



# CF INDUSTRIAL

ACTIVATED CARBON FILTERS

Products Catalogue

## Clean Air, Activated Carbon Solutions



[www.cf-industrial.nl](http://www.cf-industrial.nl)



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+31 183 600777



## CAN 1500/2600/9000 PLASTIC SERIES

The CFI PLASTIC series CAN cylinders are the most commonly used plastic filter element for the removal of gaseous contaminants. Contains no metal parts and is therefore fully combustible and suitable for hazardous airflows

- Corrosion-free solution for air purification.
- Interchangeable with all common brands.
- A bayonet closure ensures 100% leak-free filtration.
- Available with virtually any type of filter media.

Clean Air, Activated Carbon Solutions



|                                      | CAN 1500PL  | CAN 2600PL             | CAN 9000PL             |
|--------------------------------------|---|------------------------|------------------------|
| Material                             | Plastic   |                        |                        |
| Size (diameter x height)             | 145 x 260 mm  | 145 x 460 mm           | 145 x 615 mm           |
| Weight carbon*                       | 1,3 kg  | 2,3 kg                 | 3,1 kg                 |
| Bed depth                            | 26 mm   |                        |                        |
| Connection                           | Leak-free bayonet closure   |                        |                        |
| Filter media                         | Activated carbon / impregnated activated carbon / impregnated aluminium oxide |                        |                        |
| Recommended Airflow per 16 cylinders | 1200 m <sup>3</sup> /h  | 2500 m <sup>3</sup> /h | 3200 m <sup>3</sup> /h |
| Contact time at recommended airflow  | 0,1 sec   | 0,1 sec                | 0,1 sec                |

\*Based on standard activated carbon (CKV-3)

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## CAN 1500/2600/9000 METAL SERIES

The CFI series CAN cylinders are the most commonly used filter element for the removal of gaseous contaminants.

- Robust compact solution for air purification.
- Interchangeable with all common brands.
- A bayonet closure ensures 100% bypass-free filtration.
- Available with virtually any type of filter media.

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|   | CAN 1500  | CAN 2600               | CAN 9000               |
|---|---|------------------------|------------------------|
| <b>Material</b>                             | Galvanized steel or Stainless steel   |                        |                        |
| <b>Size (diameter x height)</b>             | 145 x 250 mm  | 145 x 450 mm           | 145 x 600 mm           |
| <b>Weight carbon*</b>                       | 1,3 kg  | 2,3 kg                 | 3,1 kg                 |
| <b>Bed depth</b>                            | 26 mm   |                        |                        |
| <b>Connection</b>                           | Leak-free bayonet closure   |                        |                        |
| <b>Filter media</b>                         | Activated carbon / impregnated activated carbon / impregnated aluminium oxide |                        |                        |
| <b>Recommended airflow per 16 cylinders</b> | 1200 m <sup>3</sup> /h  | 2500 m <sup>3</sup> /h | 3200 m <sup>3</sup> /h |
| <b>Contact time at recommended airflow</b>  | 0,1 sec   | 0,1 sec                | 0,1 sec                |

\*Based on standard activated carbon (CKV-3)

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## CAN 4000/4100 METAL SERIES

The CAN 4000 and 4100 are developed to replace certain non-standard cylinders. The CFI series CAN cylinders are the most commonly used filter element for the removal of gaseous contaminants.

- Robust compact solution for air purification.
- A bayonet closure ensures 100% bypass-free filtration.
- Available with virtually any type of filter media.

Clean Air, Activated Carbon Solutions



|                                     | CAN 4000  | CAN 4100              |
|-------------------------------------|---|-----------------------|
| Material                            | Galvanized steel or Stainless steel   |                       |
| Size (diameter x height)            | 140 mm x 400 mm   | 165 mm x 410 mm       |
| Weight carbon*                      | 2,3 kg  | 3,0 kg                |
| Bed depth                           | 35 mm   |                       |
| Connection                          | Leak-free bayonet closure   |                       |
| Filter media                        | Activated carbon / impregnated activated carbon / impregnated aluminium oxide |                       |
| Recommended airflow per cylinder    | 175 m <sup>3</sup> /h   | 200 m <sup>3</sup> /h |
| Contact time at recommended airflow | 0,1 sec   | 0,1 sec               |

\*Based on standard activated carbon (CKV-3)

