

# V1

## Compact VUD Vacuum Dehydrator

A compact and mobile dehydration and high efficiency filtration solution, the V1 prevent acidity and loss of lubrication properties caused by inefficient dehydration and high ingestion.

Ideal for rapidly removing all forms of water including free, emulsified, and dissolved water and gas from hydraulic and lube oils.

Donaldson.  
HY-PRO™

[hyprofiltration.com/](http://hyprofiltration.com/)



V1S model shown



V1P model shown

## Different by design.

The V1S is optimized for low headspace clearance for use in marine applications and with the S special option, V1S can remove the water without leaving salt behind to cause problems in thruster, steering and propulsion systems.



## Size matters.

With small size comes great power. Utilizing single phase power supplies, V1 models provide the same unmatched water and particulate removal as larger VUDs on a smaller scale with the added benefit of incredible mobility. And with the ability to use single phase connections for power, you'll have clean, dry fluids anywhere and everywhere you need them.

## Results you can see.

Clear covers on the vacuum chamber and condensate collection tank let you see as the V1 removes the water from your oil and collects it in the condensate tank. From there, you can say goodbye as it's drained and removed from your system, for good.



## Integrated intelligence.

The V1 smart relay enabled control panel makes start-up and shut-down operator friendly and safe so that when you press the start button the automatic scripted sequence controls what comes on and when, meaning you don't need three hands to get it going.

## Never stops working.

V1 is a workhorse designed for 24/7 unattended operation. With a dual condensate collection tank design, auto water level sensors and automatic acting drain valves, there is no need to stop to drain water.



## Completely, entirely, totally, all inclusive.

When it comes to comprehensive filtration and water removal, the buck stops here. V1 customization takes on many forms such as unique size requirements, combining V1 with other technologies (i.e. FRF acid or turbine lube oil varnish removal), or other customer specific needs.

# V1 Specifications

Model	<b>V1P</b>	<b>V1S</b>
Height <sup>1</sup>	50" (127 cm)	45" (114 cm)
Width <sup>1</sup>	28" (71 cm)	34" (86 cm)
Depth <sup>1</sup>	28" (71 cm)	24" (61 cm)
Weight <sup>1</sup>	400 lbs (181 kg)	400 lbs (181 kg)
Inlet	¾" male JIC	¾" male JIC
Outlet	½" male JIC	½" male JIC
Electric Motor	TEFC with overload protection	
Pump	Cast iron, positive displacement gear pump with internal relief.	
Vacuum Pump	Dry Rotary Vane	
Operating Temperature	<b>Fluid Temperature</b> 32°F to 180°F (0°C to 82°C)	<b>Ambient Temperature</b> -4°F to 104°F (-20C to 40C)
Materials of Construction	<b>Frame</b> Carbon steel or stainless steel	<b>Filter assembly</b> Aluminum and carbon steel
Electric Connection	50' (15 m) power cord supplied with machine.	
Media Description	<b>M</b> G8 Dualglass, our latest generation of DFE rated, high performance glass media for all hydraulic & lubrication fluids. $\beta_{x_{(C)}} \geq 4000$	<b>W</b> Stainless steel wire mesh media $\beta_{x_{(C)}} \geq 2$ ( $\beta_x \geq 2$ )
Fluid Compatibility	Petroleum and mineral based fluids. For specified synthetics contact factory for compatibility with fluorocarbon seal option. For phosphate ester or skydrol fluid compatibility select fluid compatibility from special options.	

<sup>1</sup>Dimensions are approximations taken from base model and will vary according to options chosen.

# V1 Part Number Builder

**V1**       **A-**

Model Type    Power Option    Dispersal Element    Media    Seal    Heater    Special Options

**Model**

**P** Hand truck style design for maximum mobility  
**S** Low profile design optimized for marine low headspace applications

**Power Options**

<b>60 Hz</b>	<b>50 Hz</b>
<b>12</b> 120 V ac, 1P	<b>22</b> 220 V ac, 1P
<b>23</b> 230 V ac, 1P	

**Disperser Element**

**D** Pleated disperser element - all synthetic media (viscosity  $\leq$  ISO VG 220)  
**P** Metallic packed disperser element (viscosity  $\geq$  ISO VG 460)<sup>1</sup>  
**W** Pleated stainless steel disperser element (ISO VG 150-320)

**Media Selection**

<b>G8 Dualglass</b>	<b>Stainless wire mesh</b>
<b>1M</b> $\beta_{3(c)} \geq 4000$	<b>40W</b> 40 $\mu$ nominal
<b>3M</b> $\beta_{4(c)} \geq 4000$	<b>74W</b> 74 $\mu$ nominal
<b>6M</b> $\beta_{6(c)} \geq 4000$	<b>149W</b> 149 $\mu$ nominal
<b>12M</b> $\beta_{11(c)} \geq 4000$	
<b>16M</b> $\beta_{16(c)} \geq 4000$	
<b>25M</b> $\beta_{22(c)} \geq 4000$	

**Seals**

**B** Nitrile (Buna)  
**V** Fluorocarbon  
**E** EPR seals + stainless steel support mesh

**Heater<sup>1</sup>**

**1** 1 kW (power option 12 only)  
**2** 2.5 kW (power options 22 & 23 only)  
**4** 4.5 kW (power options 22 & 23 only)

**Special Options**

**A** Auto-condensate drain  
**C** CE marked for machinery safety directive 2006/42/EC  
**D** Filter High  $\Delta P$  Light  
**F** Foaming Sensor (Vac Chamber)  
**P9<sup>2</sup>** Phosphate ester fluid compatibility modification  
**O** PM-1 On-Board Particle Monitor  
**S<sup>3</sup>** Stainless components for salt water removal  
**S9<sup>4</sup>** Skydrol fluid compatibility modification  
**T** Hose kit (suction & return hoses + wands)  
**V<sup>5</sup>** Inlet control valve (for positive head inlet)  
**W** Water Sensor With Display

<sup>1</sup>Heater is dependent on power option

<sup>2</sup>When selected, must be paired with Seal option "V." Contact factory for more information or assistance in fluid compatibility.

<sup>3</sup>Only available on V1S model.

<sup>4</sup>When selected, must be paired with Seal option "E-WS." Contact factory for more information or assistance in fluid compatibility.

<sup>5</sup>Recommended option.

For all up to date option details and compatibilities, please reference our Contamination Solutions Price List or contact customer service.

**Want to find out more? Get in touch.**

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