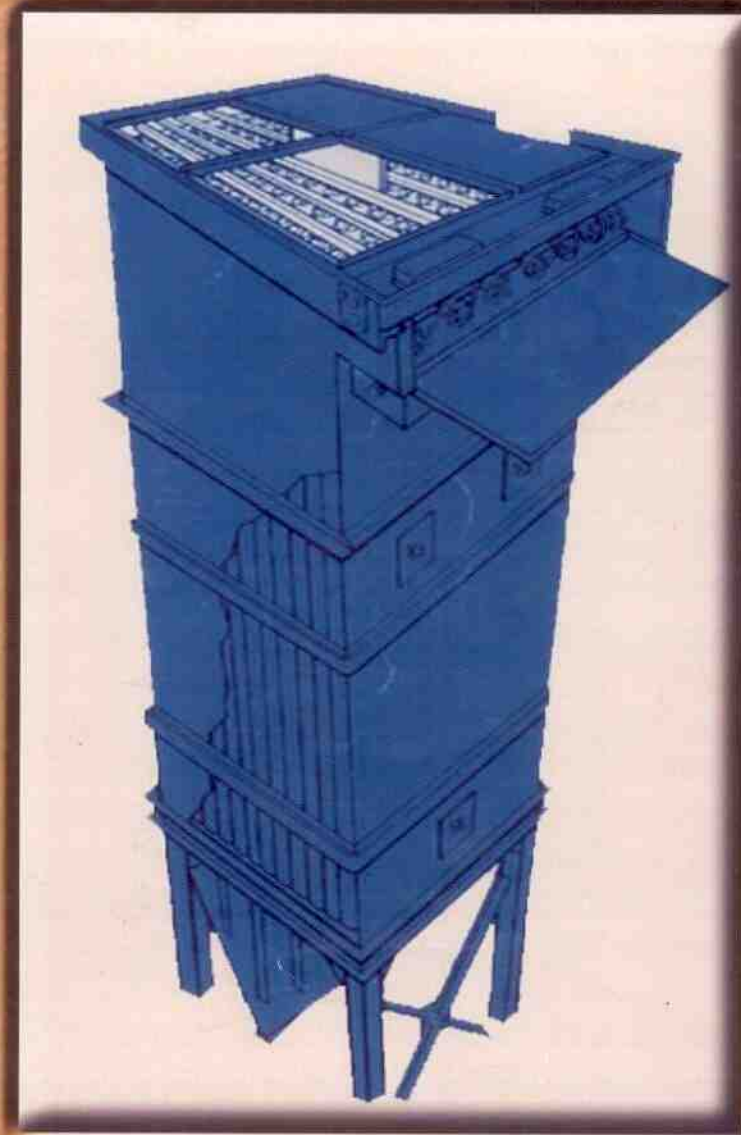


AIROCHEM



PULSE-JET BAG FILTERS



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INTRODUCTION:

PULSE JET FILTERS:



'AIROCHEM' Pulse Jet Filters are designed to give continuous operation, whilst handling a high dust burden at filtration efficiencies often in excess of 99.9%

SALIENT FEATURES:

- * Tubular Bags - For better sealing & dust release.
- * Compact size - Relative to filter area available.
- * 'No tool' bag change - no lost nuts, clamps, spanners.
- * Reduced compressed air consumption - by design and control which can be adjusted to match bag length and application parameters.
- * Low entry velocity of gases and distributor increases bag life.
- * Double beaded snapband cuff bags provide efficient and simple seal arrangement.
- * High temperature operations upto 250 degree C.
- * Good access to bags and controls.
- * Maximum usable filter area by sitting venturies out of bags.
- * Epoxy or stainless steel optimal finishes.
- * Top removal bags as standard with option of split cages for limited headroom.

CONSTRUCTIONS:

Panel construction is from mild steel with welded and sealed joints. Panels are suitably ribbed. Bag inspection panels are incorporated in casing. The clean air chamber is fitted with removable lids are sloped slightly for drainage of water, as many times, filters are placed for outdoor duty.

COMPRESSED AIR EQUIPMENTS:

Heavy duty steel pipe forms the distribution manifold with 1" NB sockets at both ends. One end the filter/regulator is fitted. Tank has drain connections at the bottom. The valves are provided with canopy or hinged cover for outdoor applications. Pulse jet dust collector valves are quick acting diaphragms type with pilot solenoid operations.

FILTER FABRICS:

Polyster felt has proved to be suitable for majority of applications. Other fabrics are available where nature of dust or conveying air demands alternate materials. Polypropylene, polyester, acrylic, fiberglass, nomex, ryton, P84, teflon fabric bags for temperatures from 77 degrees C to 260 degrees C are available.

PLEATED BAGS:

We can also fit pleated bags into the same body, as we provide same size bags as that of bags with pleated construction to increase filter area 100 to 200%.

