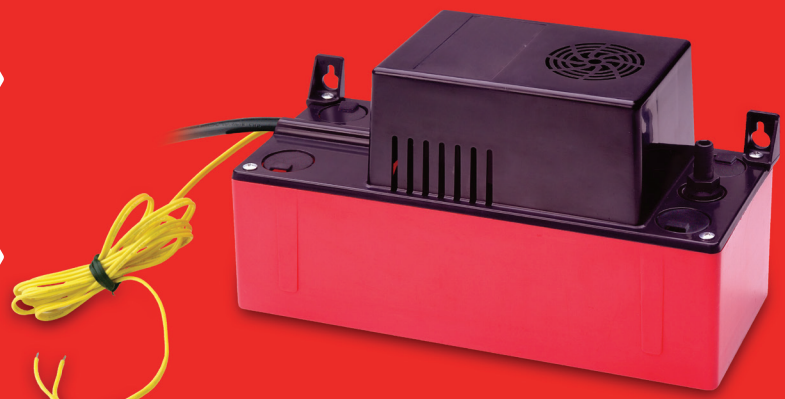
DIVERSITECH

Condensate Pump

Installation and Safety Instructions



CP-16
CP-16-230

	CP-16	CP-16-230
Rated Voltage	120 Volts / 60 Hz	220 Volts / 60 Hz (208-230)
Rated Current Draw	1.9 Amps	1.0 Amps
Input Type	USA 3-prong plug	NEMA 6-15 plug
Head Height	16 ft. maximum	16 ft. maximum
Flow Rate at Zero Head	1.2 GPM	1.2 GPM
Temperature Rating	• Continuous duty 140F° • Max inlet temperature 160F° • Not suitable for contact with steam or gasses that exceed 160F°	• Continuous duty 140F° • Max inlet temperature 160F° • Not suitable for contact with steam or gasses that exceed 160F°
Product Dimensions (LxWxH)	4.5" x 10.75" x 6.5"	4.5" x 10.75" x 6.5"
Product Weight	3.8 lbs.	3.8 lbs.
Inlet Height from Base	3.5"	3.5"
Included Accessories	• Instruction Sheet • Hang Tabs • Plug Protector • 4' Remote Shutoff Leads • Inlet Cover	• Instruction Sheet • Hang Tabs • Plug Protector • 4' Remote Shutoff Leads with Insulated Terminals • Inlet Covers (3)
Wiring Color References	Black - Live/Hot White - Neutral Green - Ground All installations must conform to NEC requirements	Brown - Live/Hot Blue - Neutral Green/Yellow - Ground All installations must conform to NEC requirements

Limited Warranty

All pumps manufactured by or for DiversiTech Corporation (the Company) and sold by the Company under the DiversiTech brand are warranted to be free of defects in workmanship and materials for a period of 24 months from date of sale from the distributor to the contractor. The Company will credit, repair or replace, at its option, any Pump if deemed defective within this time period. All products returned to the Company must include a return authorization issued by the Company. The returned product should be suitably packaged and shipped prepaid from the point of shipment to the point designated in the Company's return authorization.

This warranty is a limited warranty and shall be in lieu of any other warranties, expressed or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. There are no other warranties that extend beyond the description of the face hereof. The liability of the Company arising out of it's supply of said products, or their use shall not in any case exceed the cost of correcting defects in the products as set forth above. The Company shall not be liable for any costs or damage incurred by its customers in the removal or replacement of defective products from units in which the products have been assembled. In no event shall the company be liable for loss of profits, indirect, consequential, or incidental damages.

SAFETY WARNING

FOLLOW ALL SAFETY INFORMATION TO REDUCE POTENTIAL ELECTRICAL SHOCK.
DISCONNECT POWER BEFORE SERVICING UNIT. PUMP MUST BE PROPERLY GROUNDED.

NEVER USE THE PUMP TO MOVE FLAMMABLE LIQUIDS.

NEVER USE THE PUMP IN AN EXPLOSIVE GAS ENVIRONMENT,
OR WHERE GAS FUMES OR VAPOR MAY BE PRESENT.

ALWAYS DISCONNECT THE POWER PRIOR TO MOVING,
ADJUSTING OR SERVICING THE PUMP OR ATTACHED SYSTEMS.

WARNING: RISK OF ELECTRIC SHOCK

THIS PUMP MUST BE PROPERLY CONNECTED TO POWER FOLLOWING THE NATIONAL ELECTRIC CODE (NEC). FAILURE TO FOLLOW THESE WARNINGS WILL VOID WARRANTY AN COULD RESULT IN AFATAL ELECTRIC SHOCK. A GREEN LED WILL INDICATE IF POWER IS AVAILABLE. THIS PUMP IS SUPPLIED WITH A GROUNDING CONDUCTOR AND GROUNDING-TYPE ATTACHMENT PLUG. TO REDUCE THE RISK OF ELECTRIC SHOCK, BE CERTAIN THAT IT IS CONNECTED ONLY TO A PROPERLY GROUNDED, GROUNDING-TYPE RECEPTACLE.

