

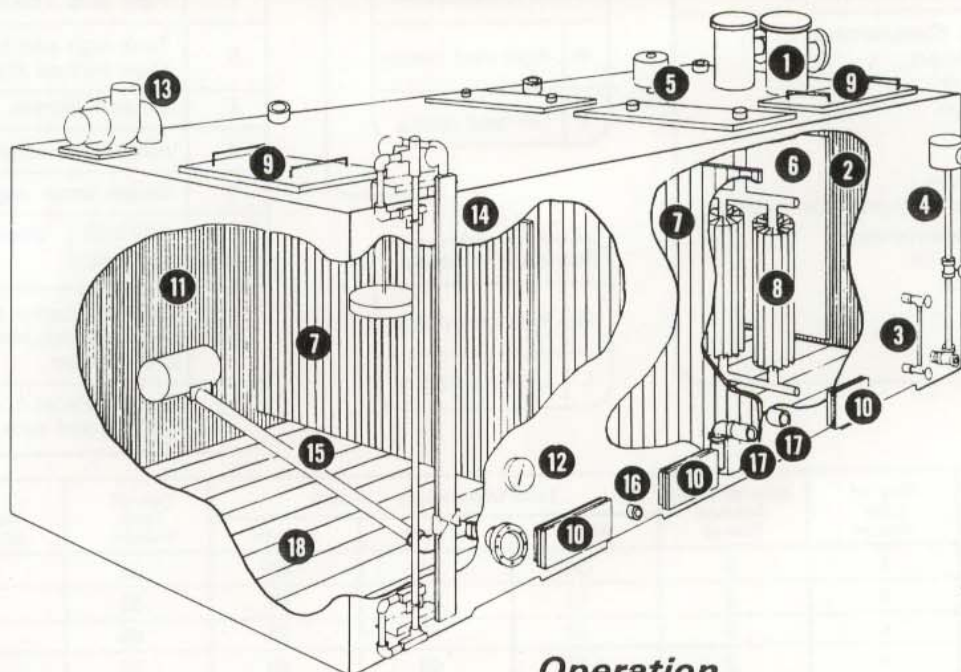
ENERVAC

CORPORATION

Engineers and Manufacturers of

Model E360A

DIRTY OIL RECEIVING TANKS



- | | |
|---------------------------------------|---------------------------|
| 1—Inlet Gravity Strainers | 10—Cleanouts |
| 2—Precipitation Compartment | 11—Settling Compartment |
| 3—Water Gauge | 12—Thermometer |
| 4—Automatic Water Ejector | 13—Exhaust Blower |
| 5—Filter Breather | 14—Level Indicator |
| 6—Heating Compartment | 15—Floating Suction |
| 7—Weirs | 16—Dehydrator Connections |
| 8—Removable Steam or Electric Heaters | 17—Deep Suctions |
| 9—Manways | 18—Sloping Bottom |

Application

In an Oil Circulating and Filtering System it is frequently necessary or desirable to arrange a gravity return of the oil from the bearings and gears directly into a specially designed Receiving Tank. It is important to recognize that the design of this dirty oil receiving tank is for purposes other than mere storage of the system oil. One of the basic features of the tank is that it serves as a contamination trap. This is accomplished by the physical size of the tank, which provides a minimum oil velocity as it passes from the return end strainers to the floating suction. This minimum velocity and the controlled flow pattern designed into the oil receiver provides for the maximum amount of settling in the retention time provided, thus enabling the maximum amount of solids and free water to settle out as the oil passes through the tank.

Operation

The principle of operation is simple. Oil flows by gravity into the return line strainers removable baskets where larger particles of dirt are removed. It is then forced to flow under a weir in the precipitation compartment where the bulk of the free water and larger dirt particles settle out. The oil then flows through the heating compartment over the removable steam coils or electric heaters where the viscosity of the oil is lowered to a point at which other dirt and water readily separate on its passage through the separation compartment. The oil is pumped from the settling compartment by means of a floating suction. This is to maximize the retention time provided and to assure no contamination that has started to settle is again picked up by the pump suction. Notice the sloping bottom to facilitate the removal of settled solids through the large clean outs provided.

