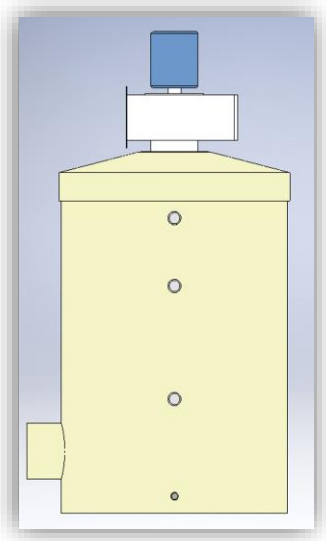
Data Sheet

Product : Activated carbon Filter

Models : 869



Syannlab Solutions Pvt. Ltd.

No. 698, 1st Floor, 5th Block, SMV Layout Ullalu
Upanagara, Bengaluru – 560056
Ph +91 9591 989760
info@syannlab.com, www.syannlab.com

Brief Description

Activated carbon filters are remarkable tools in air purification, working tirelessly to remove fumes, contaminants and odors. These filters use a bed of activated carbon to trap harmful chemicals and pollutants, thanks to their high surface area. They're effective in adsorbing chemicals, volatile organic compounds (VOCs), gases, and unpleasant odors, making them an ideal choice for improving indoor air quality in homes, offices, laboratories and industrial exhausts. With their ability to reduce exposure to allergens and toxins, activated carbon filters contribute significantly to a healthier and more pleasant living environment.

Functionality : Effective adsorption of VOCs, gases and odors.
Applications : office, laboratories and industrial air purification.
Benefits : Enhances air quality and reduces exposure to harmful contaminants.
Ranges : Odor & Ammonia, Jet & Diesel Exhaust, Kitchen Odor & Smoke, Outdoor Pollution & Corrosion

Construction:

These devices are made from high-grade, ultraviolet (UV) treated homopolymer polypropylene with high-quality craftsmanship during manufacturing. One of the advantages of these devices is that they do not obstruct much in the passage of air. This means that they can operate efficiently and quietly, without causing much pressure drop or turbulence. These devices are suitable for applications that require high static, high airflow rates and low noise levels.

Molecular Media:

Our Media spherical, porous pellets are comprised of different chemical compounds and materials with unique properties for air filtration. We remove gaseous pollutants from the air through a unique chemical process known as chemisorption. During chemisorption, molecular contaminants are turned into harmless solids that are trapped inside the pellet. This process is instantaneous, irreversible and able to remove contaminants too small for traditional filtration

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Technical Details

Construction Data:

- Material of Construction: Polypropylene Homopolymer UV Treated
- Type of Weld: Hot Air with PP rod
- Connection type: Sleeves and Flanges
- Seals, Axles and Bushes: Polypropylene
- Clamping base: Polypropylene
- Hardware: Stainless Steel
- Demister: PP demister pad of 200mm thick
- Inspection: Ports Provided (Ø32 to Ø75mm)
- Media: Molecular Active Carbon media, Blended & Customised
- Media chamber: Replaceable media type
- Blower: PP with 3ph heavy duty motor

Performance Data:

- Velocity: Up to 10 m/s
- Max. Working Pressure: 3000 Pa
- Service Temperature: 0-120°deg (long term)
- Service Temperature: 0-150°deg (short term)
- Vicat B Temperature: 90°Deg
- Airflow Capacity : 500 t0 3000 CHM
- Leak rating: less than 1%
- Body Shore D Hardness: > 70

Removal Capacity	Carb	Blend	SP
Contaminant Gas	**g / cc & wt %**	**g / cc & wt %**	**g / cc & wt %**
Hydrogen Sulfide (H2S)	0.1440 & 20.0		0.1120 & 14.0
Sulfur Dioxide (SO2)	0.0720 & 10.0	0.052 & 8.13	0.0560 & 7.0
Chlorine (CI2)	0.0720 & 10.0		
Nitric Oxide (NO)	0.0187 & 2.6		0.0645 & 8.63
Toluene (C6-H5-CH3)		0.0792 & 12.38	
Nitrogen Dioxide (NO2)		0.1434 & 22.41	0.2229 & 31.85
Formaldehyde (HCHO)			0.020 & 4.0

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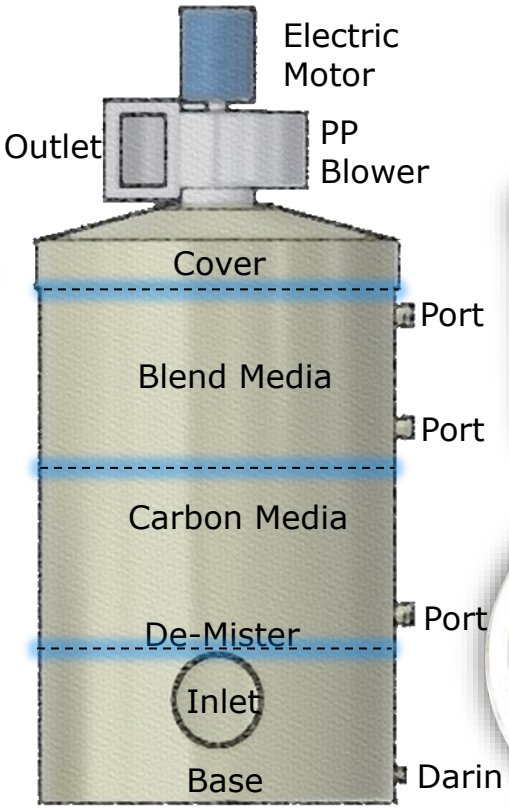
Dimensional Data

Cylindrical Type Filter				
Sl No	Model	Body Diameter (mm)	Airflow Volume (cmh)	Static Loss ~ (pa) *
1	DS-0800	800	500 - 1000	800
2	DS-1000	1000	800 - 1500	900
3	DS-1250	1250	1000 - 1800	950
4	DS-1500	1500	1500 - 2500	1000
5	DS-1800	1800	2000 - 3000	1100
6	DS-2000	2000	2500 - 4000	1250

Media (Card, Blend & SP)		
Parameter	Unit	Value
Temp	°C	-20 to 51
RH	%	10 to 95
Air Speed	m/s	0.3 to 2.5
Performance	%	Upto 99.5
Density	gm/cc	0.8



* As tested in laboratory. All sizes are in mm, air volume in CMH

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x.com/syannlab
+91 95919 89760

869-ABCD-11

Model No 869
Size Diameter
Connection 0-Sleeve 1-Flange

Please scan for real time working video.

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