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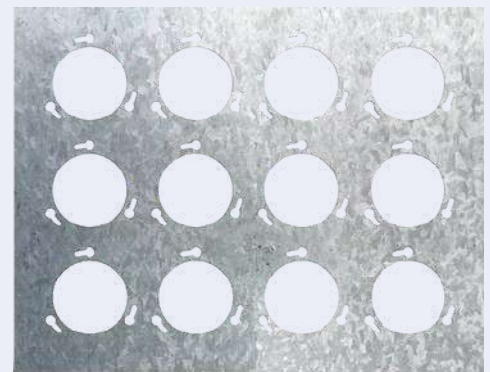
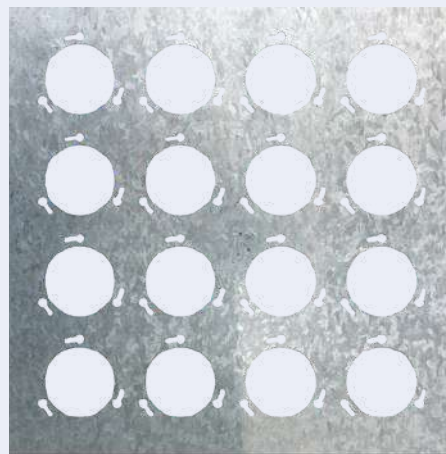
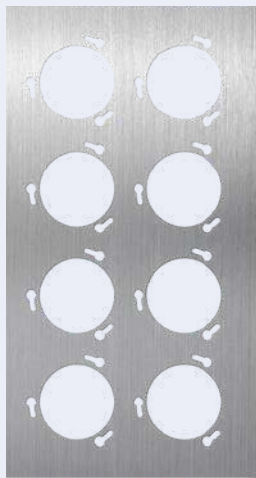
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# CF INDUSTRIAL HOLDING FRAMES

Clean Air, Activated Carbon Solutions



|            | Amount of filters | Dimensions (mm) |
|------------|-------------------|-----------------|
| <b>G4</b>  | 4 filters         | 305x305x70      |
| <b>G8</b>  | 8 filters         | 610x305x70      |
| <b>G12</b> | 12 filters        | 610x505x70      |
| <b>G16</b> | 16 filters        | 610x610x70      |

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## CFI IN-LINE FILTER

The In-line filters are a solution for situations where no filter boxes are available. This filter can be placed directly in a pipe, so that air purification can be added quickly and easily to an existing situation.

- Compact all in one solution.
- Extended range.
- Galvanised steel construction.
- Available with almost any type of filter media.

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| Filter type  | Dimensions (mm) | Weight carbon (kg)* | Total weight (kg)* | Bed depth (mm) | Rec. airflow (m³/h) | Flange options |
|--------------|-----------------|---------------------|--------------------|----------------|---------------------|----------------|
| IN-LINE 3000 | 1100x500        | 14,3                | 40,5               | 50             | 1900                | 315            |
| IN-LINE 2500 | 1100x450        | 12,2                | 34,5               | 50             | 1700                | 250/315        |
| IN-LINE 1500 | 870x400         | 7,6                 | 24                 | 50             | 1000                | 250/200        |
| IN-LINE 1000 | 620x350         | 5,1                 | 17                 | 50             | 700                 | 250/200        |
| IN-LINE 600  | 600x300         | 2,2                 | 10                 | 35             | 300                 | 125/150/160    |
| IN-LINE 425  | 725x300         | 1,9                 | 12                 | 25             | 200                 | 100/125        |
| IN-LINE 300  | 565x300         | 1,8                 | 10                 | 25             | 156                 | 100/125        |
| IN-LINE 150  | 370x300         | 1,2                 | 8                  | 25             | 75                  | 100/125        |



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## CFI ORIGINALS (XL)

The CFI Original series offers a heavy duty cylinder with a thicker filter bed and a longer contact time than other cylinders. The filter can be used as a stand-alone filter or with multiple filters in a housing or container. We are happy to give advice for this.

- 65 mm deep filter bed for longer contact time.
- Extensive range of 8 different sizes.
- Optionally available with pre-filter.
- Can be filled with any type of filter media.

