

# Specification for Elevator Dry Power Unit

## 1.01 Configuration

Tank shall be mounted overhead of the components on a steel frame. Motor, pump, valve, and silencer will be mounted under the tank inside the frame.

## 1.02 Pumping unit tank

The storage tank shall be constructed of steel and shall be provided with a removable cover. Provision to cap pump outlet during pump replacement included.

## 1.03 Pumping unit frame

Frame shall be constructed of powder coated steel. Frame will be bolted construction to allow disassembly where doors are too small for complete unit. A separate subframe for pump and motor shall be isolated from the main frame by isolation mounts.

## 1.04 Pumping unit motor

The motor shall be alternating current, induction type designed for electro –hydraulic requirements.

## 1.05 Pumping unit pump

The pump shall be a positive displacement screw type to give smooth operation and shall be designed and manufactured for elevator service.

## 1.06 Pumping unit control valve

The control valve shall be manifold with up, down and check valve sections. A control section including solenoid valves will direct the main valve and control up and down starting, transition from full speed to leveling speed, up and down stops, pressure relief and manual lowering. Down speed and up and down leveling shall be controlled at the main valve sections. All of these functions shall be fully adjustable for maximum smoothness and to meet contract conditions. The manual lowering feature will permit lowering the elevator at slow speed in the event of power failure or for adjusting purposes.

## 1.07 Optional silencer

An air-bladder silencer shall be provided at the control valve discharge.

## 1.08 Optional oil cooler

1. Oil cooler with heat rejection of 18,000 BTU/hr, based on ambient temperature 40 deg F cooler than oil out. Cooler may be mounted adjacent on pumping unit storage tank or remote up to 110 ft. horizontally and 55 ft. vertically.

2. To include:

a. Single fan radiator

- b. Adjustable thermostat control
- c. Isolated radiator mounts
- d. 10 micron easily changeable filter
- e. Restriction sight glass with bypass in case of plugged filter
- f. Single plug for 115 VAC 20 amp separate circuit
- g. Fittings, hardware, and instructions