



Fine Filters Pvt. Ltd.





### PRODUCT RANGE

- Porous Ceramic Filters for Air, Gases & Liquids
- Activated Carbon Filters
- Fibre wound and pleated SS cartridges

✓   RANGE OF FILTERS FOR

- Air, Gases & Liquids
- Compressed Natural Gas
- Speciality Gases
- Protection of Gas & Liquid Analysers
- Vacuum Pump Inlet & Exhaust
- Steam, Sterile Air & EtO

✓  

- Membrane Air Dryers & Nitrogen Generators
- Tyre Savers

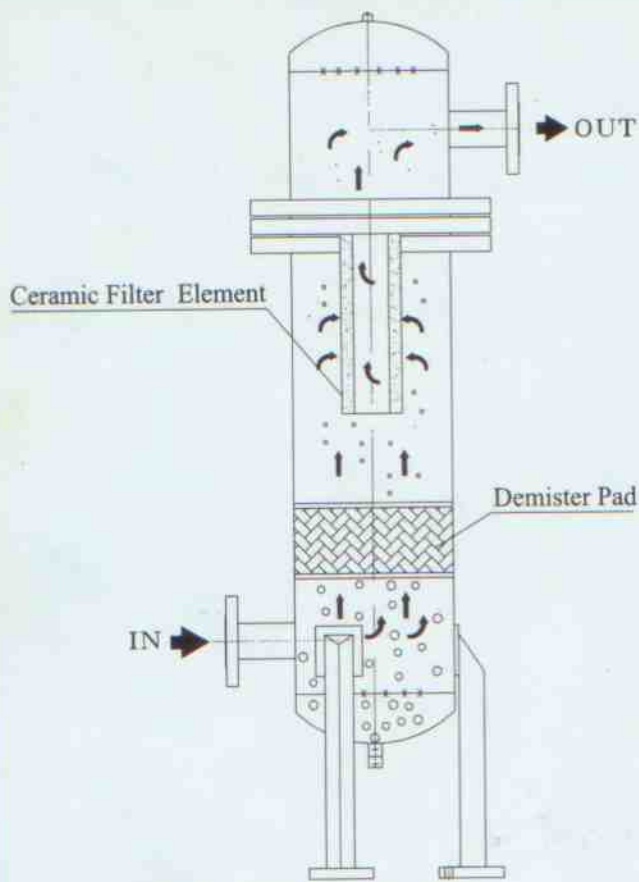
### APPLICATIONS

- Clean / dry air for pneumatic & instrumentation.
- Filtration of gases like CO<sub>2</sub> / N<sub>2</sub> / H<sub>2</sub> / Freon.
- Pneumatic conveying of materials in cement and fertiliser plants.
- Filtration of Air / Oxygen in fermentation process.
- Air diffusers for effluent treatment/fluidized bed.
- Prevent odour from exhaust lines.
- Removal of H<sub>2</sub>S from CO<sub>2</sub> in aeration of bottled beverages.
- Spray-painting / powder coating & mirror making.
- In-house generation of N<sub>2</sub> & bone dry air.
- Removal of suspended impurities from Industrial cooling / process water and other liquids.

