

## SUBMICRONIC AIR FILTERS

### MBR – MBC - MBCR

### FOR COMPRESSED AIR SYSTEMS IN INDUSTRIAL, AUTO REPAIR, AND STANDARD WORKSHOPS

Creating high quality air free of dust,  
oil and silicone

- With an efficiency greater than 99.99% Micro Air filters eliminate solid particles, liquid particles, and oil
- High-quality filter media made from HEPA-grade micro fiber with a filtration surface area 4.5x larger than that of conventional media.
- Cartridges are specially designed for leak free, optimized air flow and minimal pressure drop
- Arrives fully assembled with wall brackets and air outlet quick coupling - available in High Flow or Industrial profiles.



**MBR**

- MFM micron filter, 1  $\mu\text{m}$
- MFB sub-micron filter, 0.01  $\mu\text{m}$
- Regulator with glass gauge dial
- prevoS1 safety quick coupling
- Wall bracket

To avoid any risk of contamination between the filters and the spray guns, install the MBR and MBCR filtration assembly as close to paint booths as possible. They may be installed directly inside paint booths.



**MBCR**

- MFM micron filter, 1  $\mu\text{m}$
- MFB sub-micron filter, 0.01  $\mu\text{m}$
- MFC activated carbon filter, 99.9% efficiency
- Regulator with glass gauge dial
- Oil separation 0.003 mg/m<sup>3</sup>
- prevoS1 safety quick coupling
- Wall bracket



**MBC**

- MFM micron filter, 1  $\mu\text{m}$
- MFB sub-micron filter, 0.01  $\mu\text{m}$
- MFC activated carbon filter, 99.9% efficiency
- Oil separation 0.003 mg/m<sup>3</sup>
- prevoS1 safety quick coupling
- Wall bracket

## FILTER TYPES

FILTER PROPERTIES	MFM, MECHANICAL MICRO-FILTRATION	MFB, SUBMICRON COALESCING FILTRATION	MFC, ACTIVATED CARBON, ADSORPTION FILTRATION
PARTICLE SIZE*	1.00 µm	0.01 µm	0.01 µm
ISO 8573-1:2009 AIR QUALITY CLASS	Solid particles: 2 Oil: 4	Solid particles: 1 Oil: 1	Solid particles: 1 Oil: 1
RESIDUAL OIL CONCENTRATION AT 68°F & 14.5 PSI ABSOLUTE	2.000 mg/m <sup>3</sup>	< 0.010 mg/m <sup>3</sup>	< 0.004 mg/m <sup>3</sup> (oil vapor)
RESIDUAL OIL CONTENT IN PPM	≤ 0.050 ppm	≤ 0.010 ppm	≤ 0.003 ppm
MINIMUM/MAXIMUM TEMPERATURE	34°F - 150°F	34°F - 150°F	34°F - 150°F
MINIMUM WORKING PRESSURE	29 psi	29 psi	29 psi
MAXIMUM WORKING PRESSURE	232 psi 160 psi from 1 1/2" FNPT model	232 psi 160 psi from 1 1/2" FNPT model	232 psi 160 psi from 1 1/2" FNPT model
INLET DIFFERENTIAL PRESSURE ΔP, DRY AIR (ΔP MOIST AIR)	0.58 psi (1.5 psi)	0.58 psi (1.70 psi)	n/a (1.00 psi)
FILTER COLOR	White	Green	Black
CONDENSATE DRAIN	Automatic float drain. Electric drain from 2 1/2" FNPT model	Automatic float drain. Electric drain from 2 1/2" FNPT model	-
FILTER ELEMENT REPLACEMENT*	6000 hours or once per year. Replace if 400 mbar (5.8 psi) differential pressure registered	3000 hours or once per year. Replace if 400 mbar (5.8 psi) differential pressure registered	1000 hours or once per year. Replacement with prefilter (at 68°F air inlet temperature)

\* Liquid particles of 0.01 µm to 5.00 µm. Oil inlet concentration: 10 mg/m<sup>3</sup>.

## EASY FILTER CARTRIDGE REPLACEMENT

- Nitrile gasket between the screw-on bowl and the end cap resists even the most aggressive chemicals.
- A shoulder inside the end cap prevents rotation and insertion of elements of other shapes.
- Audible alarm sounds if an attempt is made to remove the bowl under pressure for maximum safety.
- Molded aluminum housing and filter head are protected by a two-layer coating.



**MFMC**  
Replacement filter  
for Micronic  
MFM series



**MFBC**  
Replacement filter  
for Submicronic  
MFB series



**MFCC**  
Replacement filter  
for activated carbon  
MFC series