

# Liberty Pumps®

## ELV-Series

### **Elevator Sump Pump Systems with OilTector® Control**

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

#### **Features:**

- Complete packaged system
- 1/3, 1/2 or 3/4 hp Sump Pump
  - 1-1/2" Discharge
- OilTector® Control
  - Remote Alarm
- 115 or 230 volt models
- Easy clamp-mount installation,  
with plug-in ready wiring



**Level Sensor**

**Control  
Panel**

**Alarm**



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# ELV-Series System with OilTector® Control

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.

## OilTector® Description of Operation

On water rise, the pump will activate when the water level reaches the "start" probe. Pump will remain on until the water level is below the "off" probe. When the "off" probe no longer senses water it turns the pump off, air 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.

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

| Model    | hp. | Volts  | Wgt. lbs. |
|----------|-----|--------|-----------|
| ELV250   | 1/3 | 115 v. | 34        |
| ELV280   | 1/2 | 115 v. | 40        |
| ELV280HV | 1/2 | 230 v. | 40        |
| ELV290   | 3/4 | 115 v. | 42        |
| ELV290HV | 3/4 | 230 v. | 42        |

## Pump Only Models

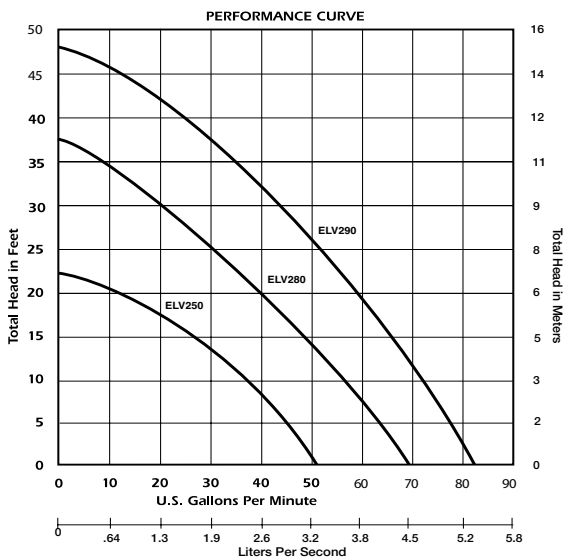
| Model   | hp. | Volts  | Wgt. lbs. |
|---------|-----|--------|-----------|
| EV250   | 1/3 | 115 v. | 24        |
| EV280   | 1/2 | 115 v. | 30        |
| EV280HV | 1/2 | 230 v. | 30        |
| EV290   | 3/4 | 115 v. | 32        |
| EV290HV | 3/4 | 230 v. | 32        |

Above models supplied with standard 25' pump power cord. For 6' or 50' pump power cords add -06 or -5 respectively. Example: ELV290-06 for 6' pump power cord.

## OilTector® Control and Alarm Only

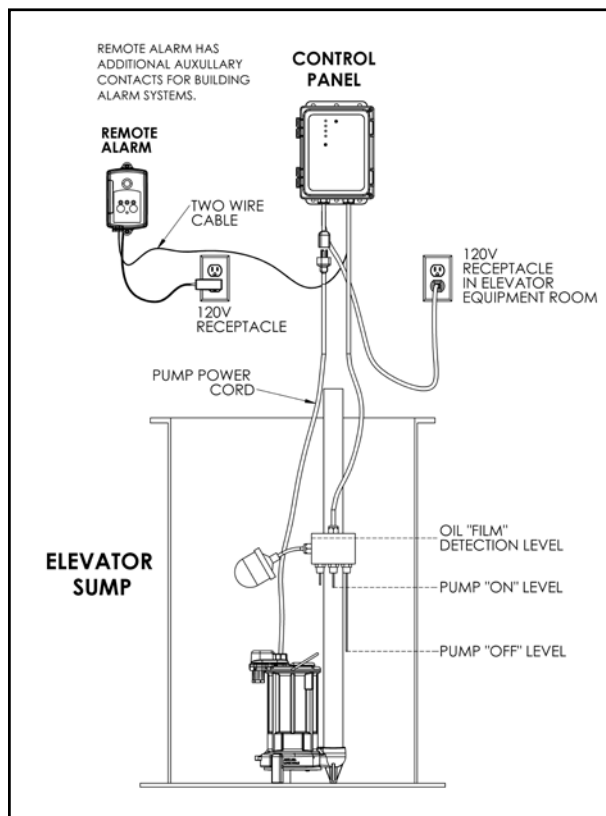
| Model     | Volts | Max. hp | Cord Length | Wgt. lbs. |
|-----------|-------|---------|-------------|-----------|
| OTC-115   | 115   | 1       | 25'         | 11        |
| OTC-230   | 230   | 2       | 25'         | 11        |
| OTC-115-5 | 115   | 1       | 50'         | 12        |
| OTC-230-5 | 230   | 2       | 50'         | 12        |

## Pump Performance Curve



## Features:

- Heavy-duty 1/3, 1/2 or 3/4 hp. cast iron sump pump.
- Oil resistant SJEOOW cord, 25' standard length with both 6' and 50' lengths available.
- 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.
- Control panel with separate pump and control circuits - Nema 1 enclosure. Height 10.0" x Width 7.5" x Depth 5.5"
- Plug-in ready pump cord and power to panel cord for quick and easy installation.
- Remote alarm with auxiliary contacts for connection to building automation or SCADA system, 24 volt AC/DC, 100 mA max switching.
- Power on, Pump Run, High water and High oil lights.
- **ASME A17.1 Compliant**



Specifications subject to change without notice.