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PRINTED IN VIETNAM

General Information

Thank you for the purchase of this DiversiTech condensate pump. This pump is designed to automatically remove the condensate water that collects from appliances such as air conditioners and de-humidifiers.

The pump has a built-in tank that collects the water from the appliance. When the water collected reaches sufficient level inside the pump tank, the pump switches on and pumps the water to a remote location for disposal. When the tank is sufficiently empty the pump automatically switches off.

The pump is capable of lifting water to its rated height and is equipped with a check valve that prevents water from flowing back into the tank when the pump shuts off.

The pump is also equipped with a switch that activates when the water in the tank reaches an overflow condition. The overflow safety switch may be connected to turn off the appliance if the high water condition occurs.

Pump should be stored indoors.
The chosen location should be clean and dry.



Unpacking

Carefully open the carton to avoid damage to the pump. Do not use a knife or other sharp object that may scratch the pump's cover. After opening the carton, look for damage. If damage is found file a claim with the freight carrier.

Power Source

Connect power cord to a supply voltage and frequency that matches what is shown on the pump nameplate. Source voltages lower than the rated supply can reduce performance and cause the pump to overheat.

Pump Installation

The pump must be level and should be placed on a solid surface or floor. The pump has rubber feet to reduce noise and keep it in place during operation.

Do not use this pump in the presence of spraying or standing water, it may cause a shock. This pump is not suitable for use in Class I or Class II locations (explosive gas or dust).

Do not cover the pump air vents. The pump is air cooled. Do not cover the vent holes located on the top or sides of the pump housing. The pump may be operated continuously as long as the air vents are not covered.

Mounting

The condensate pump is equipped with optional mounting tabs which allow the tank to be screwed to a wall or equipment side panel. The screw-to-screw distance is 10-1/16". When mounting into drywall or concrete walls the screws must have anchors which provide the necessary support in the wall material.

Inlets



4 inlet holes are located in the top deck of the pump. Flexible vinyl tubing or PVC may be connected to any of the pump inlets. Knock out covers are provided to cover unused inlets. Be sure to knock out only the hole used for the inlet pipe to prevent the pump from collecting debris or insects.

Tubing installed into the inlet holes must be straight. The tubing must not bend inward where it will interfere with the pump or float mechanism.

When using rigid tubing such as PVC, be sure to cut the end at an angle. This will allow the condensate water to drain freely and keep the tubing end from being blocked by the tank bottom.

It may be desirable to use a "P" or "U" trap between the AC unit and the condensate pump to provide a liquid barrier to air flow from the air conditioner. These types of "traps" always contain some water which blocks the flow of air from the AC unit which is wasteful and can cause other problems such as accelerated algae growth.

Outlets and Tubing Connections

The pump is equipped with a combination barb-type fitting and check valve. The fitting allows the connection of 3/8" flexible vinyl tubing such as DiversiTech "CVT" clear vinyl. Attach the tubing by pressing it over the barb fitting and secure with a screw type hose clamp.

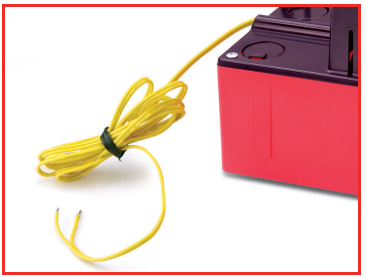
Route the tubing up and away from the pump; avoid compressing or kinking the tubing. The tube route should be the shortest possible distance from the pump to the building exterior or other drain location. For best results the distance that the water must go UP should be shorter than the distance that it goes DOWN. With the longer DOWN tubing, the length will help siphon the condensate from the tank, speeding the pump out time.

Pump Electrical Connections

Connect the pump power to a properly grounded outlet capable of providing power that exceeds the requirements listed on the pump nameplate. Avoid the use of extension cords wherever possible. The pump must be operated by a continuous source of power and must not be connected to switched outlets or other power supplies that may be inadvertently or automatically turned off.

All aspects of the installation must conform to requirements of the NEC, and any applicable local codes.

Safety Switch



The pump safety switch should be used on 24V Class II control circuits only. The pump safety switch connections are to be connected in series with the 24 Volt thermostat circuit to shut off A/C systems should an overflow condition occur. An optional DiversiTech Universal Alarm may be connected to indicate system trouble.

Pump Operation

Apply power by plugging in the pump. Test float and safety switch by manually filling the tank.

Test Safety Switch operation (if used) to be sure that the A/C system shuts down when the pump has reached an overflow condition.

Leak Check: Operate the pump by filling tank to trigger operation.

Pump Maintenance and Disassembly

Always disconnect power before performing maintenance.

Periodically inspect the Pump tank to assure it is free of accumulated dirt or sludge. Do not use solvent cleaners. Clean Tank with soap and warm water only. The check valve may be removed for cleaning or replacement by unscrewing with a 9/16 wrench. (illustration)

Clean inlet and outlet piping. Tubing may be cleared of slime or debris instantly with a Wagner brand Gallo Gun tool and Swoosh cartridges.

Reassemble system and check for correct operation.

