

**SHOWER STATION WITH RECESSED CABINET**

MODELS: 01112430, 01112486, 01112487,  
01112488, 01112489, 01112490

**PRODUCT DESCRIPTION**

**PATENT PENDING**

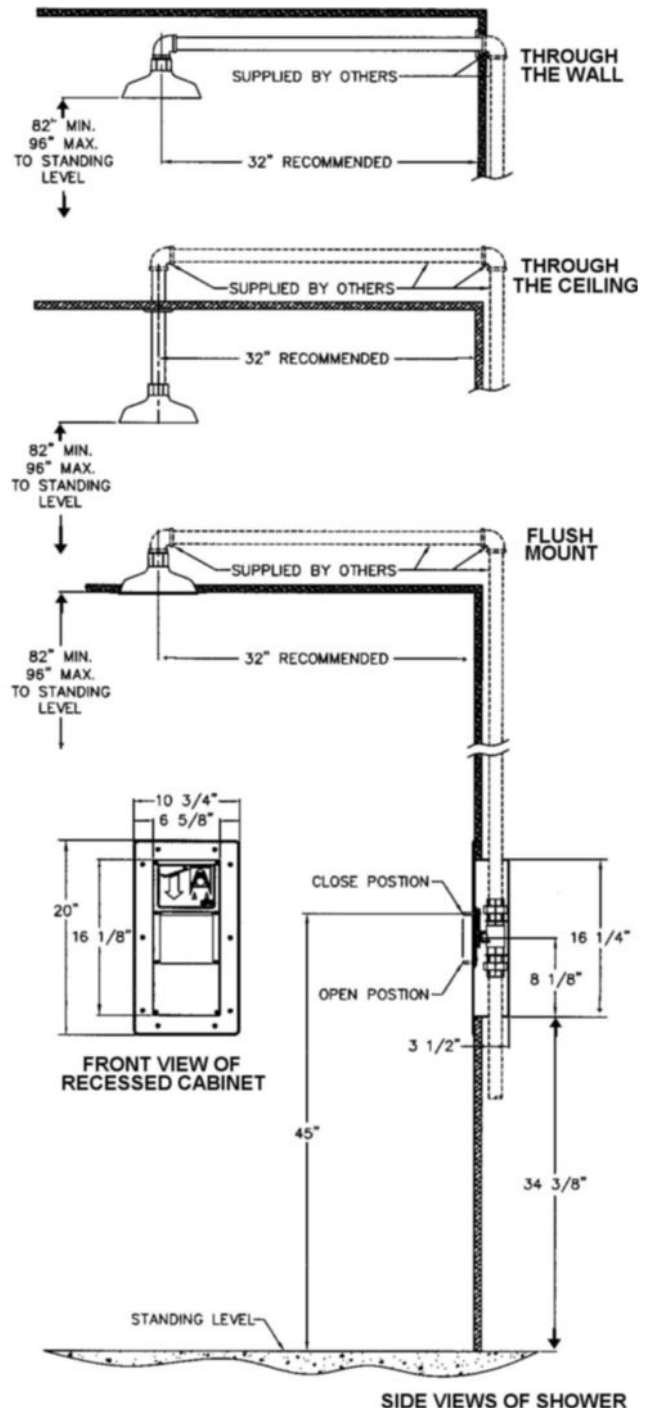
Emergency shower station is designed as a barrier free station for installation in areas where people may come into contact with hazardous materials. Three overhead shower configurations are available to meet various installation site requirements, as shown in Figure 1 below. The shower actuator is an integral component of the flush mounted recessed cabinet, designed for barrier free accessibility.