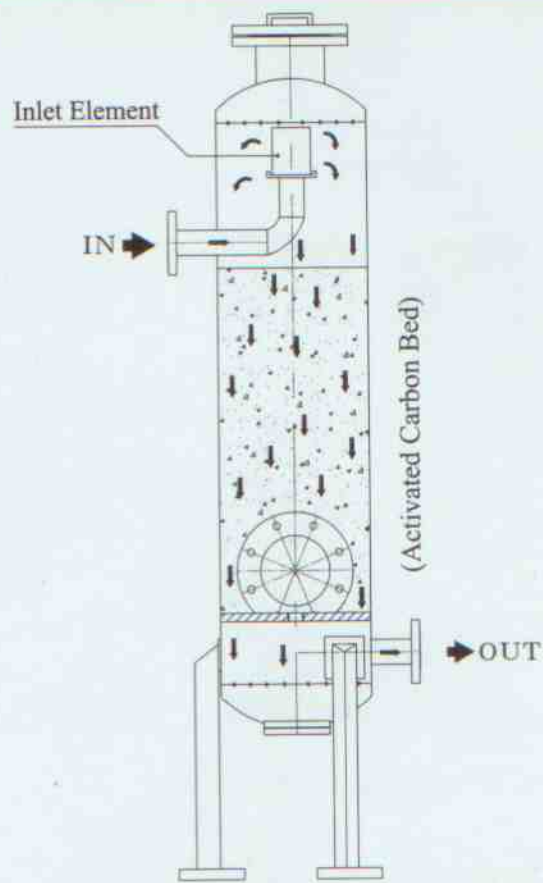
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**CERAMIC PRE-FILTER  
WITH DEMISTER PAD**



**ACTIVATED CARBON FILTER**

**"Fine Filters"** Compressed Air/Gas Filters consist of a two-stage separation-cum-filtration process.

In the first stage, the air/gas passes through a carefully positioned Demister Pad placed above the inlet nozzle.

The Demister Pad is made of knitted St. Steel wire loops with symmetrical interlocks. Due to the high free volume and large impingement area, it has a very low pressure drop. As the air/gas passes through the pad, the liquid droplets contact the large wire surface area and due to the greater inertia, they are held back. As more and more droplets collect, they coalesce and grow in size and then fall back in the drain sump due to gravity.

The air/gas exiting out from the top of the Demister pad will contain traces of oil and moisture in mist form in the range of about 25-30 microns.

In the next stage, the air/gas enters the porous ceramic filter elements hanging above the Demister Pad.

As the air/gas passes through the elements, the entrained moisture and oil droplets as well as dust and other suspended particles are separated within the wall thickness due to combined action of capillary and inertial impaction.

The porous ceramic filter elements are made of high strength fused alumina bonded together and fired at high temperature. These elements can remove suspended particles down to 5 (five) microns (nominal) with 99.9% efficiency. Other nominal ratings of 20, 10, and 1 micron can also be supplied.

These elements can be cleaned and reused and can withstand differential pressures up to 100 psid. Initial pressure drop in clean condition is about 1.0 to 1.5 psid at maximum flow. When the pressure drop reaches about 8-10 psid, the elements must be cleaned. Standard assemblies are designed for 13 barg; however custom-built units can also be made for higher pressures up to 250 barg, in MS/CS or SS material.

**"Fine Filters"** Activated Carbon Absorbers are best suited for adsorption of vapors of oils and other organic vapors/odour from compressed air/gases.

A typical compressed air line from a lubricated compressor may contain up to 30 ppm of oil of which about 10 ppm may be in vapor phase.

The bulk of the oil in the form of fine liquid droplets is already removed in the ceramic pre-filter or a coalescer.

The adsorber is fitted with an inlet filter element which not only distributes the air uniformly over the bed, but also prevents any carbon particles from entering in the inlet line due to any sudden back-pressure.

The air/gas stream then passes through the packed bed of special grade Activated Carbon granules (or pellets in some cases) with high adsorption efficiency. The bed height of the carbon is so designed as to minimize the pressure drop and vapor entrainment at the outlet.



The residual oil content at the outlet (in vapor phase) is less than 1 ppm. The pressure drop across the Adsorber is expected to be about 1.5-2.0 psid and may increase over a period of time as the bed gets de-activated.

The life of the Activated Carbon is very much dependant on the quality of the incoming air/gas and it has to be replaced generally in about 6-8 months with a fresh charge.





The adsorber is also fitted with sufficient number of porous ceramic filter elements at the bottom of the carbon bed. This prevents any carry-over of the carbon particles along with the treated air/gas.

The adsorber can also be used to remove any odour from exhaust air/gas in paint, pesticide plants.