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| Filter type | Dimensions (mm) | Total weight (kg)* | weight carbon (kg)* | Bed depth (mm) | Rec. airflow (m <sup>3</sup> /h) | Flange options  |
|-------------|-----------------|--------------------|---------------------|----------------|----------------------------------|-----------------|
| CFI-150     | 1500x400        | 77,5               | 52,5                | 65             | 2100 m <sup>3</sup> /h           | 200/250/315     |
| CFI-125     | 1250x400        | 63,5               | 43,5                | 65             | 1700                             | 200/250/315     |
| CFI-100     | 1000x400        | 52,0               | 35,0                | 65             | 1400                             | 200/250/315     |
| CFI-375     | 750x400         | 40,0               | 26,0                | 65             | 1000                             | 200/250/315     |
| CFI-350     | 500x400         | 27,5               | 17,5                | 65             | 713                              | 160/200/250/315 |
| CFI-366     | 660x300         | 22,0               | 13,0                | 50             | 700                              | 150/160/200     |
| CFI-333     | 330x300         | 11,5               | 6,5                 | 50             | 350                              | 150/160/200     |
| CFI-250     | 350x200         | 8,5                | 6,5                 | 35             | 250                              | 125             |



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## CFI DRUM FILTER

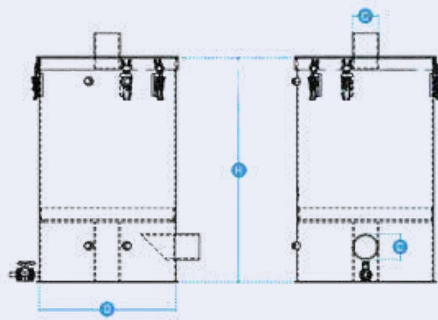
In odour applications, the gas concentrations can be high. To remove these high concentrations, extra contact time is necessary. CFI drum filter can provide these longer contact times.

- Simple design ensures easy installation.
- Fillable with any type of carbon or chemical media.
- Small footprint.
- Made of HDPE, which can resist acid gases.
- Optional demister removes droplets.

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|                           | CD-170                | CD-510                | CD-850                | CD-1700                |
|---------------------------|-----------------------|-----------------------|-----------------------|------------------------|
| <b>Diameter (D)</b>       | 570 mm                | 790 mm                | 915 mm                | 1325 mm                |
| <b>Height (H)</b>         | 915 mm                | 1220 mm               | 1220 mm               | 1525 mm                |
| <b>Airflow</b>            | 170 m <sup>3</sup> /h | 510 m <sup>3</sup> /h | 850 m <sup>3</sup> /h | 1700 m <sup>3</sup> /h |
| <b>Media volume</b>       | 0,14 m <sup>3</sup>   | 0,28 m <sup>3</sup>   | 0,47 m <sup>3</sup>   | 1,09 m <sup>3</sup>    |
| <b>In- and Outlet (C)</b> | 100 mm                | 150 mm                | 200 mm                | 250 mm                 |



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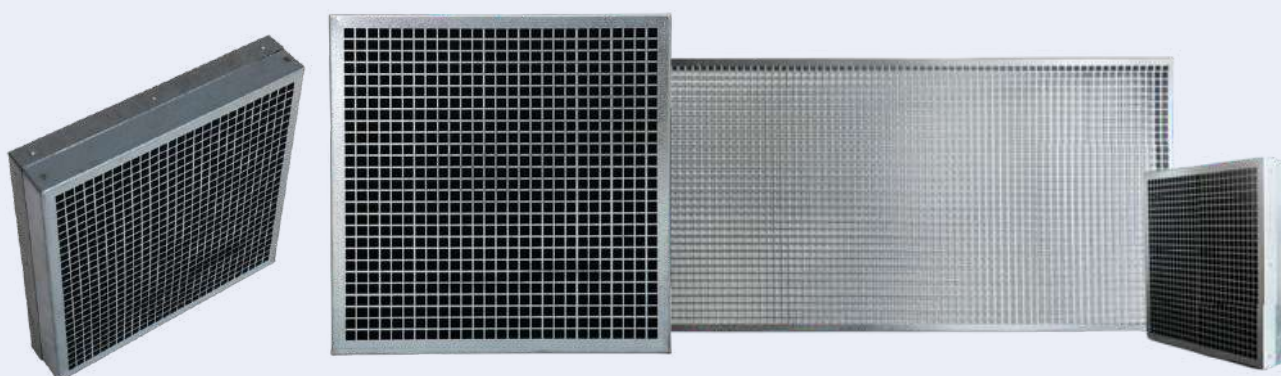


## CFI FILTER PANEL LOOSE FILL (LF)

The CFI filter panels are robust and form-retaining and are the ideal compact solution for removing gaseous contaminants. Made from galvanized steel as standard, they can be made in any desired size. Larger panels can be provided with a so-called diamond reinforcement to prevent bulging of the larger surfaces. The filter is on the inside of both sides fitted with filter cloth.

