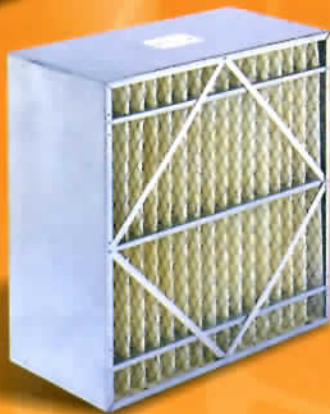


Rigid Actifil air filter

Medium and High Efficiency Synthetic/Gas Adsorption Media for HVAC Application



H ACTIFIL[®] AIR FILTER

ACTIFIL®

DESCRIPTION

Rigid-Actifil extended surface media rigid filters are designed for use in most commercial or industrial HVAC systems where medium to high efficiency filtration and gas adsorption is required. Rigid-Actifil filters are available in two media types:

- Tribo-electric synthetic media for particulate filtration. Available efficiency ranges including 60~65%、80~85%、90~95%.
- Sorbent media for odors and gas removal from air flow. Rigid-Actifil is completely rigid in construction - assuring structural and performance integrity throughout its entire servicelife.

SPECIFICATION

Filter Media :

Rigid-Actifil filters are manufactured of coarse synthetic fibers and/or gas adsorption media formed into a pleated configuration. Its advantages include:

Coarse synthetic fibers media

- Tribo-electric filter media for medium to high particulate Filtration efficiency.
- High dust loading capacity.
- Extremely low resistance to air flow.
- Efficiency against dusts down to sub micron levels.
- Flexible for use in pleated process.

Gas adsorption Carbon media

- High airborne contamination removal efficiency.
- Low pressure drop.
- Virtually no dusting.
- Options available for improved removal of acid gases, base gases, or other specified gases.

Fram: 0.6 mm galvanized steel.

Media support: The filter's media shall be bonded to the welded wire grid with metal-finger pleat separators on both sides of the media pack.

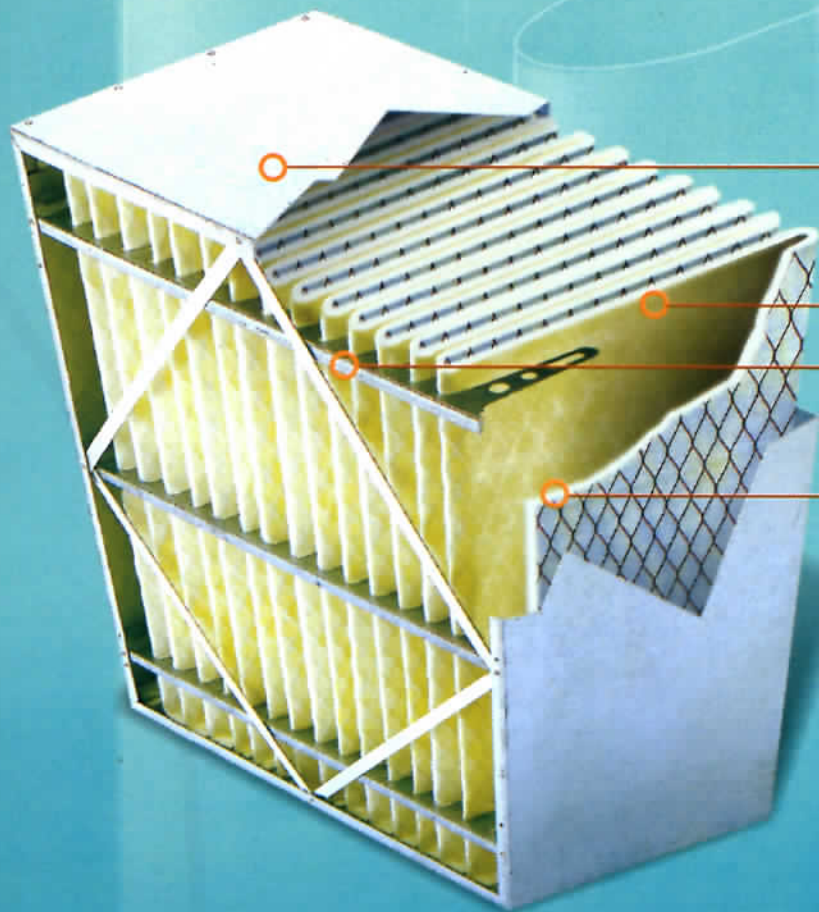
Header: 7/8" wide , 0.6mm galvanized steel.