**GENERAL PURPOSE AIR/GAS :**   High efficiency coalescing filters are suitable for a range of applications in pneumatic lines, modulating systems, air conveying etc. and a variety of gases. Commonly used grades of borosilicate glass fibre filters elements like DX/6CU/7CVP etc. have coalescing efficiencies ranging from 99.5 to 99.97% for 0.3 to 0.01 microns and max. oil carryover between 0.83 to 0.008 ppm. For dust removal, Grade 3 PU is a pleated cellulose element with very high dirt-holding capacity rated for 3 microns absolute. Large surface area of the 7CVP pleated element means higher tolerance for heavy liquid aerosol contamination. The liquid droplets slide down the fibre network and coalesce to form large droplets which collect at the bottom and are continuously drained out. Hence the life of the element is independent of the liquid contamination. The dirt particles remain trapped and this ultimately leads to flow resistance. Capacities can vary from a few SCFM to +40000 SCFM and line size from 1/4" to 16" NB.





**INSTRUMENT QUALITY AIR :**   Very High efficiency coalescing filters grade BX or 4 CU can achieve efficiencies between 99.995% to 99.9999% for micron ratings down to 0.01 microns and max. oil carryover of 0.003 ppm. They can be designed for any capacity and are completely resistant to water and compressor oils and a host of other liquid and gases. Use of a CI  or AU  grade activated carbon element also removes oil vapors with +99% efficiency. These filters are ideal as pre-and after-filters in dryers and for critical instrumentation applications.









**STERILE AIR FILTERS :**  Grade SA elements are rated for +99.9999% efficiency for 0.01 microns and comply with USFDA requirements for removal of bacteria. These elements can be steam sterilised and can tolerate temperatures upto 300° F. The housing is of St. Steel with heat resistant seals like viton. Suitable pre-filters using grade DX + BX or grade 4C elements should precede the SA filters in order to maximize the efficiency and increase life. Sometimes an AU or CI cartridge filter may also be necessary to remove hydrocarbons in case of a lubricated compressor. These filters can be used to provide clean, dry sterile air for fermentors etc. and also for BREATHING AIR systems like in asbestos removal operations, spray paint systems, sandblasting operations and while cleaning of storage tanks, ESPs, reactors etc. In addition, Eto filters are also available to deliver clean gas to sterilisers to improve performance and reduce maintenance.




**FILTERS FOR CNG :**   filters are effective for both metering stations as well as on-vehicle applications to protect fuel system components and can be used both in low and high pressure ratings. Such filters help in maximising usage time, minimize maintenance costs and extend the life of the equipments/components. Housings can be of St. Steel or anodised aluminium. All aerosol contaminants in the 0.3 to 0.6 (CLS grade) and 0.01 (BQ grade) micron range will be removed. Oily water emulsion accumulates in the sump and can be drained off while solid dirt particles remain trapped on the surface of the fibres. Pressures can vary from 500 to 5000 psig.



**LOW AND HIGH PRESSURE COMPRESSED GAS FILTERS & SPECIALITY GAS FILTERS :**   filters are used for filtration of various types of gases including high purity gases, corrosive and cylinder gases. The system may consist of a pre-filter + final filter and finally an adsorbent cartridge filter to remove trace vapor components. Almost all hydrocarbons and common acidic gases (except HF) can be handled using the  J-series or  range of filters. Pressure can be upto 5000 psig. The MOC of housing is either CS or aluminium or St. Steel (or even Monel/Teflon) with suitable seals.  filter cartridges grade DX/DQ, BX/BQ are the most commonly used coalescing elements while grade CI (with either activated carbon or molecular sieve) is used as the adsorbent media for removal of almost all major hydrocarbons, aromatics, acidic gases etc. For removing solid contaminants prior to coalescing filters,  element grade 3P is ideal since it is resin impregnated and also water resistant.



