

# LSS500-SERIES

Sewage and Dewatering Pump

## Liberty Pumps®

A Family and Employee Owned Company

commercial**series**

**5 hp**

**2-1/2" Solids Handling**

**Open 2 Vane Impeller**

**3" ANSI Discharge**

### Features

- Cast iron construction with epoxy powder coating
- Stainless steel hardware
- Silicon Carbide/Silicon Carbide seal
- Buna-N O-ring seals
- Quick-connect power cords in 35', 50', or 100' lengths
- Thermal protector on 1-phase models
- Cast iron impeller



Vertical Discharge  
Option Available



Optional 3" to 4" ANSI  
Adapter Kit K001901  
(sold separately)



***Proudly made in the USA  
with US & global components***

innovate. evolve.

# LSS500-Series

## Impeller

Cast iron open 2 vane

## Finish

Epoxy powder coat

## Max Fluid Temperature

104°F (40°C) Continuous duty

## Motor

Oil-filled, Class F insulation

## Power Cord Type

SOOW, Quick-connect 35', 50', or 100' length options

## Motor Housing

Class 25 cast iron

## Volute

Class 30 cast iron

## Shaft

Stainless

## Mechanical Shaft Seal

Silicon carbide on silicon carbide

## Bearings

Upper and lower ball bearings

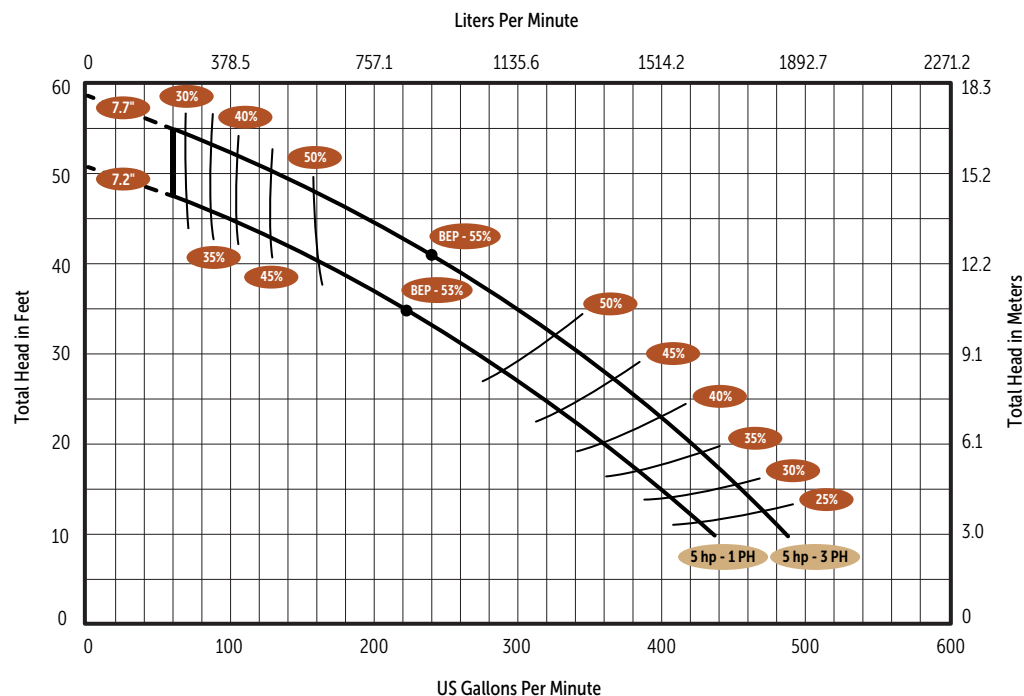
## Warranty

18 Months from the date of installation or  
24 months from the date of manufacture  
*See Liberty Pumps Limited Warranty - Wholesale  
Commercial Series*



