

HEPATEX JM

STERILE AIR FILTER FOR COMPRESSED AIR AND GASES



- Efficiency > 99.99995%
- Compact and robust construction
- Extreme security due to two stage filter element
- Low pressure drop
- Compact stainless steel case, resistant to external pressure of up to 10 bar
- Individually tested and leak-free

Hepatex JM sterile air filter is a cylindrical HEPA filter in compact metal case fitted with ½ inch gas male connections at each end. It is designed to filter small air flows at pressure up to 10 bar and it offers, due to its two stage filter element, an extremely high efficiency and security against leakage.

Fields of application

Filtration of compressed air and gases in:

- Medical technology
- Food and beverage industry
- Pharmaceutic industry
- Clean room technology

The **Hepatex JM** sterile air filter is used for:

- Anaesthetic and respiratory apparatus
- Ventilation of autoclaves after release of vacuum
- Particle counters, as zero indicator filter
- Filtration of pressured air for regulating and control units
- Cleaning and drying of surfaces by means of compressed air
- Storage tanks and reactors as breather filter
- Others

STERILISATION

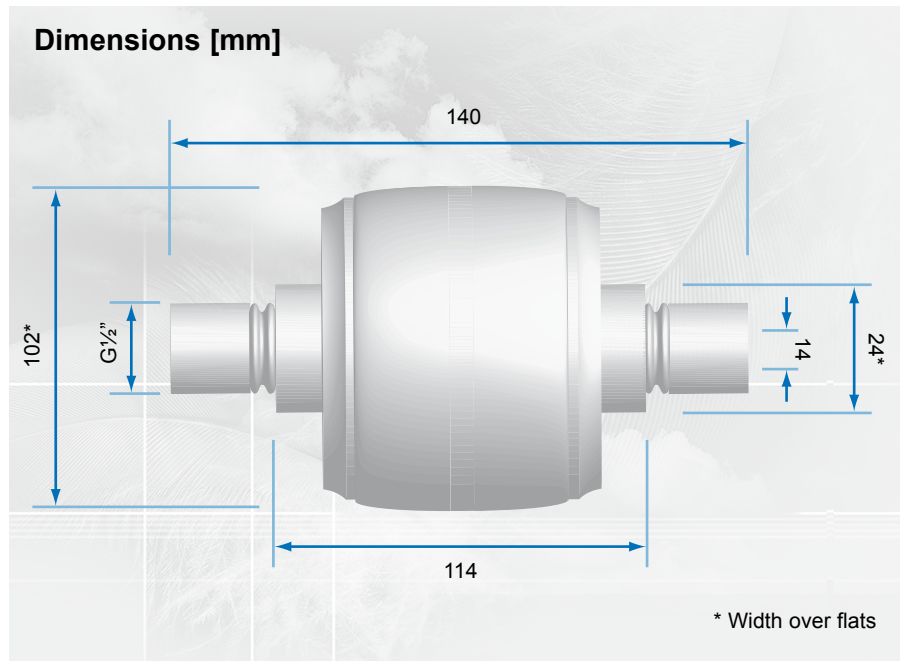
The **Hepatex JM** filter is not sterilised in the factory. A 20 minute autoclave 134 °C would ensure complete sterilisation of the filter. The filter would require subsequent drying at less than 90 °C until it is within 2 grammes of its original weight. Sterilisation might also be achieved by spray disinfection. Weight control before usage (see above) is then also required. The validation of the filters function after sterilisation has to be performed by its user.

INSTALLATION

The **Hepatex JM** filter is fitted with ½" gas threaded male stubs complete with spanner flats which must be used in tightening the filters in a pipe line system to prevent damage of the housing. The threads should be sealed with PTFE or similar tape or by means of compression rubber seals. The air flow direction arrow on the housing must be adhered to. For installation in pipe networks with male threading use ordinary joints (e.g. from Serto, +GF+, etc.).

TESTS

Each filter is tested to DIN 24184 (part 4.2) to ensure absence of leaks. The casing tightness is individually tested to 6 bar. A tightness test to 16 bar is available on request. The burst pressure of the unit has been verified on type tests to be greater than 110 bar.



