### GEN II Vacuum Dehydrator

**Easy to use. Removes emulsified and dissolved moisture to below 20 ppm. Designed for unattended operation.**

Particulate removal down to ISO 13/10/8.

---

**ThermoVac Type**  
TVG1 Gen1  
TVG2 Gen2

**Flow Rate (GPM)**  
3  
5  
10  
15  
20  
30  
40  
50  
60

**Power**  
380V/3/50Hz  
415V/3/50Hz  
460V/3/60Hz  
575V/3/60Hz

**Heat**  
12KW  
16KW  
24KW  
32KW  
36KW  
48KW  
64KW  
96KW  
128KW

**Vacuum Pump**  
DSA25  
DSA40  
DSM63  
CPA60

**Condenser**  
AC  
LC  
BC

**Filter Media Options**  
Blank No Filter  
C518 5”x18” Coreless  
C537 5”x37” Coreless  
C639 6”x39” Coreless

**Filter Element (μ) ≥ 1000**  
Blank No Filter  
1MV 2.5 Micron Glass; Viton  
3MV 3 Micron Glass; Viton  
6MV 6 Micron Glass; Viton  
12MV 12 Micron Glass; Viton  
25MV 25 Micron Glass; Viton

**Options**  
Blank No Options  
ACD Auto Condensate Drain  
TSI Touch Screen Interface  
XP7 Explosion Proof; NEMA 7  
PAC Explosion Proof, NEMA 4 Purge Air  
LPC Laser Particle Counter  
DMM Double Moisture Monitor  
MV Vacuum Pump Carbon Treatment  
H2S H2S Removal System  
P Purged Disc Dispersal  
FE Fullers Earth Cartridge Vessel  
ACD Auto Condensate Drain  
TSI Touch Screen Interface  
XP7 Explosion Proof; NEMA 7  
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LPC Laser Particle Counter  
DMM Double Moisture Monitor  
MV Vacuum Pump Carbon Treatment  
H2S H2S Removal System  
P Purged Disc Dispersal  
FE Fullers Earth Cartridge Vessel

---

**Thermo-Vac Nomenclature**

**Type- Flow Rate- Power- Heat- Vacuum Pump- Condenser- Inlet Filter- Media- Outlet Filter- Media- Options**

<table>
<thead>
<tr>
<th>Example:</th>
<th>TVG2-10</th>
<th>460V</th>
<th>32KW</th>
<th>DSA25-</th>
<th>AC-</th>
<th>C639/</th>
<th>6MV-</th>
<th>0-C639/</th>
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<td>CPA60</td>
<td>40 CFM Claw Pump</td>
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**www.highpuritynorthwest.com**

**Local: (206) 782-2388 | Toll free: (866) 220-5118**

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**January 2015**
The easy to use Thermo-Vac degases, dehydrates and filters industrial oil with the push of a button. Our fully automated system takes the guess work out of the oil purification process. The PLC starts and stops each component in the proper order. We’ve made oil purification easy. This design is the perfect balance of economy with quality components so that performance is maximized at a reasonable cost.

**OPERATION**

Oil is drawn into the system, through a strainer, via inlet pump. Oil is then pumped through a low watt density fin tube heater, protected by a flow switch, into the stainless steel vacuum chamber. The heater(s) are temperature controlled to raise the oil to a safe operating temperature. The vacuum chamber contains high surface area pleated dispersal elements that create a massive thin film of oil, maximizing the amount of oil exposed to the vacuum conditions. Gasses and moisture are flashed off and quickly evacuated from the chamber via a vacuum pump.

An air cooled condenser condenses the vapors to water where it is collected in a stainless steel condensate tank. The condensate tank includes a high level switch that shuts the system down and lights a light on the control panel; automatic water drain is also available.

An outlet pump located at the bottom of the vacuum chamber pumps the degassed/dehydrated oil through the ßx[c]≥1000 layered glass fiber absolute coreless filter and exits the skid. Level in the vacuum chamber is maintained by level switches that regulate the inlet and outlet pump accordingly.

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Rate (GPM)</th>
<th>Vacuum Flow Rate (CFM)</th>
<th>Heat (KW)</th>
<th>Inlet/Outlet Connection</th>
<th>Chamber Dispersal Element (Qty)</th>
<th>Dimensions (Approx)</th>
<th>Weight (Approx) lbs</th>
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<tbody>
<tr>
<td>TVG2-5</td>
<td>5</td>
<td>25</td>
<td>16</td>
<td>1&quot;</td>
<td>1</td>
<td>45&quot;Wx70&quot;Lx60&quot;H</td>
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<td>TVG2-50</td>
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</table>

Voltage Options:

230vac, 3p, 60 Hz; 380vac, 3p; 50Hz; 415vac, 3p, 50Hz; 460vac, 3p, 60 Hz; 575vac, 3p, 60 Hz

Specifications subject to change without notice

**OPTIONS**

- Extra Heat
- High Vacuum Booster Pump
- Higher Capacity Vacuum Pump
- Particle Counter
- Flow Meter
- Auto Condensate Drain
- Explosion Proof
- Trailer
- Generator
- Processing and Storage Tanks
- H2S Removal System
- System Enclosure Options
- Fullers Earth Cartridge Vessel
- Packed Disc Dispersal Elements

**FEATURES**

- Leak Proof Stainless Steel Hydraulic Fittings and Tubing
- Stainless Steel Vacuum Chamber with Access Door and Window
- 6" x 22" Plated Dispersal Elements
- Fiber Optic Foam Control
- Superior Level Switch Chamber Level Control
- Low Watt Density Fin Tube Heaters
- Digital Temperature Controller
- Individual Heater Selector Switches
- 0.5 Torr Vacuum Pump
- Air Cooled Condenser with Stainless Steel Condensate Tank
- TEFC Motors
- UL Approved NEMA 4 Control Panel
- One Button Operation
- PLC Controller
- Phase Fail Circuit and Reversing Switch
- G(c)=1000 Absolute Rated Glass Filters
- Hour Meter
- Dirty Filter, Low Oil Level, High Oil Level, Low Flow and High Heat Alarm Lights
- Quality Positive Displacement Gear Pumps
- 50 PSI Working Pressure
- Carbon Steel Base with Drip Pan, Fork Lift Guides and Casters
- Two Part Epoxy Paint
- One Year Warranty
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### Model Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Flow Rate (GPM)</th>
<th>Vacuum Flow Rate (CFM)</th>
<th>Heat (KW)</th>
<th>Inlet/Outlet Connection</th>
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<th>Dimensions (Approx)</th>
<th>Weight (Approx) lbs</th>
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<tbody>
<tr>
<td>TVG2-5</td>
<td>5</td>
<td>25</td>
<td>16</td>
<td>1”</td>
<td>1</td>
<td>45&quot;Wx70&quot;Lx60&quot;H</td>
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</table>

**Voltage Options:**

- 230vac, 3p, 60 Hz
- 380vac, 3p
- 415vac, 3p
- 460vac, 3p
- 575vac, 3p

Specifications subject to change without notice

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- One Year Warranty

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**Contact Information**

www.highpuritynorthwest.com
sales@hpnwinc.com
Local: (206) 782-2388 | Toll free: (866) 220-5118
1544 NW Ballard Way, Seattle, WA 98107
East Coast Office: (603) 577-8707
DEGAS. DEHYDRATE. FILTER.

GEN II Vacuum Dehydrator

Easy to use. Removes emulsified and dissolved moisture to below 20 ppm. Designed for unattended operation.
Removes Particulate to ISO 16/13/11 or better.

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January 2015