SPECIAL BAG TREATMENT:

Bags can be conditioned to absorb hydrocarbons and moisture and increasing efficiency. Antistatic/spark inhibiting treatment is also possible.



SOLENOID VALVES & ELECTRONIC CONTROLLER:

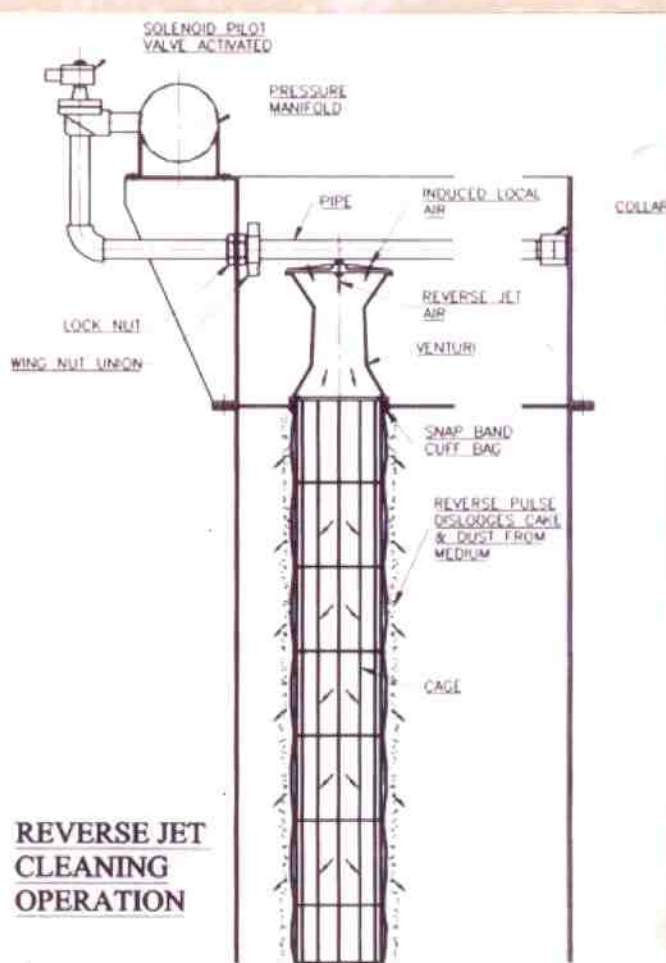
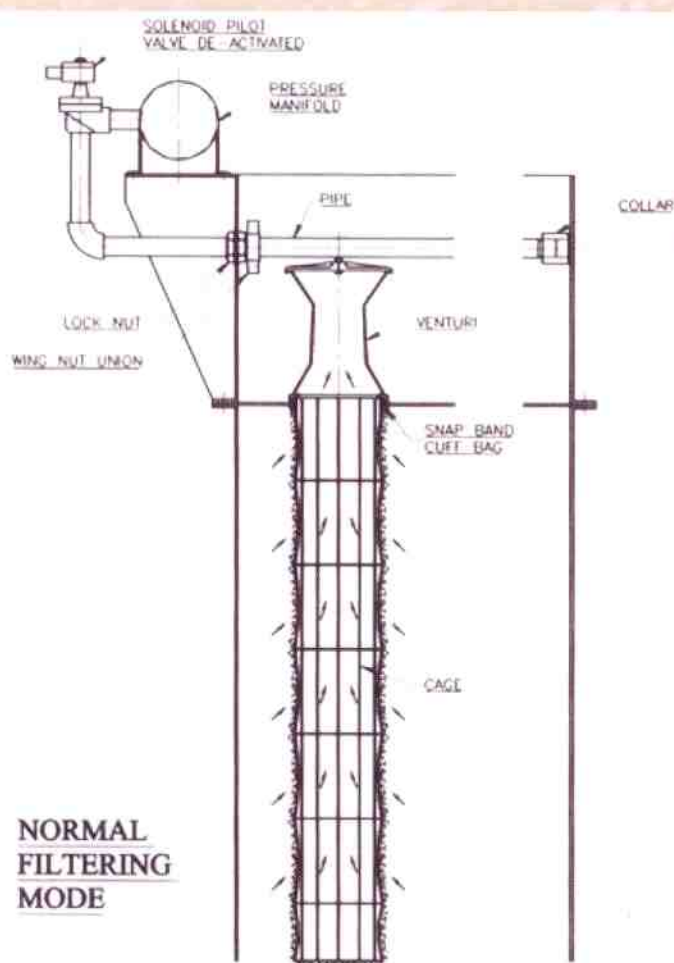
Pulse Jet dust collector valves are located in protected area, and easily accessible. They are pilot operated solenoid valves, are two way normally closed type initiated by 215V signal. Controller incorporates the latest microprocessor technology with variable controls for interval between, and duration of, pulse. Light emitting diode flashes as each output is energised in sequence.

