



SPCP24U CONDENSATE PUMP

SPCP24U condensate pump removes condensation generated by water dripping from an air conditioner's evaporative coil. The operation of the pump is governed by a switch, which activates the pump when the water level in the tank reaches around 2", and deactivates it once the water level is reduced to around 1".



It is essential to thoroughly review the instructions prior to installing, operating, or servicing the pump. Understand the specific application, limitations, and potential risks associated with the pump. Ensure the safety of yourself and others by adhering to all safety guidelines. Noncompliance with these instructions may lead to personal injury and/or damage to property. Keep these instructions for future reference. Installation and connections should be performed by a qualified technician.

SAFETY GUIDELINES WARNING

It is imperative to refrain from utilizing flammable or explosive liquids, including gasoline, fuel oil, and kerosene. SPCP24U must not be operated in environments with explosive atmospheres. Ensure that the liquids used are compatible with the materials of the pump components. Avoid handling the pump with wet hands or while standing on a wet surface. This pump is equipped with a ground wire. It is essential to ensure that the unit is properly grounded.

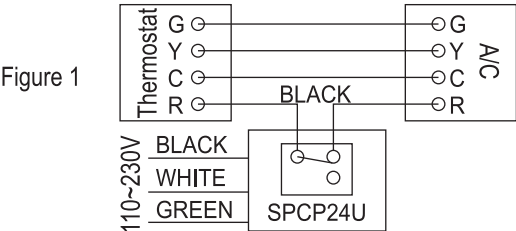
In installations where there is a potential for property damage or personal injury due to a malfunctioning or leaking pump caused by power outages, blockage of the discharge line, or any other reason, it is advisable to implement a backup system and/or an alarm. Ensure proper support for the pump and piping. Neglecting this may result in pipe breakage, pump malfunction, motor bearing seizure, and other related issues.

INSTALLATION

1. Prior to the installation of the pump, it is advisable to permit the air conditioner to operate multiple cycles, gathering condensate in a separate container. This process will assist in flushing out any residual oils that may be present within the system.
2. Mount the pump tank using mounting slots (see fig.2) to either the air conditioner or a nearby wall. Be sure pump is level and inlet is below the coil drain. Note: Do not use conduit fittings with plastic pump housing.
3. The installation of the pump must be conducted in such a way that it is not exposed to water splashing or spraying.
4. This pump is not intended for use inside air plenums.

ELECTRICAL CONNECTIONS WARNING

1. Prior to attaching connections, ensure that electrical power is turned off at the fuse or breaker box. Wiring must adhere to local regulations.
2. If connecting the unit to 120V, attach the included NEMA 5-15P plug to the condensate pump electrical wire using wire nuts (not included). Connect the white to white (neutral) wires, the black to black(live) wires, and the green to green (ground) wires. The power cord should be connected to a continuous power source, rather than to a fan or other device that operates intermittently.
3. If connecting the unit to 240V or in cases where the power cord lacks a plug, the wiring configuration is as follows: green for ground, black for line, and white for neutral (120V) or line 2 (240V). Always follow State and local codes when installing the power cord.
4. Safety switch: The safety overflow switch must be connected to a Class II low voltage circuit. To manage the thermostat circuit, the COM and NO connections from the safety switch should be wired in series with the low voltage thermostat circuit to deactivate the heating or air conditioning circuit. The COM and NC switch contacts can be utilized to trigger a low voltage alarm circuit (also connected in series) if the heating or cooling system cannot be interrupted. The safety switch is supplied from the factory with leads attached to the COM and NO switch terminals. A typical connection for "NC" circuits is illustrated in Figure 1.



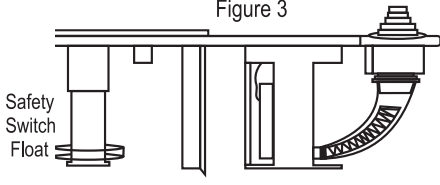
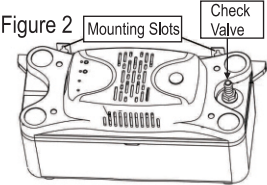
SERVICE INSTRUCTIONS

1. Make certain that the unit is disconnected from the power source before attempting to service or remove any components!
2. Be sure the float moves freely. Clean as necessary (Figure 3).
3. Clean the tank with warm water and mild soap.
4. Check the inlet and outlet piping. Clean as necessary. Be sure there are no kinks in the line that would inhibit flow.

