

Next-Gen Dual Stage Vacuum Pump

9000-2112, 9000-2113, 9000-2114, 9000-2115

Specification Sheet

Description

Our next-generation vacuum pump is a dual-stage molded pump that works with IDEX Health & Science degassing chambers and PCB control systems. This document includes details for both the “analytical scale” and “prep scale” versions of the pump. The analytical scale version is designed for standard degassing chambers and fluids. The prep scale versions are designed to handle high vapor loads from high flow rate chambers or fluids with low vapor pressure that will cause increased solvent pervaporation through the membrane. The pump is available in side and bottom mount versions. The StabiliX™ pump will function with both the lumen and film degassing chambers.

Specifications

Air Flow (no vacuum): 650 SCCM @ 400 RPM; 100 SCCM @ 60 RPM

Wetted Materials: 316 Stainless Steel, Glass-filled PPS, EPDM, PEEK, PTFE, and Borosilicate glass.

Stepper motor driver: unipolar or bipolar, step angle – 1.8°

Motor winding resistance: 4.4 ohm

Motor max rated current: 1A

Normal operating temperature: 1°C to 60°C

Storage Temperature: -29°C to 60°C

Relative Humidity, Non-Condensing (%): 15% to 85%

Product conforms to ISTA-2A package testing

Analytical Vacuum (Standard Solvent Load) Pump Technical Data

Typical Vacuum Performance: 50 mmHg @ (60±20) RPM (3 SCCM air flow, closed loop)

Pump head continuous purge air flow rate: ~12 SCCM



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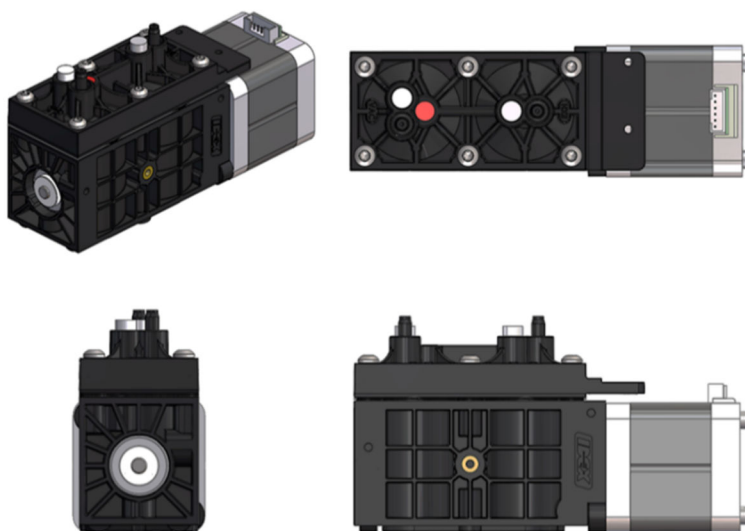
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Prep Vacuum (High Solvent Load) Pump Technical Data

Typical Vacuum Performance: 80 mmHg @ (80±20) RPM (3 SCCM air flow, closed loop)

Pump Head Continuous Purge Air Flow Rate: ~30 SCCM

Product View



Degassing Vacuum Pump

Part Number	Description	Mounting	Scale
9000-2112	ASSY,BTM,ANALYTICAL, NXT GEN	Bottom	Analytical
9000-2113	ASSY,SIDE,ANALYTICAL, NXT GEN	Side	Analytical
9000-2114	ASSY,BTM,PREP, NXT GEN	Bottom	Prep
9000-2115	ASSY,SIDE,PREP, NXT GEN	Side	Prep