Clean Air, Activated Carbon Solutions

|              |  |
|--------------|--|
| Material     | Galvanized steel or Stainless steel  |
| Perforation  | 10 x 10 mm   |
| Filter cloth | Black, filter class G3   |
| Filter media | Activated carbon / impregnated activated carbon /<br>impregnated aluminium oxide |



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## CFI FILTER PANEL HONEY COMB (HC)

In addition to the familiar filter panels with loose fill activated carbon, there is now also the CFI filter panel Honey Comb (HC). This panel is made with extruded activated carbon in the shape of a honeycomb. As a result, the pressure drop is very low and the air speed over the filter can be as high as 2,5 m/s. All this with a highly acceptable removal efficiency. Ideal when only little space is available.

### Clean Air, Activated Carbon Solutions

|              |                                     |
|--------------|-------------------------------------|
| Material     | Galvanized steel or Stainless steel |
| Perforation  | 10 x 10 mm                          |
| Filter cloth | Black, filter class G3              |
| Filter media | Extruded honeycomb activated carbon |

| Dimensions (mm) | Carbon weight (kg) | Air speed (m/s) | Airflow (m <sup>3</sup> /h) | Pressure drop (Pa) |
|-----------------|--------------------|-----------------|-----------------------------|--------------------|
| 595x595x48      | 4,5                | 2,5             | 3400                        | 70                 |
| 595x287x48      | 2,1                | 2,5             | 1700                        | 70                 |
| 287x287x48      | 0,95               | 2,5             | 850                         | 70                 |



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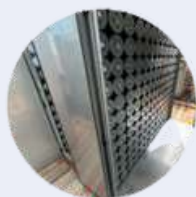
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## COMPRESSOR INTAKE FILTER

With large oil free compressors, which are implemented in the industry for generation of compressed air, the quality of air going in is very important. The fact that poor air quality can shorten the lifetime of a compressor massively is often overlooked. Corrosion can play a big role in shortening this lifetime. Due to the presence of acid or base gasses in the incoming airstream, interior parts of the compressor can be affected by these gasses and start to corrode. Corrosion affects different parts of the compressor. The impellor is one sensitive place where corrosion can do real damage. This needs to be perfectly balanced, and due to corrosion this can start to vibrate until the bearings give in and the compressor breaks down. Not only does the compressor suffer from corrosion, also the components behind a compressor are at risk.

### Clean Air, Activated Carbon Solutions



| Airflow (m³/h) | Type | Internal size (mm) | Number of cylinders | Qty of Activated Carbon (kg)* |
|----------------|------|--------------------|---------------------|-------------------------------|
| 2800           | 1261 | 1220 x 610         | 32                  | 74                            |
| 4300           | 1291 | 1220 x 915         | 48                  | 110                           |
| 5700           | 1212 | 1220 x 1220        | 64                  | 147                           |
| 7200           | 1512 | 1525 x 1220        | 80                  | 184                           |
| 8600           | 1812 | 1830 x 1220        | 96                  | 221                           |
| 10000          | 2112 | 2135 x 1220        | 112                 | 258                           |
| 11500          | 2412 | 2440 x 1220        | 128                 | 294                           |
| 12900          | 1818 | 1830 x 1830        | 144                 | 331                           |
| 15000          | 2118 | 2135 x 1830        | 168                 | 386                           |

|                          |  |
|--------------------------|--|
| Face velocity (m/s)      | 1,06   |
| Minimum contact time (s) | 0,17*  |
| Pressure drop (pa)       | 50*  |
| Filter cartridges        | CAN2600 or other options                     |
| Material cartridges      | Galvanized steel / Plastic / Stainless steel |
| Filter connection        | Bayonet                                      |
| Bed depth (mm)           | 25*  |

\* Per filter stage

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## CONTAINER FILTER 20/10

With high concentrations of gasses, the deployment of a Container Filter from the Deep Bed Series is the perfect solution for removal of hazardous and contaminant gasses.

