

Cartridge Filter System



Cartridge Filter System

Media

Application

Airports, Pharma & Food
Industry
Industry
Industry and waste water
Museums and libraries
General purpose

Contaminants

Hydrocarbons
Mineral acids
Ammonia, amines
 H_2S , SO_2
 H_2S , SO_x , NO_x
Formaldehyde



- Sturdy construction
- Ease of use
- Standard dimensions

Krantz cartridge filter system is designed for effective gas-phase removal of medium concentrations of molecular contamination in fresh air and recirculation air handling systems. This concerns mainly volatile organic components (VOC's), but also sour gases and ammonia.

Construction

Krantz cartridge filter system consists of multiple individual canisters in metal execution, assembled into a holding frame to fit standard dimension filter sections in air handling units. Krantz cartridge filters come factory-ready for installation. No special tools are needed to replace a canister. The individual canister seals and holds in the frame due to its unique seal and bayonet-style clamping mechanism.

Cartridges

Krantz cartridge filter is factory pre-filled with user-specific chemical media. Each canister is vibration filled to ensure that the media is uniformly packed. Each canister is then plastic bagged and carton packed.

Choice of materials

The construction material available for the cartridges is both stainless steel or galvanized steel.

Choice of media

Krantz cartridge filters can be filled with a wide range of gas specific media or custom blends. These include standard carbon media or impregnated carbon media.

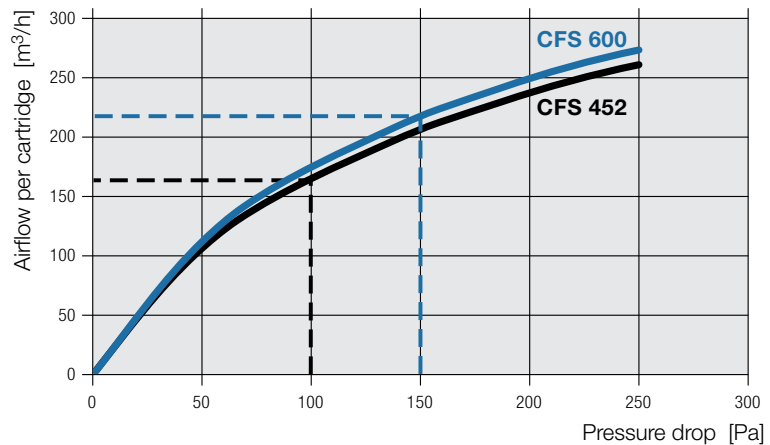
Application guide

Always use adequate prefiltration to avoid dust settling on the chemical media. This ensures optimized lifetime of the chemical filter system without increase of pressure drop. Prefiltration should be a compact, pleated or mini-pleated filter cell.

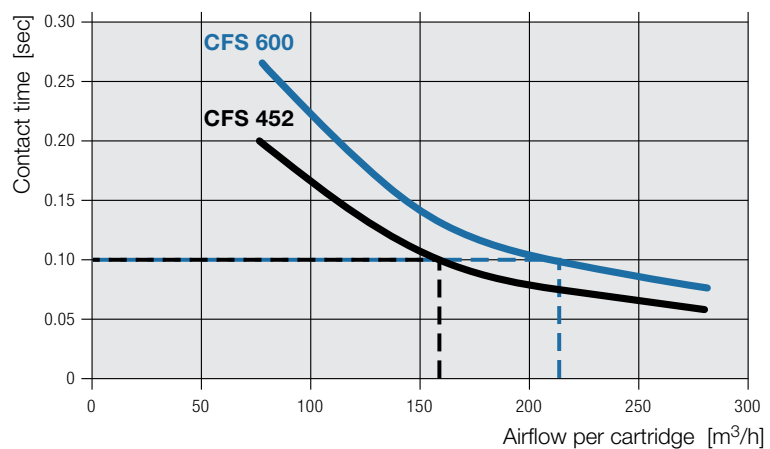
Service

Krantz will be pleased to offer you a maintenance contract for your chemical filter system. This includes removal of the used elements, cleaning of the installation and installation of new elements. Disposal in accordance with regulations and/or refilling of the canisters is part of our scope.

