



OptiFlo HP Series

The AAF OptiFlo HP Series of high-pressure collectors are ruggedly constructed units with pulse cleaning action.

The OptiFlo HP dust collector is recommended for use as a product receiver in high pressure, high dust load applications such as high pressure product conveying. The OptiFlo HP will handle vacuum pressures up to 8.67 inches of mercury (4.259 psig or 118.11 inches H2O).

The OptiFlo HP can be used for filtering fumes and dusts in mechanical, chemical or pharmaceutical applications. Contaminated air enters from below the hopper and due to the rapid decrease in velocity and the first stage diffuser, the larger particles fall into the dust collection bin. The finer or lighter particles flow through the unit, where the cartridge filters are located; the contaminated air flows through the cartridges from the outside to the inside.

HIGH EFFICIENCY CARTRIDGES

The high-efficiency spunbond polyester cartridges provide a dust removal efficiency of 99.5% on dust samples with particles in the 0.2 to 2 microns range.

PULSED CLEANING

The cleaning sequence is carried out on each filter section, by means of diaphragm valves controlled by an automatic timer, which determines both interval and duration period or by a PLC.

In this way the efficiency of the filters are always maintained at a maximum. Thanks to this highly reliable cleaning method, after an initial operating period, the filter reaches a nearly constant pressure drop throughout its operating life. The filter may be fitted with a differential pressure switch for monitoring the cartridges pressure drop and the subsequent pulse cleaning cycle.

SELF CLEANING

Contaminated air is drawn into the collector through the tangential inlet where the majority of the incoming material is diverted by centrifugal action to the dust storage device located below the hopper outlet. The air then passes up through the vertical cartridge filters where the remaining dust is trapped by the high efficiency filter media. The OptiFlo HP is a self-cleaning unit that uses timer actuated pulse-cleaning technology to periodically remove the collected dust from the filter surface. The displaced dust falls to the hopper where it is collected and subsequently removed.



TWELVE SIZES

The OptiFlo HP is available in 12 sizes to accommodate airflows between 880 cfm and 12,000 cfm.

SPECIAL FEATURES

■ **Cyclic Programmer**

A sealed container is used with a transparent lid, duration of injection and pause phases are preset but easily changeable.

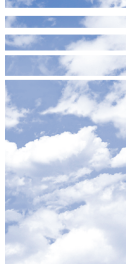
■ **Rotary Valve (Optional)**

For continuous unloading from hopper, different models are available.

