

In-Shower Fog-Free Mirror

Electric Mirror 170 W Dayton St, Suite 106A, Edmonds, WA 98020 425-776-4946 888-218-9238



Installation Instructions

UL & Canadian Recognized

READ THE ENTIRE INSTRUCTION SHEET BEFORE INSTALLING

US and Canadian Versions: 110-120 volts, 50/60 htz.

SIZE: 11-3/4"x 11-3/4"

POWER: 25 watts

MODEL: SV1212V12-120V

SIZE: 11-3/4"x 23-3/4"

POWER: 45 watts

MODEL: SV1224V12-120V

Electrical Requirements

The In-Shower Fog-Free Mirror is supplied with three components:

A UL listed class 2 transformer with a 120 V 50/60 Hz primary and a 12 VZC secondary. The transformer is used to safely power the defogger at 12 volts.

A UL listed class 2, 16 gauge cable conductor, 25 feet in length which is used to connect the mirror defogger component to the transformer.

An In-Shower Mirror with Defogger

Any installation may be used that satisfies the National Electrical Code and meets the following criteria:

1. The transformer is placed in a dry location outside the shower. Avoid locations, such as in a cabinet under a basin, where transformer may become wet due to failure of water lines or valves.
2. The 120 VAC or 240 VAC power source that supplies the transformer is controlled by a switch.
3. The Class 2 wire is run from the transformer to the defogger location in the shower.

EASY STEPS FOR INSTALLATION

1. Specify mirror location.
2. Determine power switch control.
3. Determine transformer location.
4. Place Class 2 wire.
5. Install transformers.
6. Connect Class 2 wire.
7. Adhere mirror to wall.

TOOLS AND PARTS NEEDED

Light switch

Wire nuts

Sheetrock saw

2^{1/8}x4" metal box (step #5)

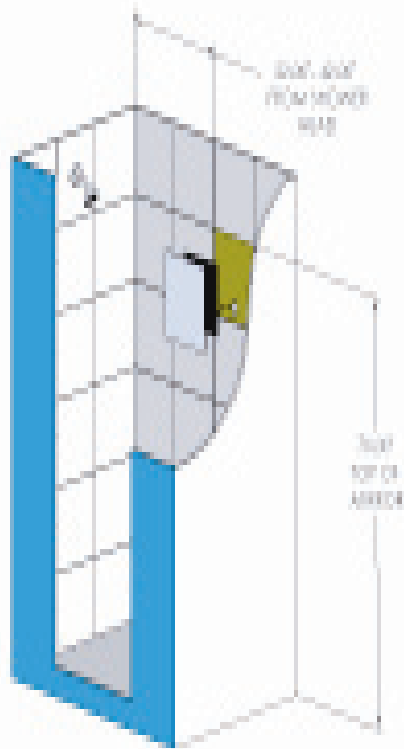
Wire stripper

Romex cable

1/2" conduit lock net.

2^{1/8}x4x1^{7/8}" extension (step #5)

Diagram A



1 Specify Mirror Location

Specify mirror location. Choose a location in the shower which is clear of water spray and splashing but close enough to allow the user to stand in the water stream (approximately 22 to 42 inches (56 to 107 cm) from shower head). Do not place the mirror below the shower head as the spraying water interferes with visibility. The mirror should be located to accommodate the height of an average person. A common location is to place the top of the defogger 5'10" off the shower floor.

2 Determine switch control

Power to the transformer must be controlled by an on/off switch. Since the unit is designed to prevent condensation from forming, it should be activated prior to the shower being turned on. In most circumstances it is best to have the defogger activated by the switch that controls the overhead shower light. This helps ensure the defogger is on prior to entering the shower and is a simple way to have the defogger activated by any person not familiar with the product. If the mirror is on its own separate switch it is preferable to use a lighted switch to indicate when it is in operation.

