

Self-Cleaning

A common problem in condensate removal is the blockage of a drain line downstream from the pump. These blockages are typically organic growth of mold, mildew, algae, etc. These blockages can cause major problems with regular pumps—but not with ClearVue™. With many clogs, a little bit of pressure will provide the force needed to break the clog loose and clear it. ClearVue™ is the only pump that can sense when a clog is there and work to clear it. In these instances, ClearVue™ will first spin a bit faster, pump a bit harder, and increase the pressure in the drain line to attempt to clear the clog.

If the clog is particularly stubborn, ClearVue™ continues increasing the pressure until the clog is cleared, or the high level alarm is activated. Once the high level alarm is activated, ClearVue™ shuts down the cooling system but continues running to try and clear the clogged drain line. If the clog still remains, ClearVue™ enters its self-cleaning mode to try to remove the clog. ClearVue™ uses existing water in the lines to create a pulsing-action designed to clear the clog. This pulsing mode continues for several minutes to try and clear the blockage.

If ClearVue™ is successful in clearing the drain line clog, it restarts the cooling system and returns to normal functioning. If ClearVue™ is not able to clear a very stubborn clog, ClearVue™ will remain in the high level alarm condition and keep the cooling unit in the off position. If the internal audio alarm is enabled, ClearVue™ will beep its internal audible alarm until addressed by a service technician. ClearVue's default setting for the internal audible alarm is "off" but may be turned on at installation, if preferred.

Mounting

ClearVue™ is equipped with metal mounting tabs which allow the tank to be attached to a wall or equipment side panel. The screw-to-screw distance is 8". When mounting into drywall or concrete walls, the screws must have anchors which provide the necessary support in the wall material.

ClearVue™ should be mounted level for optimum results, but the Floatless Sensor™ in ClearVue™ enables operation when mounted at an angle of up to 10°. ClearVue™ also features sound dampening and anti-vibration soft rubber feet for floor installation. The ClearVue™ top is reversible. It may be turned around to allow easy access to the pump outlet or power connection as may be required by the particular installation.

High Level Alarm Connection



The ClearVue™ high level alarm connections are made with standard 1/4" quick connect terminals located just above the power cord connection. Supplied with ClearVue™ are two yellow wires with pre-crimped connectors.

Single pole, double throw (SPDT) isolated relay contacts are provided for cooling system interruption and external alarm connection. These features are activated when the high level alarm is triggered. Connecting the common and run terminals in the call for cool wire from the thermostat enables ClearVue's capability to shut down the cooling system if there is a high level alarm. Connecting the common and alarm contacts to an external alarm enables ClearVue's capability to trigger an external alarm, such as DiversiTech's Universal Alarm (UA-1).

Cleaning Function – Automatic and Manual



ClearVue™ will periodically enter a routine cleaning cycle to reduce the potential for a drain line clog. This cycle pulses water in the drain line and agitates the water in the tank in order to prevent buildup of algae and other

organic materials. If desired, a manual cleaning cycle can be started by pressing the CLEAN button. The cleaning cycle will begin automatically when there is sufficient water in the tank. The white "clean" indicator will flash, indicating that a clean cycle is pending.

End of Season

At the end of the cooling season, ClearVue™ detects the lack of new condensate and empties the tank almost completely, thus eliminating a significant source of algae growth and future startup problems.

ClearVue™ even senses when water has remained stagnant in the tank for extended periods of time, and will run a complete tank drain to reduce buildup and slime growth in the tank. Additionally, a manual drain cycle can be run at any time by pressing the button



Floatless Sensor™ Technology
ClearVue's sensors tell it how high the water is in the tank and how fast the in-flow is. It then adjusts pump speed and lift to keep the tank clear and the system running properly. *No float, no problems.*



Push Button Drain
Need to drain the tank quickly? Simply push the DRAIN button and ClearVue™ removes all the water in the tank—fast.



Clear Tank
ClearVue™ also offers a clear tank so you can easily see what's happening inside the tank. The clear tank makes it easy to see the water level and diagnose other issues if needed.



Check Valve
Removable duckbill check valve resists corrosion and wear and is self-cleaning.



Molded Silicone Rubber Feet
Specially designed rubber feet dampen vibration and noise, making ClearVue™ quiet and easy to live with. And like the feet on all DiversiTech pumps, they are installed at the factory and stay in place.



Stainless Steel Hang Tabs
Two stainless steel hanging tabs offer many installation options. The tabs are sturdy and durable and will last longer than standard plastic mounts.



LED Indicator Lights
4 LED indicator lights – Ready, Pumping, Cleaning, and Alarm. LED lights tell you what mode the pump is in at any given time.

