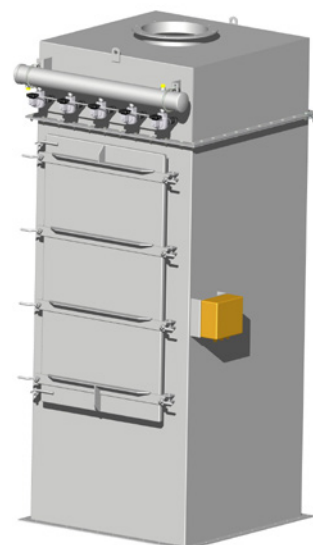


Application

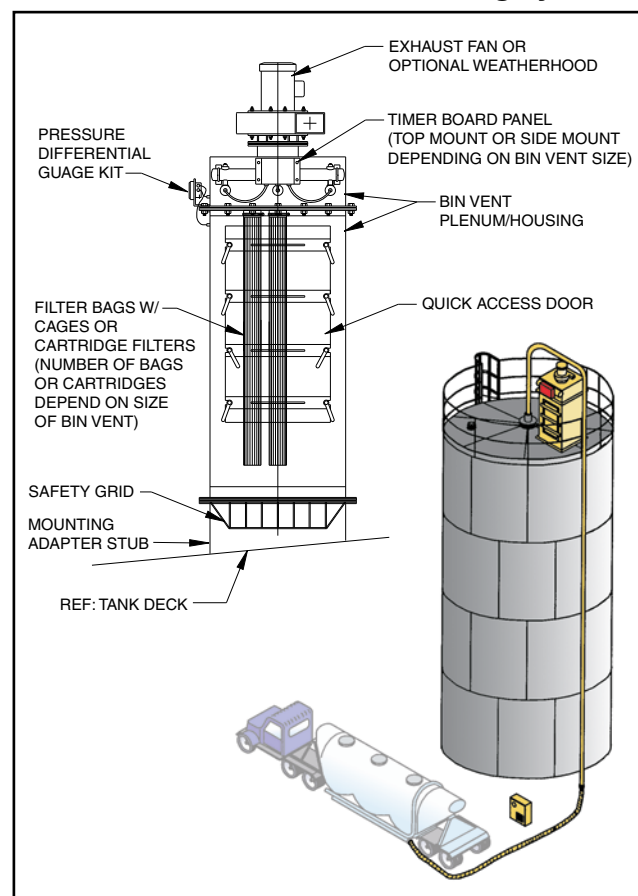
Mounted on top of a storage tank, the Automatic Bin Vent filters the exhaust air and avoids pressure build up in the tank. When material is pneumatically conveyed into the storage tank most of the material drops out of suspension and the dust laden excess air is vented through the filter, where airborne dust particles are trapped by the filter bags or cartridges. Sequentially timed bursts of compressed air, controlled by solenoid valves, pulse the bags or cartridges and dislodge the dust particles to clean the filters. The product remains in the storage tank and clean air exhausts through the tank vent out to the atmosphere.

Design

Standard material of construction is carbon steel with enamel coating. The unit's filter element is cleaned by reverse jet cleaning from a compressed air accumulator. The air is directed through venturis, inducing a greater volume of air to clean the filter element for more complete dust particle dislodging. Only a single row of the filter element is pulsed at a time, leaving the remaining filter element on-line. The interval between pulsing is adjustable to ensure optimal filter element cleaning. The bin vent's filter element is easily accessed for service through the quick access door. The air pulse cleaning of the filter element is regulated by the timer control panel. The timer allows easy adjustment of the frequency and duration of each pulse and a display shows which element row is currently being cleaned. All solenoids for pulse cleaning are located on the diaphragm valves. Each bin vent is equipped with a pressure differential indicator. The gauge measures the difference in pressure between the filter element housing and the clean air plenum, informing the operator of the effectiveness of the filter cleaning system.