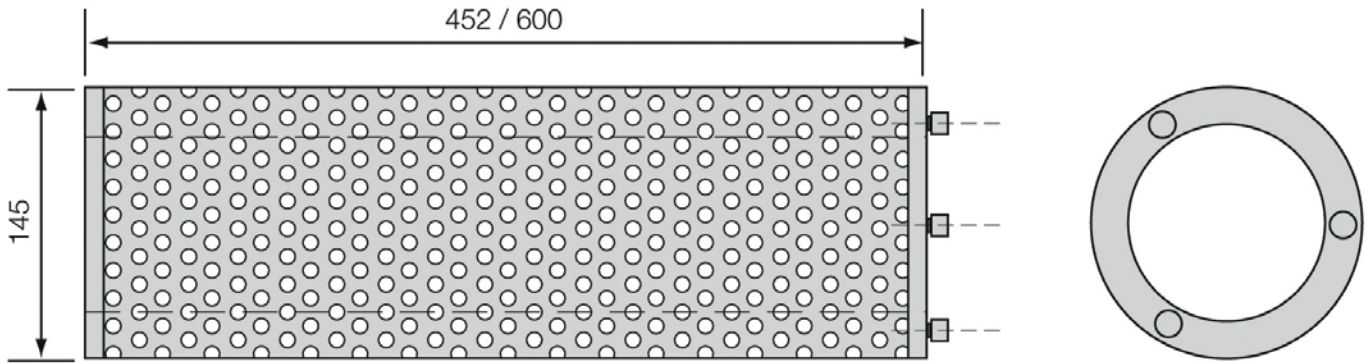
Pressure drop vs airflow



Contact time vs airflow



Dimensions and weights



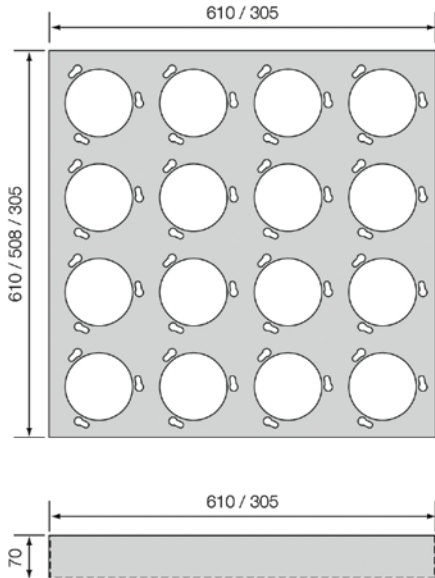
| Type | Material | Diameter [mm] | Length [mm] | Volume [l] |
|-----------|-----------------|---------------|-------------|------------|
| CFS 452-G | Galv. steel | 145 | 452 | 4.4 |
| CFS 452-S | Stainless steel | 145 | 452 | 4.4 |
| CFS 600-G | Galv. steel | 145 | 600 | 5.9 |
| CFS 600-S | Stainless steel | 145 | 600 | 5.9 |

Technical data

- Recommended prefiltration:
F7 to EN 779
- Number of canisters per size
610x610mm: 16
- Air volume based on filter size:
2,600/3,500 [m³/h] / with 16 canisters
- Pressure drop at nominal air volume:
< 150 [Pa]
- Max. operating temperature: 55°C
- Max. relative humidity: 95 %

Accessories

Holding frames



| Frame type | Dimensions W/H/D [mm] | Number of cartridges |
|------------|-----------------------|----------------------|
| CFF 16 | 610 x 610 x 70 | 16 |
| CFF 12 | 508 x 610 x 70 | 12 |
| CFF 8 | 305 x 610 x 70 | 8 |
| CFF 4 | 305 x 305 x 70 | 4 |

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