

Vacuum Pumps	Dimensions Performance Data
Screw Type DPS100	



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subject to change without notice
supersedes all previous data
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PUMP MODEL NO.	e-vac™ DPS100
PUMP TYPE	<i>Dry running, Twin Screw, Horizontal</i>
STAGES	1
ROTATION SPEED	3600 rpm
NOMINAL PUMP CAPACITY	110 ACFM (190 m ³ /hr)
ULTIMATE VACUUM	< 0.2 torr (0.27 mbar)
INLET CONNECTION SIZE	ANSI 2" 150# Raised Face
OUTLET CONNECTION SIZE	ANSI 1 1/2" 150# Raised Face
PUMP INTERNAL PRESSURE RATING	100 psig (6.9 bar)
MATERIALS OF CONSTRUCTION	
<i>Stator</i>	<i>Ductile Iron, PTFE coated</i>
<i>Rotors</i>	<i>Ductile Iron, PTFE coated</i>
BEARING TYPE AND LUBRICATION	
<i>High Vacuum End</i>	<i>Roller, Vacuum grease packed</i>
<i>Low Vacuum End</i>	<i>Double Ball, Oil Splash</i>
SHAFT SEAL ARRANGEMENT	
<i>High Vacuum</i>	<i>PTFE Lip seals / Labyrinth</i>
<i>Low Vacuum</i>	<i>PTFE Lip seals / Labyrinth / Gas Purged seal</i>
DRIVE TYPE	<i>Direct drive with integral gear box</i>
WEIGHT	440 Lbs (200 kg), {800 lbs (363 kg) with motor & base}
COOLING WATER ARRANGEMENT	<i>Direct Water Cooled</i>
COOLING WATER	<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>1.0 – 2.0 gpm approx.</i>
<i>Pressure Rating</i>	<i>60 psig (4 bar)</i>
OVER TEMPERATURE SWITCH	<i>Standard Nema 7</i>
<i>Setting</i>	<i>Variable</i>
NOISE LEVEL	<85 dBA
SEAL PURGE TYPE	<i>Air or Nitrogen*</i>
<i>Flow Rate & Pressure</i>	<i>1 scfm @ 6 psig(25 liters/min @ 0.3-0.5 bar gage)</i>
GAS BALLAST TYPE	<i>Air/Nitrogen/Exhaust gas*</i>
<i>Flow Rate & Pressure</i>	<i>1 scfm @ 2 psig (25 liters/min @ 0.14 bar)</i>
INSTALLED POWER (Motor HP)	<i>10 Hp (7.5 KW), TEFC, 460 Volt, 3 phase, 60 Hz</i>
POWER REQUIREMENT AT VACUUM	<i>7.5 Hp (5.6 KW)</i>

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