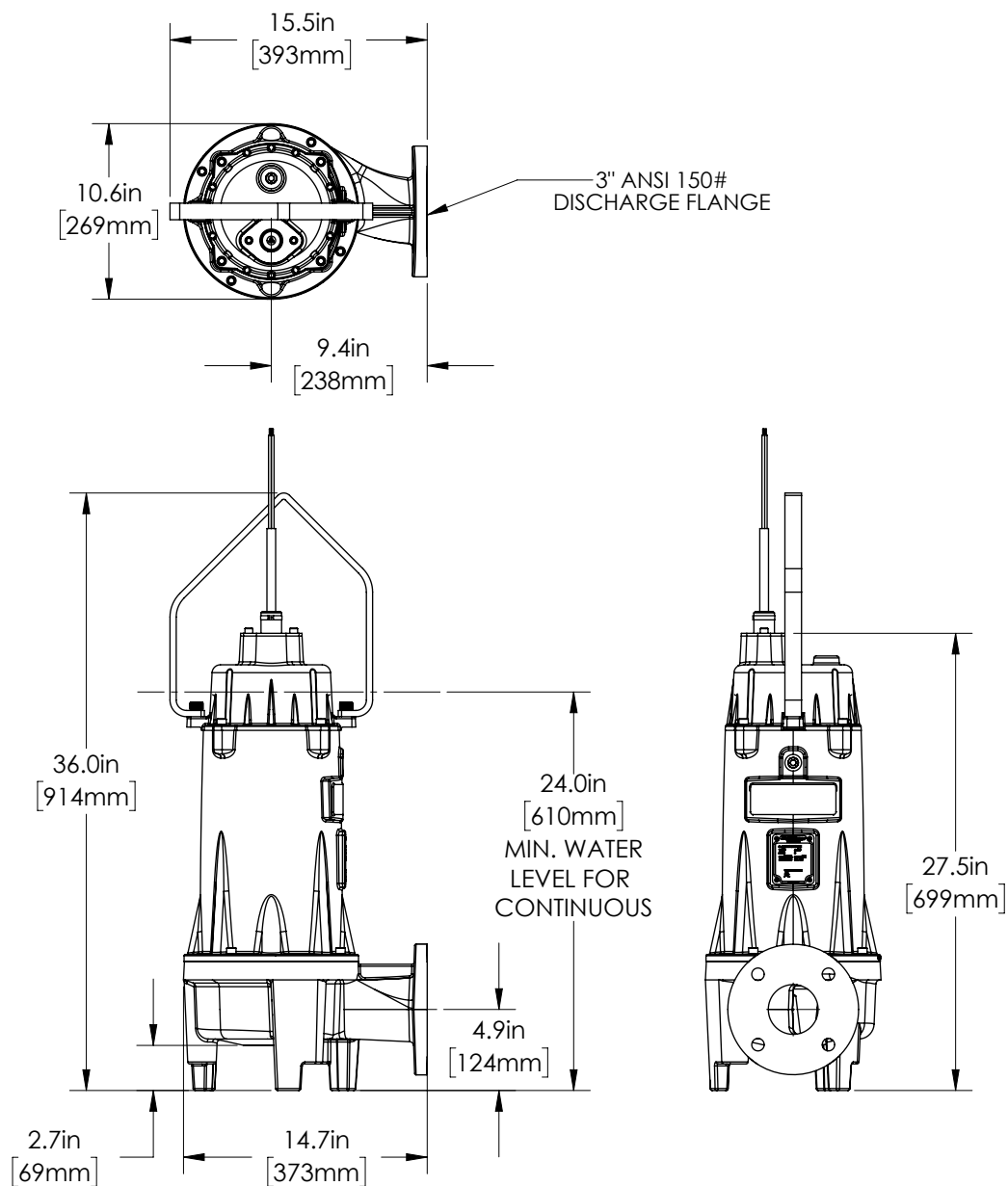
## Performance Curve

60 Hz, 1725 RPM, 10' Minimum Head Required



\*Stated efficiencies are Hydraulic Efficiency.  
Wire-to-Water efficiency information is available upon request.

## Dimensional Data - ANSI Horizontal Discharge



## Models - Horizontal Discharge

| MODEL  | HP | VOLTS   | PHASE | AMPS | DISCHARGE          | WEIGHT in LBS<br>[-3 MODELS] |
|--------|----|---------|-------|------|--------------------|------------------------------|
| LSS502 | 5  | 200/230 | 1     | 22.5 | 3" ANSI Horizontal | 300                          |
| LSS503 | 5  | 200/230 | 3     | 19   | 3" ANSI Horizontal | 300                          |
| LSS504 | 5  | 460     | 3     | 9    | 3" ANSI Horizontal | 300                          |
| LSS505 | 5  | 575     | 3     | 7.4  | 3" ANSI Horizontal | 300                          |

