

EV-5

Rotary Vane Vacuum Pump

A rotary vane pump is a positive-displacement pump that consists of vanes mounted to a rotor that rotates inside a cavity. In some cases these vanes can have variable length and/or be tensioned to maintain contact with the walls as the pump rotates. It can endure short periods of dry operation, and are considered good for low-viscosity fluids.

LAB1ST EV-series rotary vane vacuum pumps are designed for reliable long time continuous operation. It has a balance between low cost and high performance.

Features

Light weight, low cost, compact design, low noise

Check valve to prevent oil back-flow

up to 20CFM [60Hz], 8L per second

Internal oil cycling system

Gas-ballast valve to fill the exhaust space



Parameters

Model	EV-5
———— TECHNICAL DATA ————	
Vacuum Speed [L/s]	2
Ultimate Vacuum without Gas Ballast [pa]	$\leq 6 \times 10^{-2}$
Ultimate Vacuum with Gas Ballast [pa]	≤ 1.33
Ambient Temperature [°C]	8-40
Upgradeable	GB Explosion-proof IP55
———— ELECTRICAL REQUIREMENTS ————	
Voltage	110/220V
Phase	1P
Frequency	50/60HZ
Total Power [W]	370
———— PUMP OIL ————	
Pump Oil Volume	0.8L
Pump Oil Viscosity	Viscosity 68
Pump Oil Temperature [°C]	≤ 45
———— MOTOR ————	
Motor Rotating Speed [rpm]	1400
———— INTERFACE ————	
Intake Interface	KF25
Exhaust Interface	KF25
———— WEIGHT DIMENSION ————	

Unit Weight [Kg]	20
Unit Dimension [mm]	480×150×250

Packages

W (mm)

CBM (m3)

D (mm)

Weight (kg)

H (mm)

* Technical details and dimensions are subject to change. No liability is accepted for errors or omissions. Illustrations can deviate from the original.