Example of an Automatic Bin Vent installation in a PD truck unloading system



Technical Data

Standard Features

- Carbon steel construction, outside surfaces painted RAL 7035 gray
- Cleaning timer control panel with IP65, NEMA 4 enclosure and 24 VDC operation
- 454 g [16 oz] polyester felt filter bags (includes cages) or 100% spunbond polyester cartridge filters
- Pressure differential indicator
- No-tool access door
- CE compliant

Options

Mechanical Options

- 1.4301 (AISI 304) or 1.4404 (AISI 316) stainless steel construction
- Weather hood
- Exhaust fan with dampener and screen
- Safety grid
- Ladder
- Hopper and flanged adapter stubs
- Support stand and service platform
- PTFE exterior membrane-coated cartridges or filter bags
- Oversized accumulator
- Bags and cartridges with grounding strap

Hazardous Location Options

- Explosion-proof NEMA 7 or 9 construction
- Explosion venting or suppression
- NEC Class 1, Div. 1, Groups C & D
- ATEX versions available

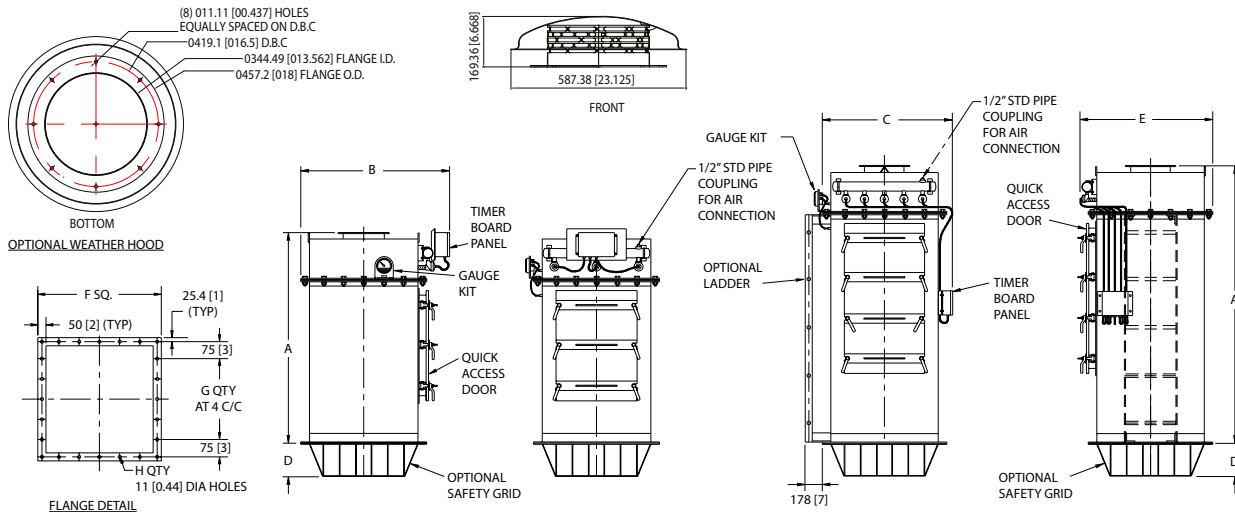
Coperion K-Tron Product Specification

Automatic Bin Vent

Automatic Bin Vent

CLOTH AREA W/ BAGS & CAGES M² [FT²]	CLOTH AREA W/ CARTRIDGE FILTERS M² [FT²]	NO. OF BAGS OR CARTRIDGES	BAG OR CARTRIDGE LENGTH	CAN AREA AT MOST RESTRICTED M² [FT²]	DOOR SIZE W x H	PLANT AIR REQ'D M³/MIN [FT³/MIN]	MAX OPERATING PRESSURE mBAR [PSIG]	MAX OPERATING VACUUM mBAR [PSIG]
2 [17]	7 [84]	9	457 [18]	0.2 [2.2]	584 x 330 [23 x 13]	0.11 [4.0]	41.4 [0.6]	74.6 [1.08]
4 [38]	19 [210]	9	914 [36]	0.2 [2.2]	584 x 787 [23 x 31]	0.12 [4.2]	41.4 [0.6]	49.8 [0.72]
6 [65]	32 [351]	9	1,473 [58]	0.2 [2.2]	584 x 1245 [23 x 49]	0.13 [4.5]	41.4 [0.6]	44.8 [0.65]
8 [90]	—	9	2,133 [84]	0.2 [2.2]	584 x 1447 [23 x 57]	0.14 [5.0]	41.4 [0.6]	44.8 [0.65]
—	34 [373]	16	914 [36]	0.4 [3.9]	584 x 787 [23 x 31]	0.16 [5.8]	34.5 [0.5]	32.3 [0.47]
11 [117]	57 [624]	16	1,473 [58]	0.4 [3.9]	584 x 1245 [23 x 49]	0.16 [5.8]	27.6 [0.4]	27.4 [0.40]
15 [160]	—	16	2,133 [84]	0.4 [3.9]	584 x 1447 [23 x 57]	0.18 [6.2]	27.6 [0.4]	27.4 [0.40]
—	54 [583]	25	914 [36]	0.6 [6.2]	787 x 787 [31 x 31]	0.19 [6.7]	27.6 [0.4]	27.4 [0.40]
