

ELV-W SERIES

Outdoor Elevator Sump Pump Systems with OilTector® Control

Liberty Pumps®

A Family and Employee Owned Company

Ideal for elevators, garages and areas where the discharge of oil/hydrocarbons into the environment is prohibited. Compliant with ASME A17.1.

Features

- Complete packaged system
- 1/3, 1/2 or 3/4 hp Sump pump
- 1-1/2" Discharge
- OilTector® control
- Remote alarm
- 115 or 230V Pump models
- Easy clamp-mount installation, with hardwired connections



Control Panel



NEMA 1 Indoor Remote Alarm



Sensor Module

Level Sensor



The OilTector® control system is designed and approved for safe operation of pumping, alarming and monitoring of elevator sump pits, transformer vaults and other applications where oil and water must be detected. The OilTector® system will activate the pump to remove water from elevator pits in accordance with ASME A17.1, and will provide pumping of only water - even if an oil condition is detected. The OilTector® cycles the pump only in the water range. Oil and other harmful substances are not discharged into the environment. An alarm is activated in the event of a high water condition or high oil condition.



innovate. evolve.

ELV-W Series System with OilTector® Control

Advanced Control Panel



Control Panel Features

- Oil resistant SJEOOW cord, 25' standard length
- Easy clamp mounted pre-set level sensor holder
- No field adjustments required. OilTector® will turn pumps ON and OFF, sound the high water alarm, and high oil alarm with one easy installation
- Solid door with alarm, separate pump and control circuits - NEMA 4X enclosure
- Height 10" x width 8" x depth 6"
- Hardwired pump connections for quick and easy installation for outdoor use
- Remote alarm with auxiliary contacts for connection to building automation or SCADA system, 24-Volt AC/DC, 500 mA max switching
- Power ON, Pump Run, High water and High oil lights
- ASME A17.1 compliant

A LED System Condition Lights

Green: Power ON

Blue: Pump Running

Red: Alarm - activated sensor or system setting

Red/Yellow: System function alert, error, or alarm

B LED Display Screen

Displays the system settings and statistics

C Hand-Off-Auto (HOA) Pump Selector Switch

Allows the user to turn the pump on manually, turn the system off completely, or run the system on automatic mode

D Rotary Scroll Wheel

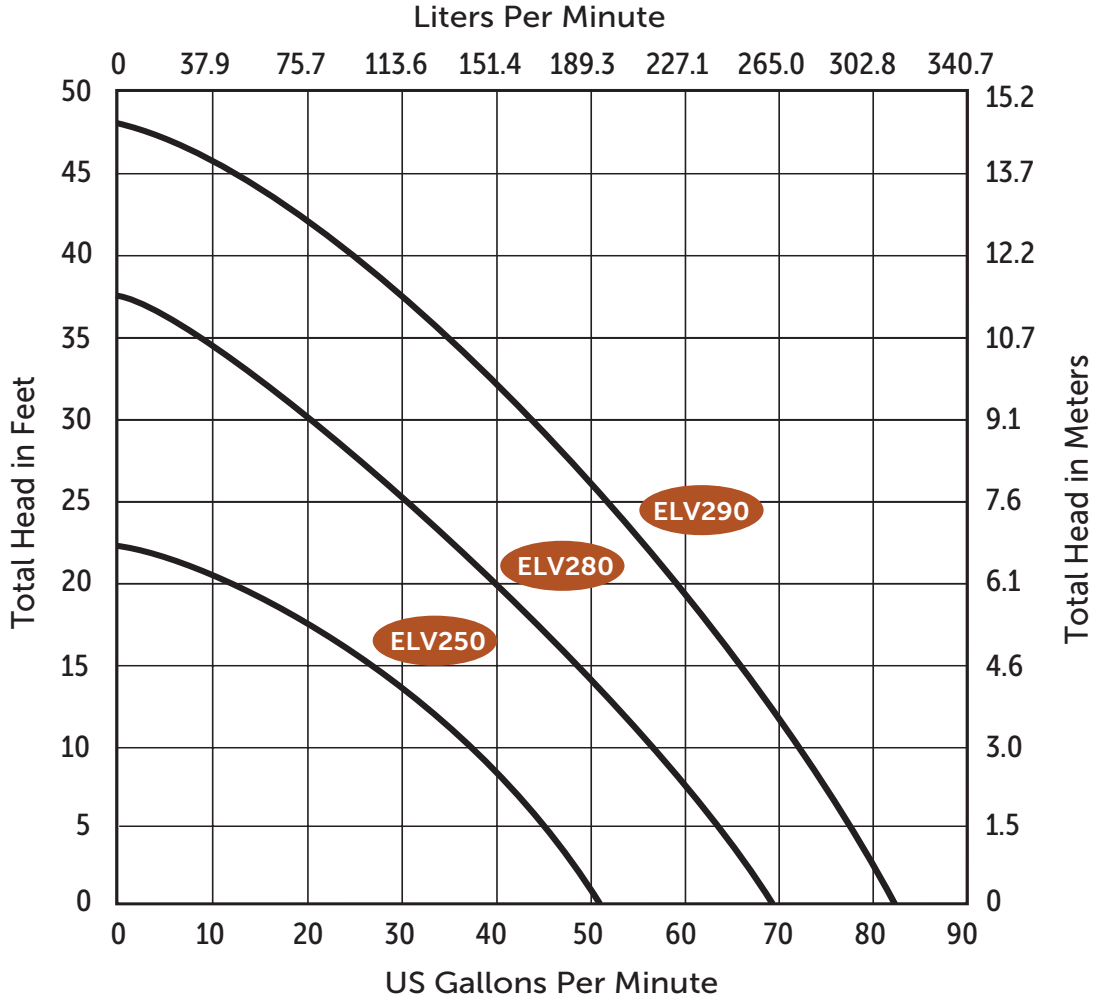
Used for navigating system statistics or changing settings