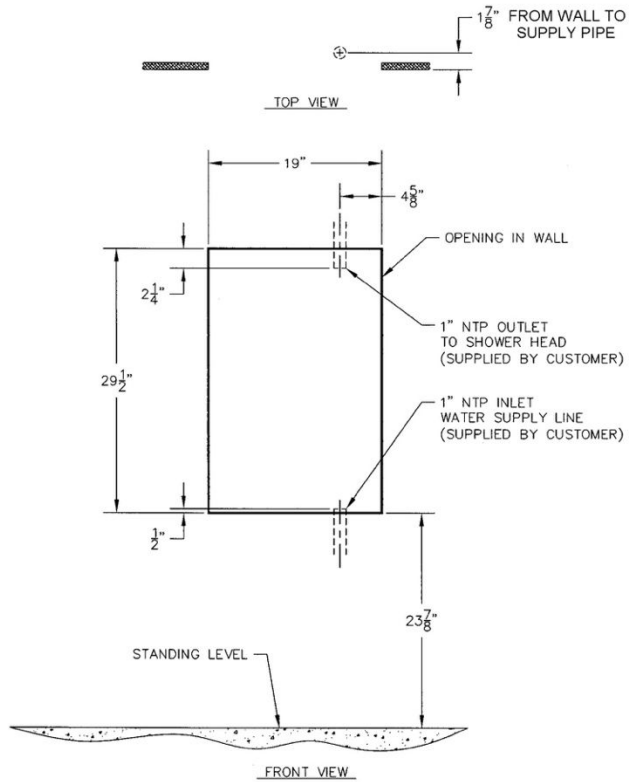
**GENERAL INFORMATION**

Following are requirements of ANSI Z358.1 for Emergency Eyewash and Shower Equipment. A complete copy of this standard may be purchased from the International Safety Equipment Association.

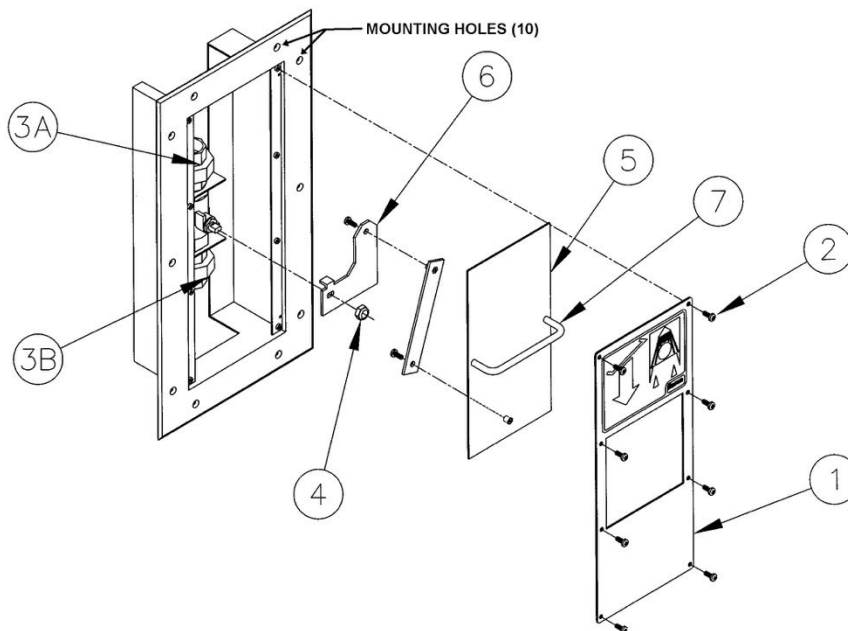
1. Unit shall be installed in accordance with the manufacturer's instructions and acceptable plumbing practices.
2. The height of the shower head shall be not less than 208.3 cm (82 inches) nor more than 243.8 cm (96 inches) from the surface on which the user stands.
3. The unit shall be connected to a system capable of supplying adequate flushing fluid to meet the flow requirements of each component operating simultaneously. The supply line shall provide an uninterrupted supply of potable water at recommended minimum 0.207 megapascal (30 pounds per square inch) of flow pressure.
4. Where the possibility of freezing conditions exists, equipment shall be protected from freezing or freeze-protected equipment shall be installed.
5. When a shower is installed, it shall be tested in accordance with the following procedures:
  - a. With the unit correctly connected to the water source and the valve(s) closed, visually check the piping connection for leaks.
  - b. Open the valve to the full open position. The valve shall remain open without requiring further use of the operator's hands.
  - c. With the valve in the "full on" position, measure the diameter of the spray pattern. It shall be a minimum of 50.8 cm (20 inches) at 152.4 cm (60 inches) above the standing surface. The center of the spray shall be at least 40.6 cm (16 inches) from any obstructions.
6. Shower units shall be in accessible locations that require no more than 10 seconds travel time from the farthest hazard.
7. Each unit location shall be identified with a highly visible sign. The area around the unit shall be well lit.
8. Plumbed units shall be inspected annually for proper operation to ensure compliance to ANSI Z358.1 standard.

