



POINT-OF-USE ADSORBER

R-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.



Activated Carbon

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 R- SERIES SPECIFICATIONS

| Activated Carbon Adsorber Model | Conn. Size (Inch) | Flow Capacity (m ³ /h)* | Maximum Pressure (Bar) | Dimensions (mm) | | Replacement Cartridge Model |
|---------------------------------|-------------------|------------------------------------|------------------------|-----------------|-----|-----------------------------|
| | | | | A | B | |
| R12A-S1-0-16B | ¼" | 49 | 16 | 91 | 155 | CRA012A |
| R25A-S1-0-16B | ½" | 73 | 16 | 91 | 189 | CRA025A |
| R41A-S1-0-16B | ¾" | 107 | 16 | 91 | 262 | CRA041A |
| R62A-S1-0-16B | 1" | 187 | 16 | 139 | 252 | CRA062A |
| R112A-S1-0-16B | 1 ¼" | 246 | 16 | 139 | 355 | CRA112A |
| R177A-S1-0-16B | 1 ½" | 315 | 16 | 139 | 457 | CRA177A |
| R233A-S1-0-16B | 1 ½" | 447 | 16 | 139 | 652 | CRA233A |



DESICCANT ADSORBER R- SERIES SPECIFICATIONS

| Desiccant Adsorber Model | Conn. Size (Inch) | Volume Capacity (m ³)* | Maximum Pressure (Bar) | Dimensions (mm) | | Replacement Cartridge Model |
|--------------------------|-------------------|------------------------------------|------------------------|-----------------|-----|-----------------------------|
| | | | | A | B | |
| R41D-S1-0-16B | ¾" | 11 | 16 | 91 | 262 | CA041D |
| R62D-S1-0-16B | 1" | 32 | 16 | 139 | 252 | CA062D |
| R112D-S1-0-16B | 1 ¼" | 42 | 16 | 139 | 355 | CA112D |
| R177D-S1-0-16B | 1 ½" | 70 | 16 | 139 | 457 | CA177D |
| R233D-S1-0-16B | 1 ½" | 113 | 16 | 139 | 652 | CA233D |

* 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.

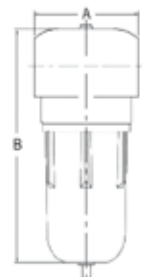
ACTIVATED CARBON ADSORBER CORRECTION FACTORS

| | 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 |

| Components | Description | |
|-----------------------------|--|----------------------|
| | 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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