

# DESICCANT BREATHER MANUAL



FMS-150-B

FMS-200-B

FMS-250-B

## 1. MAINTENANCE

### 1.1 GENERAL

Please follow the maintenance instructions!

### 1.2 COMMISSIONING

Check that the correct filter cartridge is fitted.

When the filter is due to be changed, the colour changes from dark red to light orange.



### 1.3 TOOLS REQUIRED FOR MAINTENANCE

Strap wrench (1 or 2 pieces)

CONNECTION	EXT. HEX.	TORQUE VALUE
1" Slip Fit Ø 33.4	AF width 50	-
G 1"	AF width 50	20 Nm
G 3/4"	AF width 50	20 Nm
M42 x 2	AF width 50	20 Nm
NPT 1"	AF width 50	20 Nm
NPT 2"	AF width 65	20 Nm
Flange adapter DIN 24557/T2	AF width 50	-



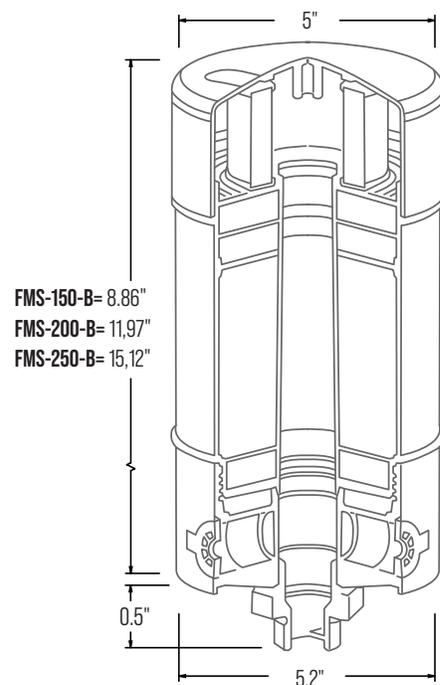
FMS-150-B FMS-200-B FMS-250-B



FMS-150-E FMS-200-E FMS-250-E

## TECHNICAL SPECIFICATIONS

	FMS-150-B	FMS-200-B	FMS-250-B
Water Retention Capacity	0.06-0.05 (gallon)	0.08-0.13 (gallon)	0.20-0.13 (gallon)
Optimal Air Flow Rate (SCFM)	21 (150 gpm) Max.	28 (200 gpm)	35 (250 gpm)
Drying Capacity at Medium Humidity (SCF)	350 Max.	880 Max.	1450 Max.
Drying Capacity at High Humidity (SCF)	210 Max.	530 Max.	880 Max.
Desiccant Air Breathers Connection size	2" NPT	2" NPT	2" NPT
Protection Valve	0.04 psi	0.04 psi	0.04 psi
Element Replacement	FMS-150-E	FMS-200-E	FMS-250-E
Bypass	0.3 psi – Mobile Application Recommended 0.04 psi – Stationary Application Recommended		



FMS-150-B= 8.86"  
FMS-200-B= 11.97"  
FMS-250-B= 15.12"

# CARTRIDGE REPLACEMENT AND INSTALLATION

## 2. CHANGING THE CARTRIDGE

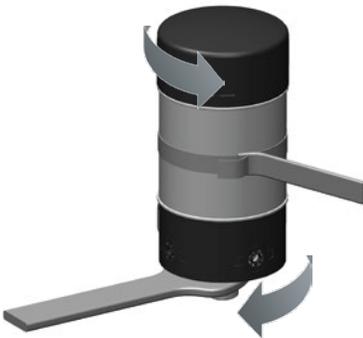
In order to ensure reliable function, the entire cartridge must be replaced.

### 2.1 REMOVING THE CARTRIDGE

- 1 Apply open-jaw wrench to ext. hex. (alternatively: strap wrench on bottom section).



- 2 Unscrew filter cartridge from the bottom section of the BDE anticlockwise using a strap wrench.



- 3 Examine bottom section, especially sealing surfaces, for mechanical damage.

### 2.2 CARTRIDGE INSTALLATION

- 1 When fitting a new cartridge, check that the designation corresponds to that of the old cartridge.

- 2 Screw in the cartridge fully manually.



- 3 Then turn the cartridge back again slightly (max. 1/8 turn).





# SPARE PARTS AND MAINTENANCE INSTRUCTIONS

## 3. SPARE PARTS

### 3.1 SPARE PARTS DRAWING BDE



### 3.2 BDE SPARE PARTS LIST

ITEM	DESCRIPTION	BDE
1.	CARTRIDGE	
	BDE 200 X 2 W 0.0	01299653
	BDE 400 X 2 W 0.0	01299654
	BDE 1000 X 2 W 0.0	01299655
2.	BOTTOM SECTION	
	Bottom section E BDE G 1.0 (G 1")	01301705
	Bottom section E BDE N 1.0 (NPT 1")	01301703
	Bottom section E BDE N 2.0 (NPT 2")	01301704
	Bottom section E BDE M 1.0 (M42x2)	01305475
	Bottom section E BDE S 1.0 (Slip Fit 1")	01305476
	Bottom section E BDE F 1.0 (Flange)	01305477
	Bottom section E BDE G 1.0 /-RV0.003} (G 1")	01301708
	Bottom section E BDE N 1.0 /-RV0.003} (NPT 1")	01301706
	Bottom section E BDE N 2.0 /-RV0.003} (NPT 2")	01301707
	Bottom section E BDE M 1.0 /-RV0.003} (M42x2)	01305478
	Bottom section E BDE S 1.0 /-RV0.003} (Slip Fit 1")	01305479
	Bottom section E BDE F 1.0 /-RV0.003} (Flange)	01305480

Other spare parts on request

## 4. MAINTENANCE INSTRUCTIONS

### 4.1 USER INSTRUCTIONS FOR FILTERS



It is the responsibility of the owner to comply with the water regulations of the country concerned.



Statutory accident prevention regulations, safety regulations and safety data sheets for fluids must be observed.



When working on, or in the vicinity of, hydraulic systems, naked flames, spark generation and smoking are forbidden.



Hydraulic oils and waterpolluting fluids must not be allowed to enter the soil or watercourses or sewer systems. Please ensure safe and environmentally friendly disposal of hydraulic oils. The relevant regulations in the country concerned with regard to ground water pollution, used oil and waste must be complied with.



The maximum storage duration of BDE filters/BDE cartridges is 2 years!  
The following conditions must be provided by the customer:

- dry storage
- cool storage ( $\leq 40\text{ }^{\circ}\text{C}$ )
- protection from UV exposure



Not suitable for cleaning with high-pressure cleaner!

### 4.2 MAINTENANCE, GENERAL

This section describes maintenance work which must be carried out periodically. The operational safety and life expectancy of the filter, and whether it is ready for use, depend to a large extent on regular and careful maintenance.

### 4.3 MAINTENANCE MEASURES

- Spare parts must fulfil the technical requirements specified by the manufacturer.
- This is always guaranteed for original spare parts.
- Tools, working area and equipment are to be kept clean.
- After disassembling the filter, clean all parts, check for damage or wear and replace parts if necessary.
- When changing a filter element, a high level of cleanliness must be observed!

### 4.4 INTERVAL BETWEEN ELEMENT CHANGES

When the filter is due to be changed, the colour changes reliably from red to light orange.