

# AquaSHIELD®

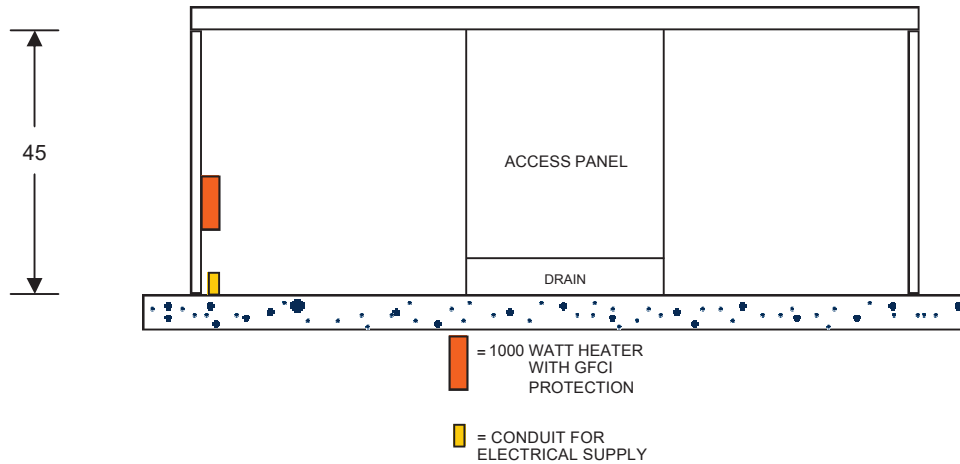
PROTECTIVE ENCLOSURES

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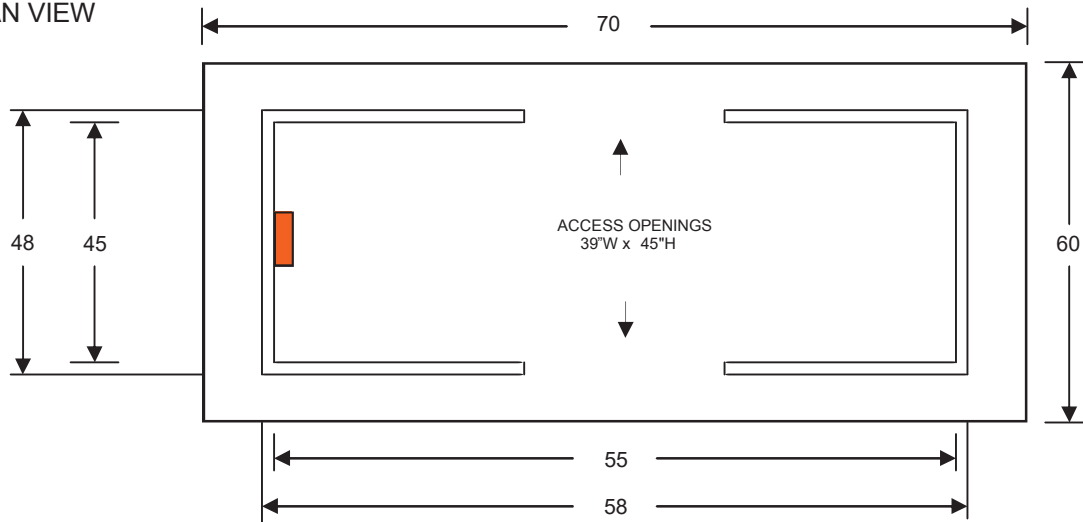
Enclosure Model #	BFP4-OA
Inside Dimensions:	55" L x 45" W x 45" H
Outside Dimensions:	58" L x 48" W x 48" H
Recommended Pad Size:	70" L x 60" W x 6" H
Wall Thickness:	1.5"
Roof Thickness:	3"
Heat if Required:	(1) 1000 W/120V/1PH Heaters
Enclosure Finish:	Mill Finish

AquaSHIELD suggests power source for heat be a designated circuit with GFCI protection.

## ELEVATION VIEW



## PLAN VIEW



JOB:

DRAWN BY: WH  
 SCALE: NONE  
 DATE: 11/21/22

Drawing: NOT TO SCALE  
 CONFIDENTIAL: This drawing is intended for use only by those authorized to receive it.  
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# **AquaSHIELD®**

## **PROTECTIVE ENCLOSURES**

### **Outdoor Enclosure Specifications**

#### **Model BFP4-OA**

## **1 GENERAL**

### **1.1 WORK INCLUDED**

- A. Provide manufactured outdoor enclosure for fluid conveying equipment.