DESCRIPTION & OPERATION:

Filter unit comprises of housing and number of filtering elements with wire cage supported cylindrical bags made from fabric, each bag being mounted individually into filter body with bag/cage/ventury sub-assembly. Air for pulse jet cleaning is carried by tubes running above the rows of bags to jet nozzles projecting into ventury throats. Rapid acting diaphragm valves are triggered by solenoid pilot valves which in turn are controlled by electronic timer.

Dusty air passes from outside of bag and passes to clean air chamber leaving entrained particles on cake formed on outside bag surface. The preset pulse at interval keeps cleaning rows one after another, while rest of the filter is in the operation continuously.

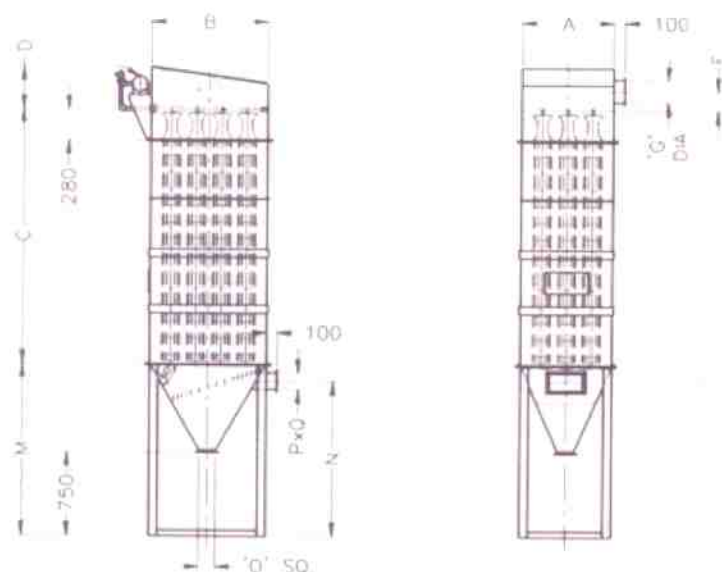
No tool bag change is possible with removal of wing nut on union, which enables to remove ventury and cage leaving bag inside.





PJ STANDARD -FILTER DIMENSIONS

COMPRESSED AIR INLET
1/2" BSP EITHER END



FILTER DESIGNATION			A	B	C	D	F	G	M	N	O	P	Q
LONG BAG	MEDIUM BAG	SHORT BAG											
PJ12/L/34	PJ9/M/34	PJ6/S/34	820	1045	2403 1874 1342	375	178	150	1550	1400	150	100	200
PJ18/L/36	PJ13.5/M/36	PJ9/S/36	820	1495	2403 1874 1342	375	178	195	1940	1790	150	100	300
PJ24/L/38	PJ18/M/38	PJ12/S/38	820	1945	2403 1874 1342	375	178	225	2330	2180	150	100	400
PJ20/L/45	PJ15/M/45	PJ10/S/45	1045	1270	2403 1874 1342	375	178	205	1745	1595	150	100	330
PJ32/L/48	PJ24/M/48	PJ16/S/48	1045	1945	2403 1874 1342	375	178	260	2330	2180	200 150 150	150	360
PJ30/L/56	PJ22.5/M/56	PJ15/S/56	1270	1495	2403 1874 1342	375	178	250	1940	1790	200 150 150	150	330
PJ40/L/58	PJ30/M/58	PJ20/S/58	1270	1945	2403 1874 1342	500 375 375	250 178 178	290	2330	2180	200 150 150	150	440
PJ36/L/66	PJ27/M/66	PJ18/S/66	1495	1495	2403 1874 1342	500 375 375	250 178 178	275	1940	1790	200 200 150	200	300
PJ48/L/68	PJ36/M/68	PJ24/S/68	1495	1945	2403 1874 1342	500 375 375	250 178 178	320	2330	2180	200 200 150	200	400
PJ56/L/78	PJ42/M/78	PJ28/S/78	1720	1945	2403 1874 1342	500 500 375	250 250 178	345	2330	2180	200 200 150	225	415
PJ64/L/88	PJ48/M/88	PJ32/S/88	1945	1945	2403 1874 1342	500 500 375	250 250 178	370	2330	2180	200	225	480
PJ72/L/89			1945	2170	2403	500	250	390	2525	2300	250	250	480
PJ80/L/8-10			1945	2395	2403	500	250	410	2720	2495	250	250	530
PJ88/L/8-11			1945	2620	2403	500	250	430	2915	2690	250	250	580
PJ96/L/8-12			1945	2845	2403	500	250	450	3110	2885	250	250	630