

Application

The Coperion K-Tron P-Series jet filter is used to filter powders for hygienic applications that require a high amount of sanitary design. P-Series jet filters are used for venting vessels containing dry bulk materials, including loss-in-weight feeder hoppers. The sanitary design is perfect for the food and pharmaceutical industries. Fine airborne particles are trapped in the unit's filter media, enabling clean air to pass from the hopper into the atmosphere. Timed bursts of air from a compressed air reservoir pulse the filters, dislodging any fines and returning them to the hopper.

Design

The P-Series jet filter body is constructed of stainless steel DIN 1.4404 [AISI 316L], with electropolished surface finish. The modular design allows for easy disassembly and cleaning. The unit includes large area automatic reverse jet pulse-cleaned cartridge filters with stainless steel end caps. The P-Series jet filter comes with tri-clover quick release fittings.

Mechanical Features

- Sanitary design for easy cleaning
- Rugged modular design
- Large area reverse jet pulse-cleaned cartridge filters

Technical Data

Standard Mechanical Specifications

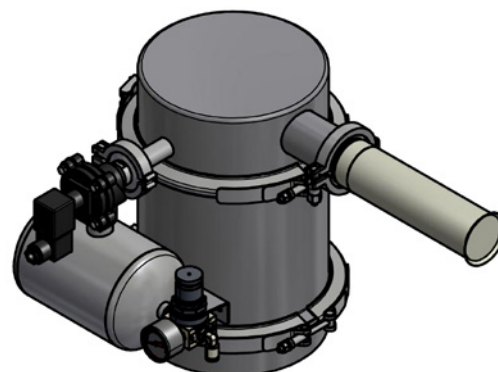
- Stainless steel DIN 1.4404 [AISI 316L] for material contact parts
- Surface finish electropolished
- Welds continuous as laid
- Stainless steel band clamps
- Sealing and gaskets, FDA listed food grade materials:
 - Clamp ring: silicone, translucent
 - Tri-clamp: white silicone, FDA approved
- 100% spunbond polyester pleated cartridge
- Material certificate EN 10204-2.1

Standard Electrical Specifications

- Signal voltage 24 VDC

Operating Temperature

- -10° C to +50° C [14° F to 122° F]
for indoor use only - not suitable for outdoor use



Options

Mechanical

- PTFE coated filter media
- Open pleated filter type for PTFE execution
- Filter basket with GORE-TEX® cloth
- Stainless steel enclosure for solenoids and pressure regulators supplied loose
- Material certificates type EN10204- 2.2 and EN 10204-3.1
- Optional Weld flange to client's hopper

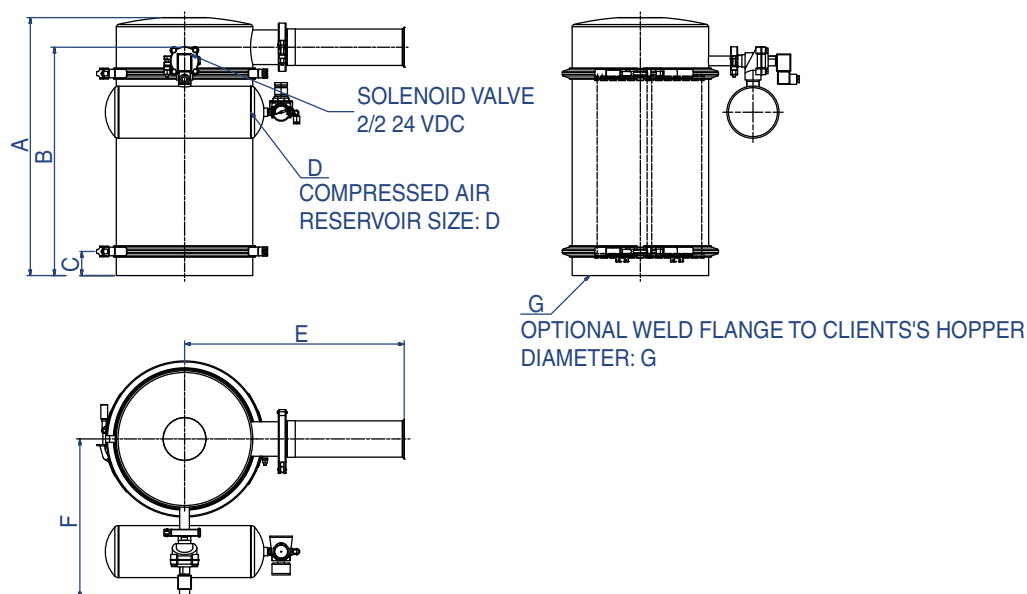
Hazardous Locations

- NEC Contact factory
- ATEX 3D / 1D (outside/inside)
EU-Type Examination Certificate SEV 17 ATEX 0149 X

Model Size:	P10-200L	P30-200L	P30-400L	P100-400L
Diameter Access Port for Filter Cartridge Removal and Replacement	200 mm [7.9 in]	300 mm [11.8 in]	300 mm [11.8 in]	450 mm [17.7 in]
Vacuum Line Connection; Spigots with Tri-clamps	50.8 mm [2 in]	76.2 mm [3 in]	76.2 mm [3 in]	76.2 mm [3 in]
Polyester Pleated Cartridge Filters with Stainless Steel End Caps	1 filter, total 0.25 m ² [2.7 ft ²]; length 200 mm [7.9 in]	3 filters, total 0.75 m ² [8.07 ft ²]; length 200 mm [7.9 in]	3 filters, total 1.5 m ² [16.15 ft ²]; length 400 mm [15.7 in]	6 filters, total 3 m ² [32.3 ft ²]; length 400 mm [15.7 in]
Automatic Reverse Jet Filter	2 dm ³ [0.07 ft ³] SST air reservoir; 4 bar(g) max [60 psi(g)]	3 dm ³ [0.1 ft ³] SST air reservoir; 4 bar(g) max [60 psi(g)]	3 dm ³ [0.1 ft ³] SST air reservoir; 4 bar(g) max [60 psi(g)]	4 dm ³ [0.14 ft ³] SST air reservoir; 4 bar(g) max [60 psi(g)]
Max. Air Flow Rates for Polyester Filter Media	2.4 m ³ /min [85 ft ³ /min]	7.2 m ³ /min [254 ft ³ /min]	14.4 m ³ /min [509 ft ³ /min]	28.8 m ³ /min [1017 ft ³ /min]
Max. Air Flow Rates for PTFE Filter Media	1.05 m ³ /min [37 ft ³ /min]	3.15 m ³ /min [111 ft ³ /min]	6.3 m ³ /min [222 ft ³ /min]	12.6 m ³ /min [445 ft ³ /min]
Weight	7.5 kg [16.5 lb]	12.7 kg [28 lb]	15.08 kg [34.8 lb]	25.2 kg [55.6 lb]

NOTE: 200L & 400L refer to filter

Dimensions mm [in]



Model	A	B	C	D	E	F	G
P10-200L	327 [12.9]	290 [11.4]	53 [2.1]	1.5 dm ³	373 [14.7]	299 [11.8]	200 [7.9]
P30-200L	367 [22.3]	302 [19.8]	53 [2.1]	3 dm ³	483 [19.0]	349 [13.8]	300 [11.8]
P30-400L	567 [22.3]	502 [19.8]	53 [2.1]	3 dm ³	483 [19.0]	349 [13.8]	300 [11.8]
P100-400L	577 [22.7]	502 [19.8]	53 [2.1]	6 dm ³	557 [22.0]	424 [16.7]	450 [17.7]

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