Smart and Simple Compressed Air Solutions

MSS 4 - 75 kW Oil-injected Screw Compressors
MSS 7.5 kW - 75 kW Variable Speed Screw Compressors
MDS 35 CFM - 1000 CFM Refrigerated Dryers
G-C-V 45 CFM - 1500 CFM Compressed Air Filters

www.mark-compressors.com/en-in

MARK

Quality Filtration for High Reliability

MARK Online Filters Guarantee Technically Oil-free Air:

- Pre-filter removes dust particles and improves air quality
- Fine coalescence filter removes oil particles from compressed air
- Activated carbon filter absorbs oil vapour ensuring 100% technically oil-free air
- Filter cartridges are easily removable resulting in quick maintenance

Principles of Filtration

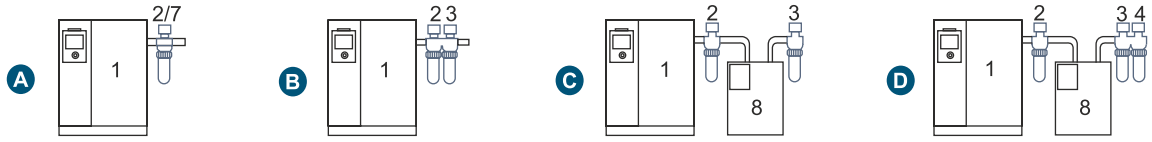
Different Types of Contamination Required Different Types of Filters

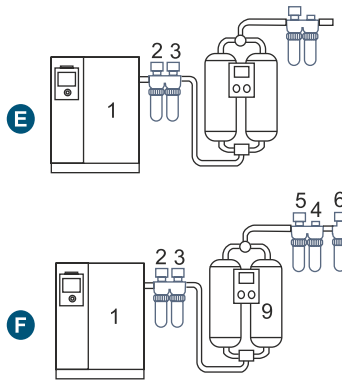
	Contaminant	State of matters	Filter	Filter medium	Filteration mechanisms
	Dust	Solid	Pre-filter, Dust filter	Glass fibers	Capture
	Oil aerosol	Liquid	Coalescence filter, High efficiency coalescence filer	Glass fibers	Capture + coalescing+drain
	Oil vapor	Gas	Porous activated carbon	Porous activated carbon	Adsorption

Degree of Purity of Air by ISO 8573.1

DEGREE OF PURITY OF AIR					
ISO 8573-1 Class	OIL Concentration	DUST		WATER	
		Dimension	Concentration	Dew point	Water content
1	0,01 mg/m^3	0,1 µm	0,1 mg/m^3	- 70 ^{0}C	0,003 g/m^3
2	0,1 mg/m^3	1 µm	1 mg/m^3	- 40 ^{0}C	0,11 g/m^3
3	1,0 mg/m^3	5 µm	5 mg/m^3	- 20 ^{0}C	0,88 g/m^3
4	5 mg/m^3	15 µm	8 mg/m^3	+ 3 ^{0}C	6,0 g/m^3
5	25 mg/m^3	40 µm	10 mg/m^3	+ 7 ^{0}C	7,8 g/m^3
6	-			+ 10 ^{0}C	9,4 g/m^3

