

## Engineering Data Sheet

8034

### Product: DeOiler™ Coalescing Filter Cartridge

#### Product Description

The DeOiler™ is a proprietary oil/water separation device that has been custom designed to remove oily contaminants from air compressor condensates.

#### Product Application

The DeOiler™ will also accept condensates from receiver tanks, intercoolers, aftercoolers, dryers, filters, and drip legs so long as the oily contaminated water is under pressure. Oily liquids are slowly filtered through a highly effective oleophilic adsorbent material which removes free and mechanically emulsified oils as well as particulates down to 1 micron in size. The adsorbent used adsorbs about 30 times as much as the same weight of activated carbon.

The partially treated water then passes through a mixed bed consisting of OrganoSorb™ and powdered activated carbon (PAC). OrganoSorb™ adsorbs about 5 times as much organics as PAC and thereby significantly extends the useful life of the mixed bed. The mixed bed removes chemically emulsified oils as well as glycol and silicone based lubricants. As a direct result of incorporating 1) regulated flow, 2) oleophilic adsorbent material, and 3) a mixed bed of powdered activated carbon and OrganoSorb™, the

DeOiler™ can effectively treat 5 times as much condensate as all other equally priced competitor products.

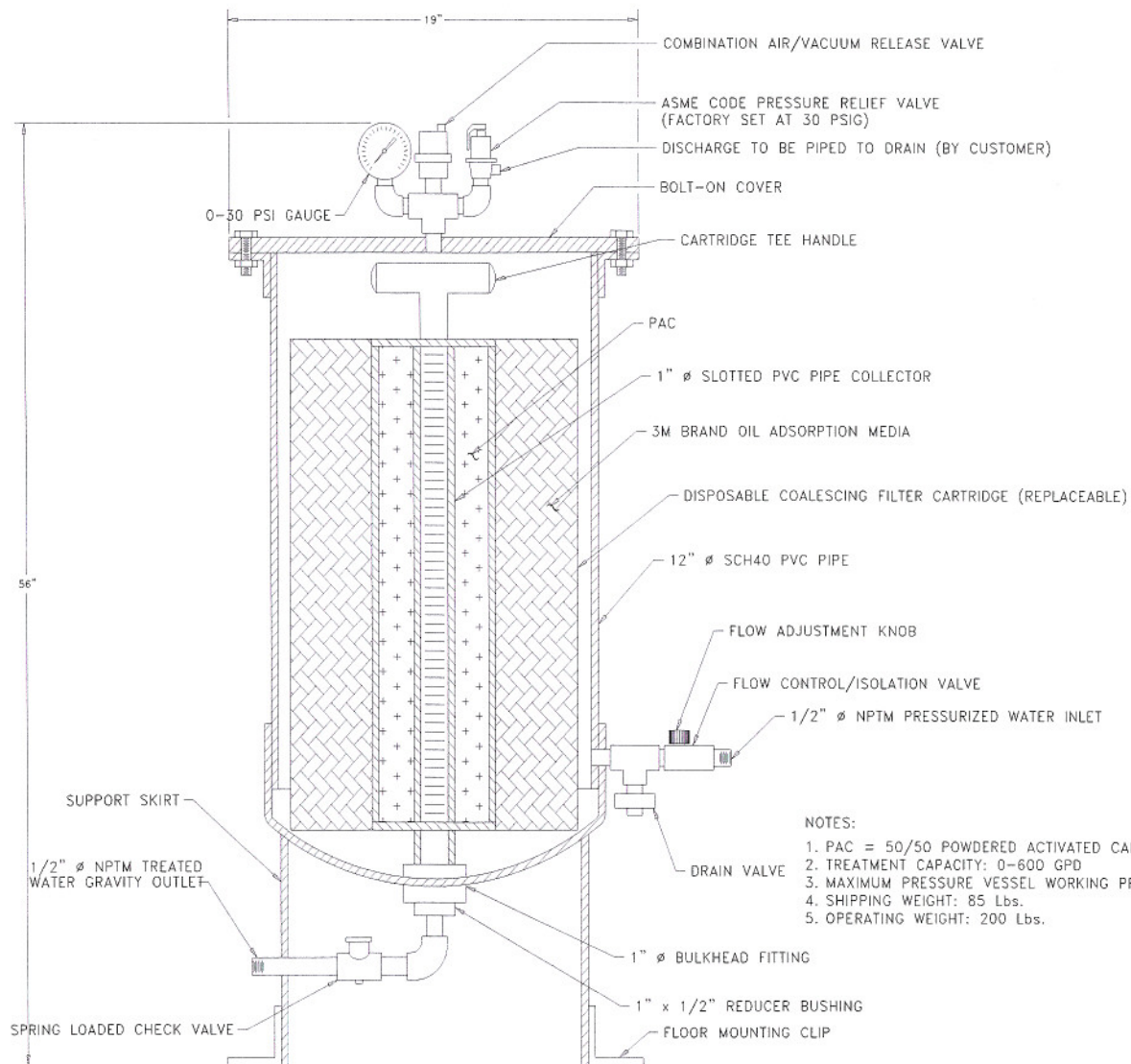
#### Product Features

- ◆ No technical assistance required by end user. May be used for all compressor units without exception or reservation.
- ◆ One size fits all compressor/receiver tank sizes.
- ◆ No moving parts to wear out.
- ◆ Less than 1 ppm (mg/L) oil in effluent.
- ◆ User can monitor degree of useful treatment capacity remaining. As operating pressure begins to increase, useful life is approaching exhaustion.
- ◆ Extremely long useful life, 5 to 10 times that of the competition.
- ◆ Competitively priced.
- ◆ Fail-safe operation. Oily contaminants cannot pass through the DeOiler™ without treatment. As useful capacity is nearing exhaustion, unit begins to plug with collected oils.

From the Engineering Department of

**WaterSmart**  
**Environmental, Inc.**





DeOiler™ PRESSURE VESSEL  
ELEVATION SECTION