**FIGURE 1**





**FIGURE 2**  
**WALL MOUNT LAYOUT**



**FIGURE 3**  
**COMPONENT PARTS**

NO.	COMPONENT
1	Plate Cover
2	1/2x10-32 Screws (8)
3A	1" Union (upper)
3B	1" Union (lower)
4	Valve Lock Nut
5	Slide Plate
6	Valve Actuator Arm
7	Handle

# ASSEMBLY AND INSTALLATION INSTRUCTIONS

## **CAUTION:**

1. Check for adequate wall strength.
2. Suitable anchorage is required.
3. Use of a power or air tool is not recommended.

## **ATTACHMENT TO WALL - Mounting fasteners are not included. See Step #9 below**

- Stud:** Cut piece of wood (1" x 8"). Wood should be long enough to bridge between wall studs. Fasten wood to existing studs. Use ten (10) 1/4" dia. lag screws to mount recessed cabinet. Screws should be long to ensure adequate anchorage into the stud supports.
- Concrete Block:** Use ten (10) 1/4" dia. toggle screws.
- Concrete:** Use ten (10) 1/4" dia. expansion anchors or equal

## **NOTES:**

- 1) Piping between recessed cabinet and shower head assembly must be supplied and installed by others. See **Figure 2** Wall Mount Layout on page 2.
- 2) Mounting fasteners are not included. Must be supplied by others.
- 3) Identify desired target area for shower head assembly and cabinet.
- 4) Required height of the shower head should be between 82" to 96" from the surface in which the user stands. Recommended location 32" from wall to centerline of shower head directly in front of the recessed cabinet. For reference, see **Figure 1** on page 1.
- 5) Recessed cabinet requires an opening in the wall 7" wide by 16 1/4" long, with the bottom of the opening at 34 1/2" above standing level. For reference, see **Figure 2**. There should be at least 2" clearance beyond opening to accommodate cabinet mounting flange.
- 6) It is recommended to frame the opening so that the recessed cabinet has a sturdy structure for surface mount support.
- 7) Location for the installation of customer supplied plumbing for 1" NPT inlet and outlet water supply lines (supplied by others) is 4 1/2" from the right side of the wall opening and extend 4 3/4" beyond the wall opening. For reference, see **Figure 2**.
- 8) An area 48" wide by 30" out from wall must be kept clear for wheelchair accessibility.

1. Supply piping should have been installed as indicated on **Figure 2** on page 2.
2. Wall opening should be 7" wide by 16 1/2" long, with the bottom of the opening at 34 1/2" above standing level.
3. The recessed cabinet is packaged fully assembled. Prior to wall installation, remove plate cover (#1) by unscrewing eight 3/8x10-32 screws (#2) using a Phillips screwdriver. **CAUTION: DO NOT USE A POWER TOOL OR AN AIR TOOL.** For component parts list, see **Figure 3** on page 2. Place plate cover and screws to one side.
4. Slide plate (#5) and valve actuator arm (#6) are now free to swing to the side allowing access to upper and lower unions (#3A/B).
5. Remove the appropriate half of the lower union (#3B) and attach the union fitting to 1" NPT inlet potable water supply line using pipe wrench and appropriate pipe sealant.
6. Insert recessed cabinet into wall opening.
7. Reconnect lower union (#3B) to the union fitting. Use appropriate pipe sealant. **DO NOT TIGHTEN UNION AT THIS TIME.**
8. Attach 1" NPT outlet water supply piping (supplied by others) to upper union (#3A) and run piping to shower head assembly site using pipe wrench and appropriate pipe sealant. **DO NOT TIGHTEN UNION AT THIS TIME.**
9. Ensure recessed cabinet is level and secure cabinet mounting flange to wall using appropriate fasteners (supplied by others).
10. **TIGHTEN ALL UNIONS AT THIS TIME USING PIPE WRENCH. NOTE:** Do not replace plate cover (#1) at this time.
11. Hole requirements for installation of Shower Head Assembly:
  - a. Flush mount and through the ceiling models – See Note #4 above:  
Mark ceiling to identify shower head assembly hole location and carefully cut away for opening. Size of opening:  
Flush Mount Model: 8 1/2" diameter to accommodate shower head and trim ring  
Through the Ceiling Model: 1 1/2" diameter to accommodate escutcheon plate and 1" NPT nipple
  - b. Through the wall model:  
Mark wall to identify overhead shower head assembly hole location and carefully cut away for opening. Required height location of opening should be between 87 1/2" to 91 1/2" from centerline of opening to standing level and directly above centerline of the recessed cabinet. Opening should be no more than 1 1/2" diameter to accommodate escutcheon plate and 1" nipple.

