

# Liberty Pumps®

## FL70-Series

**3/4 hp**

**Submersible  
Effluent  
Pumps**

**3/4" Solids Handling**

**1-1/2" or 2"  
Discharge**

### **Features:**

- Semi-open impeller permits passage of solids without clogging
- Heavy cast iron construction
- Stainless steel fasteners
- 416 stainless steel rotor shaft
- Permanently lubricated upper and lower ball bearings
- Oil-filled hermetically sealed motor with thermal overload protection
- Unitized carbon and ceramic shaft seal
- Dual-sized discharge flange: 1-1/2" or 2"
- Quick-disconnect power cord in 10' standard length (25', 35' and 50' optional lengths available on some models)



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# FL70-SERIES

## TECHNICAL SPECIFICATIONS

### EXTERNAL CONSTRUCTION:

**Pump Volute and legs** – Gray iron casting class 25

**Motor Cover** – Gray iron casting class 25. All castings shall be powder coated for corrosion resistance prior to assembly.

**Fasteners** – all fasteners shall be 300-series stainless steel.

### MOTOR

Submersible 3450 RPM, oil filled and hermetically sealed. Class B insulation rating. 17-4 PH stainless steel rotor shaft. Thermally protected on single phase models. Three phase models shall have overloads incorporated into the control panel, properly sized for the horsepower and amperage of pump.

### IMPELLER

Cast iron – class 25, semi-open design capable of passing a minimum 3/4" solids.

### SHAFT SEAL

Carbon/ceramic unitized design with BUNA N elastomers and stainless steel housing.

### POWER CORD

10' cord length – Standard. Quick-disconnect design allows for easy field replacement. Optional lengths available per chart.

### LEVEL CONTROL

Automatic models shall be controlled by an adjustable wide-angle style switch sealed in a polymeric float. A series piggy-back style plug shall be provided to allow for manual bypass operation. Not available on 50' models and 3-Phase.

### DISCHARGE

2" FNPT with a 1-1/2" FNPT threaded cast iron flange provided.

### DIMENSIONAL DATA:

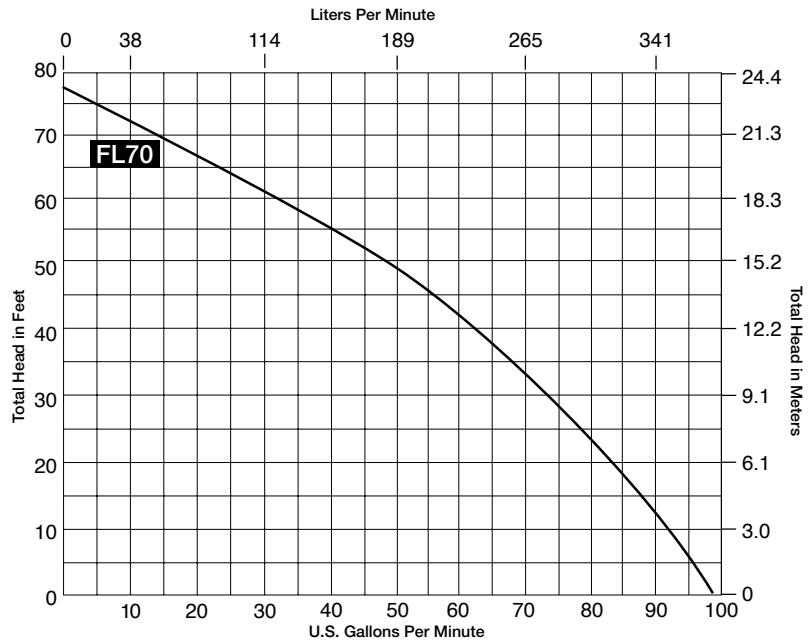
**Height:** 16.4"    **Width:** 11.2"  
(manual models)

### Maximum Fluid Temperature:

100° F, 40° C Continuous Duty  
140° F, 60° C Intermittent

### FL70-Series

### PERFORMANCE CURVE 60 Hz.



### FL70-Series

Model	HP	Volts	Ph	Amps	Cord	Switch	Plug-End	Wgt
FL72A	3/4	208-230	1	10.5	10'	Automatic	Series Plug	61
FL72A-2	3/4	208-230	1	10.5	25'	Automatic	Series Plug	63
FL72A-3	3/4	208-230	1	10.5	35'	Automatic	Series Plug	65
FL72M	3/4	208-230	1	10.5	10'	Manual	Plug	60
FL72M-2	3/4	208-230	1	10.5	25'	Manual	Plug	62
FL72M-3	3/4	208-230	1	10.5	35'	Manual	Plug	64
FL72M-5	3/4	208-230	1	10.5	50'	Manual	Bare Lead	66
FL73M-2	3/4	208/230	3	7.5	25'	Manual	Bare Lead	61
FL73M-3	3/4	208/230	3	7.5	35'	Manual	Bare Lead	63
FL73M-5	3/4	208/230	3	7.5	50'	Manual	Bare Lead	66
FL74M-2	3/4	440-480	3	3.5	25'	Manual	Bare Lead	61
FL74M-3	3/4	440-480	3	3.5	35'	Manual	Bare Lead	63
FL74M-5	3/4	440-480	3	3.5	50'	Manual	Bare Lead	66



Specifications are subject to change without notice.