

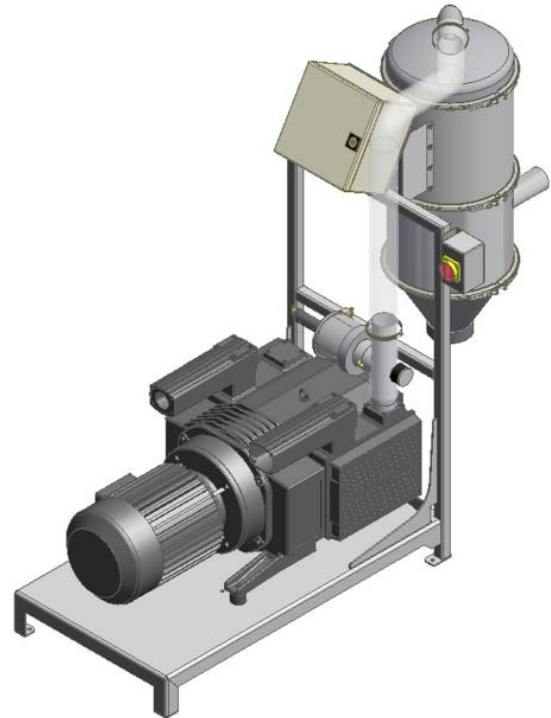
Application

The Rotary Vane Vacuum Blower is part of Coperion K-Tron's wide range of blower packages used for pneumatically conveying pellets, powders, and granular materials. The rotary vane vacuum blower package is ideal for applications where material is being conveyed short distances with high solids to air ratios. Rotary vane blower packages range from 38 mm (1.5 in) through 76 mm (3 in) conveying systems. The Coperion K-Tron Rotary Vane Vacuum Blower is designed to operate on a continuous basis at any point from atmospheric pressure to a max. vacuum level of 834 mbar(g) [25 in Hg], depending on the model.

Selecting the right blower to operate at the correct speed is critical for maximum efficiency of any pneumatic conveying system. Before selecting a blower package, Coperion K-Tron system designers carefully calculate the required performance of the blower and how it will respond to a specific application.

Design

The rotary vane vacuum blower package incorporates an industry-proven positive displacement blower (rotary vane type). Depending on the application, rotary vane vacuum blower motors are matched to the requirement of the application.



*Rotary Vane Vacuum Blower
shown with optional
in-line static filter*

Technical Data

Standard Mechanical Specifications

- Complete mounted and prewired
- Heavy-duty blower base
- Oil-less dry operation
- Quiet and cool operation
- Vibration mounting pads
- Long-life, self-lubricating graphite composite vane
- Discharge silencer
- Direct drive motor (no belts or gears)
- Air actuated vacuum breaker valve
- Spring-loaded vacuum relief valve
- Low maintenance
- Operates on a continuous basis
- OSHA and CE compliant

Hazardous Location Options:

- NEC Class I, Div. 1, Groups G & D
Class II, Div. 2, Groups E, F & G
- ATEX versions available upon request

Standard Electrical Specifications

- EMEA/Asia: 3 phase IEC motor - IE2 level efficiency, with IP55 protection
- Americas: 3 phase NEMA motor - high efficiency, EPACT, TEFC with IP54 protection

Part No. Metric [General]	kW @ 50 Hz	kW @ 60 Hz	HP @ 60 Hz	Max Air Flow 50 Hz / 60 Hz	Voltage Δ/Y 50Hz [60Hz]	Weight kg [lb]
5158-320CE [5158-320AM]	4	4.8	6.4	129 / 154 m³/h [76 / 91 CFM]	230/400 V ± 10% [230/460 V ± 10%]	222 [462]
5158-321CE [5158-321AM]	5.5 [7.5]	6.6 [9.0]	8.9 [12.1]	244 / 286 m³/h [145 / 174 CFM]	230/400 V ± 10% [230/460 V ± 10%]	470 [1008]

