



## INSTALLATION MANUAL

### FAN EXHAUST RETROFIT MODEL: 55005527

#### Product Description:

FAN EXHAUST AND LOUVER RETROFIT WITH ELECTRICALS FOR TWS 4X8 ENCLOSURE

#### Assembly and Installation Instructions:

*Note: For all places where equipment or hardware is being mounted through the Frame of the Building, ensure that the connections are sealed from external environment using appropriate insulation. The bolts include sealing washers, however there may be other places that are not as easily insulated.*

Refer to Drawing B0516 for visual of steps 1-7 and wiring ladder diagram for the thermostat.

1. Attach relay mounting rail to empty space on the main junction box mounting plate using the included 8-32 screws.
2. Attach relay socket to mounting rail and plug relay in to socket.
3. Mount the 2" hub to the side of the main junction box with the existing thermostat.
4. Mount one 2" hub to the top of the main junction box and the other opposite the 2" hub
5. Attach ground wire in the junction box to the hubs previously installed.
6. Screw the thermostat into the 2" hub, the 90deg conduit connector into the 2" hub on the side and the straight conduit connector to the 2" hub on top of the main junction box.
7. Wire the thermostat into the system.
8. Replace 25amp fuse in main junction box with new 30amp fuse.

For steps 9-12, Refer to Drawing B0517 for the locations of the holes in the outside walls of the 4x8 structure required to install the exhaust fan and damper and for the placement of the bolts and washers. *Note: The measurements for these locations are approximate. The holes must be placed so that the new equipment does not interfere with existing parts and allows full range of motion for shower doors.*

9. Cut 2 - 13" by 13" squares holes *centered* at the locations indicated on page 2 of B0517.
10. Center the damper with the flange on the outside of the building in the hole near the shower doors.
11. Mount the damper to the wall with included bolts, washers and nuts.
12. Center the exhaust fan with the flange on the inside of the building in the remaining hole and mount using included bolts, washers, and nuts.
13. Open junction box on exhaust fan and pull the wires out of the hole in the junction box.

14. Attach one 1/2" to 3/4" enlarger to the box using the 1/2" conduit nut and screw the remaining 90 deg conduit elbow to the enlarger ensuring it is facing the ceiling. Finally route the wires back through.
15. Screw together the 1/2" to 3/4" enlarger and remaining straight connector and attach to the port on the damper actuator that contains a pair of wires (Hot and Neutral). Cap the set of three wires (S1, S2, and S3) in the other port and tuck out of the way as they are use for an auxiliary switch that will not be used.

For steps 16-19, Refer to Drawing B0517 for suggested routing of flexible conduit between fan and main junction box and damper and main junction box, electric ladder diagram for wiring the damper and exhaust fan, and clamp placement for the conduit.

16. Cut flexible conduit to length, Pull in required wiring to attach damper and exhaust fan to the appropriate connections in the main junction box, and attach conduit between connectors.
17. Wire in the damper and exhaust fan to the main junction box.
18. Mount the flexible conduit to the ceiling of the building using included bolts, washers, nuts and conduit clamps.
19. There are 10 clamps included, but only 8 are being used in suggested routing.