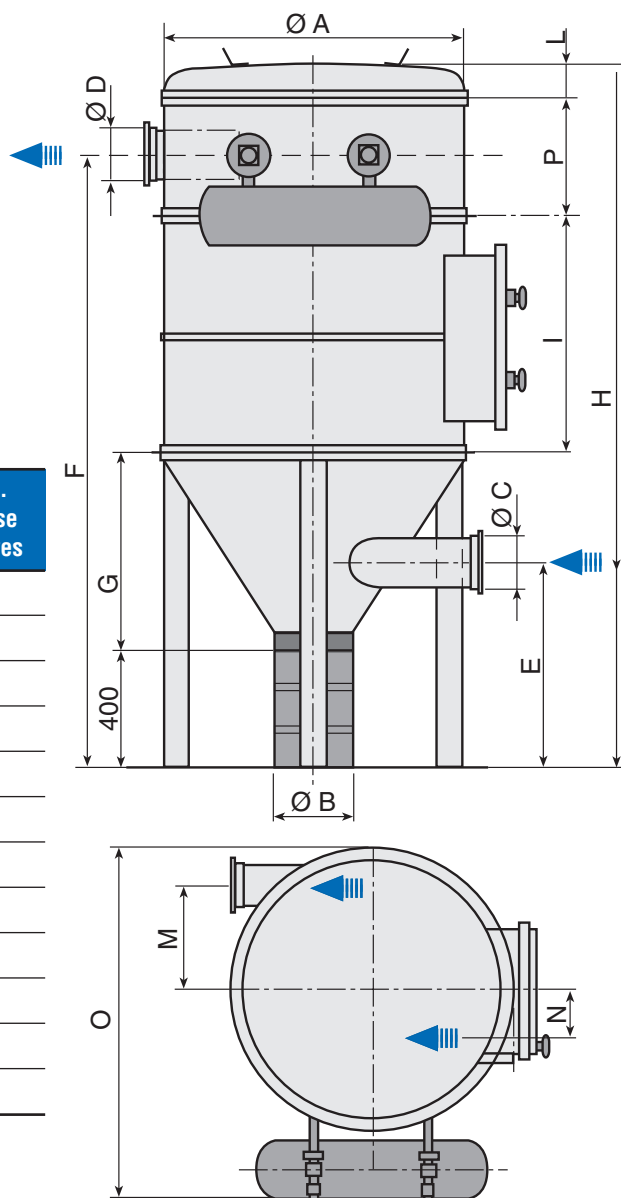
OPTIONS

The OptiFlo HP is available with an optional rotary valve to allow continuous discharge of the collected dust into an un-pressurized container.

AmericanAirFilter®



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TECHNICAL FEATURES

Model	Filter Surface (Sq. Ft.)	Max. Air Volume (CFM)	No. Of Cartridges	Max. Operating Pressure	Pulse Valve Dia. (Inches)	No. Pulse Valves
OptiFlo HP 900	204	880	7	72.5	1	3
OptiFlo HP 1200	258	1175	7	72.5	1	3
OptiFlo HP 1500	355	1470	4	72.5	1.5	2
OptiFlo HP 1900	460	1880	4	72.5	1.5	2
OptiFlo HP 2400	549	2550	4	72.5	1.5	2
OptiFlo HP 3000	688	2940	4	72.5	1.5	2
OptiFlo HP 3900	871	3820	6	72.5	1.5	3
OptiFlo HP 4700	1086	4700	6	72.5	1.5	3
OptiFlo HP 5600	1313	5588	7	72.5	1.5	3
OptiFlo HP 6800	1604	6765	9	72.5	1.5	3
OptiFlo HP 9700	2218	9705	16	72.5	2	5
OptiFlo HP 12000	2670	11,765	16	72.5	2	5

HP SERIES DIMENSIONS (INCHES)

Model	CFM	A	B	C	D	E	F	G	H	I	L	M	N	O	P	Weight (Lbs.)
OptiFlo HP 900	880	23.6	7.9	5.9	5.9	23.6	67.7	15.7	81.3	28.3	5.7	8.7	3.9	36.2	15.7	462
OptiFlo HP 1200	1175	23.6	7.9	5.9	5.9	23.6	79.5	15.7	93.1	40.2	5.7	8.7	3.9	36.2	15.7	506
OptiFlo HP 1500	1470	39.4	9.8	7.1	7.1	27.6	75.6	23.6	92.5	28.3	9.1	15.9	7.1	52.0	15.7	704
OptiFlo HP 1900	1880	39.4	9.8	7.1	7.1	27.6	87.4	23.6	104.3	40.2	9.1	15.9	7.1	52.0	15.7	748
OptiFlo HP 2400	2350	39.4	9.8	9.8	9.8	27.6	75.6	23.6	92.5	28.3	9.1	14.6	5.3	52.0	15.7	792
OptiFlo HP 3000	2940	39.4	9.8	9.8	9.8	27.6	87.4	23.6	104.3	40.2	9.1	14.6	5.3	52.0	15.7	858
OptiFlo HP 3900	3820	49.2	15.7	11.8	11.8	35.4	83.5	31.5	102.0	28.3	10.6	18.5	11.4	61.8	15.7	900
OptiFlo HP 4700	4700	49.2	15.7	11.8	11.8	35.4	95.3	31.5	113.8	40.2	10.6	18.5	11.4	61.8	15.7	1034
OptiFlo HP 5600	5588	55.1	15.7	15.7	15.7	33.5	97.2	31.5	119.3	40.2	12.2	19.7	9.1	67.7	19.7	1232
OptiFlo HP 6800	6765	63.0	15.7	15.7	15.7	32.3	97.2	31.5	120.9	40.2	13.8	23.6	12.6	75.6	19.7	1518
OptiFlo HP 9700	9705	78.7	23.6	20.5	20.5	55.1	124.0	54.3	155.1	40.2	17.3	28.7	15.7	106.7	27.6	1980
OptiFlo HP 12000	11,765	78.7	23.6	20.5	20.5	55.1	131.9	54.3	163.0	48.0	17.3	28.7	15.7	106.7	27.6	2200



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www.aafintl.com

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Call The Answer Center
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