Options

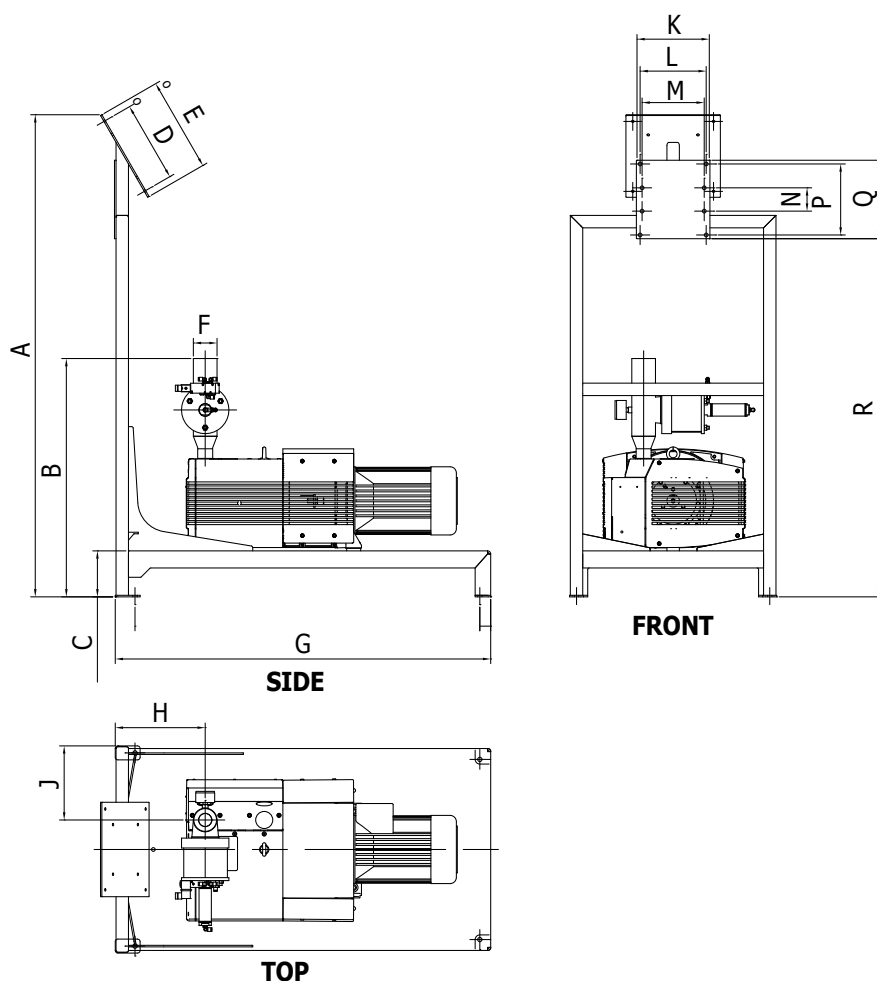
Mechanical

- Motors for explosion-proof applications or special voltage requirements
- Blower enclosures
- Special options available to custom tailor our blower packages to your specific application
- Application-specific filters
-

Electrical

- For CSA or UL certified solenoid contact factory

Dimensions of Rotary Vane Vacuum Blower mm [in]



Part No. Metric [General]	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
5158-320CE [5158-320AM]	1552 [61.10]	767 [30.20]	148 [5.82]	260 [10.23]	304 [11.96]	3 [76.2]	1209 [47.57]	290 [11.39]	239 [9.39]	237 [9.31]	213 [8.37]	200 [7.87]	75 [2.95]	229 [9]	253 [9.94]	1153 [45.39]
5158-321CE [5158-321AM]	1552 [61.10]	893 [35.14]	148 [5.82]	260 [10.23]	304 [11.96]	3 [76.2]	1206 [47.48]	167 [6.57]	120 [4.70]	237 [9.31]	213 [8.37]	200 [7.87]	75 [2.95]	229 [9]	253 [9.94]	1153 [45.39]

Caution: Measurements are for general reference only. Please consult dimensional drawing for exact measurements.