Actual Header or Box filter Face size: Nominal size less 5/8" (e.g. a nominal 24" x 24" filter is actually)

Actual Depth: 1/2" or 1 1/2" (140mm or 292mm)

IMPORTANT FEATURES

- Rugged galvanized steel casing minimizes damage during shipping and handling.
- Media is held in position by upstream and downstream metal-finger pleat supports.
- Electret media can be laminated to carbon media for dust/gas filtration.
- Filters are available with or without header.
- Filters are completely rigid.

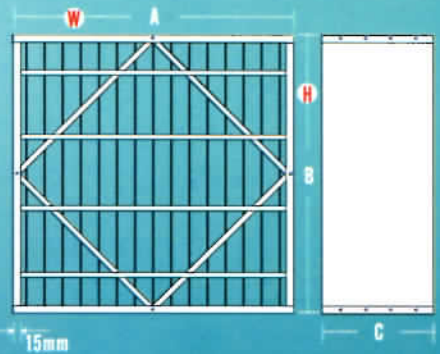


GALVANIZED STEEL HOUSING

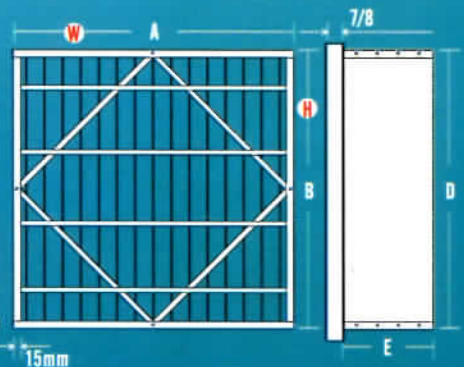
TRIBO ELECTRIC MEDIA. (ACTIVATED CARBON MEDIA)

METAL FINGER

GALVANIZED STEEL EXPANDED WIRE SUPPORT

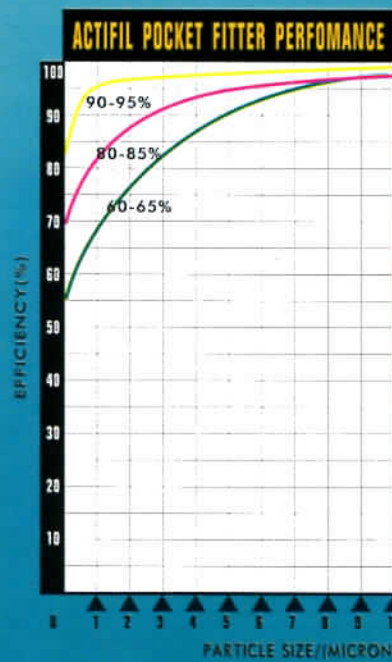


| Nominal Size | Actual (A) | Actual (B) | Actual (C) |
|--------------|------------|------------|------------|
| 12x24x12 | 289 | 594 | 292 |
| 24x24x12 | 594 | 594 | 292 |
| 12x24x6 | 289 | 594 | 140 |
| 24x24x6 | 594 | 594 | 140 |



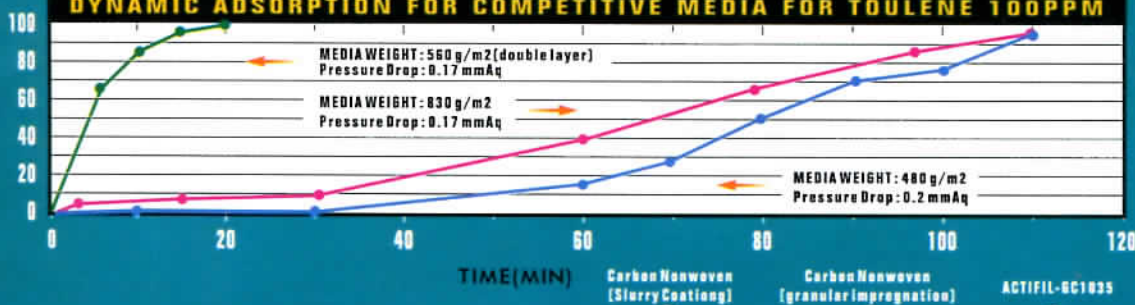
| Nominal Size | Actual (A) | Actual (B) | Actual (C) | Actual (D) | Actual (E) |
|--------------|------------|------------|------------|------------|------------|
| 12x24x12 | 289 | 594 | 249 | 554 | 292 |
| 24x24x10 | 594 | 594 | 554 | 554 | 292 |
| 12x24x6 | 289 | 594 | 249 | 554 | 140 |
| 24x24x6 | 594 | 594 | 554 | 554 | 140 |

| MEDIA COLOR | AVERAGE EFFICIENCY | AVERAGE ARRESTANCE |
|-------------|--------------------|--------------------|
| YELLOW | 90-95% | 99% |
| PINK | 80-85% | 98% |
| GREEN | 60-65% | 97% |



