

Quality People. Building Solutions.

Comfort Systems USA (Arkansas), Inc.
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Date: 2/21/2024

Return Request: 3/28/2024

Project: Little Rock West High School

Supplier: Sanders Supply

Manufacturer: Liberty Pumps

Submittal: Sump Pumps

Submittal Number: 22 01 00-08

Drawing # and Installation: Plumbing Drawings

ARCHITECT

Lewis Architects Engineers
11225 Huron Lane, Suite 104
Little Rock, AR 72211
501-223-9302

ENGINEER

Lewis Architects Engineers
11225 Huron Lane, Suite 104
Little Rock, AR 72211
501-223-9302

GENERAL CONTRACTOR

Baldwin & Shell
1000 W. Capitol Ave.
Little Rock, AR 72201
501-374-8677

MECHANICAL SUBCONTRACTOR

Comfort Systems USA (Arkansas), Inc.
9924 Landers Rd.
N. Little Rock, AR 72117
501-834-3320

Notes:

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chowell@comfortar.com

9924 Landers Rd.
No. Little Rock, AR 72117

SP-1

250-SERIES

Submersible Sump/Effluent Pump

Liberty Pumps®

A Family and Employee Owned Company

1/3 hp

1-1/2" Discharge

1/2" Solids Handling

Rugged and dependable heavy-duty cast iron pump with powder coat finish.

Features

- Unique one-piece cast body eliminates motor housing seal ring
- Durable epoxy powder coat finish
- Vortex style impeller
- Permanently sealed and lubricated bearings
- Quick-connect 10' standard power cord allows replacement of cord in seconds without breaking seals to motor (other lengths available)
- Heavy-duty Vertical Magnetic Float (VMF) on vertical float switch models

Models

250 Manual

251 Wide-Angle Float switch

253 Wide-Angle Float switch, Series Plug

257 VMF, Vertical Magnetic Float switch

Wide-angle float switches are mercury-free, mechanically activated.



Available with Wide-Angle Float Switch and Piggyback Plug



innovate. evolve.

250-Series

Impeller

Vortex style engineered polymer

Paint

Powder coat

Max Fluid Temperature

140°F (60°C) Intermittent
104°F (40°C) Continuous duty

Power Cord Type

SJTW (10' and 25' models)
SJTOOW (35' and 50' models)

Motor Housing

Class 25 cast iron

Shaft

Stainless

Hardware

Stainless

Mechanical Shaft Seal

Engineered double lip seal

Bearings

Upper and lower ball bearings

Dimensional Data

Weight: 20 lbs (Model 257)

Height: 10-1/2"

Major Width: 9-3/5" (Model 250)

Motor Specifications

1/3 hp 115V 5.2A

Thermally protected and permanently lubricated
Permanent Split Capacitor (PSC)

Cord Lengths

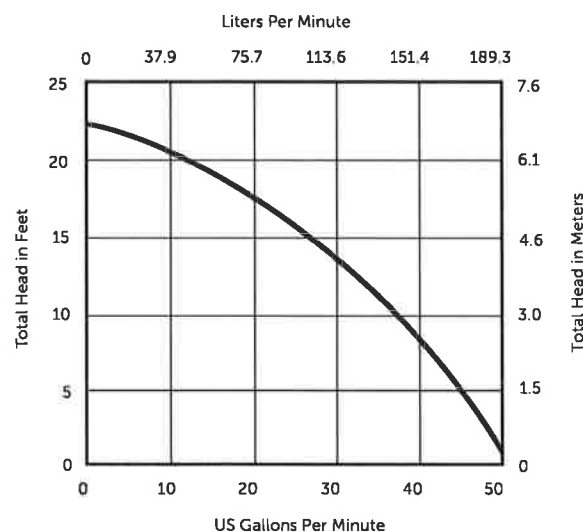
MODEL	10'	25'[-2]	35'[-3]	50'[-5]
250	Standard	Optional	Optional	Optional
251	Standard	Optional	Optional	Optional
253	Standard	Optional	Optional	N/A
257	Standard	Optional	N/A	N/A

10' cord length standard on all models. For optional lengths, add *-2, *-3 or *-5 suffix to model number.