- Optimal consumption of media due to usage of cylindrical filters inside the container.
- Can be equipped with an overhead crane for placement of filter cartridges.
- Filters can be filled with any type and mix of adsorption media.

Clean Air, Activated Carbon Solutions

| Type                              | Container-20               | Container-10              |
|-----------------------------------|----------------------------|---------------------------|
| Dimensions container              | 6,06 x 2,44 x 2,59 m.      | 2,99 x 2,44 x 2,59 m      |
| Airflow                           | 20.000 m <sup>3</sup> /uur | 9.500 m <sup>3</sup> /uur |
| In- and outlet                    | DN800                      | DN600                     |
| Cylinder type                     | CFI-150 / Loose media      |                           |
| Dimensions cylinder               | Ø400 x 1500 mm             |                           |
| Prefiltration                     | Optional                   |                           |
| Amount of cylinders per container | 46                         | 22                        |
| Total media volume                | 4,8 m <sup>3</sup>         | 2,3 m <sup>3</sup>        |



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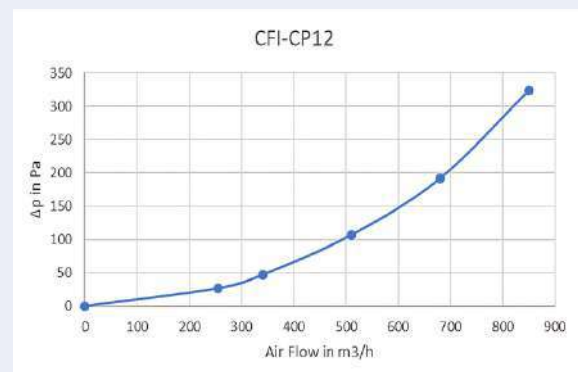
## CFI CP12 MODULE

The CP12 modules are used for eliminating corrosive, toxic and irritating gases and odors for light to medium industrial applications. The compact v-shaped design of the modules prevents bypass within the module at all times. Each set of modules includes two half-size modules for easier handling.

- Flat sides and tongue-and-groove notching ensure a tight seal without rubber sealing or glue, eliminating off-gassing.
- A special port simplifies media sampling.
- Meets industry standards for V-shape modules, can retrofit most gas phase filtration brands.

### Clean Air, Activated Carbon Solutions

|  |                              |
|--|------------------------------|
| <b>Material</b>                            | 100% recyclable plastic      |
| <b>Dimensions of modules (H x W x D)</b>   | 295 x 600 x 298 mm           |
| <b>Media volume per set</b>                | 28 liter                     |
| <b>Thickness of media bed</b>              | 75 mm                        |
| <b>Installation</b>                        | Side access and front access |
| <b>Media types</b>                         | All types and mixes          |
| <b>Recommended air flow per set</b>        | 850 m <sup>3</sup> /h        |
| <b>Contact time at 850 m<sup>3</sup>/h</b> | 0.12 sec                     |
| <b>Face velocity max.</b>                  | 1,25 m/s                     |
| <b>Pressure drop at 1,25 m/s</b>           | 299 Pa                       |



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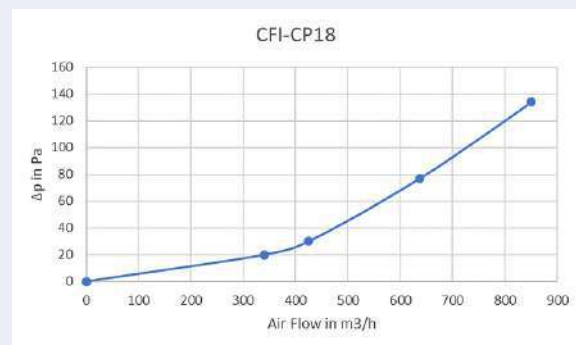
## CFI CP18 MODULE

The CP18 modules are used for light industrial and HVAC applications. The compact v-shaped design of the modules prevents bypass within the module at all times. Each set of modules consists of two half-size modules, making it easier to handle.

- Flat sides and tongue and groove module notching secures a tight seal between the modules. No rubber sealing or glue necessary means no off-gassing possible.
- A special sampling port makes media sampling even easier to do.
- The CP18 module meets the industry standard for V-shape modules. It can be used to retrofit most gas phase filtration brands.