**STEAM FILTERS :**  steam filters remove contaminants from steam in food processing and pharmaceutical applications. They comply with FDA regulations for food contact materials. The patented Grade SR filter element is rated for +98% efficiency for 0.1 microns. MOC is SS304 with capacities upto 2000lbs/hr and maximum pressure upto 125 psig. The filter cartridge is completely free of any impurities which could extract into the steam. These filters reduce condensate in steam and thereby odor and taste problems are minimized.



**LOW AND HIGH PRESSURE GAS & LIQUID SAMPLE FILTERS TO PROTECT ANALYSERS:** A wide range of **Parker** / **BALSTON** filters are available to protect analysers from sample impurities by removing solids and liquids from gases as well as for filtration of liquids. The elements are available in borosilicate glass microfibre (for gases) and in combination with PP (for liquids). Housings are available in a wide range of materials including SS316, Teflon, Monel, Pyrex bowls etc. for pressures upto 5000 psig and temperatures upto 200°C. Common applications are found in slipstream or bypass sampling, stack gas sampling and sampling liquid effluent streams, ambient air, high pressure condensate, water etc. for retention efficiencies upto 99.99% for 0.01 microns

**Parker** also offers filters for protection of VEHICLE EMISSION ANALYSERS for removal of solid particles, condensed water and oils. They are available for both petrol and diesel engines and can withstand the higher temperatures in the latter. Filtration efficiency is 93% for 0.1 micron particles.



**MEMBRANE FILTERS:** **BALSTON** Membrane filters are ideal for protection for GCs, mass spectrometers, O<sub>2</sub> and moisture analyzers. The series 98 Filters consist of an SS316 housing and a membrane filter supported by a sintered porous disk. The membrane allows molecules of gas to flow but traps even the smallest liquid particles. The membrane is extremely inert except to HF acid. It is hydrophobic and strong and durable. Max. operating pressure upto 1000 psig at 200°F and flow rates upto 10 LPM can be achieved. The A 98 Series combines a Coalescer pre-filter within the same membrane housing. Hence it protects the membrane without having a separate pre-filter. Coalesced droplets are continuously drained out while the particulates are trapped within the element.



**VACUUM PUMP INLET & EXHAUST FILTERS:** **BALSTON** provides inlet filters to protect vacuum pumps from damage by solids and liquids, while at the same time preventing loss of valuable or hazardous materials. This is done using a Grade 30 cartridge (90% for 0.1 micron). To prevent oil back streaming, Grade 102 adsorbent cartridge is used (99.999% for oil removal and 99.999% for 0.1 micron for solids). Housings can be of St. Steel or CS or aluminium.

The Exhaust filters help to remove extremely fine oil in droplet or mist form below 2 microns. Hence the pumps can discharge into clean work areas or outside, without causing pollution. The collected oil can be continuously drained and recycled back to the pump. Thus the flow resistance is reduced. The element grade 371H is a two-stage structure which minimizes the oil carry over and is resistant to all lubricants and to most chemicals found in vacuum pump exhaust. It combines a retention efficiency of 99.9% at 0.1 micron with a low flow resistance of less than 2 psid back pressure when saturated with oil at maximum flow rate. Housings can be of St. Steel (Hazardous) or CS (Non-Hazardous)



**MEMBRANE AIR DRYERS AND NITROGEN GENERATORS:** **Parker** / **BALSTON** range of driers use state-of-the-art membrane technology to generate bone dry air with constant pressure dew point of 0°C (or even -40°C) from any compressor. The output capacities can vary from 1 to 600 SCFM at pressure from 60 to 150 psig. Devoid of any refrigerant, it is eco-friendly and since there is no rotating part, power consumption is nil. The dryer can operate CONTINUOUSLY 24 x 7 ..... the only maintenance time required is 5 minutes to change the cartridge in the pre-filter ..... ONCE A YEAR !!

The **BALSTON** Nitrogen Generator is a non-cryogenic membrane based system capable of delivering continuous on-site nitrogen gas ..... again without the use of any electricity. Commercially sterile Nitrogen with purity levels upto 99.5% at dew points down to -50°C can be generated from a compressed air supply. It is ideal for a variety of applications like purging, blanketing, food processing and packaging, heat treatment processes etc.