PIPING

1. Run flexible tubing or pipe from evaporator drain into one of the three pump inlets. Be sure inlet piping is sloped downward to allow gravity flow. Extend the inlet piping into the tank from 1 to 3 inches to ensure that it will not interfere with proper float operation. Be sure that the inlet piping is cut at an angle where it enters the tank.
2. Use the optional inlet filter if the condensate is dirty. This will extend the life of the pump.
3. The outlet piping should be flexible tubing (19 ft. included) secured with a hose clamp (not included) 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.

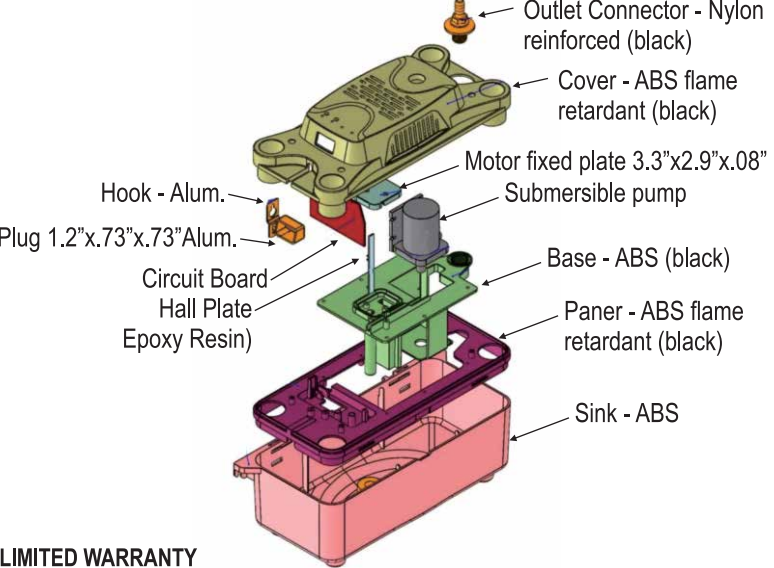
Do not extend this line above 24 ft. From this high point, slope discharge line down slightly to a point above drain area; then turn down and extend to a point below or approximately level with the bottom of the condensate unit. This will give a siphoning effect which will improve efficiency of the condensate unit and will, in most cases, eliminate the need for a check valve (Figure 2. If it is not possible to slope discharge line down, make an inverted "U" trap directly above the pump at the highest point.



TESTING

1. Activate the power supply.
2. Detach the motor/tank cover assembly and maintain it in a horizontal position.
3. Elevate the float using your fingers; the float will ascend approximately 38mm, prompting the motor to initiate operation. Continue to elevate the float an additional 4mm to engage the safety switch. The generator will cease functioning when the float descends to the 15mm mark.
4. Verify the safety switch by lifting the safety switch float with your finger. The safety switch should engage prior to the float making contact with the cover.
5. Reattach the motor/tank cover assembly onto the tank.

This pump is designed for use in gas furnace condensate applications. It is essential to monitor the acidity of the condensate to ensure it does not fall below the average pH level of 3.4, as this could lead to the formation of localized acid pockets that may cause pitting. Regular cleaning or flushing of the tank with fresh water is recommended to mitigate this risk.



LIMITED WARRANTY

DISCLAIMER: THE FOREGOING WARRANTY IS AN EXCLUSIVE WARRANTY IN LIEU OF ANY OTHER EXPRESS WARRANTIES. ANY IMPLIED WARRANTIES (INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) TO THE EXTENT EITHER APPLIES TO A PUMP SHALL BE LIMITED IN DURATION TO THE PERIODS OF THE EXPRESS WARRANTIES GIVEN ABOVE.

One Year Warranty from purchase date will be invalid if any of the following conditions are found:

1. Sealed motor housing opened.
2. Product connected to voltage other than indicated on nameplate.
3. Cord cut off to a length less than three feet.
4. Pump allowed to operate dry (fluid supply cut off).
5. Pump used to circulate anything other than water.
6. Product abuse by customer

Neither seller nor the manufacturer shall be liable for any injury, loss or damage, direct, incidental or consequential (including, but not limited to incidental or consequential damages for lost profits, lost sales, injury to person or property, or any other incidental or consequential loss) arising out of the use or the inability to use the product. The user agrees that no other remedy shall be available to it.