### **1.2 QUALITY ASSURANCE**

- A. Qualifications: The manufacturer of the outdoor enclosure shall be a company specializing in the field of manufacturing of such enclosures with at least ten (10) years of successful field installations and be ASSE 1060 Seal certified.

### **1.3 REFERENCES**

- A. ASSE 1060-Performance Requirements for Outdoor Enclosures for Fluid Conveying Components.
- B. ASTM B209

### **1.4 ACCEPTABLE MANUFACTURERS**

- A. **AquaSHIELD** or Engineer approved equivalent.

## **2 PRODUCTS**

### **2.1 MODEL NO. & SIZE**

- A. Model No. shall be BFP4-OA
- B. Inside dimensions shall be 55 "L x 45 "W x 45 "H (+ or – 1/2")

### **2.2 MATERIALS OF FABRICATION**

- A. Materials for exterior walls shall be 5052-H32 aluminum (.050/18 gauge) and shall comply with ASTM B209. The aluminum shall have a factory mill finish, Hartford Green finish or Sierra Tan finish.
- B. Insulation shall be a closed cell polyisocyanurate foam core laminated to heavy black glass fiber reinforced facers on each side. The insulation shall have the following properties:
  - R-Value – 9.0
  - Dimensional Stability - 2% Linear Change
  - Compressive Strength - 20 psi and 25 psi
  - Product Density - Nominal 2.0 pcf
  - Water Absorption - <1% By Volume
  - Service Temperature - (-100°F to +250°F)
  - Moisture Vapor Transmission - < One (1) Perm
  - Flame Spread - 25
  - Insulation shall be 1.5" thick
- C. Adhesive shall be ChemLink WallSecure brand and shall have the following features:
  - Bonds foam products
  - Water resistant bond
  - Stays resilient

- Will not freeze
- Freeze/thaw stable

## 2.3 COMPONENTS

- The roof, walls and access panels shall be constructed of 5052-H32 (.050/18 gauge) mill finish, Hartford Green finish or Sierra Tan finish marine grade aluminum ASTM B209 on the outside with insulation 1.5" thick (9.0 "R" value) in the walls and access panels and 3" thick (18.0 "R" value) in the roof panel.
- The above components shall be securely bonded to form a composite panel.
- The exterior of the panels shall have a protective PVC masking to protect the finish. The protective masking shall be removed by the customer immediately after installation of the enclosure.
- The roof and wall panels shall be fastened together with self-tapping stainless steel screws through holes provided in panels.
- The roof panel shall be secured to the wall panels by stainless steel screws on the outside and security clips on the inside.
- Access panels shall be (2) total in number (1) per side and shall be 39"W x 45"H.
- Each access panel shall have factory installed locks with master keys provided.
- Drain relief panel for the enclosure shall be constructed of same said materials as wall panels and be located in one or more of the access panels.
- Drain relief panel shall have a stainless steel hinge and stainless steel spring as a positive means of closure after water discharge to prevent the intrusion of outside air, debris, and small animals.

## 2.4 HEATING EQUIPMENT

- Enclosure with heating equipment provided by manufacturer will maintain an interior temperature of +40°F with an external temperature of -30°F.
- Enclosure without heating equipment are designated for climates where the ambient temperature does not go below 33°F for long periods of time.
- Heater shall be ETL, UL, or CSA certified.
- Heating equipment shall be installed above the level of RPZ discharge.
- Electrical power source for heater shall be a designated circuit with GFCI protection. If a receptacle is used there must be a minimum of 8" clearance from receptacle base to top of slab.

## 2.5 INSTALLATION HARDWARE

- Threaded fasteners shall be stainless steel and provided by the manufacturer.
- Concrete anchors shall be wedge anchor or hit type and provided by the manufacturer. Optional anchors with Florida Building Code High-Velocity Hurricane Zone approval available.
- Masonry drill bit and screw chuck shall be provided by the manufacturer

## 2.6 INSTALLATION

- Recommended pad size shall be 70"L x 60"W x 6"T. If electricity is required in the enclosure conduit should be run when pouring the pad.
- Enclosure shall be assembled per manufacturer's instructions provided with enclosure.
- Enclosure shall be mounted to concrete pad per manufacturer's instructions.
- Enclosure shall be assembled plumb and square.