



Condensate Removal Pump LS

With innovative spherical motor technology for condensing boilers and air conditioning/cooling systems.

- Long, quiet operation
- Small footprint
- Low energy consumption
- Resistant to blockage
- Easy and ready to install
- Attractive design
- Fully automatic

Condensate Removal Pump LS

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Applications

- The condensate removal pump LS is a lifting station, suitable for all applications where a removal of condensate fluid is not possible by gravity.

The LS is designed for condensate from

- Gas and oil condensing boilers (heating capacity max.682.400 BTU/h) with a pH value of 2.7 and higher
- Air-conditioning systems, cooling and refrigeration systems
- Air dehumidifiers and evaporators

For very acidic condensates (pH-values below 2.7), for furnaces where not-sulphur-reduced heating oil is used, and for installations with a heating capacity of more than 682.400 BTU/h a neutralizing device must be connected upstream*). Please observe additional local sewage regulations.

Design and Function

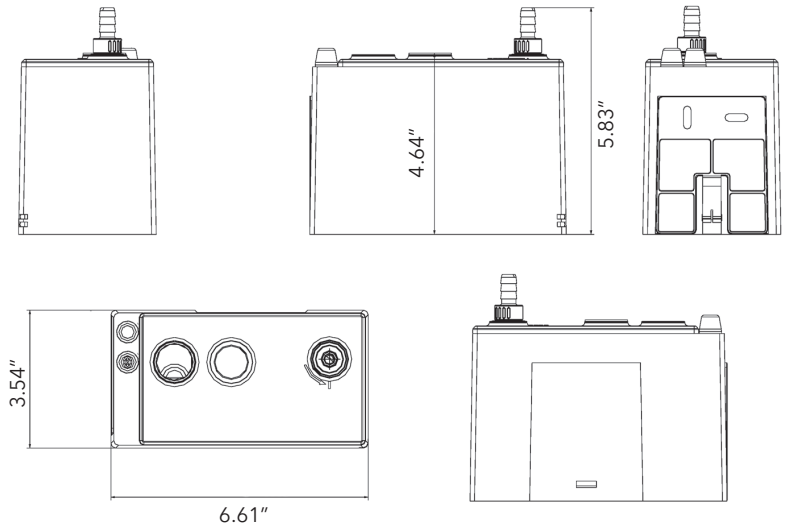
- A tank for the condensate
- A pump which drains the condensate into a pressure hose and a control which starts and stops the pump
- Indicator lights showing the status of the unit
- Alarm relay if there is a problem

The condensate pump LS saves energy, has a very low noise level and virtually guarantees trouble free operation.

Tank

The tank is manufactured from acid resistant ABS material. It holds 0.132 gallon (0.5 l) of condensate and is sufficient if additional water comes in through the chimney. Baffles inside the tank prevent waves and cycling caused by the inflow of liquid. To prevent blockage of the pump, a tank sump is integrated into the tank in which dirt particles can accumulate. The tank can be easily cleaned and flushed if necessary.

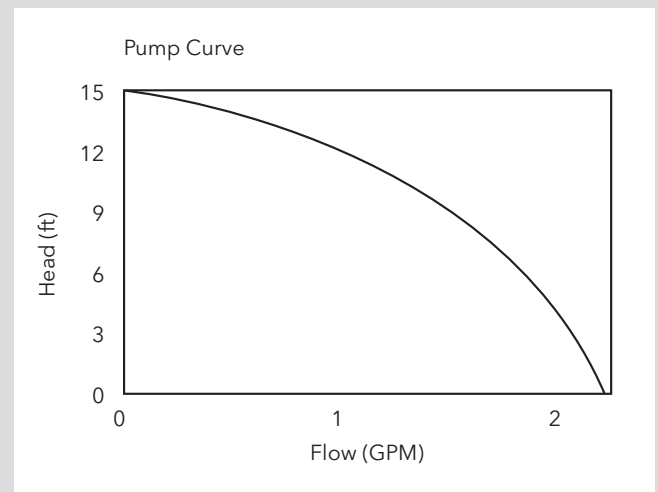
Dimensional Drawings



Part No.	Description	Model	Weight
6098B0000	Condensate Removal Unit with ABS Housing and ECM Motor	LS	3.5 lbs

Technical Data

Supply voltage	100 - 240 Volt
Power consumptionP1	20 Watt
Current draw	0.2 - 0.1 A
Protection class	IP 44 / Class F
Acid resistance	pH2 or higher
Pump	Electronically commutated spherical motor with permanent magnet rotor/impeller
Max. Pump head	14.9"
Max. Flow rate	1.98 US GPM
Noise level (Lw)	46 [dB(A)]
Max. system temperature	140°F (temporary 194°F)
Min. ambient temperature	Non-freezing
Safety contact	Relay open when triggered, capacity 250 VA
Tank volume	0.184 gallon (usable volume 0.132 gallon)
Package dimensions	8.46" x 8.46" x 7.09"
Package weight	3.5 lb