**FILTERS FOR ALL TYPES OF LIQUIDS:** **Parker** / **BALSTON** range of filters for liquid filtration is so vast that it practically covers the entire gamut of general and highly specialised filtration solutions. The process filters can handle all types of acidic and alkaline liquids at varying operating and design parameters of flow/temperature/pressure etc. MOC of housing and cartridges are available in PP, PVDF, PTFE, acetates etc. to handle almost any liquid and so also the micron ratings ... both in the micronic and sub-micronic range.

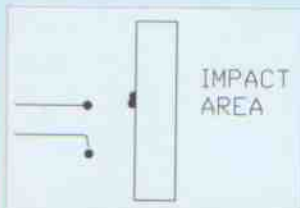
# ISO Standards for quality of Compressed Air (ISO8573-1)

Class	Solid		Water	Oil	Eg. 1 Solid 2 Water 1 Oil
	Max. Particle Size (microns)	Max. Conc. ppm (mg/m <sup>3</sup> )	Max. Pressure Dewpoint (°C)	Max. Conc. ppm (mg/m <sup>3</sup> )	
1	0.1	0.08 (0.1)	-70	0.008 (0.01)	(Solid) 0.1um Max. Particle size 0.08 ppm Max. concentration
2	1	0.8 (1)	-40	0.08 (0.1)	
3	5	4.2 (5)	-20	0.83 (1)	
4	15	6.7 (8)	+3	4.2 (5)	(Water) -40°C Dewpoint
5	40	8.3 (10)	+7	2.1 (25)	
6	-	-	+10	-	(Oil) 0.008 ppm max. concentration

## Three Mechanisms of Coalescing Process

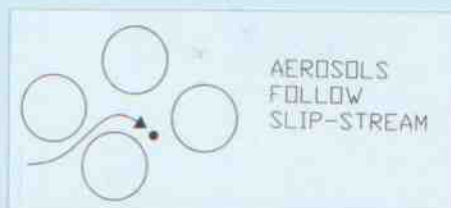
### INERTIAL OR DIRECT IMPACTION (> 2um)

Contaminants larger than 2um have sufficient mass and momentum to leave the air stream and collide with the filter media.



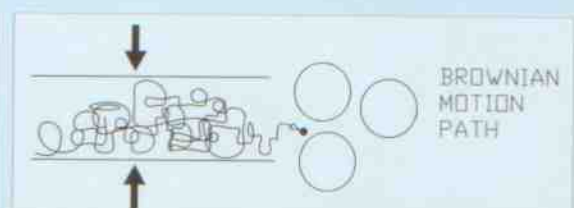
### DIRECT INTERCEPTION (0.2 to 2um)

For contaminants 0.2 to 2um size, interception is the main coalescing mechanism.



### DIFFUSION (0.001 to 0.2um)

Aerosols & solids in the range 0.001 to 0.2um are subject to rapid random Brownian motion causing to collide with exposed filter surface.



## Specifications for the imported elements

Grade	Micron Rating	Coalescing Efficiency	Max. Oil Carryover ppm w/w	Pressure Drop (psid) @ Rated Flow	
				Media Dry	Media Wet 10-20 wt. oil
4	0.01	99.995%	0.003	1.25	3.0 - 4.0
6	0.01	99.97%	0.008	1.00	2.0 - 3.0
7CVP	0.3 to 0.6	99.5%	0.09	0.25	0.5 - 0.7
3P	3.0	Absolute	na	0.25	na
AU	na	+99% for oil vapor removal	na	1.00	na
SA	0.01	> 99.9999%	na	2.00	na
BX	0.01	99.9999%	0.003	2.00	3.0 - 4.0
DX	0.01	99.99%	0.008	2.00	2.0 - 3.0