About DiversiTech

DiversiTech Corporation is North America's largest manufacturer of equipment pads and a leading manufacturer and supplier of components and related products for the heating, ventilating, air conditioning, and refrigeration (HVACR) industry.

Headquartered in the Atlanta, GA metropolitan area, DiversiTech manufactures a suite of products which includes a wide range of mechanical, electrical, chemical, and structural parts for HVACR and electrical systems, and swimming pool installations. The company maintains manufacturing and distribution facilities in key U.S. locations, Europe, and in the Far East. DiversiTech has enjoyed a continued history of successful growth and has acquired industry-recognized names including Devco® Enterprises, Wagner® Manufacturing, The Black Pad®, Hef-T-Pad™ and Specialty Chemical.

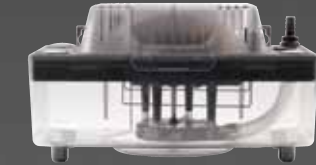
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ClearVue
PUMP™

**NO FLOAT,
NO PROBLEMS**

FEATURING:
**FLOATLESS
SENSOR™**

About ClearVue™

The new ClearVue™ condensate pump from DiversiTech is unlike any other pump available. ClearVue™ features variable lift and speed. It's not just off or on like a regular pump. ClearVue™ senses the amount of condensate water in the tank and its rate of inflow and adjusts its speed and lift to match the conditions and keep the tank clear. ClearVue™ starts pumping slowly and only accelerates if needed. And since it pumps slowly, ClearVue™ is super quiet and easy to live with.

With its Floatless Sensor™ technology, ClearVue™ doesn't have the usual problems associated with float switch pumps. No more stuck floats or misaligned contacts to cause problems and potential damage. ClearVue™ uses Floatless Sensor™ technology to detect the water level in the tank and make the right decision about what to do next. The ClearVue™ pump also features a see-through tank to give the contractor and homeowner a clear view of water, blockage, and buildup in the tank. This clear tank allows for quick troubleshooting due to normal buildup caused by daily condensate generation. ClearVue™ gives you the most improved, user-inspired features on the market.

What makes ClearVue™ Better?

- The ClearVue™ pump features variable speed and lift which allows ClearVue™ to change pump speed and lift based on condensate flow. Other pumps are simply off or on but ClearVue™ starts pumping slowly, then gradually accelerates its lift if needed.
- Floatless Sensor™ technology means more reliable operation and no problems from stuck or fouled mechanical floats. ClearVue's Floatless Sensor™ detects the condensate level without a float for reliable, accurate operation. **No float, no problems.**
- World's only self-cleaning condensate pump. ClearVue™ features a unique self-cleaning mode to maintain itself and help keep drain lines clear. Also, if ClearVue™ senses a blockage, it will begin self-cleaning and pulse the condensate water to try to remove the blockage.
- ClearVue™ also offers a clear tank that allows the user to see what's happening inside. This means faster and more accurate troubleshooting.



Variable Speed and Lift



ClearVue™ determines how fast condensate is entering the tank and adjusts its speed and lift to match the conditions and keep the tank clear.

The variable lift in ClearVue™ assures that the pump impeller is spinning only as fast as needed to lift the condensate water to the necessary height. A slower pump speed means significantly less noise than conventional condensate pumps. A variable speed motor is a proven quieting feature in furnace blower motors, and we bring that same feature to ClearVue™.

Floatless Sensor™

FLOATLESS SENSOR™

No float, no problems. That's what ClearVue's new Floatless Sensor™ will provide you and your customers. Conventional pumps use an electro-mechanical float switch to turn the condensate pump on and off and to detect a potential overflow condition. Float switches are prone to mechanical failure including debris fouling, sunken floats, and misalignment. ClearVue's Floatless Sensor™ eliminates many of the typical problems associated with conventional condensate pumps. By eliminating the float, ClearVue™ won't fail like conventional float switch pumps. ClearVue™ can even be installed up to 10° off level and function perfectly.

ClearVue™ uses highly sensitive Floatless Sensor™ technology in different levels in the tank to provide the most accurate information to the pump's brain. And better information means a better pump. ClearVue's Floatless Sensor™ technology tells it how high the condensate level is in the tank and how fast the inflow is. ClearVue™ then uses this information to adjust pump speed and lift to keep the tank clear and the system running properly.

DIVERSITECH

ClearVue™ PUMP™

Stainless Steel
Mounting Tabs

Reversible
Deck

Clear Tank

**FLOATLESS
SENSOR™**

Silicone
Rubber Feet

NO FLOAT, NO PROBLEMS