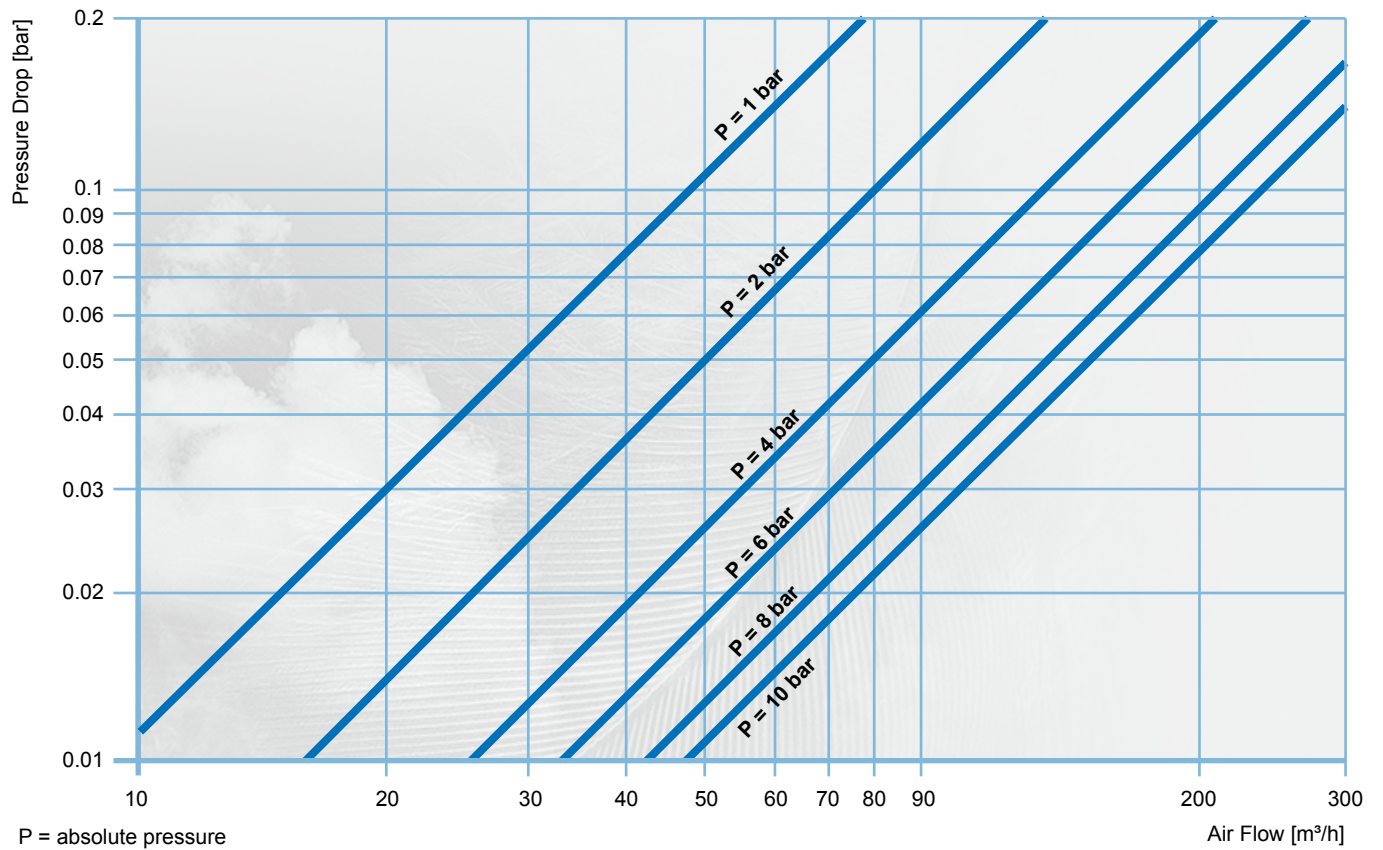
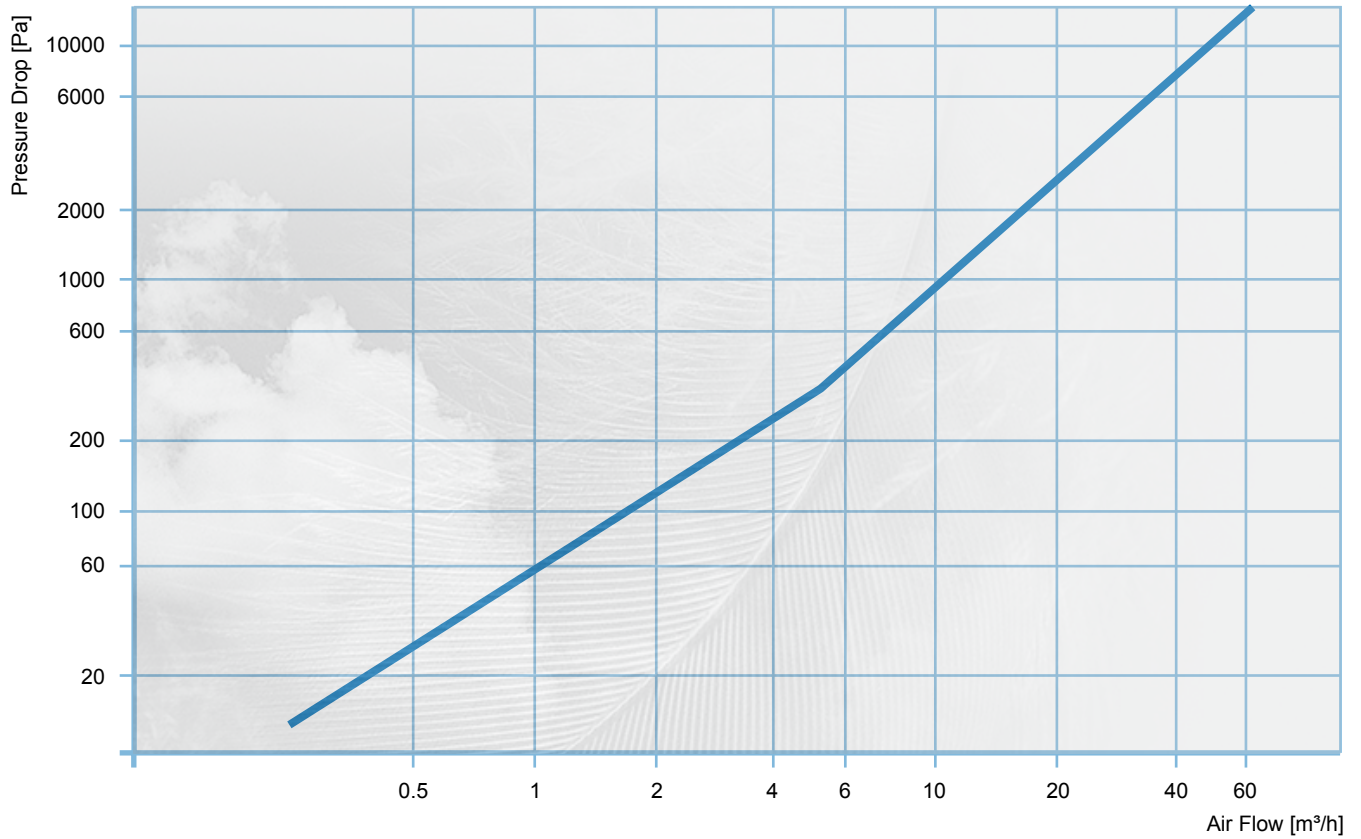
Technical Data	
Efficiency as per EN 1822 (MPPS-DEHS aerosol) ¹⁾	> 99.99995%
Rated air flow	10.0 m ³ /h
Initial pressure drop (DP _A)	< 1000 Pa
Recommended final pressure drop	DP _A + 600 Pa
Maximum final pressure drop	10000 Pa / 0.1 bar
Maximum operating pressure ²⁾ (across casing)	10 bar
Maximum continuous operating temperature	110 °C
Maximum sterilization temperature ³⁾	140 °C
Maximum relative humidity	< 100%
Approximate weight	0.6 kg

Remarks

- ¹⁾ MPPS (Most Penetrating Particle Size): the particle diameter at which the separation efficiency reaches its minimum – usually in the range 0.1–0.2 µm
- ²⁾ Temperatures of 20°C
- ³⁾ For short time in saturated vapour (see "sterilisation")

Construction and Materials	
Casing	Electropolished S 304 stainless steel (1.4301)
Filter medium	Two identical panels of pleated micro-fine glass paper in series. Each panel being individually sealed and supported and having protection on each side from mechanical damage.
Sealant	Polyurethane
End connections	S 304 stainless steel ½ inch gas male connectors welded to the casing and fitted with spanner flats. Factory fitted with plastic caps.

PERFORMANCE – INITIAL PRESSURE DROP



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For quoted standards, the issue valid at the print date of this leaflet is relevant.