ACTIVATED CARBON MEDIA EFFICIENCY

DYNAMIC ADSORPTION FOR COMPETITIVE MEDIA FOR TOULENE 100PPM



Testing condition as follows:

Rh% : 80%
Temp: 32°C
Airflow rate : 0.0005 m³/s (1cfm)
Media area : 0.0113m²

DIMENSIONS AND PERFORMANCE DATA

No-Header type :

| Efficiency (%) | Nominal Size (inches) | | | Capacity (CFM) | Pressure Drop (in. W.G.) | | Media Area (ft ²) |
|----------------|-----------------------|--------|-------|----------------|--------------------------|-------|-------------------------------|
| | Width | Height | Depth | | Initial | Final | |
| 90%~95% | 12 | 24 | 12 | 1000 | 0.63 | 1.5 | 28 |
| | 24 | 24 | 12 | 2000 | 0.63 | | 58 |
| | 12 | 24 | 6 | 600 | 0.52 | | 14 |
| | 24 | 24 | 6 | 1200 | 0.52 | | 29 |
| 80%~85% | 12 | 24 | 12 | 1000 | 0.46 | 1.5 | 28 |
| | 24 | 24 | 12 | 2000 | 0.46 | | 58 |
| | 12 | 24 | 6 | 600 | 0.37 | | 14 |
| | 24 | 24 | 6 | 1200 | 0.37 | | 29 |
| 60%~65% | 12 | 24 | 12 | 1000 | 0.27 | 1.5 | 28 |
| | 24 | 24 | 12 | 2000 | 0.27 | | 58 |
| | 12 | 24 | 6 | 750 | 0.29 | | 14 |
| | 24 | 24 | 6 | 1500 | 0.29 | | 29 |

Single-Header type :

| Efficiency (%) | Nominal Size (inches) | | | Capacity (CFM) | Pressure Drop (in. W.G.) | | Media Area (ft ²) |
|----------------|-----------------------|--------|-------|----------------|--------------------------|-------|-------------------------------|
| | Width | Height | Depth | | Initial | Final | |
| 90%~95% | 12 | 24 | 12 | 1000 | 0.68 | 1.5 | 22 |
| | 24 | 24 | 12 | 2000 | 0.68 | | 50 |
| | 12 | 24 | 6 | 600 | 0.55 | | 11 |
| | 24 | 24 | 6 | 1200 | 0.55 | | 25 |
| 80%~85% | 12 | 24 | 12 | 1000 | 0.48 | 1.5 | 22 |
| | 24 | 24 | 12 | 2000 | 0.48 | | 50 |
| | 12 | 24 | 6 | 600 | 0.41 | | 11 |
| | 24 | 24 | 6 | 1200 | 0.41 | | 25 |
| 60%~65% | 12 | 24 | 12 | 1000 | 0.33 | 1.5 | 22 |
| | 24 | 24 | 12 | 2000 | 0.33 | | 50 |
| | 12 | 24 | 6 | 750 | 0.35 | | 11 |
| | 24 | 24 | 6 | 1500 | 0.35 | | 25 |

Gas Adsorption Carbon Filter

| Nominal Size WxHxD | Capacity (CFM) | Pressure Drop (in. W.G.) | | Media Area (ft ²) | Media Weight Per Filter (kg) |
|-----------------------|-------------------|-----------------------------|-------|----------------------------------|------------------------------------|
| | | Initial | Final | | |
| 12 x 24 x 12 | 1000 | 0.61 | 1.5 | 28 | 2.0 |
| 24 x 24 x 12 | 2000 | 0.61 | 1.5 | 58 | 4.5 |

○ maximum recommended resistance : System Design may indicate a lower change-out point.

○○ Special size are available request.



MANUFACTURER :

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