## Conversion Factors for capacities at Different Working Pressures

psig	29	43	57	71	85	100	114	128	142	156	171	185	199	213	228
barg	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Conv. Factor	0.38	0.50	0.63	0.75	0.87	1.00	1.12	1.24	1.37	1.49	1.62	1.74	1.86	1.99	2.12

## Notes regarding Selection chart on next page

- Flow rates in SCFM and (NM<sup>3</sup>/Hr) are given in first rows against each nozzle size.
- Second row gives the model no. of each filter assembly
- Third row indicates the no. of elements and element grade. In the case of the Act. Carbon Filter (Bed type), it shows the weight of the carbon bed.
- Housings can be of MS/CS or St. Steel
- In/Out are as per BSP (F) upto 1" and flanged as per ANSI 150# SORF for 1 1/2" and above.
- Standard MS units are designed for 13 barg and hydrostatically tested to 20 barg.

# General Selection Chart for various filters based on Flow Rates @ 100 psig and for different type of filter elements

In/Out (mm NB)	Porous Ceramic Element	Activated Carbon (bed type)	Coalescer Element Gr. 7CVP	Coalescer Element Gr. 6CU	Coalescer Element Gr. 4CU	Coalescer Element Gr. DX	Coalescer Element Gr. BX	Activated Carbon Element Gr. AU	Interceptor Element Gr. 3PU
15	25 (43)	25 (43)	-	25 (43)	38 (65)	63 (107)	25 (43)	25 (43)	42 (71)
	65/15-1 DPF	150/15-5C	-	65/15-1-6CU-10-050	65/15-1-4CU-10-050	65/15-1-100-12-DX	65/15-1-100-12-BX	65/15-1-AU-10-025	65/15-1-3PU-10-025
	1 x 50/20 x 135L	5 kgs. AC 4/8 mesh	-	1 x 10-050	1 x 10-050	1 x 100-12	1 x 100-12	1 x 10-025	1 x 10-025
20	45 (77)	45 (77)	-	30 (138)	61 (104)	259 (440)	70 (119)	80 (136)	133 (226)
	80/20-1L DPF	150/20-10C	-	80/20-1-6CU-15-060	80/20-1-4CU-15-060	80/20-1-150-19-DX	80/20-1-150-19-BX	80/20-1-AU-15-060	80/20-1-3PU-15-060
	1 x 50/25 x 250L	10kgs. AC 4/8 mesh	-	1 x 15-060	1 x 15-060	1 x 150-19	1 x 150-19	1 x 15-060	1 x 15-060
25	110 (187)	110 (187)	-	100 (170)	76 (129)	380 (646)	77 (131)	100 (170)	166 (282)
	100/25-1 DPF	250/25-30C	-	80/25-1-6CU-15-060	80/25-1-4CU-15-060	80/25-1-150-19-DX	80/25-1-150-19-BX	80/25-1-AU-15-060	80/25-1-3PU-15-060
	1 x 70/40 x 500L	30kgs. AC 4/8 mesh	-	1 x 15-060	1 x 15-060	1 x 150-19	1 x 150-19	1 x 15-060	1 x 15-060
25	110 (187)	110 (187)	-	140 (238)	106 (180)	380 (646)	77 (131)	140 (238)	232 (394)
	100/25-1 DPF	250/25-30C	-	80/25-1-6CU-15-095	80/25-1-4CU-15-095	80/25-1-150-19-DX	80/25-1-150-19-BX	80/25-1-AU-15-095	80/25-1-3PU-15-095
