

# Plasti-Fab®

PRODUCTS FOR THE WATER AND WASTEWATER INDUSTRY

**FIBERGLASS  
INSTRUMENT SHELTER**

**PRODUCT  
BULLETIN E-2 (Rev.)**

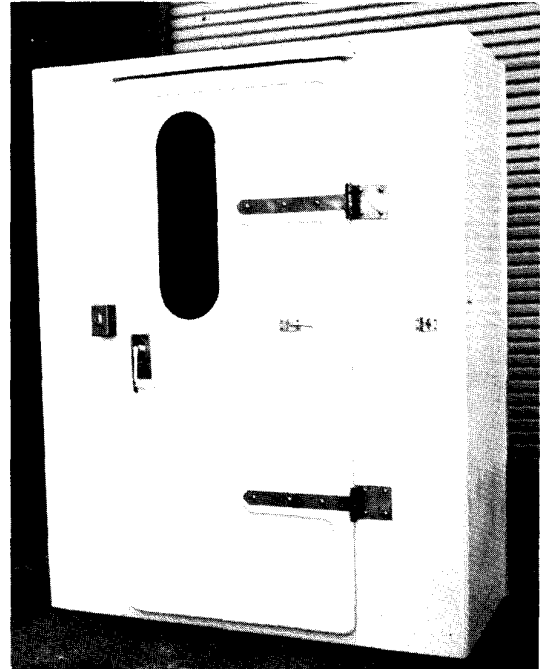
## **INSULATED FIBERGLASS SHELTER FOR:**

**INSTRUMENTS**  
**CONTROL EQUIPMENT**  
**MOTORS**  
**PUMPS**

NEMA 3R or NEMA 4X

### STANDARD SIZES

MODEL 1 5'-1" x 2'-1" (INSIDE) WT. 380 LBS.  
MODEL 2 5'-1" x 4'-1" (INSIDE) WT. 650 LBS.  
MODEL 3 3'-10" x 2'-2" (INSIDE) WT. 440 LBS.  
MODEL 5 5'-1" x 4'-6" (INSIDE) WT. 690 LBS.



### DESIGN FEATURES:

- Fully insulated sandwich construction consisting of polyurethane foam core between fiberglass reinforced polyester skins.
- Integral insulated floor.
- For installation in hot, cold and corrosive environments.
- Unistrut laminated to rear interior wall for equipment mounting.
- Low maintenance – single piece construction providing a rugged trouble free structure.
- Exterior surface – finished with smooth, white gelcoat. Optional colors available are green & beige
- Rain drip visor over door.

### STANDARD HARDWARE:

- Three point door catch.
- Stainless steel padlockable door handle.
- Heavy corrosion resistant hinges of stainless steel.
- Door holder holds door open in wind.

### MOUNTING:

- Bolt down to slab, timbers, structural steel or anchor to solid ground.

### AVAILABLE OPTIONS:

- Laminated glass or polycarbonate window installed with two piece neoprene moulding.
- 15 Amp. breaker.
- 60 watt light w/vapor tight bulb and non-metallic base.
- 110 volt convenience outlet.
- Weathertight exterior switch.
- Aluminum bulkhead vent with bug screen and adjustable damper.
- 115 volt dual exhaust fans having glass filled polycarbonate blades, wire finger guard, and impedance protected shaded pole motor with permanently lubricated porous bronze bearings. Fan capacity is 210 CFM free air. Fan control is with a thermostat/off-on switch.
- 500 watt 120 volt heater, Underwriters Listed with the heating element cast integral with the cast aluminum fins. An integral thermostat/off-on switch controls the heater. Heating element and thermostat are each replaceable without special tools.
- 3/4" plastic floor drain (marine thru-hull connector), with rubber and brass snap type plug, has an inside flange and outside threaded, flanged nut.
- Lifting eyes.

**SAMPLE SPECIFICATION:**

A fiberglass shelter(s) shall be furnished. Shelter(s) shall be \_\_\_\_\_ wide by \_\_\_\_\_ high by \_\_\_\_\_ front to back (inside). Shelter shall be moulded in one piece with 1" of polyurethane foam encapsulated between 1/8" fiberglass reinforced polyester skins. The floor shall be moulded integral with the sides and of the same construction, however the sandwich core material shall be closed cell rigid polyurethane foam having a density of not less than 6 pounds per cubic foot. Door hardware shall include: Three point door catch, stainless steel padlocking door handle, heavy duty corrosion resistant stainless steel hinges, rain visor over door and door holder to prevent door closing during windy conditions. The door seal shall be of closed cell foam neoprene per ASTM-SCE 41-4 and shall have a skin on all surfaces. Unistrut shall be laminated to rear interior wall for supporting instruments. [A 3/4" plastic floor drain shall be installed having a threaded main body extending through the shelter wall secured on the outside with a threaded flanged plastic nut and sealed with RTV Silicone sealer making a watertight seal. Opt.] Exterior shall be finished with smooth white gelcoat. The shelter shall comply with NEMA 3R (or NEMA 4X) requirements dependent upon optional equipment which shall include \_\_\_\_\_.