### Clean Air, Activated Carbon Solutions

|                                       |                              |
|---------------------------------------|------------------------------|
| Material                              | 100% recyclable plastic      |
| Dimensions of modules (H x W x D)     | 441 x 599 x 144 mm           |
| Media volume per set                  | 14 liter                     |
| Thickness of media bed                | 25 mm                        |
| Installation                          | Side access and front access |
| Media types                           | All types and mixes          |
| Recommended air flow per set          | 850 m <sup>3</sup> /h        |
| Contact time at 850 m <sup>3</sup> /h | 0.06 sec                     |
| Face velocity max.                    | 2,54 m/s                     |
| Pressure drop @ 1,25 m/s              | 101 Pa                       |



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## Clean Air, Activated Carbon Solutions

| SINGLE MEDIAS      |                                  |  |   |
|--------------------|----------------------------------|--|---|
| CKV 1              | 1 mm                             | Extruded coal based non-impregnated activated carbon in cylindrical pellets  | Organic gases, Hydrocarbons, Solvents, VOCs: Styrene, Toluene, Xylene, Ozone, NO <sub>2</sub> , and many others                                     |
| CKV 2              | 2 mm                             |  |   |
| CKV 3              | 3 mm                             |  |   |
| CKV 4              | 4 mm                             |  |   |
| CKG-4X8            | 2,4 - 4,8mm                      | Granular bituminous based activated carbon   | Siloxanes, Organic gases, Hydrocarbons, Solvents, VOC's, Chlorine, Ozone, odour   |
| CKG-COCOS          |                                  | Granular coconut shell based activated carbon  | Small VOC's   |
| CKG-SUPERLITEW     |                                  | Granular wood based activated carbon   | Organic Gases, Hydrocarbons, Solvents, VOCs, Odour  |
| CKV-SULFREE HE     | 3 mm (other diameters on demand) | Impregnated coal based extruded activated carbon in cylindrical pellets. Each carbon is impregnated with a different substance to remove specific target gases | Acid gases like H <sub>2</sub> S, SO <sub>2</sub> , with low O <sub>2</sub> levels. Also used for radioactive gases and Methyl Iodide               |
| CKV-ACID FREE HE   |                                  |  | Acid gases and strong sulphur based odours like H <sub>2</sub> S, SO <sub>2</sub> , Thiols, HCl, Acetic Acid, Formic Acid                           |
| CKV-ALKALI FREE HE |                                  |  | Alkaline Fumes, Amines, Fish odours   |
| CKV-FORMASORB      | 3 mm                             |  | Formaldehyde, Aldehyde  |
| CKV-HG             | 3 mm                             |  | Mercury removal   |
| CKO-PURPLE 8%      | 3 mm                             | All-round polishing media based on Aluminium oxide impregnated with KMnO <sub>4</sub>  | Organic acids, Nitrogen dioxide, H <sub>2</sub> S, HCN, Mercaptans, Organic acids, Oxidising gases, SO <sub>2</sub> , Formaldehyde, NO <sub>x</sub> |

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### MEDIA BLENDS

|                   |                                  |  |   |
|-------------------|----------------------------------|--|---|
| CKV-KIKOH HE      | 3 mm                             | Blend of Sulfree HE and Acid Free HE activated carbon  | Combination of H <sub>2</sub> S + other Acids, Various other odours   |
| CKV-ABEK          | 3 mm (other diameters on demand) | Blend of carbon with acid, base and special impregnates to remove a broad range of harmful gases | Gas masks, Fume hoods, Organophosphates   |
| CKB-5050 O8-V3    | 3 mm                             | Blend of CKO Purple 8% and activated carbon in different proportions                             | Used as polishing filter against a broad range of gases like: Hydrocarbons, VOC's, Oxides of sulphur, Formaldehyde, Nitric oxide, Hydrogen sulphide, lower molecular weight aldehydes and organic acids |
| CKB-2575 O8-V3    |                                  |  |   |
| CKT 5025-AF-V3-O8 | ±3 mm                            | Triple blend of ACID Free HE, CKO Purple 8% and CKV-3  | Can be used for a broad range of acid gases instead of a multi-pass media system  |
| CKB 9010-AF-O8    |                                  | Special Blend of CKO Purple and CKV-Acid Free HE   | Jet & Diesel Exhaust  |

Refer to individual data sheets for more technical specifications

\*Standard 3mm, other sizes on demand



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