

Hot Box® Designer Series™
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.

PRODUCTS

2.1 DESIGNER SERIES™ ENCLOSURES

- A. Enclosures shall have front and back hinged doors that are removable for full access to both sides of the equipment for maintenance and testing.
- B. Enclosures shall have a removable hinged top with gas shocks to support and secure the lid in an upright position for full access to the top of the equipment for maintenance and testing.
- C. Enclosure shall ship fully assembled to allow for quick installation by securing to the concrete pad with the supplied wedge anchors.
- D. Doors shall be locked from the interior of the enclosure and shall have no exterior handles or lock exposed to the elements.
- E. The top is lockable to deter unauthorized entry, theft and vandalism.
- F. Anchoring is supplied to secure to the concrete pad.
- G. Drain ports are sized for full port backflow discharge and are designed for a one way operation allowing backflow discharge but not allowing wind, debris and small animals to enter the enclosure.
- H. Standard enclosures shall be designed to support a minimum vertical load of 100lb/sf.
- I. Standard enclosures shall be designed to support wind speeds up to 120mph.
- J. Standard enclosures shall be ASSE 1060 certified.

2.2 MATERIALS OF FABRICATION

- A. Fiberglass is minimum of 1/8" thick Thixotropic polyester resin reinforced with fiberglass strand. A smooth yacht quality finish, protected with UV inhibited isophthalic polyester gel coat.
- B. No wood or particle board to be used in the construction.
- C. Anchor pads (galvanized steel) with 3/8-16 unc x 2 ¾ long zinc plated wedge anchors and drill bit are to be supplied.
- D. Insulation shall be 1.5" unicellular, non-wicking, polyisocyanate foam sprayed in place to form a monolithic bond to the fiberglass and is not affected by heat or cold. No clips or fasteners shall be used.
- E. The Insulation shall have the following properties:
- R-Value 10

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