Typical Installations





A. General purpose protection
(air purity to ISO 8573-1: G filter class 2:-:3 & P filter class 4:-:3)

B. General purpose protection and reduced oil concentration
(air purity to ISO 8573-1: class 1:-:2)

C. High quality air with reduced dew point
(air purity to ISO 8573-1: class 1:4:2)

D. High quality air with reduced dew point and oil concentrator
(air purity to ISO 8573-1: class 1:4:1)

E. High quality air with extremely low dew point
(air purity to ISO 8573-1: class 2:2:1)

F. High quality air with extremely low dew point
(air purity to ISO 8573-1: class 1:2:1)

1. Compressor with after-cooler

2. G filter

3. C filter

4. V filter

5. S filter

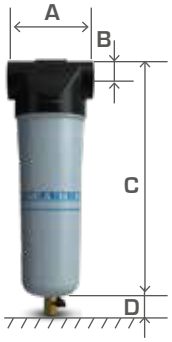
6. D filter

7. P filter

8. Refrigerant dryer

9. Adsorption dryer

Model	L/min	m³/hr	CFM	BAR	PSI	G	A	B	C	D	kg
FILTER 7	720	43	25	16	232	3/4"	90	19	237	32	0.76
FILTER 15	1500	90	53	16	232	3/4"	90	19	237	32	0.77
FILTER 21	2100	126	74	16	232	3/4"	90	19	292	32	0.89
FILTER 30	3000	180	106	16	232	1"	110	25	305	32	1.39
FILTER 48	4800	288	170	16	232	1 1/2"	126	38	360	32	1.67
FILTER 84	8400	504	297	16	232	2"	155	51	465	32	3.28
FILTER 114	11400	684	403	16	232	2"	155	51	500	32	3.63
FILTER 156	15600	936	551	16	232	2"	155	51	545	32	3.85
FILTER 216	21600	1296	763	16	232	2 1/2"	193	64	617	32	6.11
FILTER 315	31500	1890	1112	16	232	3"	210	76	720	32	8.75
FILTER 405	40500	2430	1430	16	232	3"	210	76	890	32	10.30



G FILTER RANGE
Coalescing filters for general purpose protection, removing solid particles, liquid water and oil aerosol.
Total Mass Efficiency: 99%,
For optimum filtration, a G filter should be preceded by a water separator

C FILTER RANGE
High-efficiency coalesching filters, removing solid particles, liquid water and oil aerosol.
Total Mass Efficiency: 99.9%.
For optimum filtration, a C filter should be preceded by a G filter at all times.

V FILTER RANGE
Activated carbon filter for removal of oil vapour and hydrocarbon odors with a maximum remaining oil content of (0.003mg/m3). 1000 hour lifetime.

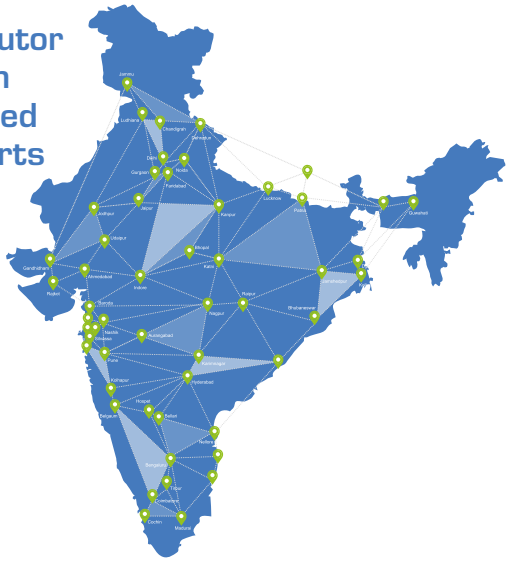
COMPONENTS

1. Double O-rings gaurantee proper sealing to reduce leakage risks and increase energy savings.
2. Increased user freindliness and reliability via push-on element.
3. Protection paper avoids direct contact between filter media and stainless steel filter core.
4. Enhanced glass fiber media ensure high filter efficiency, low pressure drop and gauranteed lifetime performance, For oil coalescence filters, multiple layers are wrapped around each other to avoid the risk of early oil breakthrough.
5. Enhanced high-performance stainless steel filter cores ensure ultimate strength and low risk of explosion.
6. Oil coalescence filters: Double drainage layer (outer protection paper and foam) has a large drainage capacity which is ideal for variable speed compressors. Moreover, the poly-urethane foam avoids oil re-entrainment.
   Dust filters: Open foam acts as a pre-filter for the largest dust particles, which prolongs the filter lifetime.
7. Epoxy sealed caps for reliable filtration.
8. Internal ribs support the element and facilitate the route of oil droplets.

Unparalleled Expertise

- Availability
- Reliability
- Partnership
- Safety
- Serviceability
- Simplicity
- Quality
- More Savings

Wide Distributor Network with Factory-trained Service Experts



ORIGINAL PART

Care. Trust. Efficiency.

info.india@mark-compressors.com
Reach us at - 1800 120 110 050
www.mark-compressors.com/en-in

Contact your local sales representative now!