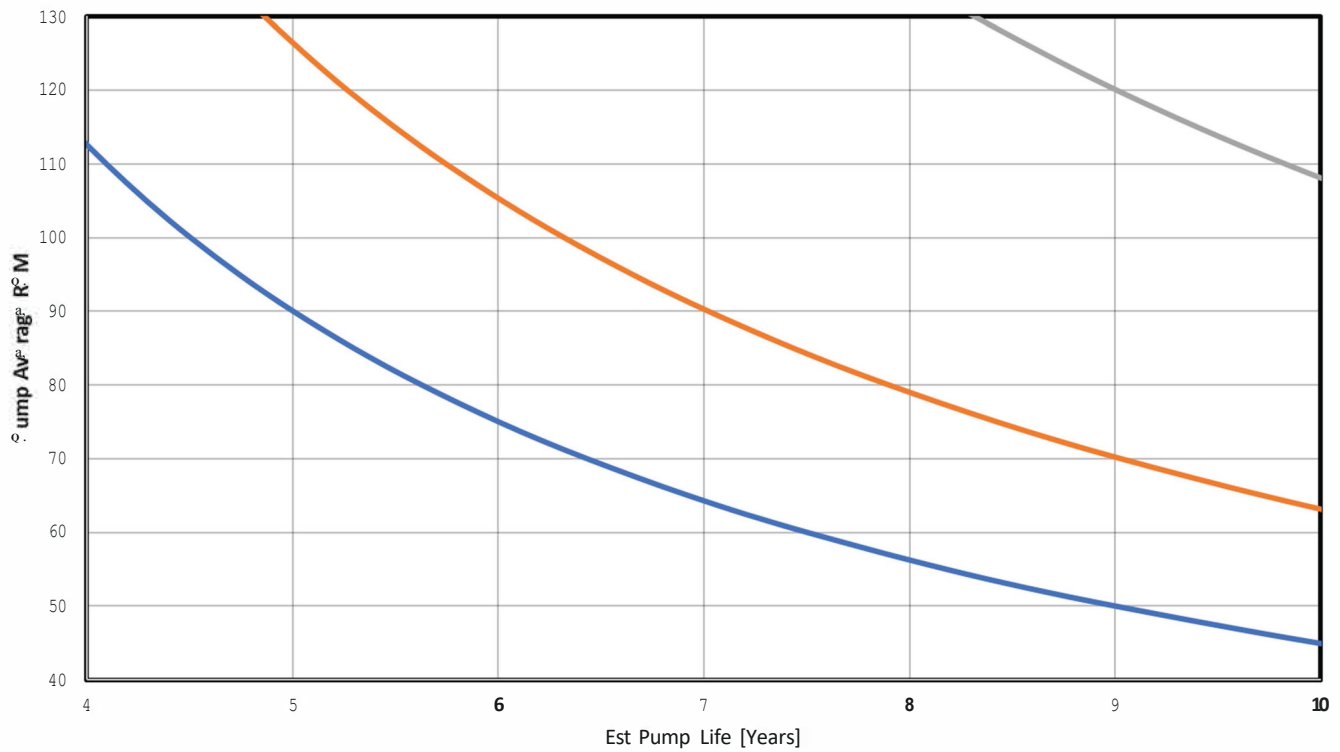


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95% CI/ B3 Weibull Estimation of Pump Life Based on Average RPM

- 2.4 / 7 Operation [365 days] - 2.4 / 5 Operation [260 days] - 1.0 / 7 Operation [365 days]



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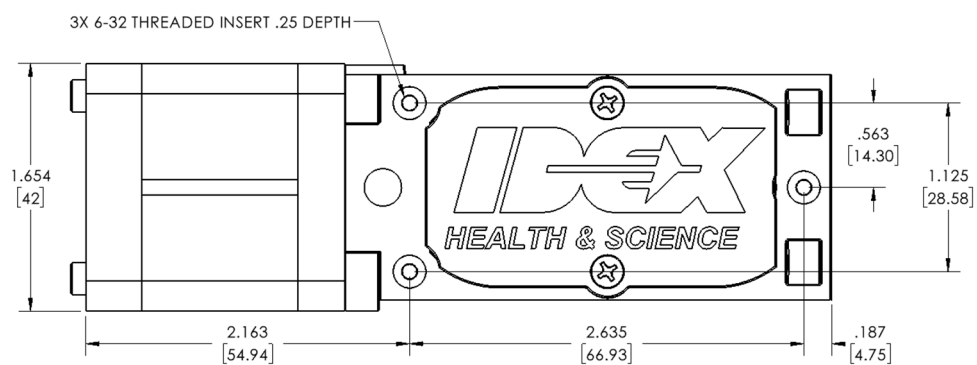
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Dimensional Drawing:

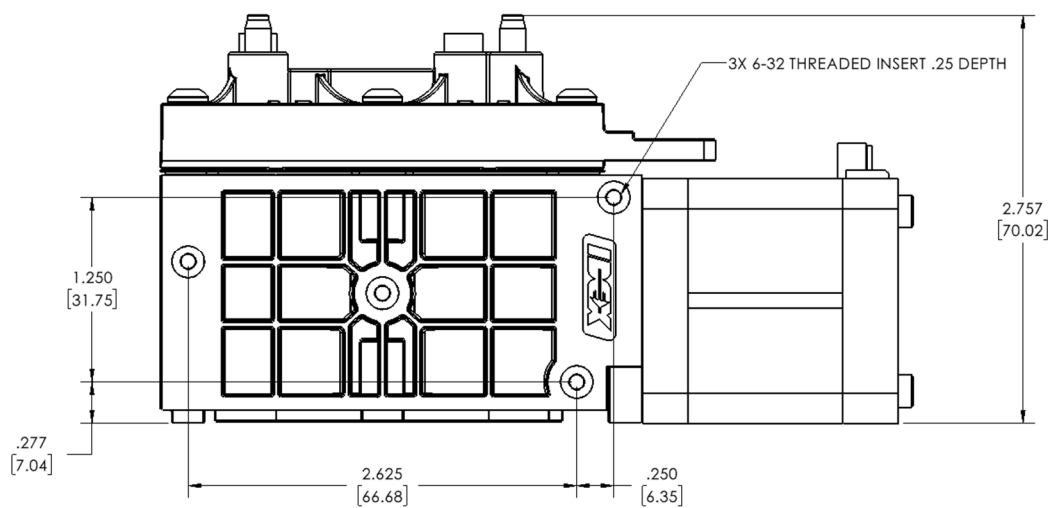
Dimensions are in inches [millimeters]

For reference only

Bottom Mount



Side Mount



Regulatory Compliance:

Next-Gen vacuum pumps are compliant with current RoHS & REACH regulations.

Revision Notes:

Rev B



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