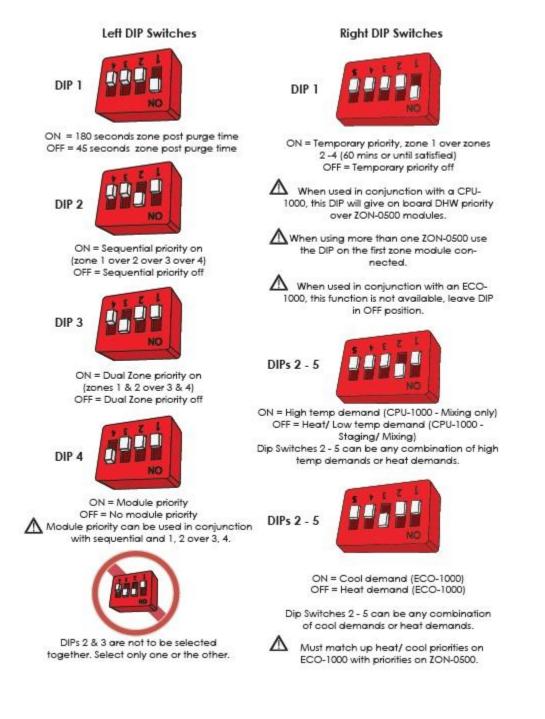
50°F to 104°F (10°C to 40°C)

Terminal Block Labels:





DIP Switch Functions:







Part 5: Connecting the ZON-0500 Module:

