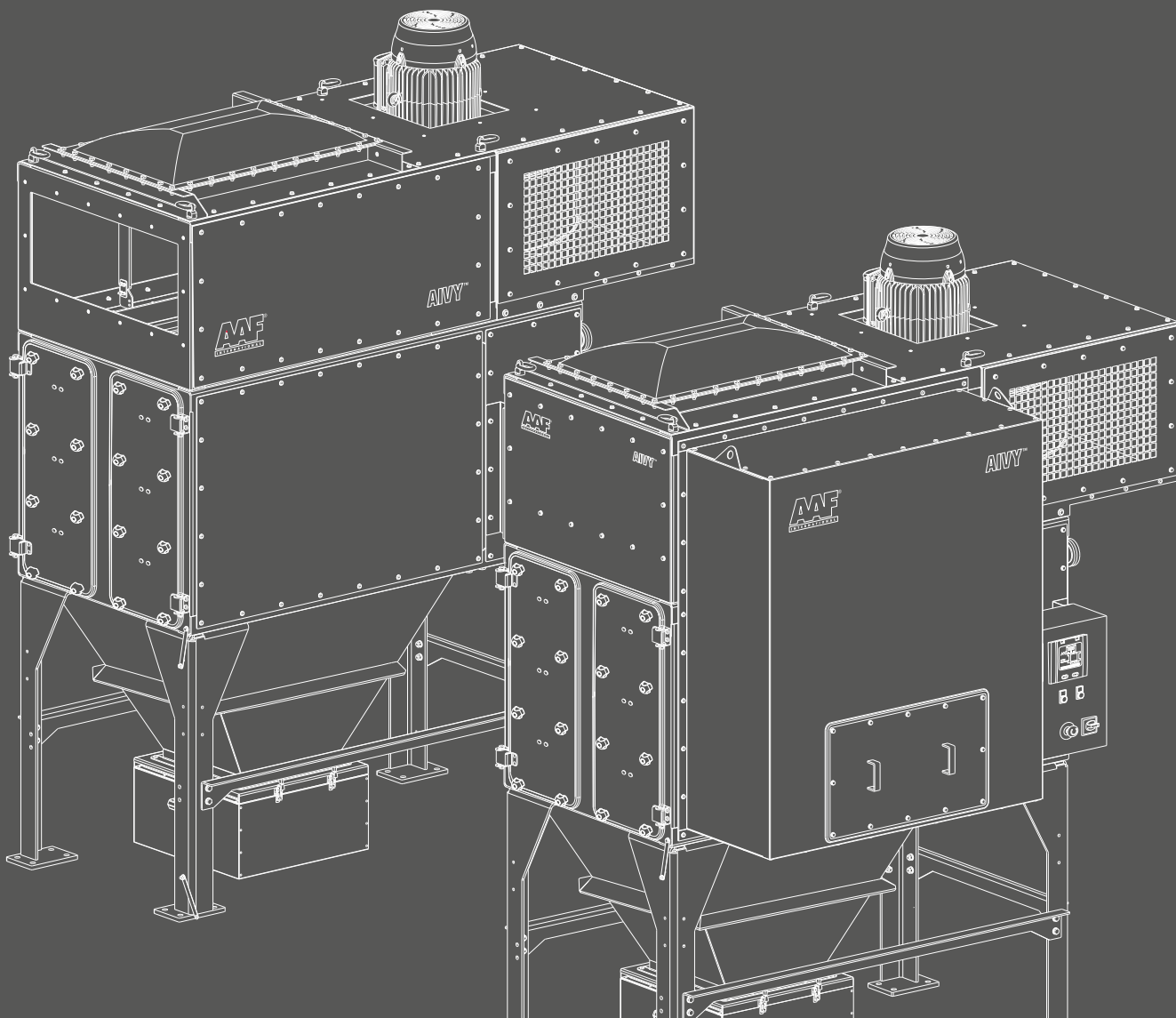


AIVY Compact™

AIVY Compact SPK™

Datasheet



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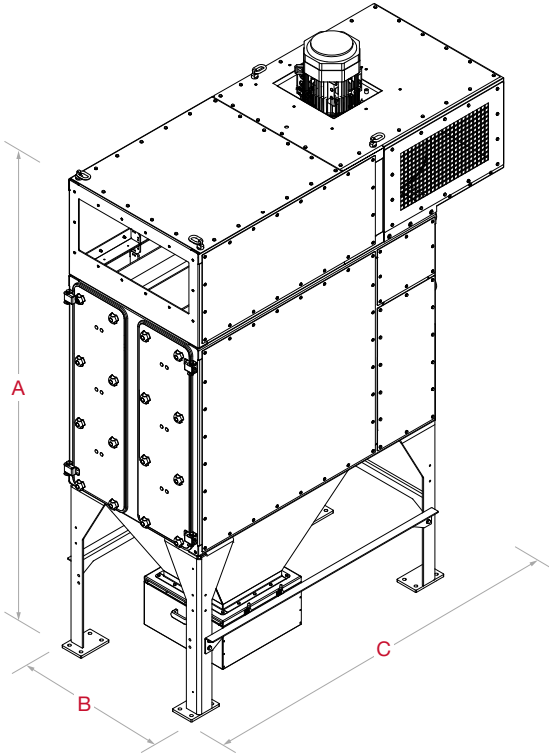
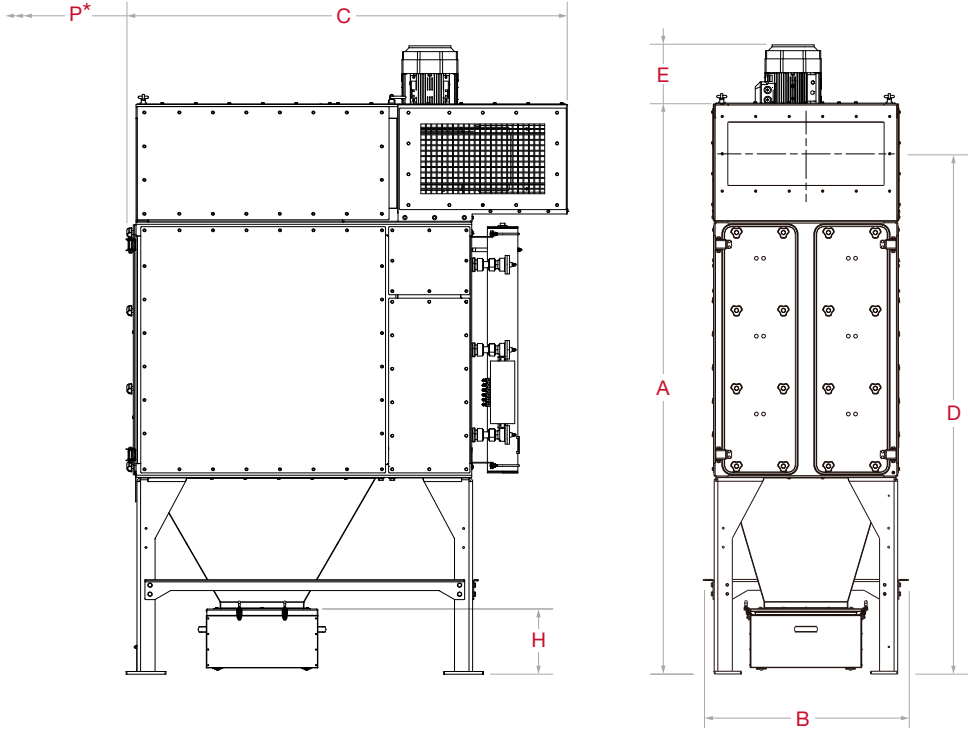


Illustration model:
AIVY Compact™ 3RC12

Characteristics	2RC4	3RC6	Model 2RC8	3RC12	4RC16
No. of cartridges	4	6	8	12	16
Filtering surface (ft²)	861	1292	1722	2583	3444

Dimensions		2RC4	3RC6	Model 2RC8	3RC12	4RC16
Height (in)	A	94	112 1/2	105 1/2	124	142 1/2
Width (in)	B	45 1/2	45 1/2	45 1/2	45 1/2	45 1/2
Length (in)	C	68 13/16	68 13/16	97 3/16	97 3/16	97 3/16
Inlet height (in)	D	83 7/16	101 15/16	94 15/16	113 7/16	131 15/16
Height hopper-floor (in)	H*	14 3/16	14 3/16	14 3/16	14 3/16	14 3/16
Maintenance distance (in)	P*	32 11/16	32 11/16	32 11/16	32 11/16	32 11/16

Fan	Mod. 0	5 hp	-	-	-	-
	Mod. 1	5 hp	3 5/16	3 5/16	3 5/16	3 5/16
	Mod. 2	7.5 hp	5 1/2	5 1/2	5 1/2	5 1/2
	Mod. 3	10 hp	7 5/8	7 5/8	7 5/8	7 5/8
	Mod. 4	10 hp	E (in)	6 9/16	6 9/16	6 9/16
	Mod. 5	15 hp		13 5/8	13 5/8	13 5/8
	Mod. 9	20 hp	-	-	12 1/8	12 1/8
	Mod. 10	20 hp	-	-	14 15/16	14 15/16
	Mod. 11	25 hp	-	-	14 15/16	14 15/16
	Mod. 12	25 hp	-	-	15 13/16	15 13/16

Weight		2RC4	3RC6	Model 2RC8	3RC12	4RC16
Weight (lbs)*	(H = 14 3/16)	1470	1746	1949	2319	2718
Weight (lbs)*	(H = 48 1/16)	1517	1792	2090	2460	2859
Weight (lbs)*	(H = 77 9/16)	1724	2000	2224	2595	2994

- * P: Minimum maintenance distance. If space limitations exist, consult with AAF International.
- * Weight of the unit without the fan. To find out the weight of the fans, refer to the information provided on page 14.
- * The total height of the unit (A) is calculated based on a discharge height (H) of 14 3/16 in. Three additional discharge heights measuring 48 1/16 in and 77 9/16 mm are available.

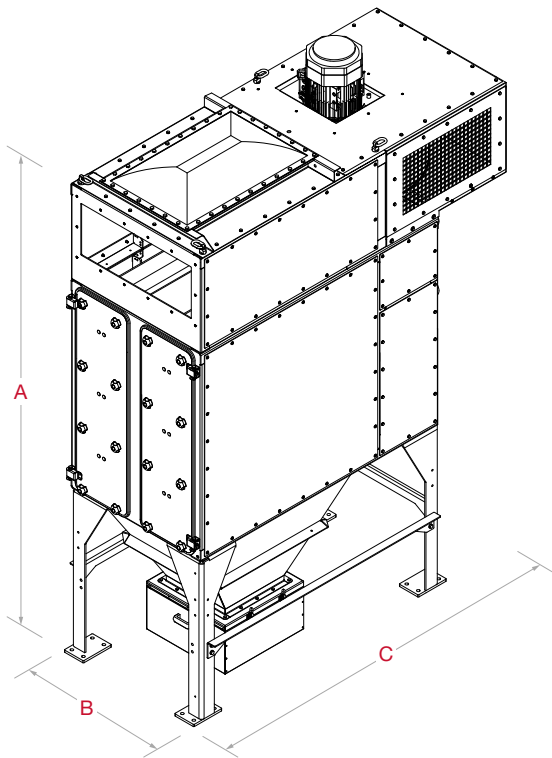
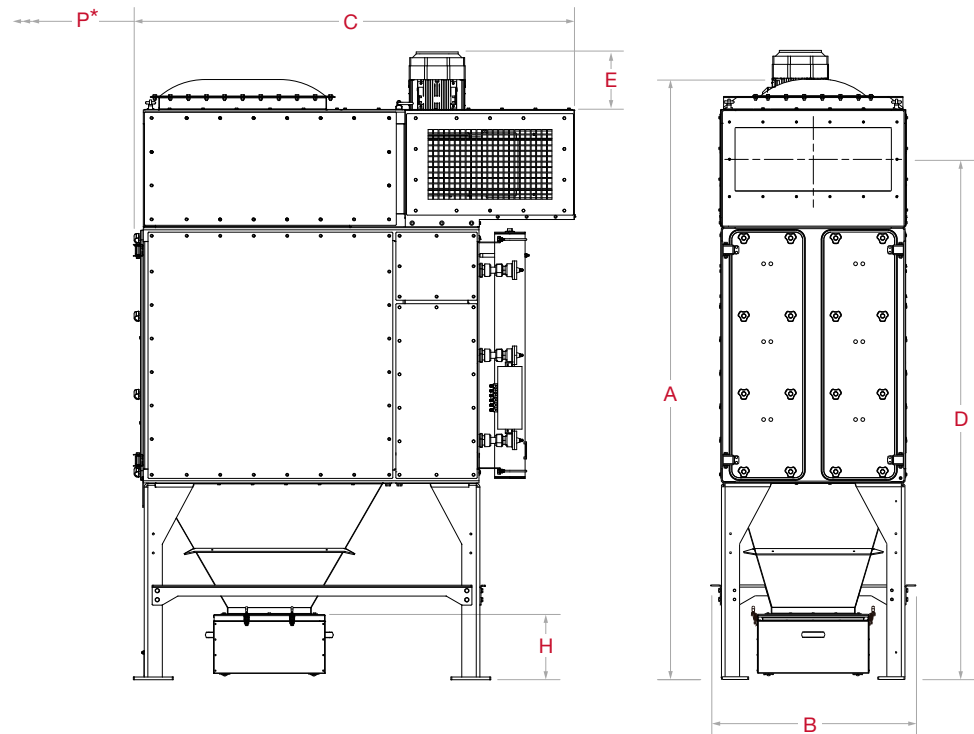


Illustration model:
AIVY Compact™ 3RC12 EX*

*In accordance with NFPA 654 & 68

Characteristics	2RC4	3RC6	Model 2RC8	3RC12	4RC16
No. of cartridges	4	6	8	12	16
Filtering surface (ft²)	861	1292	1722	2583	3444

Dimensions		2RC4	3RC6	Model 2RC8	3RC12	4RC16
Height (in)	A	98 7/8	117 3/8	112	130 1/2	149
Width (in)	B	45 1/2	45 1/2	45 1/2	45 1/2	45 1/2
Length (in)	C	68 13/16	68 13/16	97 3/16	97 3/16	97 3/16
Inlet height (in)	D	83 7/16	101 15/16	94 15/16	113 7/16	131 15/16
Height hopper-floor (in)	H*	14 3/16	14 3/16	14 3/16	14 3/16	14 3/16
Maintenance distance (in)	P*	32 11/16	32 11/16	32 11/16	32 11/16	32 11/16

Fan	Mod. 0	5 hp	-	-	-	-	-
	Mod. 1	5 hp	-	-	-	-	-
	Mod. 2	7.5 hp	11/16	11/16	11/16	11/16	11/16
	Mod. 3	10 hp	2 13/16	2 13/16	1 1/8	1 1/8	1 1/8
	Mod. 4	10 hp	1/16	1/16	1/16	1/16	1/16
	Mod. 58	15 hp	(in)	-	7 13/16	7 13/16	7 13/16
	Mod. 9	20 hp	-	-	-	5 5/8	5 5/8
	Mod. 10	20 hp	-	-	-	8 7/16	8 7/16
	Mod. 11	25 hp	-	-	-	8 7/16	8 7/16
	Mod. 12	25 hp	-	-	-	9 5/16	9 5/16

Weight		2RC4	3RC6	Model 2RC8	3RC12	4RC16
Weight (lbs)*	(H = 14 3/16)	1495	1775	1967	2339	2740
Weight (lbs)*	(H = 48 1/16)	1541	1821	2108	2480	2881
Weight (lbs)*	(H = 77 9/16)	1748	2028	2242	2615	3016

- * P: Minimum maintenance distance. If space limitations exist, consult with AAF International.
- * Weight of the unit without the fan. To find out the weight of the fans, refer to the information provided on page 14.
- * The total height of the unit (A) is calculated based on a discharge height (H) of 14 3/16 in. Three additional discharge heights measuring 48 1/16 in and 77 9/16 mm are available.

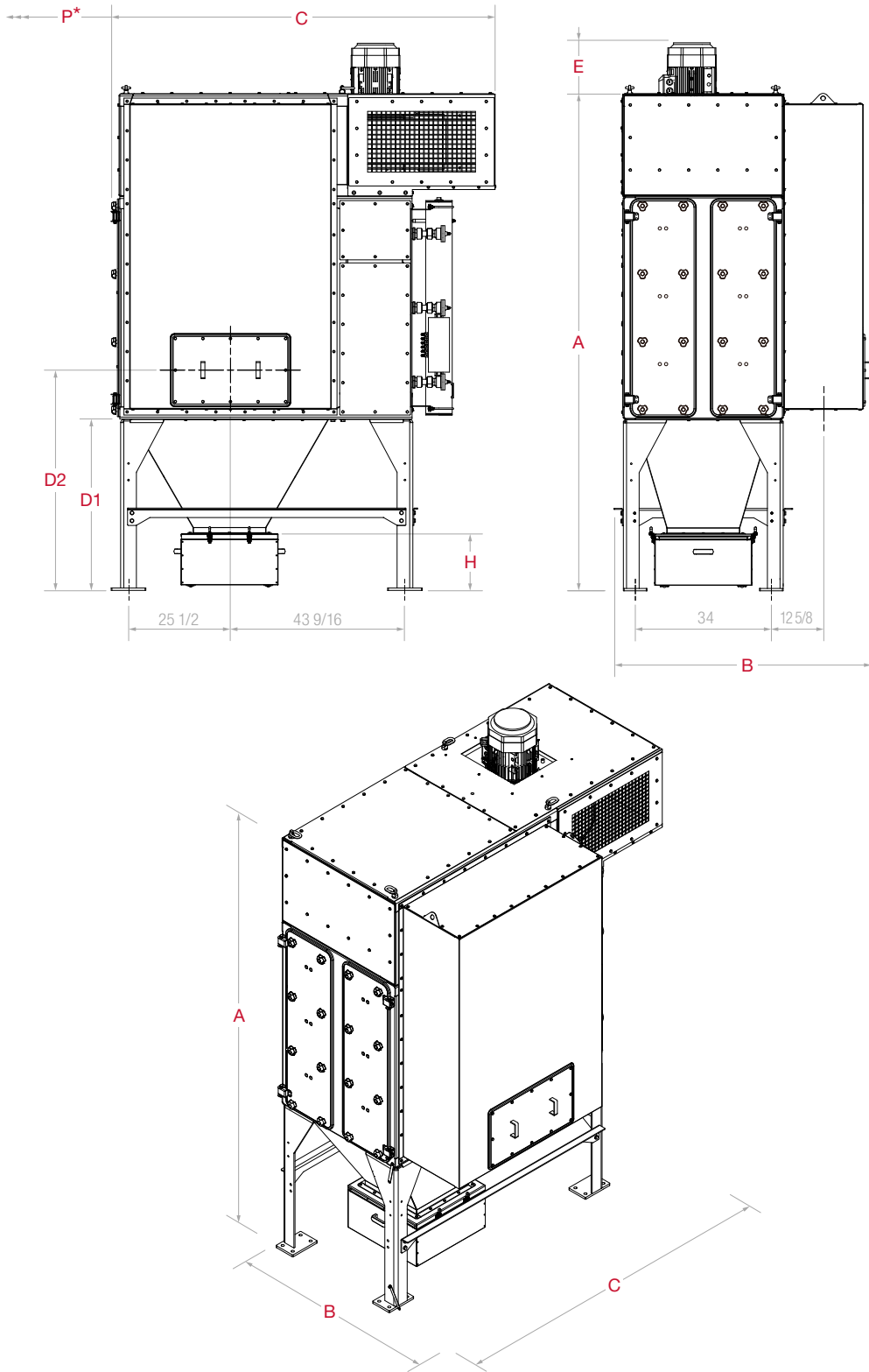


Illustration model:
AIVY Compact SPK™ 3RC12

Characteristics	2RC4	3RC6	Model 2RC8	3RC12	4RC16
No. of cartridges	4	6	8	12	16
Filtering surface (ft²)	861	1292	1722	2583	3444

Dimensions		2RC4	3RC6	Model 2RC8	3RC12	4RC16
Height (in)	A	94	112 1/2	105 1/2	124	142 1/2
Width (in)	B	64 5/8	64 5/8	64 5/8	64 5/8	64 5/8
Length (in)	C	68 13/16	68 13/16	97 3/16	97 3/16	97 3/16
Inlet height (in)	D1	33 3/4	33 3/4	45 1/4	45 1/4	45 1/4
	D2	43 1/16	43 1/16	55	55	55
Height hopper-floor (in)	H*	14 3/16	14 3/16	14 3/16	14 3/16	14 3/16
Maintenance distance (in)	P*	32 11/16	32 11/16	32 11/16	32 11/16	32 11/16

Fan	Mod. 0	5 hp	-	-	-	-
	Mod. 1	5 hp	3 5/16	3 5/16	3 5/16	3 5/16
	Mod. 2	7.5 hp	5 1/2	5 1/2	5 1/2	5 1/2
	Mod. 3	10 hp	7 5/8	7 5/8	7 5/8	7 5/8
	Mod. 4	10 hp	E (in)	6 9/16	6 9/16	6 9/16
	Mod. 5	15 hp		-	-	13 5/8
	Mod. 6	20 hp	-	-	-	12 1/8
	Mod. 7	20 hp	-	-	-	14 15/16
	Mod. 8	20 hp	-	-	-	14 15/16
	Mod. 9	25 hp	-	-	-	14 15/16
	Mod. 10	25 hp	-	-	-	15 13/16
	Mod. 11	25 hp	-	-	-	15 13/16
	Mod. 12	25 hp	-	-	-	15 13/16

Weight		2RC4	3RC6	Model 2RC8	3RC12	4RC16
Weight (lbs)*	(H = 14 3/16)	1625	1949	2191	2639	3120
Weight (lbs)*	(H = 48 1/16)	1671	1995	2332	2780	3261
Weight (lbs)*	(H = 77 9/16)	1878	2202	2467	2915	3395

- * P: Minimum maintenance distance. If space limitations exist, consult with AAF International.
- * Weight of the unit without the fan. To find out the weight of the fans, refer to the information provided on page 14.
- * The total height of the unit (A) is calculated based on a discharge height (H) of 14 3/16 in. Three additional discharge heights measuring 48 1/16 in and 77 9/16 mm are available.

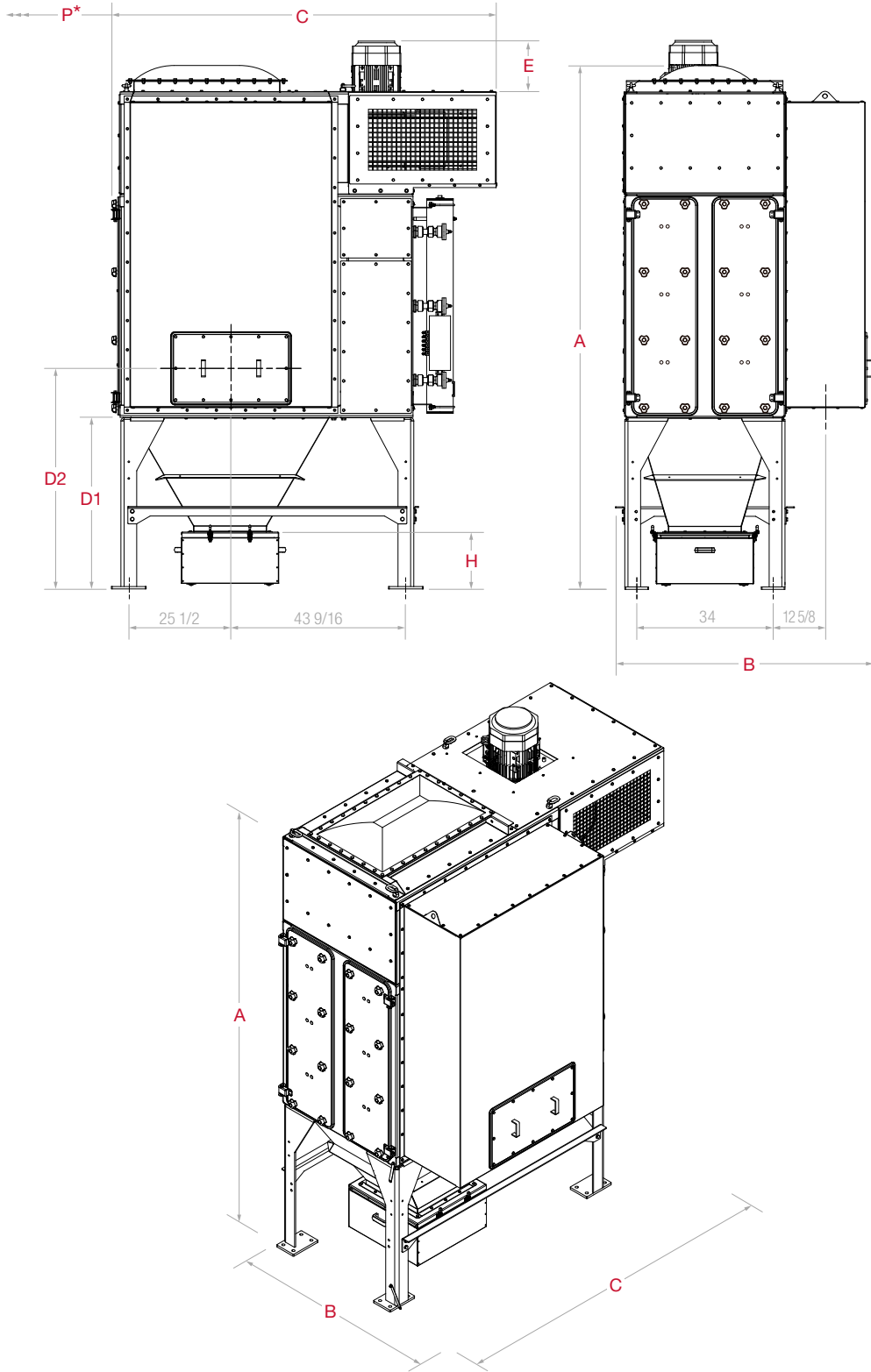


Illustration model:
AIVY Compact SPK™ 3RC12 EX*
*In accordance with NFPA 654 & 68

Characteristics	2RC4	3RC6	Model 2RC8	3RC12	4RC16
No. of cartridges	4	6	8	12	16
Filtering surface (ft²)	861	1292	1722	2583	3444

Dimensions		2RC4	3RC6	Model 2RC8	3RC12	4RC16
Height (in)	A	98 7/8	117 3/8	112	130 1/2	149
Width (in)	B	64 5/8	64 5/8	64 5/8	64 5/8	64 5/8
Length (in)	C	68 13/16	68 13/16	97 3/16	97 3/16	97 3/16
Inlet height (in)	D1	33 3/4	33 3/4	45 1/4	45 1/4	45 1/4
	D2	43 1/16	43 1/16	55	55	55
Height hopper-floor (in)	H*	14 3/16	14 3/16	14 3/16	14 3/16	14 3/16
Maintenance distance (in)	P*	32 11/16	32 11/16	32 11/16	32 11/16	32 11/16

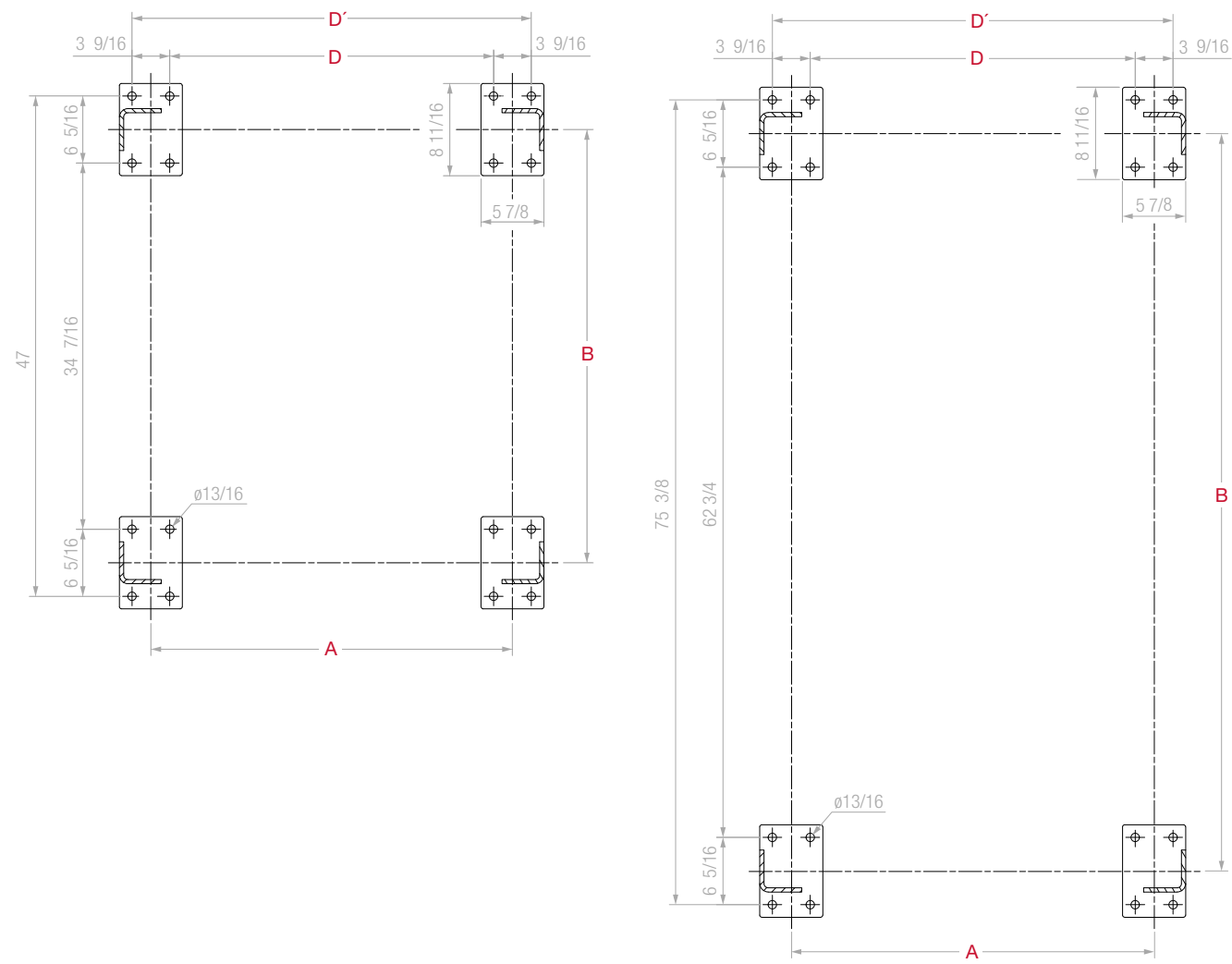
Fan	Mod. 0	5 hp	-	-	-	-
	Mod. 1	5 hp	3 5/16	3 5/16	3 5/16	3 5/16
	Mod. 2	7.5 hp	5 1/2	5 1/2	5 1/2	5 1/2
	Mod. 3	10 hp	7 5/8	7 5/8	7 5/8	7 5/8
	Mod. 4	10 hp	E (in)	6 9/16	6 9/16	6 9/16
	Mod. 58	15 hp		-	-	13 5/8
	Mod. 9	20 hp	-	-	-	12 1/8
	Mod. 10	20 hp	-	-	-	14 15/16
	Mod. 11	25 hp	-	-	-	14 15/16
	Mod. 12	25 hp	-	-	-	15 13/16

Weight		2RC4	3RC6	Model 2RC8	3RC12	4RC16
Weight (lbs)*	(H = 14 3/16)	1649	1978	2209	2659	3142
Weight (lbs)*	(H = 48 1/16)	1695	2024	2350	2800	3283
Weight (lbs)*	(H = 77 9/16)	1903	2231	2485	2934	3417

- * P: Minimum maintenance distance. If space limitations exist, consult with AAF International.
- * Weight of the unit without the fan. To find out the weight of the fans, refer to the information provided on page 14.
- * The total height of the unit (A) is calculated based on a discharge height (H) of 14 3/16 in. Three additional discharge heights measuring 48 1/16 in and 77 9/16 mm are available.

Structure

	Dimensions (in)				
	2RC4 Compact	3RC6 Compact	2RC8 Compact	3RC12 Compact	4RC16 Compact
	2RC4 Compact SPK	3RC6 Compact SPK	2RC8 Compact SPK	3RC12 Compact SPK	4RC16 Compact SPK
A	34	34	34	34	34
B	40 11/16	40 11/16	69 1/16	69 1/16	69 1/16
C	34 7/16	34 7/16	62 3/4	62 3/4	62 3/4
C'	47	47	75 3/8	75 3/8	75 3/8
D	30 7/16	30 7/16	30 7/16	30 7/16	30 7/16
D'	37 1/2	37 1/2	37 1/2	37 1/2	37 1/2

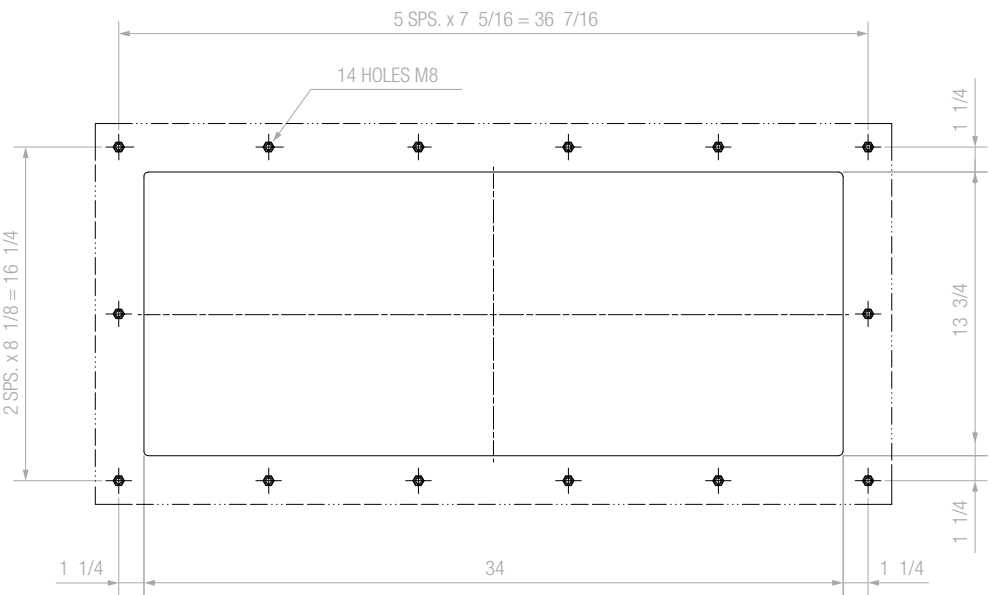


- Models
- 2RC4
 - 3RC6

- Models
- 2RC8
 - 3RC12
 - 4RC16

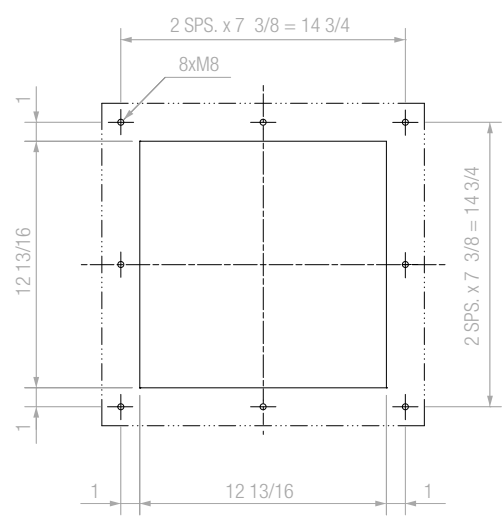
Inlet flanges

AIVY Compact™

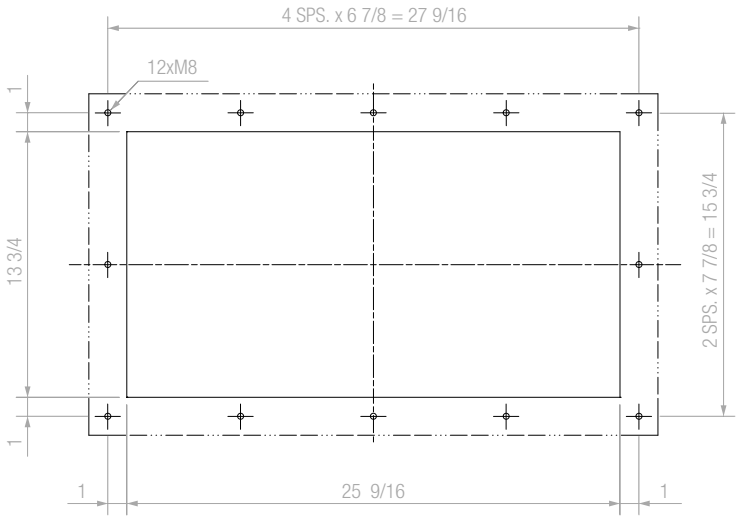


* SPS = spaces

AIVY Compact SPK™



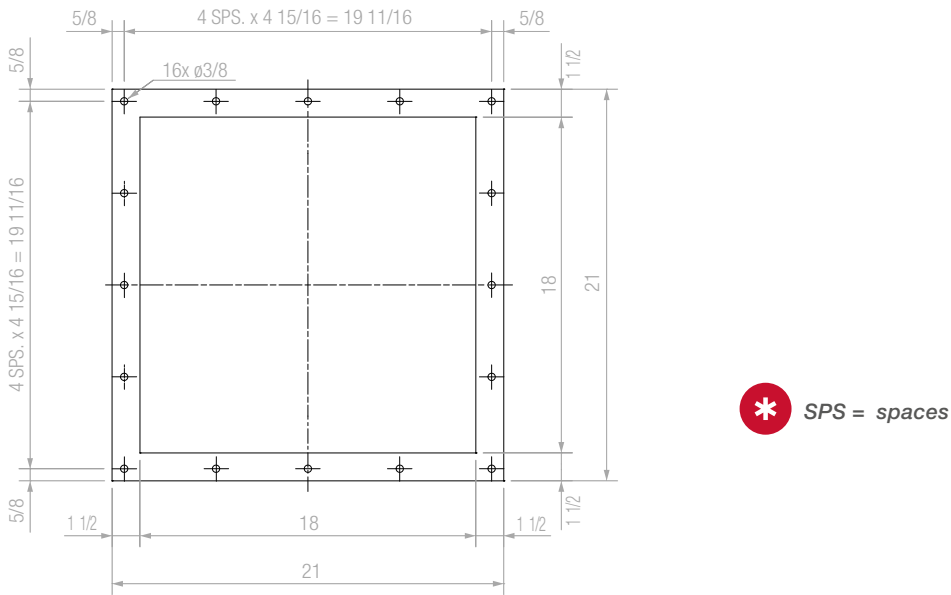
- Models
- 2RC4
 - 3RC6



- Models
- 2RC8
 - 3RC12
 - 4RC16

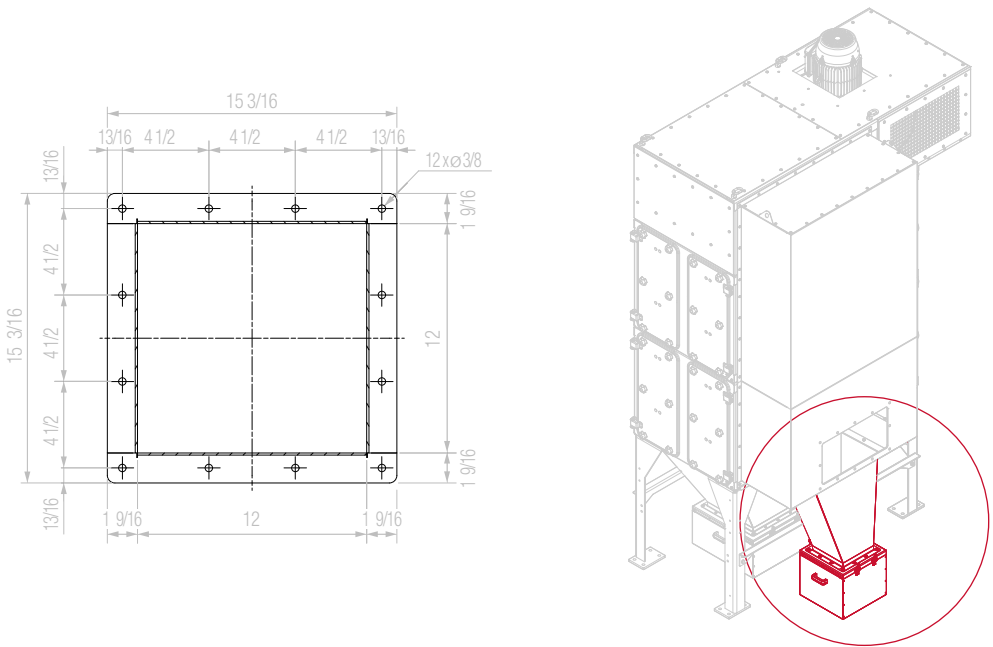
Discharge flanges

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AIVY Compact SPK™

Optional discharge system



* This inlet flange will be used only for connecting the optional discharge system on the spark arrestor on AIVY Compact SPK™.

Fan

The electrical power supply for all the fan motors is: 240/400 V at 50/60 Hz or 400/690 V at 50/60 Hz.

Model	Power (hp)	Weight (lbs)
Mod. 0	5	187
Mod. 1	5	216
Mod. 2	7.5	243
Mod. 3	10	351
Mod. 4	10	333
Mod. 58	15	386
Mod. 9	20	551
Mod. 10	20	683
Mod. 11	25	670
Mod. 12	25	456

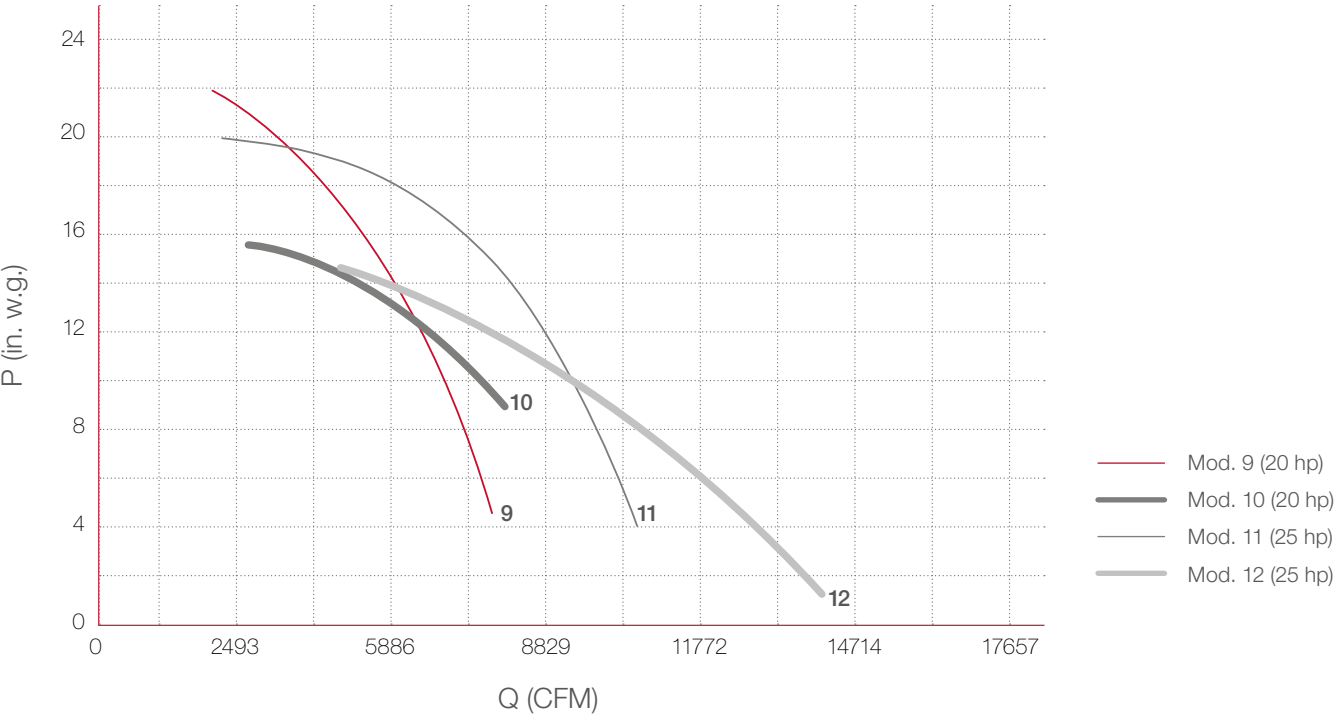
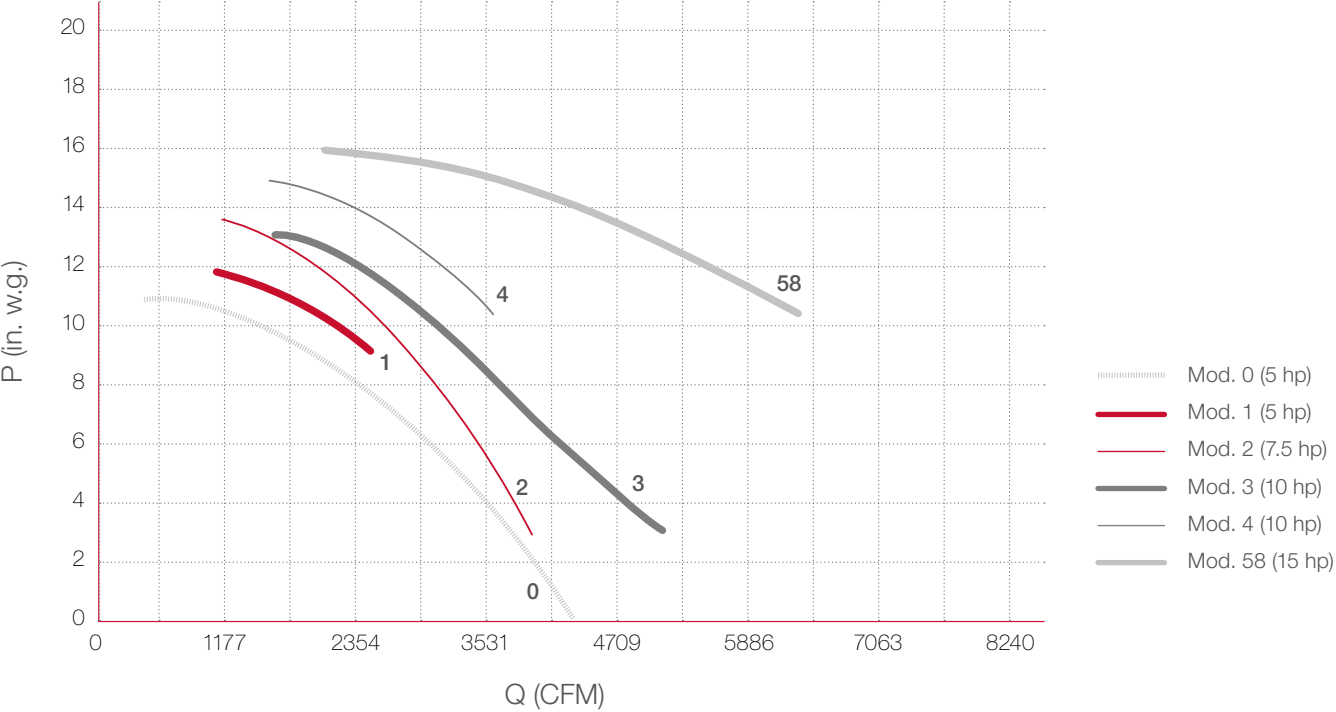
Fans available per unit