	1 x 70/40 x 500L	30kgs. AC 4/8 mesh	-	1 x 15-095	1 x 15-095	1 x 150-19	1 x 150-19	1 x 15-095	1 x 15-095
40	220 (374)	220 (374)	600 (1020)	350 (595)	260 (442)	670 (1139)	155 (263)	350 (595)	600 (1020)
	125/40-2 DPF	350/40-50C	125/40-1-7CVP-25-130	125/40-1-6CU-25-130	125/40-1-4CU-25-130	125/40-1-200-35-DX	125/40-1-200-35-BX	125/40-1-AU-25-130	125/40-1-3PU-25-130
	2 x 70/40 x 500L	50kgs. AC 4/8 mesh	1 x 25-130	1 x 25-130	1 x 25-130	1 x 200-35	1 x 200-35	1 x 25-130	1 x 25-130
50	440 (748)	440 (748)	730 (1275)	450 (765)	340 (578)	1100 (1870)	310 (527)	450 (765)	750 (1275)
	200/50-4 DPF	350/50-80C	125/50-1-7CVP-25-187	125/50-1-6CU-25-187	125/50-1-4CU-25-187	125/50-1-200-80-DX	125/50-1-200-80-BX	125/50-1-AU-25-187	125/50-1-3PU-25-187
	4 x 70/40 x 500L	80kgs. AC 4/8 mesh	1 x 25-187	1 x 25-187	1 x 25-187	1 x 200-80	1 x 200-80	1 x 25-187	1 x 25-187
50	550 (935)	550 (935)	1035 (1780)	625 (1063)	470 (799)	1160 (1870)	620 (1024)	625 (1063)	1035 (1780)
	250/50-5 DPF	400/50-90C	125/50-1-7CVP-25-235	125/50-1-6CU-25-235	125/50-1-4CU-25-235	125/50-1-200-80-DX	200/50-2-200-80-BX	125/50-1-AU-25-235	125/50-1-3PU-25-235
	5 x 70/40 x 500L	90kgs. AC 4/8 mesh	1 x 25-235	1 x 25-235	1 x 25-235	1 x 200-80	2 x 200-80	1 x 25-235	1 x 25-235
65	660 (1122)	660 (1122)	1330 (2261)	800 (1360)	600 (1020)	1100 (1870)	620 (1024)	800 (1360)	1330 (2261)
	250/65-6 DPF	450/65-110C	150/65-1-7CVP-35-280	150/65-1-6CU-35-280	150/65-1-4CU-35-280	125/65-1-200-80-DX	200/65-2-200-80-BX	150/65-1-AU-35-280	150/65-1-3PU-35-280
	6 x 70/40 x 500L	110kgs. AC 4/8 mesh	1 x 35-280	1 x 35-280	1 x 35-280	2 x 200-80	2 x 200-80	1 x 35-280	1 x 35-280
80	880 (1496)	880 (1496)	1660 (2822)	1000 (1700)	750 (1275)	2500 (4250)	930 (1561)	1000 (1700)	1660 (2822)
	300/80-8 DPF	500/80-150C	150/80-1-7CVP-35-280	150/80-1-6CU-35-280	150/80-1-4CU-35-280	200/80-2-200-80-DX	250/80-3-200-80-BX	150/80-1-AU-35-280	150/80-1-3PU-35-280
	8 x 70/40 x 500L	150 kgs. AC 4/8 mesh	1 x 35-280	1 x 35-280	1 x 35-280	2 x 200-80	3 x 200-80	1 x 35-280	1 x 35-280
80	1100 (1870)	1100 (1870)	2490 (4230)	1500 (2540)	1500 (2540)	2500 (4250)	1240 (2108)	1500 (2540)	2490 (4230)
	250/80-10 DPF	600/80-200C	200/80-1-7CVP-51-280	200/80-1-6CU-51-280	250/80-2-4CU-35-280	200/80-2-200-80-DX	250/80-4-200-80-BX	200/80-1-AU-51-280	200/80-1-3PU-51-280
	10 x 70/40 x 500L	200kgs. AC 4/8 mesh	1 x 51-280	1 x 51-280	2 x 35-280	2 x 200-80	4 x 200-80	1 x 51-280	1 x 51-280
