

Hot Box® Modular

BACKFLOW PREVENTION ASSEMBLY ENCLOSURE SPECIFICATION

GENERAL

1.1 WORK INCLUDED

- A. Provide and install manufactured backflow prevention assembly enclosure.

1.2 QUALITY ASSURANCE

- A. Qualifications: The backflow prevention assembly enclosure manufacturer shall be a company specializing in the manufacture of backflow prevention assembly enclosures with at least 30 years of successful experience designing and selling enclosures to various customers in different climatic regions.

1.3 STORAGE AND HANDLING

- A. Store products in shipping containers and maintain in dry place until installation.

1.4 ACCEPTABLE MANUFACTURERS

- A. **Hot Box®** or Engineer approved equal.

1.5 REFERENCES

- A. ASSE 1060-Performance Requirements for Outdoor Enclosures for Backflow Prevention assemblies.
- B. ASTM B209.

PRODUCTS

2.1 MODULAR ENCLOSURE

- A. The roof, walls and access panels shall be constructed of 3003 aluminum (.051"/16 gauge), stucco embossed finish to reduces glare, finger prints and help hide surface scratches. Insulation shall be 1.5" (9.0 "R" value) thick.
- B. The wall panels shall be securely fastened together with self-tapping screws.
- C. The walls of the enclosure shall be securely mounted to the concrete slab with interior concrete anchors.
- D. The roof panel shall be securely fastened to the walls with self-tapping screws on the outside and mounting clips on the inside.
- E. The access panels shall have a two point locking system with pad lockable handle and be completely removable.
- F. Drain ports shall be sized for full port backflow discharge and designed for a one way operation allowing backflow discharge but not allowing wind, debris and small animals to enter the enclosure.

2.2 MATERIALS OF FABRICATION

- A. Aluminum sheeting shall be 3003 aluminum (.050/16 gauge), stucco embossed finish and shall meet ASTM B209. Stucco embossed finish reduces the glare, finger prints and helps hide any surface scratches or imperfections received in the field.
- B. Insulation shall be 1.5" thick polyisocyanurate foam laminated to a glass fiber reinforced facer on each side.
- C. The Insulation shall have the following properties:
 - R-Value 9
 - Dimensional Stability < 2% linear change, ASTM D 2126
 - Compressive Strength 20psi, ASTM D1621
 - Water absorption < 1%, ASTM C209
 - Product Density Nominal 2.0 pcf, ASTM D1622
 - Flame spread 25, ASTM E 84
 - Service Temperature -100°F to 250°F

Hot Box
3621 Industrial Park Drive
Lenoir City, TN 37771

Contact Information
Phone: (800) 346-3062
waterhlc@hubbell.com
www.hot-box.com

- D. No wood or particle board to be used in the construction.

2.3 HEATING EQUIPMENT (ASSE 1060 Class I-Required; ASSE 1060 Class II-Optional)

- A. Heating equipment shall protect the piping and equipment from exterior temperatures to -30°F. ETL listed thermostatically controlled wall mounted air forced heaters shall be furnished and designed by the enclosure manufacturer to maintain the equipment at +40°F, in accordance with ASSE 1060 1.2.2.1.
- B. Heating equipment shall be wall mounted to the supplied heater plates and a minimum of 8" above the slab unless it is UL or ETL certified and NEC approved for submersion.
- C. Power source shall be protected with a GFI receptacle, U.L. 943, NEMA.3R. Mounted a minimum of 8" from the bottom of the receptacle to the top of the slab.
- D. Separate 20 amp circuits are recommended for each heater, so in the event a circuit fails all other circuits will remain powered. Installations must be in accordance with the local and national codes.
- E. The heaters shall be ETL listed for wet/damp locations.

2.4 INSTALLATION HARDWARE

- A. Threaded fasteners shall be stainless steel and provided by the manufacturer.
- B. Concrete anchors shall be wedge type anchors and provided by the manufacturer.
- C. Masonry drill bit & Hex nut driver for threaded fasteners shall be provided by the manufacturer.

2.5 RECOMMENDED SLAB SIZE & INSTALLATION

- A. The recommended slab size shall be 9" larger than the enclosures exterior dimensions and a minimum of 4" thick.
- B. The enclosure shall be assembled and mounted to concrete pad per the manufactures instructions provided with the enclosure.
- C. Enclosure shall be assembled and mounted to concrete pad in such a way that it will remain locked and secured to the pad even if outside screws are removed.