12. Installation of Shower Head Assembly:
  - a. Flush mount model: With trim ring placed around shower head, insert shower head assembly into ceiling opening. Attach shower head to the 1" overhead water supply line connection (supplied and installed by others) using a crescent wrench (recommended hand tool) and appropriate pipe sealant. Tighten until snug.
  - b. Through the ceiling model: Insert 1" NPT nipple (included) through ceiling opening and attach nipple to the 1" overhead water supply line connection (supplied and installed by others) using pipe wrench and appropriate pipe sealant. Place escutcheon plate (included) around nipple with flange side facing ceiling and position plate flush to the ceiling. Attach shower head to nipple using a crescent wrench (recommended hand tool) and appropriate pipe sealant. Tighten until snug.
  - c. Through the wall model: Insert 1" NPT nipple (included) through wall opening, and attach nipple to the 1" water supply line connection (supplied and installed by others). Place escutcheon plate (included) around nipple with flange side facing wall and position plate flush to the wall. Attach 1" x 90° street elbow (included) to nipple, follow by the 1" x close nipple (included). Use pipe wrench and appropriate pipe sealant when threading components. Attach shower head to the 1" x close nipple using a crescent wrench (recommended hand tool) and appropriate pipe sealant. Tighten until snug.
13. Prior to replacing plate cover (#1), visual test unit for leaks and proper water flow patterns by activating shower valve to open position using protruding handle (#7). Activation graphic is shown on cabinet. Recommended maximum dynamic water pressure 80 psi / minimum dynamic water pressure 30 psi.
14. After testing is complete, replace plate cover (#1) and eight 3/8x10-32 screws (#2) using a Phillips screwdriver.  
**CAUTION: DO NOT USE A POWER TOOL OR AN AIR TOOL.**

## REPLACEMENT PARTS LIST

P/N 01052102	1" Ball Valve Kit	P/N 01055007	Stainless Steel 30 GPM Shower Head
P/N 01055005	Stainless Steel 20 GPM Shower Head	P/N 01055008	Stainless Steel 30 GPM Shower Head
P/N 01055006	Stainless Steel 20 GPM Shower Head w/Trim Ring, for flush ceiling mount models		w/Trim Ring, for flush ceiling mount models
		P/N 01113007	Decal, Shower Activation Graphic

## OPERATION & MAINTENANCE

1. Plumbed units shall be activated weekly to flush lines and verify proper flow pattern and volume.
2. Test records should be maintained verifying compliance with testing procedures.
3. Some chemical vapors or liquids may damage or soften plastic materials. Precaution should be taken to determine compatibility prior to installation.

## TRAINING

All employees who might be exposed to hazardous material shall be instructed in the location and proper use of emergency shower and eye/facewash units. Experiences have shown that initial first-aid treatment for irritates should be to wash the eyes and face for 15 minutes prior to medical treatment. It is important to hold the eyelids open and roll the eyes so water will flow on all surfaces and in the folds surrounding the eyes.

## PROPOSITION 65

**WARNING:** This product can expose you to BPA, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

## WARRANTY STATEMENT

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1. Encon is notified of the defect within one year of shipment, and
2. the product is determined by Encon to be defective.

Encon requires proof of original ownership as proof of warranty coverage, and Encon must receive any claim under this Limited Warranty within one year of purchase of the product.

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Encon's total liability arising out of this warranty (including, but not limited to, warranty claims) regardless of forum and regardless of whether such action or claim is based on tort, contract or otherwise will not exceed the total purchase price of the product.



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