

# Fire Resistant Enclosure Installation Instructions

Part Number: 5010-003



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## PURPOSE

The purpose of the Fire Resistant Enclosure (enclosure) installation instructions is to ensure proper preparation of the ECS unit base and enclosure as well as design and installation.

## ASSEMBLY PACKAGING

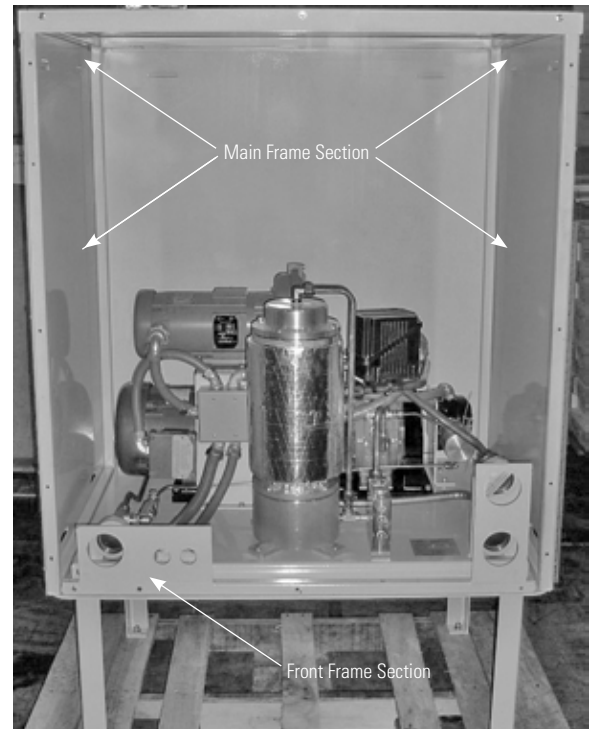
The enclosure is shipped fully assembled with the four side panels and the top attached to the 1" steel tubing frame. THE ENCLOSURE MUST BE DISASSEMBLED PRIOR TO INSTALLING THE ENCLOSURE TO THE ECS UNIT.

## PARTS

#	Part	Description
1	Main Frame Section	1" x 1" steel tubing with 4 sides welded to form the frame
1	Front Frame Section	1" x 1" steel tubing with 2 piping steel plates attached
4	Side Panels	16 gauge steel side panels: (1) Front panel (1) Back panel (2) Side panels
1	Top Panel	16 gauge steel top
10	Bolts	1/4" x 2" steel bolts, lock nuts, and 20 washers

**Figure 1.**

Fire Resistant Enclosure



## ORDER OF ASSEMBLY - OVERVIEW

1. The ECS unit must be bolted to the concrete pad (or roof top, or canopy) prior to installing the Fire Resistant Enclosure.
2. The ECS unit CANNOT have any piping or electrical connection made to the ECS unit.
3. The holes that attach the Fire Resistant Enclosure to the ECS unit MUST BE DRILLED in the lip of the ECS base.
4. The front frame section of the Fire Resistant Enclosure MUST BE bolted to the ECS base prior to making any piping or electrical conduits connections.
5. Install the piping and electrical conduits/wiring to the ECS unit as outlined in the ECS Installation Manual
6. Install the main frame section and bolt to the ECS unit lip.
7. CAUTION: The ECS unit should be completely installed and tested prior to installing the Fire Resistant Enclosure panels.
8. After the ECS unit has been installed, tested, and is ready for start-up, install the (4) panels.
9. The installation of the Fire Resistant Enclosure is complete.

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## ORDER OF ASSEMBLY INSTRUCTIONS

### 1. Disassembly of the Fire Resistant Enclosure

- a. Remove the 4 panels from the frame by removing the 6-20 x 1/2" zinc-plated, steel, hex-head screws using a 3/8" socket.

(To save time, using a drill with a socket shaft extension).

- The panels will slide out from under the top when the screws have been removed.
- The front frame section will be loose when the front panel has been removed from the main frame.
- The top does not need to be removed from the main frame

- b. The enclosure, disassembled, is now ready to be installed on the ECS unit.

### 2. Preparation of the ECS Unit to Install the Fire Resistant Enclosure

The enclosure metal frame has 10 bolt holes in the bottom section that are used to attach to the ECS base using the 1/4" x 2" bolts. The contractor MUST DRILL (10) 5/16" diameter holes in the ECS unit lip to attach the enclosure main and front frame.

Mark the ECS base lip for hole locations. The contractor may use the holes in the bottom tubing of the frame to mark the holes on the ECS unit lip.

- a. Place the main frame on the ECS base lip.
- b. Make sure the frame is equal distance from the base lip on all sides.
- c. Use tape to hold the main frame in place while marking the hole locations.
- d. Mark the 6 hole locations on the base lip, two per side, with a marker or center punch.
- e. Place the front frame section on the base lip with the pipe penetrations aligned with the pipe fitting on the ECS unit. The ends of the front frame section should be 1/4" from the main frame.
- f. Mark the 4 hole locations on the base lip with a marker or center punch.
- g. Remove the main and front frame sections from the base.
- h. Drill the (10) 5/16" holes in the lip.

### 3. Assembly of the Fire Resistant Enclosure on the ECS Base

The main frame section sits on the ECS base lip with the frame tubing sitting on the sides and back of the ECS unit.

This section is bolted to the ECS unit with 6 of the 1/4" x 2" bolts.

The front frame section is bolted to the front lip of the ECS unit. When installed, the pipe penetrations on the two steel plates align with the pipe fittings on the ECS unit. This section is bolted to the ECS unit with 4 of the 1/4" x 2" bolts.

**CAUTION:** The front frame section must be installed prior to connecting any piping and electrical conduit to the ECS unit.

The panels and the top are attached using 6-20 x 1/2" zinc-plated, steel, hex-head, self-drilling screws.

THE ECS UNIT IS NOW READY FOR START-UP