Operation

On water rise, the pump will activate when the water level reaches the "pump on" probe. Pump will remain on until the water level is below the "pump off" probe. When the "pump off" probe no longer senses water it turns the pump off, air and/or oil are ignored and an oil layer (if present) will not be pumped out of the sump. If the liquid level reaches the "alarm" probe and mechanical float, the system will differentiate between water and oil and activate the appropriate alarm.

Performance Curve

60 Hz, 3450 RPM



Pump Options



250-Series
1/3 hp
60 Hz

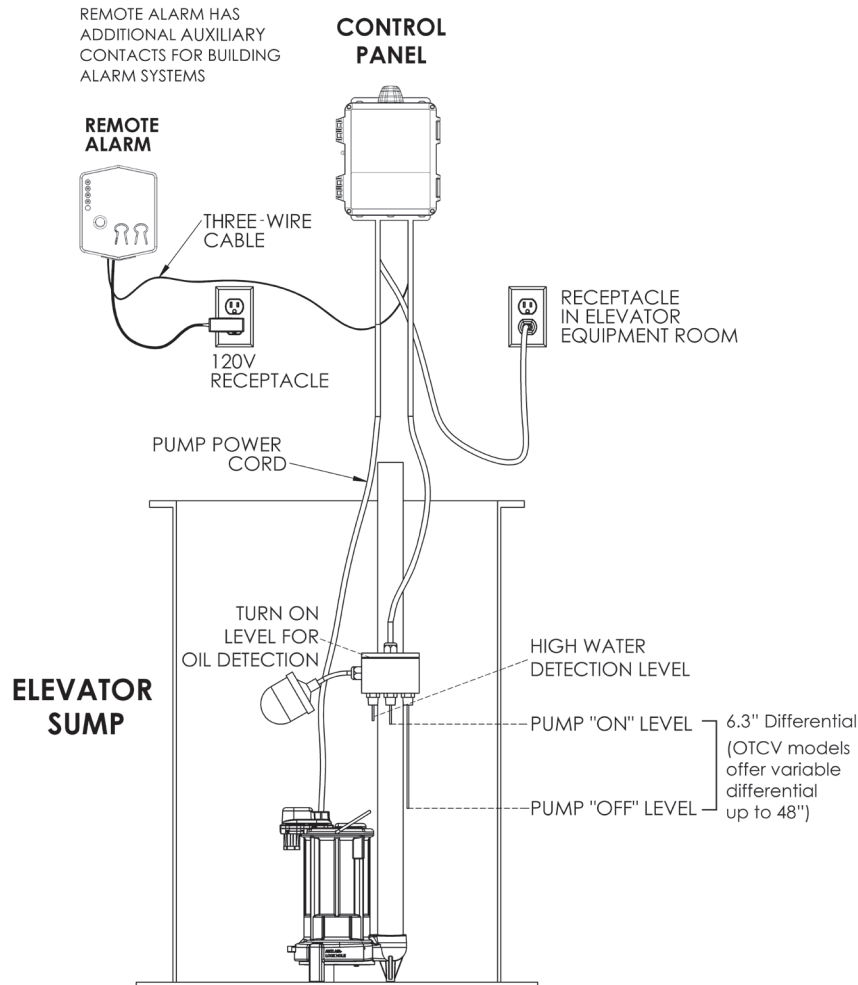


280-Series
1/2 hp
60 Hz



290-Series
3/4 hp
60 Hz

ELV-W Series System with OilTector® Control



ELV-W Series Complete Sump Pump Systems (Pump, OilTector® Control, Alarm)

MODEL	HP	VOLTS	WEIGHT IN LBS
ELV250W	1/3	115	34
ELV280W	1/2	115	40
ELV280HVW	1/2	230	40
ELV290W	3/4	115	42
ELV290HVW	3/4	230	42

Need a different pump not shown above? Contact Liberty's technical department to get a quote on a custom ELV system. 1-800-543-2550 6' cord models are available. To order, add "-06" suffix to the model number. EXAMPLE: ELV250W-06

Pump Only Models

MODEL	HP	VOLTS	WEIGHT IN LBS
EV250	1/3	115	24
EV280	1/2	115	30
EV280HV	1/2	230	30
EV290	3/4	115	32
EV290HV	3/4	230	32

Above models supplied with standard 25' pump power cord.

OilTector® Control & Alarm Only

MODEL	MAX HP	VOLTS	MAX AMP	CORD LENGTH	WEIGHT IN LBS	DIFFERENTIAL
OTC-115-230W	2	115/230	15	25'	14	6.3"
OTC-115-230W-5	2	115/230	15	50'	17	6.3"