



# POINT-OF-USE ADSORBER

**G-SERIES** 

- Activated Carbon
  - Desiccant

# POINT-OF-USE ADSORBER

# **ACTIVATED CARBON ADSORBER**

#### **FUNCTION:**

The function of the AFE point-of-use activated carbon adsorber is for the removal of oil vapor from compressed air systems. The adsorber utilizes a replaceable cartridge and is capable of removing oil vapour down to 0.003 mg/m³. For best results and performance, it is highly recommended that a H-Grade fine coalescing filter is installed at the inlet side of the adsorber.

#### **FEATURES**

- Convenient to use.
- Efficient removal of oil vapour.
- Long contact time.
- High adsorption capacity.
- Relatively low differential pressure.
- Easy replacement of activated carbon cartridge.
- Integrated pre and post filtration.

### **DESICCANT ADSORBER**

#### FUNCTION:

The function of the AFE point-of-use desiccant adsorber is for small scale separation of humidity (water vapor) from compressed air systems. The adsorber utilizes a replaceable desiccant cartridge and is capable of achieving low pressure dew point of down to -40°C. For best results and performance, it is highly recommended that a H-Grade fine coalescing filter is installed at the inlet side of the adsorber.

#### **FEATURES**

- Convenient to use.
- Low pressure dew point.
- Long contact time.
- High adsorption capacity.
- Relatively low differential pressure.
- Easy replacement of desiccant cartridge.
- Integrated pre and post filtration.



Desiccant

# ACTIVATED CARBON ADSORBER G- SERIES SPECIFICATIONS

Activated

Carbon

Activated Carbon Adsorber	Conn. Size (Inch)	Flow Capacity (m³/h)*	Maximum Pressure (Bar)	Dimensions (mm)		Replacement Cartridge	
Model				Α	В	Model	
G10A-S1-0-16B	1/2"	46	16	87	151	CA010A	
G20A-S1-0-16B	1/2"	70	16	87	192	CA020A	
G30A-S1-0-16B-D15	1/2"	101	16	87	263	CA030A	
G55A-S1-0-16B	1 "	183	16	130	285	CA055A	
G95A-S1-0-16B-D25	1"	238	16	130	380	CA095A	
G150A-S1-0-16B	1 1/2"	296	16	130	482	CA150A	
G220A-S1-0-16B	1 1/2"	425	16	130	692	CA220A	

# **DESICCANT ADSORBER G-SERIES SPECIFICATIONS**

Desiccant Adsorber	Conn. Size	Volume Capacity	Maximum Pressure	Dimensions (mm)		Replacement Cartridge	
Model	(Inch)	(m <sup>3</sup> )*	(Bar)	Α	В	Model	
G30D-S1-0-16B-D15	1/2"	10	16	87	263	CA030D	
G55D-S1-0-16B	1"	30	16	130	285	CA055D	
G95D-S1-0-16B-D25	1"	40	16	130	380	CA095D	
G150D-S1-0-16B	1 1/2"	65	16	130	482	CA150D	
G220D-S1-0-16B	1 1/2"	105	16	130	492	CA220D	

<sup>\*</sup> Refers to 1 bar (a) and 20°C at 7 bar (g) working pressure and 20°C inlet temperatures. Pressure dew point achievable down to -40°C. Maximum recommended inlet temperature of 50°C. Differential pressure of 0.15-0.40 bar.

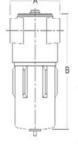
#### **ACTIVATED CARBON ADSORBER CORRECTION FACTORS**

	5 barg	6 barg	7 barg	8 barg	9 barg	10 barg	11 barg	12 barg
35°C	0.75	0.89	1.00	1.08	1.26	1.36	1.62	1.79
40°C	0.64	0.76	0.85	0.92	1.07	1.16	1.38	1.52
45°C	0.56	0.67	0.75	0.81	0.95	1.02	1.22	1.34
50°C	0.38	0.45	0.50	0.54	0.63	0.68	0.81	0.90

# DESICCANT ADSORBER CORRECTION FACTORS

	4 barg	5 barg	6 barg	7 barg	8 barg	9 barg	10 barg
35°C	0.62	0.75	0.87	1.00	1.11	1.18	1.27
40°C	0.59	0.71	0.84	0.98	1.08	1.14	1.24
45°C	0.55	0.67	0.79	0.92	1.04	1.10	1.20
50°C	0.50	0.63	0.76	0.87	1.00	1.07	1.16

	Descrip	Description				
Components	Activated Carbon Adsorber	Desiccant Adsorber				
Housing Material	Aluminium Alloy					
Cartridge Cylinder Material	Aluminium Alloy					
Cartridge Content	Activated Carbon	Molecular Sieve (MS)				
Integrated Pre-Filtration	Non-woven Filter Material With SS Screen					
Integrated Post-Filtration	Non-woven Filter material With SS Screen					
Tie rod	Stainless Steel SS304					









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