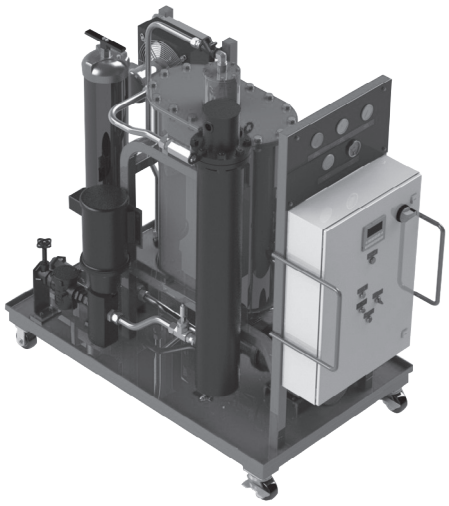
# North American Vacuum Dehydrator NAV



## Features and Benefits

- Water Sensor standard on all units to show percent saturation
- Removes 100% of free and over 90% of dissolved water, as well as 100% of free and over 90% of dissolved gases
- Maintenance, operating, troubleshooting instructions are in HMI (touchscreen)
- Automatic mode enables user-defined system shutdowns
- Use of a low maintenance, dry running claw vacuum pump helps to avoid any dangerous, chemically reactive by-products

Part of Schroeder Industries Energy Sustainability Initiative

30 gpm
113.6 L/min

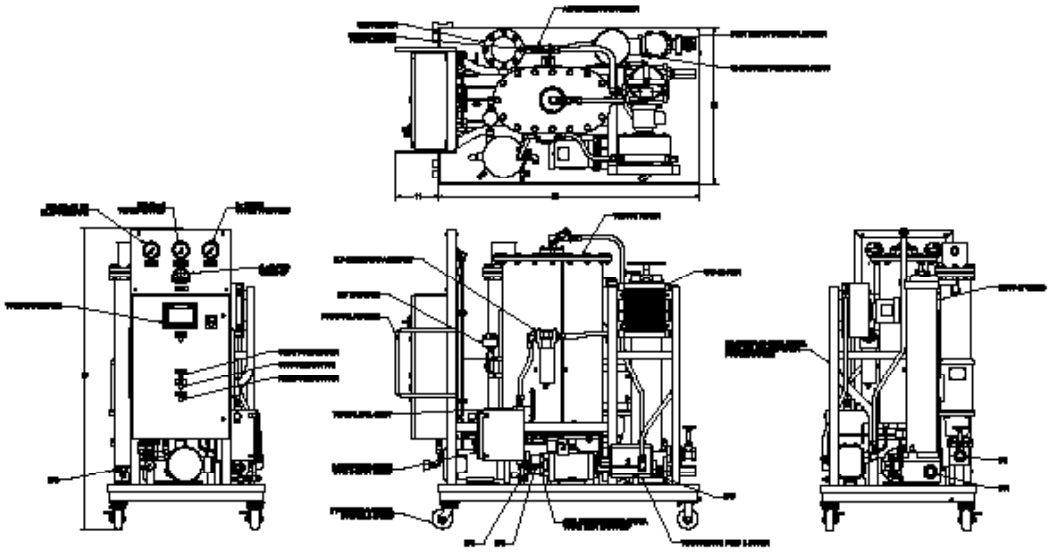
## Description

The North American Vacuum Dehydrator (NAV) uses vacuum dehydrating technology to remove both free and dissolved water, and gases, from oil. In addition to water and gas, the NAV also removes solid contaminants from the oil with the use of highly efficient filter elements installed on the unit. The NAV is designed for use with larger applications, such as the conditioning of oil in larger hydraulic and lube reservoirs.

## Specifications

| | |
|---|---|
| Dimensions: | 39" W x 76" L x 74" H (99.06 cm x 193.04 cm x 187.96 cm) |
| Dry Mass: | 1990 lbs (903 kg) |
| Inlet Connections: | 2" NPT |
| Outlet Connections: | 1 ½" NPT |
| Flow Rate: | 30 gpm (114 L/min) |
| Inlet Pressure: | 22 in. Hg - 10 psi |
| Outlet Pressure: | 110 psi (7.6 bar) |
| Fluid Service Temperature: | 39°F to 170°F (3.8°C to 77°C) |
| Operating Temperature: | 39°F to 105°F (3.8°C to 40.6°C) |
| Fluid Viscosity: | 150-3280 SUS (23-700 cSt) |
| Power Supply: | 460V or 575V |
| Attainable Water Content: | <10ppm |
| Relative Humidity Display: | Standard, 0 - 99% |
| Constructions: | Base Frame: Carbon Steel<br>Vessel: Carbon Steel<br>Seals: Viton |
| Protection Class: | NEMA 4 |

# NAV North American Vacuum Dehydrator



## Model Number Selection

How to Build a Valid Model Number for a Schroeder NAV:

| BOX 1 | BOX 2 | BOX 3 | BOX 4 | BOX 5 | BOX 6 | BOX 7 |
|---|---|---|---|---|---|---|
| NAV – | | – | – | – | – | – |

Example: NOTE: One option per box

| BOX 1 | BOX 2 | BOX 3 | BOX 4 | BOX 5 | BOX 6 | BOX 7 | |
|---|---|---|---|---|---|---|---|
| NAV – | 30 – | M – | 2 – | A – | H – | 10 | = NAV30M2AH10 |

BOX 1

| Series |
|---|
| NAV |

BOX 2

| Flow Rate |
|---|
| 30 = 30 gpm |

BOX 3

| Operating Fluid |
|---|
| M = Mineral Oils (including oils w/ max. Viscosity as identified in specifications |

BOX 4

| Type |
|---|
| 1 = Stationary |
| 2 = Mobile |

BOX 5

| Voltage/Frequency |
|---|
| A = 460V / 60Hz / 3Ph+PE |
| B = 575V / 60HZ / 3PH+PE |

BOX 6

| Heater |
|---|
| H = Standard |

BOX 7

| Filtration Rating |
|---|
| 3 = 3 Micron |
| 5 = 5 Micron |
| 10 =10 Micron |
| 25 = 25 Micron |