Mod. 0 5 hp	Mod. 1 5 hp	Mod. 2 7.5 hp	Mod. 3 10 hp	Mod. 4 10 hp	Mod. 58 15 hp	Mod. 9 20 hp	Mod. 10 20 hp	Mod. 11 25 hp	Mod. 12 25 hp
2RC4	2RC4	2RC4	2RC4	2RC4	-	-	-	-	-
3RC6	3RC6	3RC6	3RC6	3RC6	-	-	-	-	-
2RC8	2RC8	2RC8	2RC8	2RC8	2RC8	-	-	-	-
3RC12	3RC12	3RC12	3RC12	3RC12	3RC12	3RC12	3RC12	3RC12	3RC12
4RC16	4RC16	4RC16	4RC16	4RC16	4RC16	4RC16	4RC16	4RC16	4RC16

Sound pressure (dBA)

	Mod. 0 5 hp	Mod. 1 5 hp	Mod. 2 7.5 hp	Mod. 3 10 hp	Mod. 4 10 hp	Mod. 58 15 hp	Mod. 9 20 hp	Mod. 10 20 hp	Mod. 11 25 hp	Mod. 12 25 hp
Without acoustic enclosure	72	74	75	82	78	89	82	83	84	89
With acoustic enclosure	69	72	73	79	75	82	78	79	80	85

Fan characteristic curves



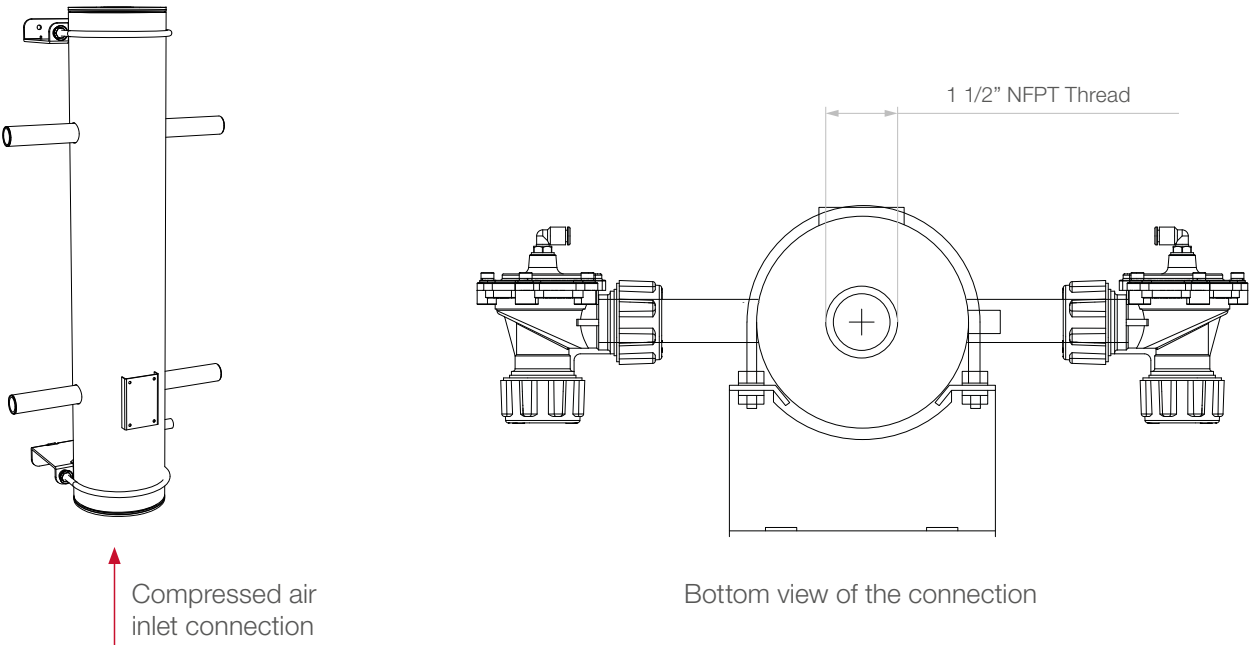
Cleaning system

Compressed air consumption

Size	Required air CFM
2RC4	2.65
2RC8	3
3RC6	2.65
3RC12	3
4RC16	3

Maximum recommended pressure: 100 psi

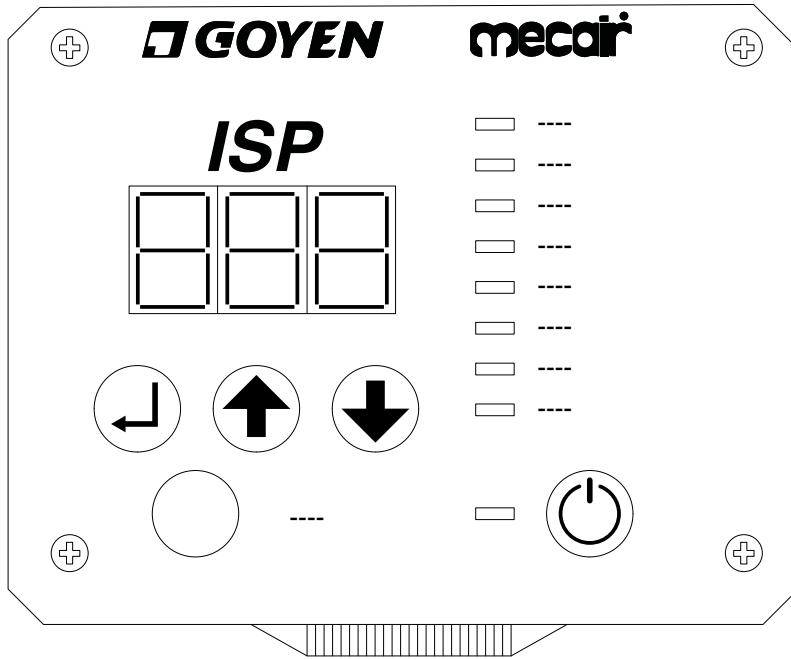
Compressed air connection



Pentair Goyen Filter Cleaning Controller ISP

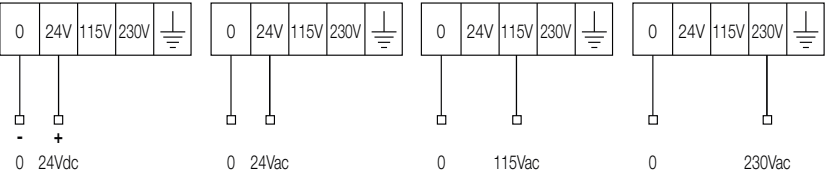
Cleaning Controller

Input Power	AC: 230V or 460V
Pulse Controller Input Power	120 Vac
Pulse Controller Output Power	24 VDC
Enclosure Rating	NEMA 4/4X
Certification	UL 508A
Pulse Controller Inputs	Voltage Free: Fan Stop, Low Header Alarm
Pulse Controller Outputs	Voltage Free: Coil Error Analog Output: 4-20 mA dP signal
Operating temperature	-40 / +140 °F
Solenoid valve input	24 VDC standard 120 V option



Connections

Power supply terminals



Power supply voltage

***** For more information about the Pentair Goyen Filter Cleaning Controller ISP, please refer to the specific Operating and Installation manual for this equipment.



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A light gray world map serves as a background for the central text. The map shows the outlines of continents and major landmasses.

AAF International

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