3 Determine transformer location

Place the transformer in a dry accessible location outside the shower that is accessible. Avoid locations, such as in a cabinet under a basin, where the transformer may become wet due to failure of water lines. Installation in clothes closets should be restricted to the surface of the wall above the door or on the ceiling, with a minimum clearance of 6 inches being maintained between the transformer and the nearest point of storage. Run power from the control switch to the transformer. The control switch activates the transformer which thereby reduces the voltage to 12 volts. The Class 2 wire connects the transformer to the defogger. An electrical box (2 1/8" x 4") with an extension (2 1/8 x 4 x 1 7/8) will accommodate a surface mounted transformer (see diagram B).

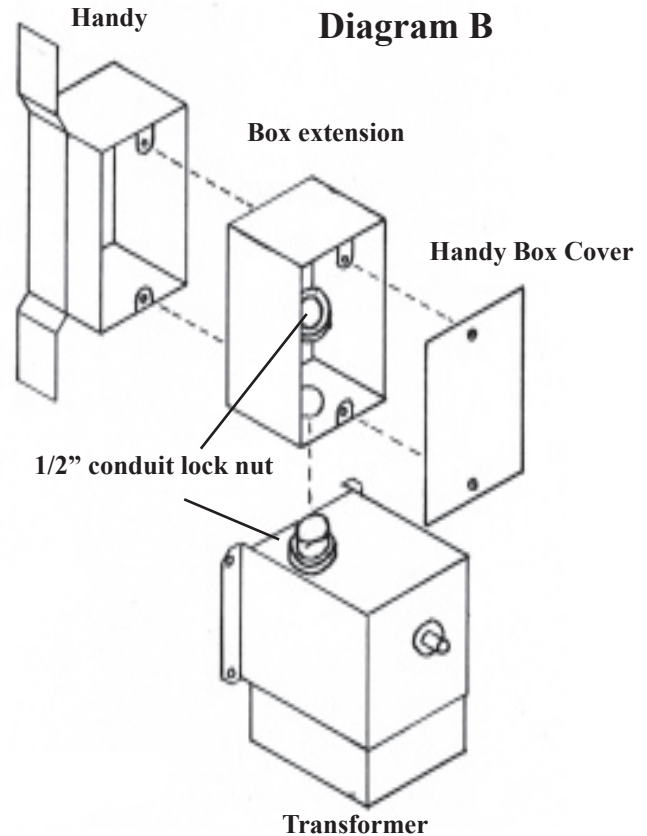
4 Place Class 2 wire

Run the Class 2 wire behind the wall from the mirror to the transformer. Ensure that the wire extends 12 inches through the wall, on the mirror end, so it may be accessed for mirror installation. Leave an extra 12 inches of wire to run through the wall next to the transformer connection box.

5 Install electrical box, extension and transformer

Place the 2 1/8 x 4 metal box on the stud in such a manner that it will extend through the wall covering. Run the power leads from the switch into the box. After the wall is in place add a 2 1/8 x 4 x 1 7/8 extension onto the box in the wall. Remove the knock out from the bottom of the extension. Place an extra nut on the transformer nipple so as to gain space for the box cover. Slip the transformer nipple into the knockout hole and mark the two bottom transformer mounting holes on the wall. Anchor the transformer to the wall with appropriate screws or wall anchors. Tighten the transformer nipple in the extension box with the nut provided.

Connect the incoming green ground wire to the box with a clip or grounding screw. For 120V connect the black incoming lead to the black transformer lead. Connect the white incoming lead to the white transformer lead. FOR 240V CONNECT THE BLACK INCOMING LEAD TO THE BLACK TRANSFORMER LEAD. CONNECT THE RED INCOMING LEAD TO THE YELLOW TRANSFORMER LEAD. Place a cover on the extension box.



6 Connect Class 2 wire

Using wire nuts connect one of the Class 2 leads, to the blue transformer wire (this is on the secondary voltage side). Connect the other Class 2 lead to the red transformer wire (this is also on the secondary voltage side).

7 Adhere mirror to wall.

When installing the mirror, place mirror adhesive around the perimeter of the mirror back and adhere the mirror in position. Complete the installation by applying a silicon sealer between the mirror and the tile. Mirror should be flush with tile or marble surface. Do not put on top of tile surface but flush with tile surface.