

# Ceiling-Suspended Fan Coil Units 1½ to 5 Tons Accessory Condensate Pump

Cancels: IIK 619C-18-1 IIK 619C-18-2  
7/15/01

## Installation Instructions

Part No. 53DS900-079

### GENERAL

NOTE: Read and become familiar with these instructions before beginning the installation.

The Condensate Pump Accessory kit is for use with 1½ to 5 ton Ceiling Suspended Fan Coil units. The pump is designed to control condensate removal from the fan coil unit. The float switch will prevent overflow while in use and act as a safety device by shutting down the compressor. The pump is designed to provide a 20 in. maximum lift of condensate in situations where space and construction prevent gravity drainage. The pump will run at all times when the unit is operating in Cooling mode and the condensate water level is over ¾-inch. Refer to Table 1 for a list of parts included in this kit.

#### ⚠ CAUTION

Do not exceed 20-in. height limit from pump inlet to highest discharge hose position or condensate will not drain properly.

#### ⚠ CAUTION

Failure to follow instructions properly may result in unit failure and damage.

### SAFETY CONSIDERATIONS

Installing and servicing air-conditioning equipment can be hazardous due to system pressures and electrical components. Only trained and qualified service personnel should install or service air-conditioning equipment. When working on air-conditioning equipment, observe the precautions provided in the literature and on tags and labels attached to the fan coil unit.

#### ⚠ WARNING

Electrical shock can cause personal injury or death. Before beginning any modification or installation of this kit, be sure the main electrical disconnect is in the off position. Ensure power is disconnected to the fan coil unit. On some systems both the fan coil unit and the outdoor unit may be on the same disconnect. Tag the disconnect switch with a suitable warning label.

**Table 1 – Accessory Condensate Pump Kit Contents**

ITEM	Qty
Condensate Pump Assembly, Float Switch and Bracket Assembly	1

NOTE: The following items are field supplied and are needed for the installation.

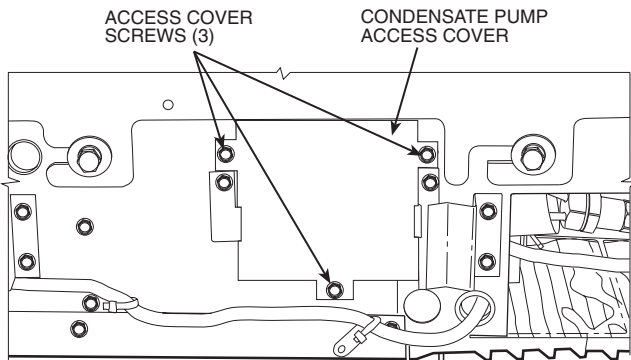
- 1 – ½-in. ID flexible plastic condensate discharge hose
- 1 – Hose clamp

### INSTALLATION

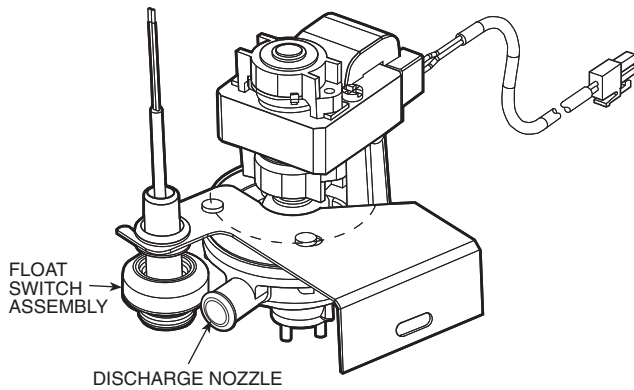
NOTE: For ease of installation it is recommended that the condensate pump be installed prior to installation of fan coil.

