

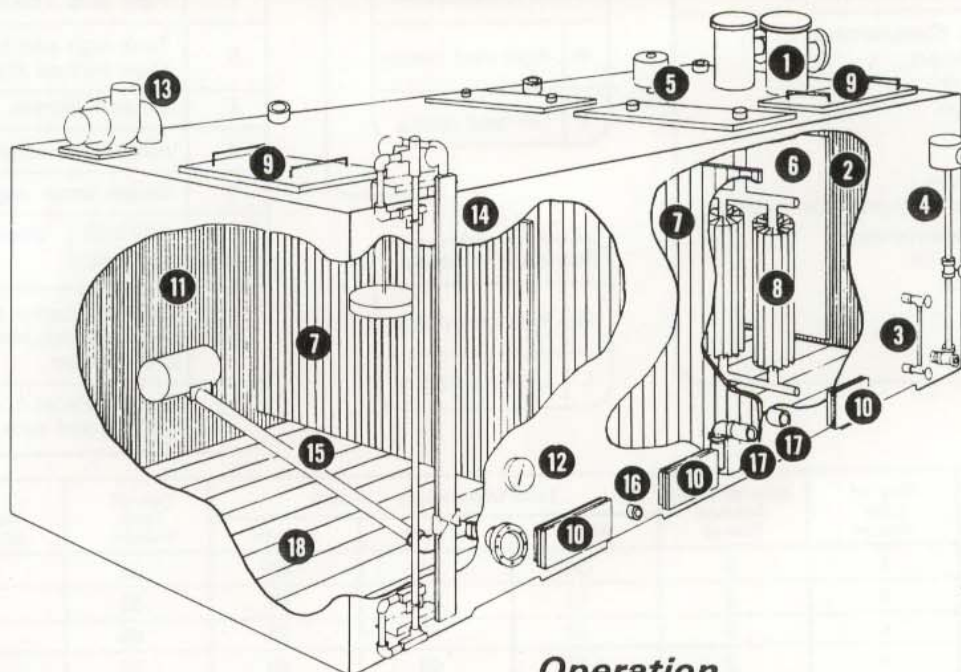
# ENERVAC

## 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

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