Specifications

CONSTRUCTION:

Steel Plate, welded construction. Both compartments are provided with sloping bottom, clean outs and manways.

FINISH:

Exterior Finish Enervac Blue. Internals rust preventive coating.

Precipitation and Receiving Tanks

NOMENCLATURE CHART

Model E360A — [] — [] — []

Standard Features

Precipitation Compartment:

- Return Strainers
- Water Gauge
- Deep Suction
- Clean Out
- Manway
- Steam Heaters
- Temperature Regulator Connection

Settling Compartment:

- Floating Suction
- Deep Suction
- Clean Outs
- Manway
- Thermometer

Tank Orientation

| | |
|---|-------------------|
| R | Right hand module |
| L | Left hand module |

Strainer Orientation

| | |
|---|-------------------|
| R | Right hand module |
| L | Left hand module |

| Code | Optional Features |
|------------|--|
| M | Magnetic trays c/w hinged cover. |
| I | Tank level indicator assembly. |
| S | Tank high and low level switches ass'y. Must include Option I level indicator. |
| E | Exhaust blower, motor and breather. |
| A | Automatic water ejector. |
| T | Steam temp. regulator assembly. |
| H57 H46 | 575/3/60 } Electric heaters 460/3/60 } (in place of steam). |
| P1 | Electric Control Panel for level switches, mounted and wired. c/w Howler. |
| P2 | Electric Panel c/w Thermostat. To be used with Electric heat. |

| Total Holding Capacity | Size of Inlet Flange | Size of Float Suction Flange | Tank Dimensions - Inches | | | Overall Tank Height | No Return Strainers | Shipping Weight Pounds |
|------------------------|----------------------|------------------------------|--------------------------|--------|--------|---------------------|---------------------|------------------------|
| | | | Width | Height | Length | | | |
| 300 | 4 | 2 | 36 | 36 | 59 | 60 | 1 | 820 |
| 400 | 4 | 2 | 42 | 36 | 65 | 60 | 1 | 980 |
| 600 | 4 | 3 | 48 | 42 | 73 | 66 | 1 | 1,250 |
| 800 | 4 | 3 | 48 | 48 | 88 | 72 | 1 | 1,950 |
| 1,000 | 4 | 3 | 48 | 48 | 110 | 72 | 1 | 2,360 |
| 1,200 | 4 | 3 | 54 | 48 | 118 | 72 | 2 | 2,690 |
| 1,500 | 4 | 3 | 60 | 54 | 116 | 78 | 2 | 2,870 |
| 2,000 | 4 | 3 | 72 | 54 | 130 | 78 | 2 | 3,870 |
| 2,500 | 4 | 3 | 72 | 54 | 162 | 78 | 2 | 4,290 |
| 3,000 | 4 | 4 | 84 | 54 | 165 | 78 | 2 | 4,700 |
| 4,000 | 4 | 4 | 84 | 60 | 198 | 84 | 3 | 5,320 |
| 5,000 | 4 | 6 | 96 | 60 | 216 | 84 | 3 | 8,430 |
| 6,000 | 4 | 6 | 96 | 72 | 214 | 96 | 3 | 9,740 |
| 8,000 | 4 | 6 | 120 | 72 | 228 | 96 | 3 | 11,950 |
| 10,000 | 4 | 8 | 120 | 72 | 285 | 96 | 3 | 14,000 |
| 12,000 | 4 | 8 | 120 | 72 | 340 | 96 | 4 | 16,500 |
| 14,000 | 4 | 8 | 120 | 84 | 340 | 108 | 5 | 17,800 |
| 16,000 | 4 | 8 | 120 | 84 | 386 | 108 | 6 | 24,800 |
| 18,000 | 4 | 10 | 120 | 94 | 386 | 118 | 7 | 27,000 |
| 20,000 | 4 | 10 | 120 | 94 | 432 | 118 | 8 | 30,000 |

Representative

ENERVAC
CORPORATION

700 FRANKLIN BLVD., CAMBRIDGE
ONTARIO, CANADA N1R 5W6
(519) 623-9890 TLX. 069-59443
FAX (519) 623-8250