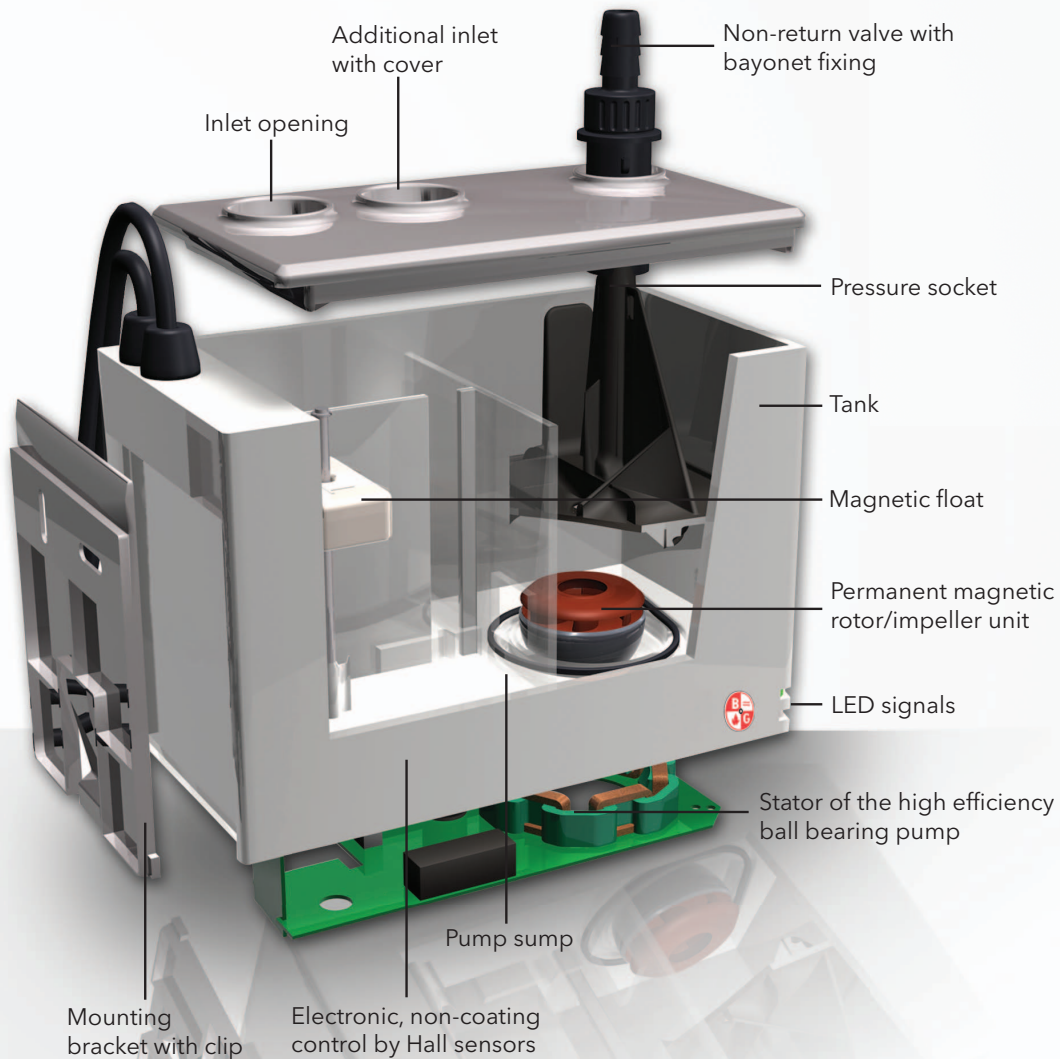
Pump

At the bottom of the tank is a highly efficient spherical motor pump with permanent magnet rotor. Its power consumption is only a fraction of a conventional condensate removal pumps.

The electrical part of the pump is completely separated from the wet part, thereby making it splash water protected. The condensate removal pump LS is completely enclosed; accidental touching of live components is completely impossible.

The spherical motor pump operates very quietly. The only moving part of the pump is the spherical rotor/impeller unit which rides on an ultra-hard ceramic bearing ball.

A blockage of the condensate removal pump is extremely unlikely. Since the rotor is held in place magnetically and can tilt to avoid blockage, a safe start-up even after prolonged shutdown periods is assured.





autocirc instant hot water system

Save 14,000 gallons of water every year
with as little as 14 watts!

The autocirc is the most efficient system, turning on only when the system needs to be replenished with hot water. The pump is installed under the sink farthest from the water heater where hot water takes the longest to arrive. No recirculation line is required.

Benefits and Features

- Silent during operation
- Saves the average family of four thousands of gallons of water annually
- Saves money and pays for itself in a short period of time
- Built-in 24-hour timer which allows the selection of system operating periods to suit family usage
- Built-in fixed thermostat or an optional, adjustable ON thermostat
- Comes complete with a 6 ft. long power cord

ecocirc e³ series

Domestic Circulators for instant hot water with as little as 10 watts!

The ecocirc pumps' highly efficient ECM (Electronically Commutated Motor) design results in significant energy savings with improved performance.

Benefits and Features

- Instant availability of hot water, even at the tap farthest from the hot water heater
- Conserves natural resources - reduced power consumption, CO₂ emissions and wasted water
- Saves 68% electricity compared to a standard circulating pump
- Easy installation
- Programmable timer and built-in thermostat available to further reduce energy consumption
- Available with integrated check and ball valves for quick isolation during service
- Long lasting, silent operation



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