

|                    |  |                        |              |
|--------------------|--|------------------------|--------------|
| <b>JOB:</b>        |  | <b>REPRESENTATIVE:</b> |              |
| <b>UNIT TAG:</b>   |  | <b>ORDER NO.</b>       | <b>DATE:</b> |
| <b>ENGINEER:</b>   |  | <b>SUBMITTED BY:</b>   | <b>DATE:</b> |
| <b>CONTRACTOR:</b> |  | <b>APPROVED BY:</b>    | <b>DATE:</b> |



## LS Condensate Removal Pump For Condensing Boilers and Air Conditioning/Cooling Systems



### Description

The LS condensate removal pumps are energy efficient lifting stations that use permanent magnet, ECM (electronically commutated motor) technology. The LS condensate removal pumps are designed specifically for use in applications where the removal of condensate fluid is not possible by gravity.

### Materials of Construction

Pump Housing: ABS Material  
O-Ring: EPDM  
Bearing: Carbon/Alumina Ceramic  
Impeller: Nylon/PPO  
Motor: High Efficiency ECM  
All Other Wetted Parts: Type 316 Stainless Steel  
Shaft-less, seal-less construction

### Operating Data

#### Pump

Maximum Working Temperature: 140°F (60°C)  
Minimum Ambient Temperature: Non-freezing  
Acid Resistance: pH 2.7 or higher

### Standard Features

#### Motor

Motors are designed with a shaft-less spherical motor with permanent technology for improved efficiency.

#### Motor

ECM Spherical Motor  
Phase: Single 60 Hz  
Voltage: 100-140 volts  
Power Consumption: 20 watts  
Current draw: 0.1 - 0.2A  
Automatic Overload Protection  
Low in-rush current

#### Acid Resistant

All LS condensate removal pumps are made from acid resistant ABS material

#### LED

Green LED to indicate when pump is operating

#### Tank

Tank Volume: 0.184 gallons total (0.132 gallons usable)

#### Assembly

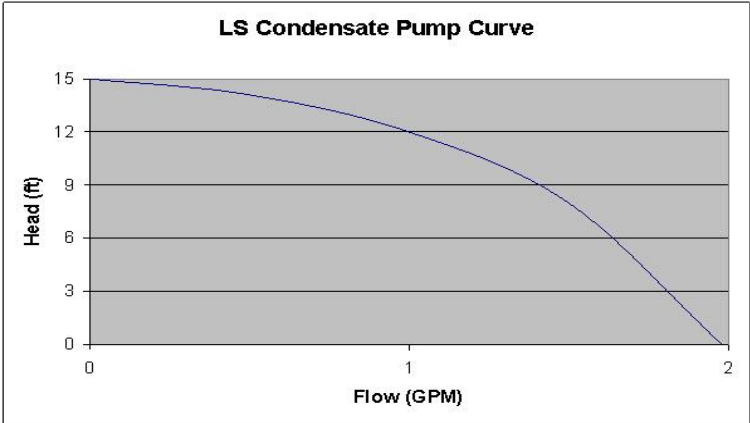
All LS condensate removal pumps come as kits ready for installation. All kits should include:

1. LS Condensate Pump
2. Mounting bracket (designed for rear wall or left side wall mounting)
3. Pressure hose connection kit
4. Pressure hose (19 ft)

Typical Specifications

The contractor shall furnish and condensate removal pumps as illustrated on the plans and in accordance with the following specifications:

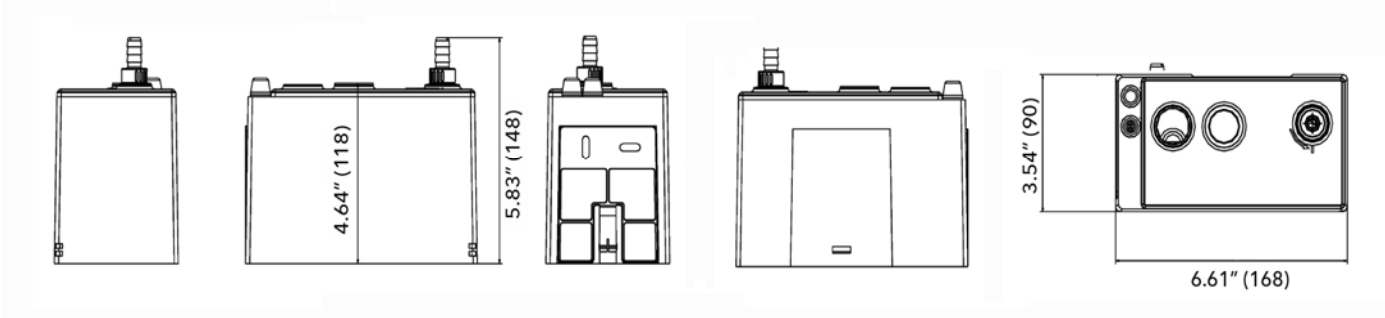
- 1. The pumps shall be of the high efficiency type specifically designed for quiet operation.
- 2. Pump to be suitable for 140°F (60°C) operation.
- 3. The pumps shall have a ceramic ball bearing lubricated by the system fluid.
- 4. Motor shall be a spherical permanent magnet electrically commutated motor (ECM).
- 5. Motor shall be non-overloading at any point on the pump curve and shall have built in overload protection.
- 6. Pumps to have a capacity of \_\_\_\_ GPM at \_\_\_\_ foot of head.



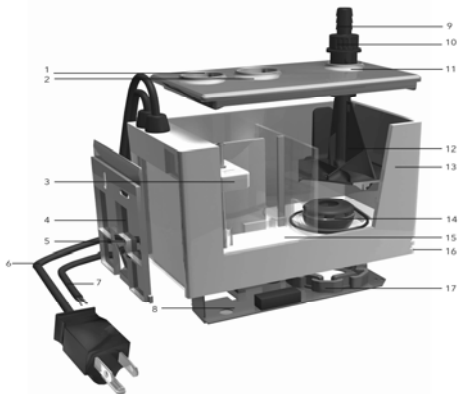
| Part Number | Model              | Materials | Motor | Weight  |
|-------------|--------------------|-----------|-------|---------|
|             |                    | Housing   |       |         |
| 6098B0000   | LS Condensate Pump | ABS       | ECM   | 3.5 lbs |

LS Condensate Removal Pump Dimensions

Dimension in Inches (mm)



Product Details



1. Condensate inlet (.95 in, 24mm)

2. Additional inlet opening (6.95 in, 24mm)

3. Magnet float

4. Mounting bracket (for rear wall or left side wall)

5. Clip

6. Main cable (6.5ft, 2m) with shock-proof plug

7. Alarm connection cable (floating, 6.5ft 2m)

8. Non-contact electronic fill level detection with echo sensors

9. Connection for pressure hose (.55 in x .08 in, 19ft)
10. Non-return valve with bayonet connection

11. Opening for non-return valve

12. Pressure nozzle

13. Tank (0.7l; usable volume 0.5l)

14. Permanent magnetic rotor/impeller

15. Pump sump

16. Operating LEDs

17. Stator of the high-efficiency spherical motor pump