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| | Data |
| Screw Type DPS50 | |



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 Rev. 0
 subject to change without notice
 supersedes all previous data
 printed in the U.S.A.

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| PUMP MODEL NO. | e-vac™ DPS50 |
| PUMP TYPE | <i>Dry running, Twin Screw, Horizontal</i> |
| STAGES | 1 |
| ROTATION SPEED | 3600 rpm |
| NOMINAL PUMP CAPACITY | 50 ACFM (85 m ³ /hr) |
| ULTIMATE VACUUM | < 0.3 torr (0.4 mbar) |
| INLET CONNECTION SIZE | ANSI 1 1/2" 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 | 330 Lbs (150 kg), {750 lbs (340 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>0.5 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>5 Hp (4 KW), TEFC, 460 Volt, 3 phase, 60 Hz</i> |
| POWER REQUIREMENT AT VACUUM | <i>4 Hp (3 KW)</i> |

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