

P/N AVOEMFF12

Compressed air - Pre-filtration set

This pre-filtration set is specially designed to protect valuable nitrogen/oxygen membrane modules from dirt, water, oil and ozone found in compressed air.



However, it is an excellent general filtration set-up for other applications as well. The set consists of two high efficiency coalescing filters to remove all particles and droplets. The carbon adsorber (bed type) removes all traces of compressed oil vapour (over a much longer period than traditional carbon filter elements) and ozone. A final dust filter prevents carbon dust carryover.

Pre-filtration set - parts

- Coarse coalescing filter, Balston Grade DX. (1 μ m)
Equipped with differential pressure indicator and automatic condensate drain.
- Fine coalescing filter, Balston Grade BX. (0,01 μ m)
Equipped with differential pressure indicator and automatic condensate drain.
- Carbon adsorber filter, BED TYPE
- Dust filter, Balston Grade DX. (1 μ m)
- Pre-assembled on powder coated mounting bracket

Specifications

Max. operating pressure	13.0 bar(g)/188 psig
Temperature	2 - 50 °C / 36 - 122 °F
Residual oil content	< 3.0 mg/m ³
Relative humidity	< 55% (non-condensing)
Dimensions H x W x D	513 x 455 x 110 (mm) 20.2" x 17.9" x 4.3" (inch)
Weight	10.4 kg/22.9 lbs
Connections inlet/outlet	G 1/2"

Air quality output when used (at 20°C) in combination with:

Refrigerant dryer	ISO8573-1:2010 1.4.1
Adsorbtion dryer	ISO8573-1:2010 1.2.1

Flow rates (Nm³/hr) at maximum 1 bar drop at indicated line pressure

Pressure [Bar(g)]/[psig]	3/44	4/60	5/75	6/85	7/100	8/115
Nm ³ /hr	53	67	80	94	107	121
Pressure [Bar(g)]/[psig]	9/130	10/145	11/160	12/175	13/190	
Nm ³ /hr	134	148	162	181	198	

Maintenance

Typically, the filters need to be changed every 3000hrs or at least yearly. This depends highly on the quality of the compressed air. Use maintenance kit p/n AVMK05 consisting of 3 filter elements and a carbon adsorber.

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