Example: for model 250 with 35' cord, order 250-3

Performance Curve

60 Hz, 3450 RPM



Effluent Models



Model 250

Manual, no float switch



Model 251

Quick-connect wide-angle float switch, mercury-free



Model 253

Wide-angle float switch with series (piggyback) plug, allows manual operation of pump



Model 257

VMF, magnetically operated vertical float switch – operates in a 10" diameter sump

STANDARD CHECK VALVES

Liberty Pumps®

A Family and Employee Owned Company

Economy Check Valves



CV2N1 1-1/4" and 1-1/2" combo

CV150 1-1/2"

CV200 2"

- ABS valve body
- Rubber slip connect with hose clamps
- Vertical or horizontal installation
- 15 PSI rated at 104°F for CV2N1 and CV150
- 25 PSI rated at 140°F for CV200

Thread X Barb Fit



CV150-125T 1-1/2" MPT x 1-1/4" Barb

CV150-150T 1-1/2" MPT x 1-1/2" Barb

- PVC construction
- Thread directly into 1-1/2" sump pump discharge
- 30 PSI rated at 104°F

Cast Iron High-temperature 200°F



HCV150 1-1/2"

HCV200 2"

- Heavy-duty cast iron body
- Full flow
- High-temperature rubber flapper - 200°F
- 125 PSI rated
- Vertical or horizontal installation
- Female NPT connections



Ball/Check/Union Combination

BCV150 1-1/2"

BCV200 2"

- Ball/check combo provides compact design
- Heavy-duty PVC
- 150 PSI rated at 72°F
- 30 PSI rated at 140°F
- Vertical or horizontal installation
- Features union for easy disassembly
- Socket weld connections

Heavy-Duty Compression Fit



CV2N1C 1-1/4" and 1-1/2" combo

CV200C 2"

CV300C 3"



- Heavy-duty PVC
- Vertical or horizontal installation
- 150 PSI rated at 72°F for CV2N1C and CV200C
- 30 PSI rated at 140°F for CV2N1C and CV200C
- 125 PSI rated at 72°F for CV300C
- 25 PSI rated at 140°F for CV300C

STANDARD ALARMS

For Sump, Sewage and Effluent

Liberty Pumps®

A Family and Employee Owned Company

ALM-Series

- Indoor rated
- 115V Operation with 9-volt battery backup
- 86 Decibel horn
- Red LED alarm ring
- Green power "ON" light
- Auxiliary contacts
- Automatic alarm reset
- Alarm Test / Silence buttons
- 9-volt battery included

See **ALM-EYE Series** literature for
Wi-Fi connected models



Patent: See
LibertyPumps.com/patents

Super bright
LED alarm ring

Models

- ALM-2-1 Narrow angle float switch, 10' cord
- ALM-2** Narrow angle float switch, 20' cord
- ALM-P1 Compact snap-on float switch, 10' cord
- ALM-PK Puddle sensor, 50' cord



**Narrow Angle
Float Switch**
(Sewage/Effluent
application)



**Compact Snap-on
Float Switch**
Fits 1-1/4" or 1-1/2" pipe
(Sump application)



Puddle Sensor
(For floor level sensing)



ALM-2W & ALM-230W

Indoor/Outdoor
ALM-2W - 115V
ALM-230W - 230V

- Meets Enclosure Type 3R Standards
- 115V Operation, direct wire
- Thermoplastic enclosure
- Red alarm beacon
- 82 Decibel horn
- Alarm Test / Silence switch
- 20' Float switch cord
- Includes auxiliary contacts
- Easy field wiring with removable cover



ALM-3W

Commercial Outdoor

- NEMA 4X rated
- Commercial-duty enclosure
- 115V Operation, direct wire
- Flashing red alarm LEDs
- 95 Decibel horn
- Alarm "Test / ON / Silence" switch
- 20' Float switch cord
- Includes auxiliary contacts



Specifications subject to change without notice.

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