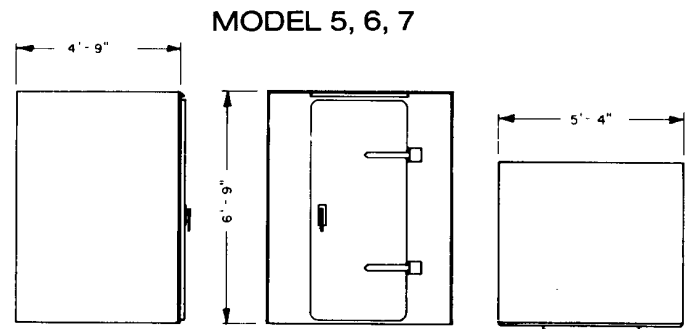
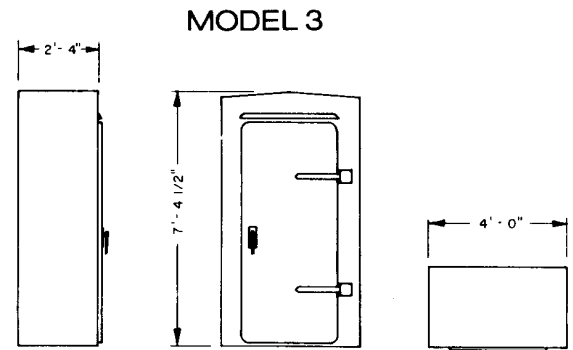
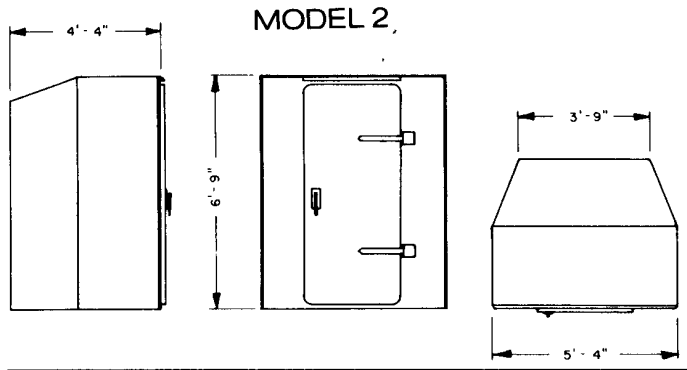
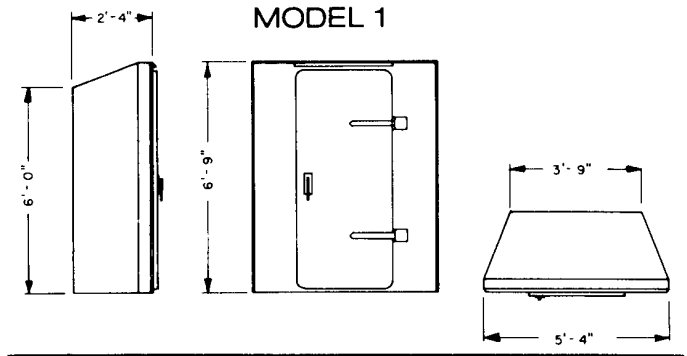
**Options:**

The shelter shall be equipped with a 500 watt 120 volt Underwriters Listed heater having cast aluminum fins that are cast integral to and encase the heating element. The heater shall include an integral thermostat/on-off switch. Construction of the heater shall permit replacement of either the switch or aluminum heating element without replacement of the entire unit and shall not require special tools. Vents shall have bug screens and be of aluminum with adjustable damper or an FRP corrosion resistant shroud. Window, if required, shall be of 1/4" laminated glass (or polycarbonate) and shall be set with neoprene two-piece window moulding. The shelter shall be equipped with dual fans having a free air capacity of 210 CFM. The fans shall exhaust air high on one side or the back as specified. The inlet vent opening shall be low on the opposite side as shown. The fans shall be thermostatically controlled. The fans shall have an impedance protected shaded pole motor with permanently lubricated bearings of porous bronze, blades shall be of glass filled polycarbonate and a finger guard shall be provided over the fan.

**Installation:**

Installation may be accomplished by bolting through the integral shelter floor to existing floor pad or other flat surface.

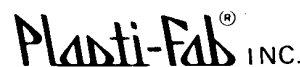
Shelter(s) shall be as manufactured by PLASTI-FAB, Inc., P.O. Box 100, Tualatin, Oregon 97062 (or equal).



Deduct 1/4" Per Side for Inside Dimensions

FLUMES • GATES • WEIRS • BAFFLES

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 BUL E2 (Rev.)



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