17 [183]	90 [975]	25	1,473 [58]	0.6 [6.2]	787 x 1245 [31 x 49]	0.19 [6.7]	27.6 [0.4]	27.4 [0.40]
23 [250]	—	25	2,133 [84]	0.6 [6.2]	787 x 1447 [31 x 57]	0.20 [7.0]	27.6 [0.4]	27.4 [0.40]
28 [304]	—	25	2,540 [100]	0.6 [6.2]	787 x 1447 [31 x 57]	0.21 [7.5]	27.6 [0.4]	27.4 [0.40]
—	77 [839]	36	914 [36]	0.8 [8.8]	990 x 787 [39 x 31]	0.23 [8.0]	20.7 [0.3]	19.9 [0.29]
24 [263]	129 [1404]	36	1,473 [58]	0.8 [8.8]	990 x 1245 [39 x 49]	0.23 [8.0]	20.7 [0.3]	19.9 [0.29]
33 [360]	—	36	2,133 [84]	0.8 [8.8]	990 x 1447 [39 x 57]	0.24 [8.5]	20.7 [0.3]	19.9 [0.29]
40 [437]	—	36	2,540 [100]	0.8 [8.8]	990 x 1447 [39 x 57]	0.26 [9.0]	20.7 [0.3]	19.9 [0.29]

Dimensions of Automatic Bin Vent mm [in]



NO. OF BAGS OR CARTRIDGES	BAG OR CARTRIDGE LENGTH	A	B	C	D	E	F	G	H
9	457 [18]	975 [38.38]	991 [39]	*	222 [8.75]	*	711 [28]	5	28
9	914 [36]	1432 [56.38]	991 [39]	*	222 [8.75]	*	711 [28]	5	28
9	1,473 [58]	1965 [77.38]	*	838 [33]	222 [8.75]	876 [34.5]	711 [28]	5	28
9	2,133 [84]	2651 [104.38]	*	838 [33]	222 [8.75]	876 [34.5]	711 [28]	5	28
16	914 [36]	1432 [56.38]	1188 [46.79]	*	216 [8.5]	*	914 [36]	7	36
16	1,473 [58]	1965 [77.38]	*	1041 [41]	216 [8.5]	1080 [42.5]	914 [36]	7	36
16	2,133 [84]	2651 [104.38]	*	1041 [41]	216 [8.5]	1080 [42.5]	914 [36]	7	36
25	914 [36]	1432 [56.38]	1397 [55]	*	197 [7.75]	*	1118 [44]	9	44
25	1,473 [58]	1965 [77.38]	*	1245 [49]	197 [7.75]	1283 [50.5]	1118 [44]	9	44
25	2,133 [84]	2651 [104.38]	*	1245 [49]	197 [7.75]	1283 [50.5]	1118 [44]	9	44
25	2,540 [100]	3058 [120.38]	*	1245 [49]	197 [7.75]	1283 [50.5]	1118 [44]	9	44
36	914 [36]	1432 [56.38]	1600 [63]	*	197 [7.75]	*	1321 [52]	11	52
36	1,473 [58]	1965 [77.38]	*	1448 [57]	197 [7.75]	1486 [58.5]	1321 [52]	11	52
36	2,133 [84]	2651 [104.38]	*	1448 [57]	197 [7.75]	1486 [58.5]	1321 [52]	11	52
36	2,540 [100]	3058 [120.38]	*	1448 [57]	197 [7.75]	1486 [58.5]	1321 [52]	11	52

* Dimension not applicable (Ladder made only for 1525, 2185 and 2590 mm [60, 86 and 102 in] bag housing.)

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



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