ITT

SUBMITTAL

A-171A

JOB:	**REPRESENTATIVE:**	
UNIT TAG:	**ORDER NO.**	**DATE:**
ENGINEER:	**SUBMITTED BY:**	**DATE:**
CONTRACTOR:	**APPROVED BY:**	**DATE:**

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 or Viton
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: 140ºF (60ºC)
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 50/60 Hz
Voltage: 100-240 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

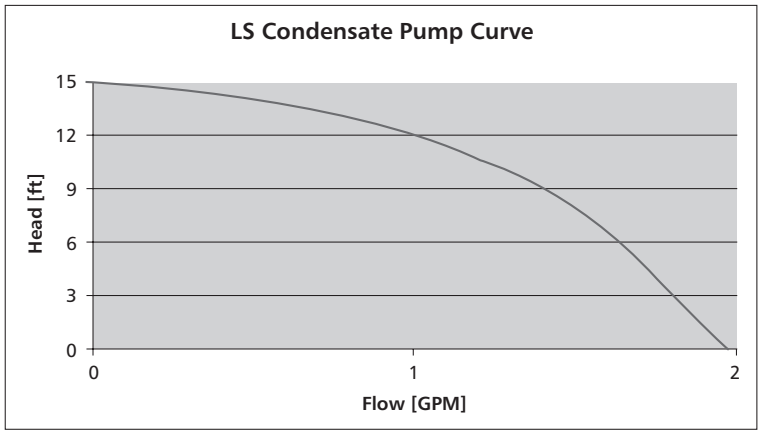
All LS condensate removal pumps come as kits ready for installation. All kits should include:
1. LS Condensate Pump
2. Mounting bracket (designed for rear wall or left side wall mounting)
3. Pressure hose connection kit
4. Pressure hose (19 ft)

Bell & Gossett

Typical Specifications **A-171A**

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

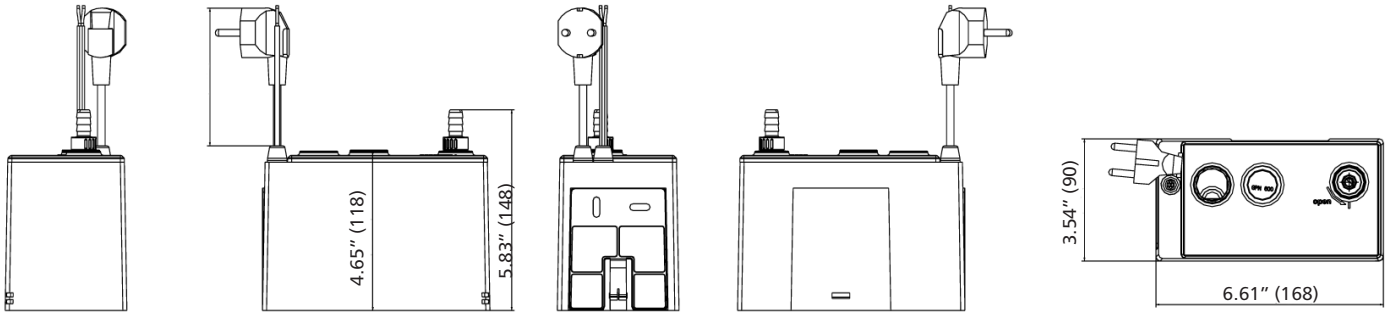
1. The pumps shall be of the high efficiency type specifically designed for quiet operation.
2. Pump to be suitable for 140ºF (60ºC) operation.
3. The pumps shall have a ceramic ball bearing lubricated by the system fluid.
4. Motor shall be a spherical permanent magnet electrically commutated motor (ECM).
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.



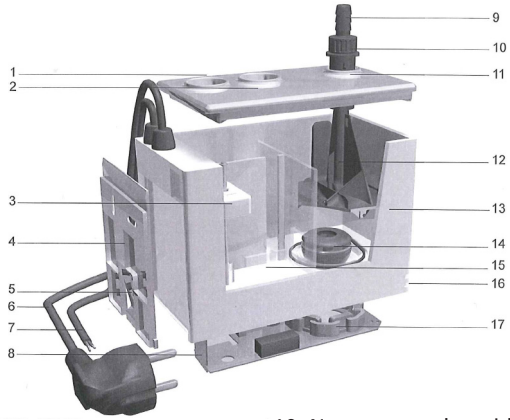
Part Number	Model	Materials		Motor	Weight
		Housing	Type		
6098B0000	LS Condensate Pump	ABS	SWEAT	ECM	3.5 lbs

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 (6.5 ft, 2m) with shock-proof plug
7. Alarm connection cable (floating, 6.5 ft, 2m)
8. Non-contact electronic fill level detection with echo sensors
9. Connection for pressure hose (.55 in x .08 in, 19 ft)
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

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