For 35' cord option, add a "-3" suffix to model number. Example: LSS502-3

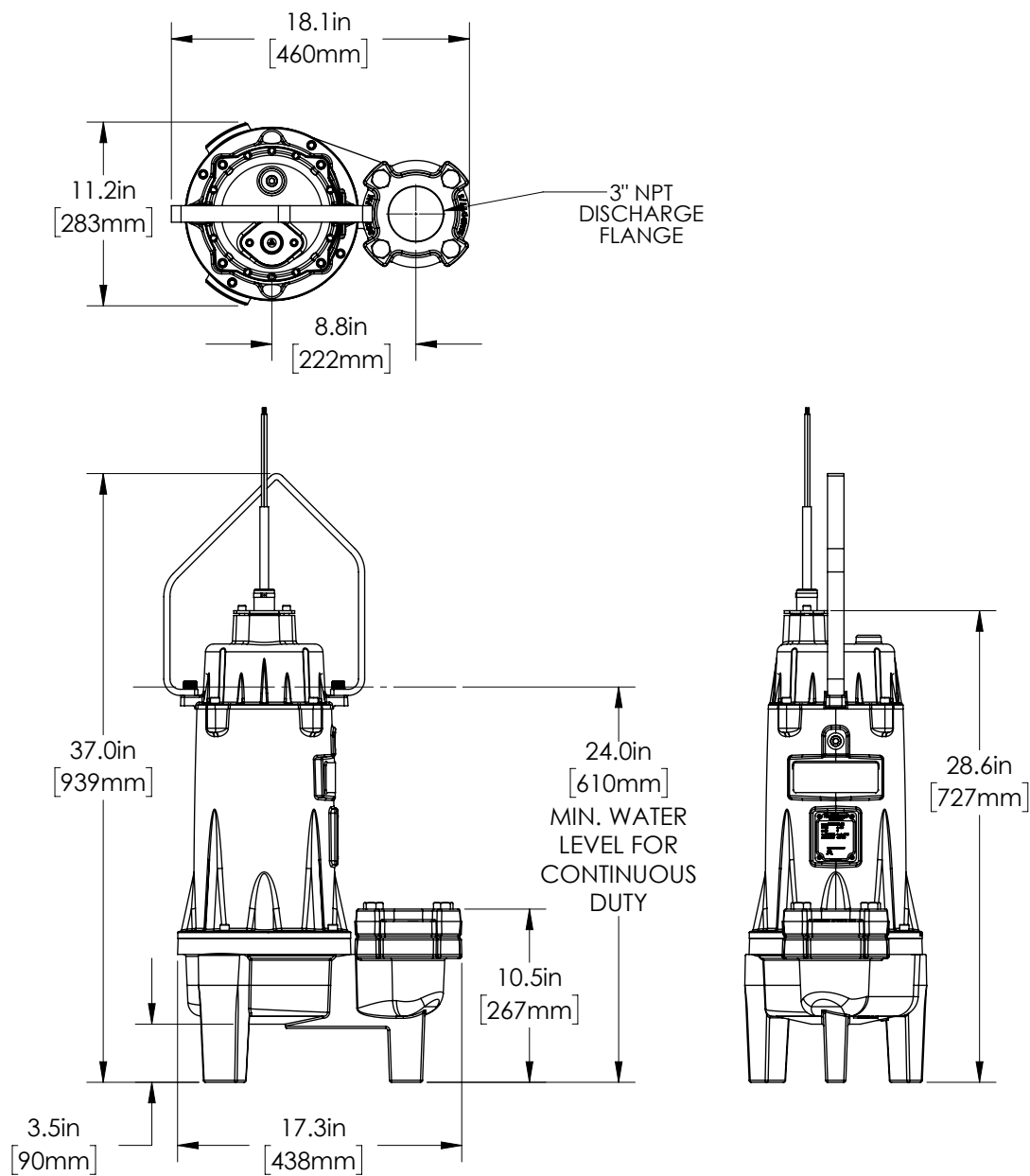
For 50' cord option, add "-5" suffix to model number. Example: LSS502-5

For 100' cord option, add "-1" suffix to model number. Example: LSS502-1

For a capacitor in the panel, add "-C" suffix to model number. Only available for LSS502. Example: LSS502-1-C

# LSS500-Series

## Dimensional Data - Vertical Discharge



## Models - Vertical Discharge

| MODEL   | HP | VOLTS   | PHASE | AMPS | DISCHARGE   | WEIGHT in LBS<br>[-3 MODELS] |
|---------|----|---------|-------|------|-------------|------------------------------|
| LSS502V | 5  | 200/230 | 1     | 22.5 | 3" Vertical | 300                          |
| LSS503V | 5  | 200/230 | 3     | 19   | 3" Vertical | 300                          |
| LSS504V | 5  | 460     | 3     | 9    | 3" Vertical | 300                          |
| LSS505V | 5  | 575     | 3     | 7.4  | 3" Vertical | 300                          |

For 35' cord option, add a "-3" suffix to model number. Example: LSS502V-3  
For 50' cord option, add "-5" suffix to model number. Example: LSS502V-5  
For 100' cord option, add "-1" suffix to model number. Example: LSS502V-1  
For a capacitor in the panel, add "-C" suffix to model number. Only available for LSS502V. Example: LSS502V-1-C