Hot Box® Fiberglass

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 29 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 FIBERGLASS ENCLOSURES

A. Available in Drop over, Flip top, Vent Guard, Valve Cover & Roks.

B. Enclosure shall ship fully assembled to allow for quick installation by securing to the concrete pad with the supplied anchor hardware.

C. Enclosures shall be lockable.

D. 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.

E. Standard enclosures shall be designed to support a minimum vertical load of 100lb/sf.

F. Standard enclosures shall be designed to support wind speeds up to 120mph.

G. Standard enclosures are 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 isopthalic polyester gel coat.

B. Non molded products will utilize an Industrial exterior texture.

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

D. Insulation shall be 1”-1.5" unicellular, non-wicking, polyisocyanate foam frothed or sprayed in place.

E. The Insulation shall have the following properties:

R-Value	8
Dimensional Stability	less than 2% linear change
Compressive Strength	51psi
Flame point	325 degrees
Water absorption	.037psf
Porosity	91%

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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 or UL listed self regulating cable(s) 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 mounted to the supplied heater plates and/or a minimum 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 (wall mounted) and 15 amp circuits (self regulating cables) are recommended, 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 UL or ETL listed for wet/damp locations.

2.4 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 mounted to concrete slab per the manufactures instructions provided with the enclosure.

C. The enclosure shall not require assembly.