1. Turn off all power to the unit.
2. Remove end panel by pushing cap forward until it disengages from the mounting brackets.
3. Locate condensate pump access cover and remove three screws as shown in Fig. 1. Save cover and screws.
4. Check pumps discharge nozzle and verify nozzle is facing the correct direction as shown in Fig. 2. If correction is necessary remove four screws and turn the discharge nozzle.
5. Secure condensate pump assembly as shown in Fig. 3. Be sure pump is properly seated in condensate well of drain pan.
6. Cap off existing drain on condensate pan.
7. Attach a ½-in. ID flexible plastic condensate discharge hose (field supplied) to condensate pump assembly. Clamp hose to pump with hose clamp (field supplied). Avoiding kinks, route hose through piping connection access area. Provide proper pitch from the hose to an external drain to allow for adequate drainage. See Fig. 4.
8. Route electrical wires for the float switch assembly and the pump assembly into piping connection access area. Connect the 2 wires from the float switch assembly to TB3 on the front of the control box (Fig. 5). Next connect the Molex plug from the pump assembly to PL8, also on the front of the control box.
9. Test the unit. When the unit is mounted in place, the condensate pump system MUST be tested.
  - a. Be sure unit is installed level. If possible, a slight pitch towards the condensate pump is best.
  - b. Turn the unit on. Use the thermostat to put the unit in Cooling mode.
  - c. Fill the drain pan with water. Watch the tubing to ensure the pump is operating. The pump should begin to operate when the water level is approximately ¾ inch in the drain pan. If the pump is not pumping water through the line check to be sure the line is not too high, plugged, or kinked.

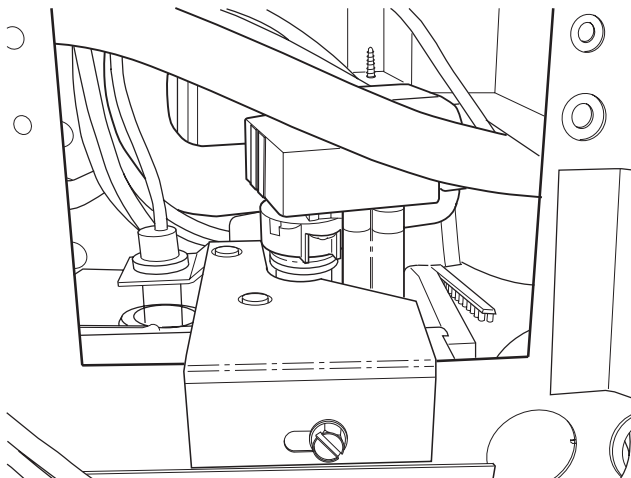
- d. When the pump is working properly, test the float switch. Manually raise the float switch until the stop switch turns off the compressor.
- 10. Reinstall condensate pump access cover using the screws removed in Step 3.
- 11. Snap end panel into position.



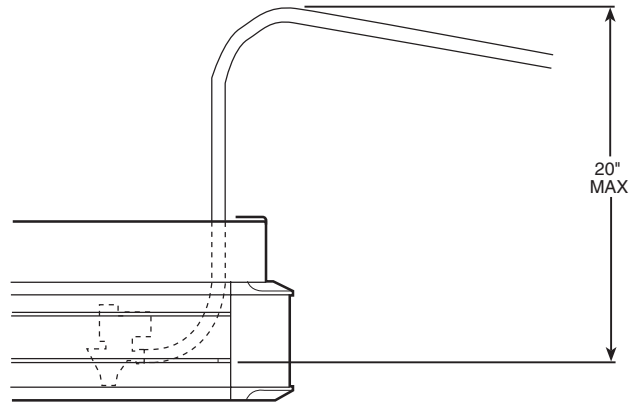
**Fig. 1 — Access Cover**



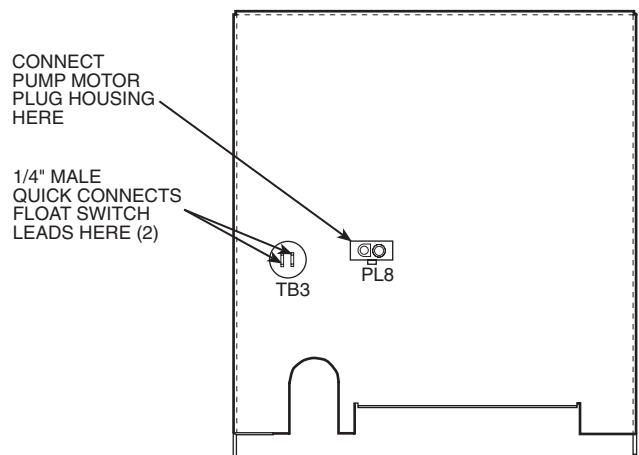
**Fig. 2 — Position of Discharge Nozzle**



**Fig. 3 — Condensate Pump Mounting**



**Fig. 4 — Condensate Drain**



**Fig. 5 — Control Box Connection**