

3940	Condensate Pump Information	April 13, 2017
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Condensate Pump for a 3940

Reason a condensate pump would be used.

Question: My customer does not have a floor drain near there 3940 environmental chamber, what can they do to remove the water the 3940 will make?

Answer: A condensate pump would need to be used. An evaporator pan may not be sufficient to remove all the water based on cabinet and ambient conditions.

How to install a condensate pump.

Application: Model 3911 and 3940 Incubators

Parts included:

- (1) Pump, 115V, 60Hz - P/N 184036
- (1) Adapter - P/N 1900194
- (3) Snap Clamp - P/N 600065
- (40) 3/8" Tubing - P/N 246011
- (2) Extra Small Grey Wire Nut - P/N 16038

Tools needed:

Common hand tools

NOTE: This pump may or may not have an independent high level safety switch, for customer connection. This safety switch is not used for this installation. The switch wires, if applicable, can be terminated with the wire nuts included in this kit. The switch does not affect the operation of the pump.

Installation (Refer to Figures 1 and 2)

1. Locate the 40 feet of tubing included in this kit. Measure and cut a 3 inch piece from this.
2. Fit one end of the 3 inch tube to the curved end of the adapter. Snap clamp. Refer to Figure 1.
3. Attach the other end of the 3 inch tube to the p-trap on the back of the incubator. Snap clamp.
4. Install the 90° bend end of the adapter into the front of the pump.
5. Connect one end of the 40 ft. tubing to the top of the pump. Snap clamp. Route this tubing to a convenient drain.

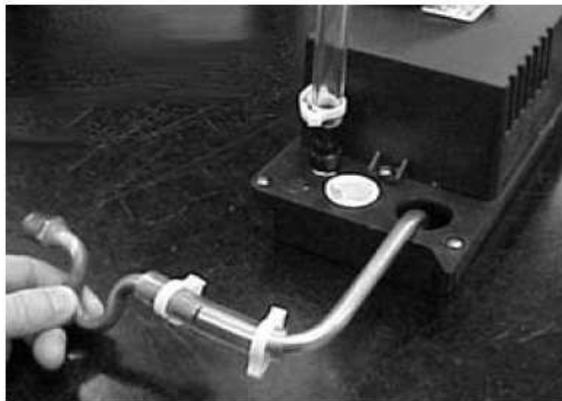


Figure 2

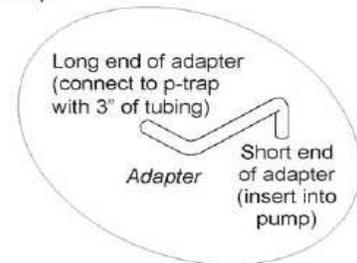
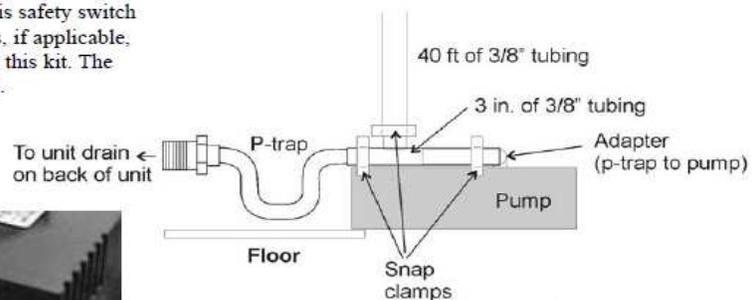
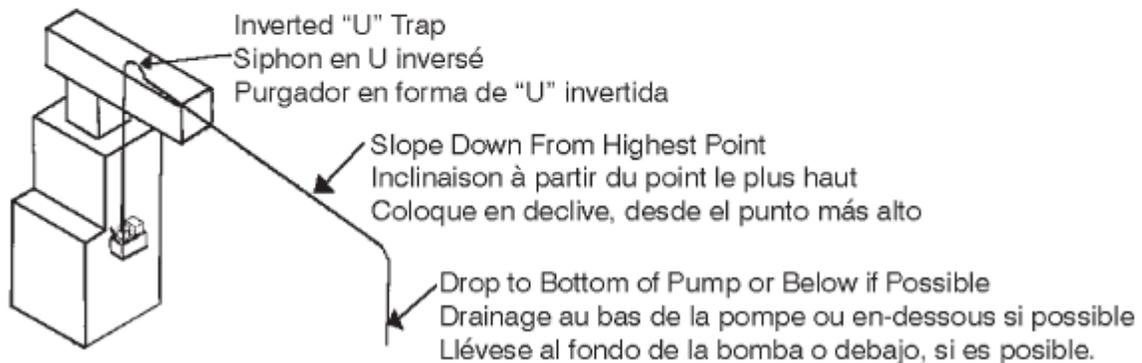


Figure 1

1. Run flexible tubing or pipe from evaporator drain into pump inlet. Be sure inlet piping is sloped downward to allow gravity flow (Figure 4).

Figure 4

Discharge Line Installation
Installation de la ligne d'écoulement
Instalación de la tubería de descarga.



2. The outlet piping should be flexible tubing or pipe (3/8" I.D. maximum to prevent excessive flow back to unit). From condensate unit, extend discharge piping straight up as high as necessary. Do not extend this line above the head/GPH of the particular model being installed. From this high point, slope discharge line down slightly to a point above drain area; then turn down and extend to a point below or approximately level with the bottom of the condensate unit. This will give a siphoning effect which will improve efficiency of the condensate unit and will, in most cases, eliminate the need for a check valve. If it is not possible to slope discharge line down, make an inverted "U" trap directly above the pump at the highest point.
3. If debris collects in the check valve and prevents it from sealing properly, the volume of water draining back into the tank from the 3/8" tubing may cause the pump to cycle on and off continuously without lifting water the full height of the discharge tubing. In this event it is recommended that the 1/4" adaptor which is provided be used with 1/4" I.D. tubing. **NOTE:** Thread sealant must be used when using 1/4" adaptor. This will lower the discharge tubing volume below the pump cycle volume and result in full discharge lift.