

Vacuum Pumps	Dimensions Performance Data
Screw Type <b>DPS400</b>	



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Rev. 0

subject to change without notice  
supersedes all previous data  
printed in the U.S.A.

<b>PUMP MODEL NO.</b>	<b>e-vac™ DPS400</b>
<b>PUMP TYPE</b>	<i>Dry running, Twin Screw, Horizontal</i>
<b>STAGES</b>	1
<b>ROTATION SPEED</b>	3600 rpm
<b>NOMINAL PUMP CAPACITY</b>	400 ACFM (680 m <sup>3</sup> /hr)
<b>ULTIMATE VACUUM</b>	< 0.2 torr (0.27 mbar)
<b>INLET CONNECTION SIZE</b>	ANSI 3" 150# Raised Face
<b>OUTLET CONNECTION SIZE</b>	ANSI 3" 150# Raised Face
<b>PUMP INTERNAL PRESSURE RATING</b>	100 psig (6.9 bar)
<b>MATERIALS OF CONSTRUCTION</b>	
<i>Stator</i>	<i>Ductile Iron, PTFE coated</i>
<i>Rotors</i>	<i>Ductile Iron, PTFE coated</i>
<b>BEARING TYPE AND LUBRICATION</b>	
<i>High Vacuum End</i>	<i>Roller, Vacuum grease packed</i>
<i>Low Vacuum End</i>	<i>Double Ball, Oil Splash</i>
<b>SHAFT SEAL ARRANGEMENT</b>	
<i>High Vacuum</i>	<i>PTFE Lip seals / Labyrinth</i>
<i>Low Vacuum</i>	<i>PTFE Lip seals / Labyrinth / Gas Purged seal</i>
<b>DRIVE TYPE</b>	<i>Direct drive with integral gear box</i>
<b>WEIGHT</b>	1455 Lbs (660 kg), {2400 lbs (1088 kg) w/ motor & base}
<b>COOLING WATER ARRANGEMENT</b>	<i>Direct Water Cooled</i>
<b>COOLING WATER</b>	<i>½ inch NPT, In/Out</i>
<i>Maximum Inlet Temp</i>	<i>85 ° F (30 ° C) for higher temperatures, please advise.</i>
<i>Typical Temp Rise</i>	<i>30 ° F (17 ° C)</i>
<i>Typical Flow Rate</i>	<i>3 - 6.0 gpm approx.</i>
<i>Pressure Rating</i>	<i>60 psig (4 bar)</i>
<b>OVER TEMPERATURE SWITCH</b>	<i>Standard Nema 7</i>
<i>Setting</i>	<i>variable</i>
<b>NOISE LEVEL</b>	<85 dBA
<b>SEAL PURGE TYPE</b>	<i>Air or Nitrogen*</i>
<i>Flow Rate &amp; Pressure</i>	<i>1 scfm @ 6 psig(25 liters/min @ 0.3-0.5 bar gage)</i>
<b>GAS BALLAST TYPE</b>	<i>Air/Nitrogen/Exhaust gas*</i>
<i>Flow Rate &amp; Pressure</i>	<i>14 scfm @ 2 psig (25 liters/min @ 0.14 bar)</i>
<b>INSTALLED POWER (Motor HP)</b>	<i>40 Hp (30 KW), TEFC, 460 Volt, 3 phase, 60 Hz</i>
<b>POWER REQUIREMENT AT VACUUM</b>	<i>30 Hp (22 KW)</i>

\* The purge/ballast gas is selected for suitability with the process gas.