100	1760 (2992)	1760 (2992)	3320 (5640)	2000 (3380)	2250 (3825)	5100 (8670)	1860 (3162)	2000 (3380)	3320 (5640)
	300/100-16 DPF	700/100-300C	300/100-1-7CVP-85-250	300/100-1-6CU-85-250	300/100-3-4CU-35-280	300/100-4-200-80-DX	400/100-6-200-80-BX	300/100-1-AU-85-250	300/100-1-3PU-85-250
	16 x 70/40 x 500L	300kgs. AC 4/8 mesh	1 x 85-250	1 x 85-250	3 x 35-280	4 x 200-80	6 x 200-80	1 x 85-250	1 x 85-250
100	2200 (3740)	2200 (3740)	3320 (5640)	2000 (3380)	2250 (3825)	5100 (8670)	2480 (4216)	2000 (3380)	3320 (5640)
	350/100-20 DPF	750/100-350 C	300/100-1-7CVP-85-250	300/100-1-6CU-85-250	300/100-3-4CU-35-280	300/100-4-200-80-DX	300/100-8-200-80-BX	300/100-1-AU-85-250	300/100-1-3PU-85-250
	20 x 70/40 x 500L	350 kgs. AC 4/8 mesh	1 x 85-250	1 x 85-250	3 x 35-280	4 x 200-80	8 x 200-80	1 x 85-250	1 x 85-250
150	2860 (4862)	2860 (4862)	4980 (8460)	3000 (5090)	3000 (5100)	10300 (17510)	3100 (5270)	3000 (5090)	4980 (8460)
	400/150-26 DPF	800/150-410 C	300/150-1-7CVP-85-360	300/150-1-6CU-85-360	300/150-4-4CU-35-280	400/150-8-200-80-DX	450/150-10-200-80-BX	300/150-1-AU-85-360	300/150-1-3PU-85-360
	26 x 70/40 x 500L	410kgs. AC 4/8 mesh	1 x 85-360	1 x 85-360	4 x 35-280	8 x 200-80	10 x 200-80	1 x 85-360	1 x 85-360
150	4840 (8228)	4840 (8228)	4980 (8460)	4500 (7650)	5250 (8925)	10300 (17510)	4960 (8432)	4500 (7650)	4980 (8460)
	500/150-44 DPF	1000/150-750C	300/150-1-7CVP-85-360	400/150-3-6CU-35-280	400/150-7-4CU-35-280	400/150-8-200-80-DX	550/150-16-200-80-BX	500/150-1-3PU-85-360	300/150-1-3PU-85-360
	44 x 70/40 x 500L	750kgs. AC 4/8 mesh	1 x 85-360	7 x 35-280	7 x 35-280	8 x 200-80	16 x 200-80	3 x 51-280	1 x 85-360
200	6820 (11594)	6820 (11594)	9960 (16920)	6000 (10190)	7500 (12750)	18000 (30600)	6820 (11594)	6000 (10190)	9960 (16920)
	600/200-62 DPF	1200/200-1050C	500/200-4-7CVP-51-280	500/200-4-6CU-51-280	400/200-10-4CU-35-280	500/200-14-200-80-DX	600/200-22-200-80-BX	500/200-4-AU-51-280	500/200-4-3PU-51-280
	62 x 70/40 x 500L	1050 kgs. AC 4/8 mesh	4 x 51-280	4 x 51-280	10 x 35-280	14 x 200-80	22 x 200-80	4 x 51-280	4 x 51-280
250	10560 (17952)	10560 (17952)	17430 (29610)	10500 (17830)	11250 (19125)	28000 (47000)	11160 (18972)	10500 (17830)	17430 (29610)
	700/250-96 DPF	1300/250-1500C	600/250-7-7CVP-51-280	600/250-7-6CU-51-280	500/250-15-4CU-35-280	600/250-22-200-80-DX	750/250-36-200-80-BX	600/250-7-AU-51-280	600/250-7-3PU-51-280
	96 x 70/40 x 500L	1500kgs. AC 4/8 mesh	7 x 51-280	7 x 51-280	15 x 35-280	22 x 200-80	36 x 200-80	7 x 51-280	7 x 51-280