

EV-10

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-10
—— TECHNICAL DATA ——	
Vacuum Speed [L/s]	4
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]	550
—— PUMP OIL ——	
Pump Oil Volume	1.0L
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]	23
Unit Dimension [mm]	520×150×250

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.