AVRC Filter Receivers

- **Filter receiver designed to receive product from a vacuum and is a bottom bag removal filter**
- **Filters are a pleated cartridge with multiple filter medias available to meet your needs**
- **Highly customizable to meet your application needs.**

Application

Designed for heavy dust loads and for vacuum receivers on a central vacuum system. Can be configured with an optional cyclone receiver inlets. The AVRC filter is a circular bodied pulse jet cleaned bag filter unit designed to handle higher vacuum applications up to -17" hg. It's also suitable for sites with low headroom, since the bottom-load bags are removed from the dirty side of the filter via an access door in the filter body.

Equipment

Dust laden air enters the AVRC near the bottom of the unit. Rows of filter cartridges are mounted on a horizontal tubesheet and suspended in the filter housing. A remote vacuum pump connected to the exhaust side draws air through the filter. Filtered dust collects on the outside of the filter media, and falls into the hopper where it can be collected. Filtered air passes through the center of the filter bags and out through the clean air discharge at the top of the unit.

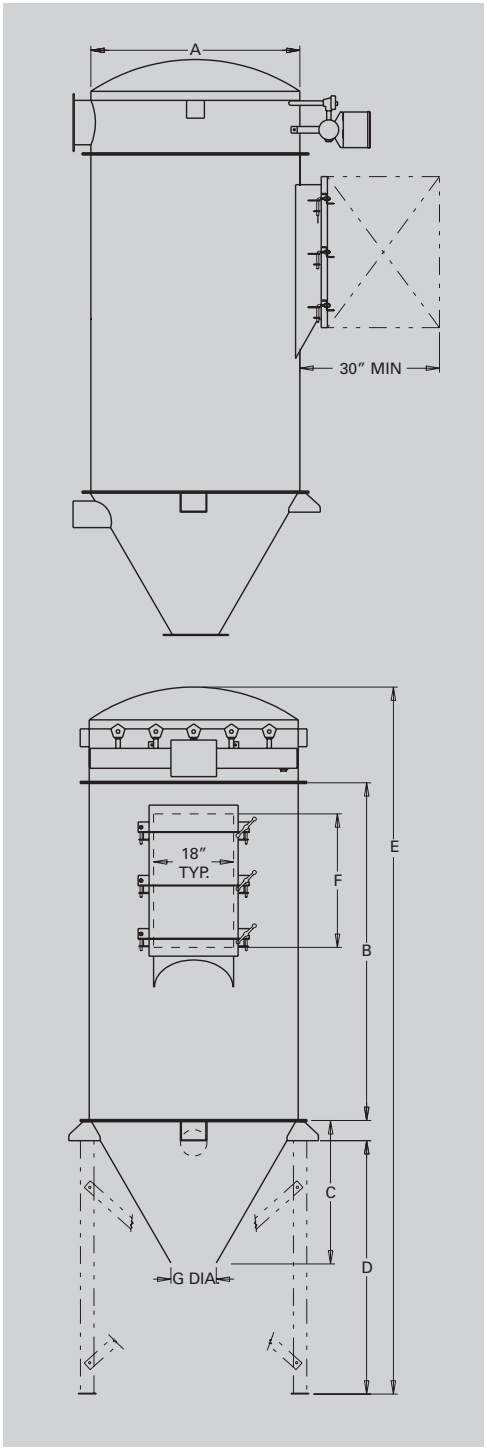
An air pulse cleaning system cleans the filter bags and dislodges filtered product so that it drops into the hopper. The cleaning system includes a compressed air manifold with a diaphragm valve and purge tube assembly centered above each row of filter bags. A pulse of compressed air is periodically directed downwards through the bag. The pulse flexes the filter bag, causing accumulated dust to be dislodged and fall to the hopper below.

The cleaning pulse is controlled by a solid state electronic timer which automatically sequences through the bank of filter bags, one row at a time, energizing a solenoid valve which controls the release of compressed air through the diaphragm valve. The timer can be set to operate at a pre-determined interval.

The pulse can also be controlled by a photohelic differential pressure gauge which responds to pressure differences across the filter. When controlled by the switch/gauge, cleaning occurs only when needed, decreasing air consumption and increasing filter bag life by avoiding unneccessary pulsing.

Dimensions

Model	Cloth Area (Sq. Ft.)	No. of Bags	Dimensions (inches) A	B	C	D	E	F	G
19AVRC7	119	7	28	28	17 9/16	40 3/4	99 3/8	20	8
39AVRC7	252	7	28	48	17 9/16	40 3/4	122 3/8	20	8
19AVRC14	239	14	40	28	26 1/4	51	116	20	10
39AVRC14	504	14	40	48	26 1/4	51	139	20	10
19AVRC21	359	21	47	28	32 5/16	57	126 13/16	20	10
39AVRC21	756	21	47	48	32 5/16	57	151 13/16	20	10
19AVRC32	547	32	60	28	43 9/16	68 1/4	139 11/16	20	10
39AVRC32	1152	32	60	48	43 9/16	68 1/4	164 11/16	20	10
39AVRC39	1404	39	66	48	48 3/4	73 1/2	189 13/16	20	10
39AVRC52	1872	52	72	48	54	78 5/8	215 11/16	38	10



Compressed air requirements

For most applications, 80 - 100 psi compressed air at the filter header is adequate for the proper cleaning of the filter bags. Pressures between 100 - 120 psi may be appropriate for some critical applications. Process filtration experts for recommendations. Compressed air pressures under 80 psi require special considerations in the design and sizing of the filter and should also be reviewed by Legends Equipment.

iPLAS is found only on Polipleet® filter elements