

Activated Carbon Adsorbers ACT Series

Flow rate 1.17 to 154.53 m³/min



Application

To ensure low maintenance high air quality, fit an ACT activated carbon adsorber to remove any remaining oil vapour downstream from the applicable air treatment and pre-filtration processes.

For a compressed air supply you can count on

- **Remaining oil content up to 0.003 mg/m³***. Considerably less than the limit for Class 1 in accordance with DIN ISO 8573-1.
- **Long-lasting activated carbon** – typically up to 12,000 operating hours through generous volume and optimised flow.
- **Large inlets/outlets ensure low differential pressure** for highly efficient operation.
- Function monitoring with oil vapour indicator fitted as standard.
- **Robust protective stand.**
- Approved in accordance with **AD2000** pressure appliance guidelines.
- **KAESER – For all of your compressed air needs.**

Accessories

We recommend that a KAESER FD filter is used downstream from the ACT activated carbon adsorber.

Technical specifications

Model	Working pressure bar (g)	Flow rate* m ³ /min	Connection Inch / DN	Weight kg	Dimensions W x D x H (mm)
ACT 12	16	1.17	R ½"	90	350 x 750 x 1950
ACT 18		1.83	R ¾"	105	350 x 750 x 1950
ACT 27		2.67	R ¾"	115	350 x 750 x 1970
ACT 33		3.33	R 1"	150	350 x 750 x 1980
ACT 50		5.00	R 1"	195	550 x 750 x 1980
ACT 75		7.50	R 1½"	200	550 x 750 x 1990
ACT 108		10.83	R 1½"	230	550 x 750 x 1990
ACT 133		13.33	R 2"	305	550 x 750 x 2000
ACT 169		16.88	DN 80	475	899 x 800 x 2210
ACT 215	10	21.47	DN 80	518	899 x 800 x 2500
ACT 266		26.62	DN 80	702	1019 x 960 x 2380
ACT 323		32.33	DN 80	816	1012 x 1010 x 2380
ACT 386		38.63	DN 100	904	1077 x 1010 x 2795
ACT 444		44.35	DN 100	976	1202 x 1110 x 2830
ACT 601		60.01	DN 100	1334	1202 x 1110 x 2830
ACT 859		85.85	DN 100	1493	1502 x 1540 x 2830
ACT 1173		117.33	DN 150	1545	1565 x 1540 x 2949
ACT 1545		154.53	DN 150	1621	1779 x 1580 x 3263

*) Flow rate: Working pressure 7 bar and inlet temperature + 35° C

Correction factors for other working pressures

bar (g)	5	6	7	8	9	10	11	12	13	14	15	16
Factor f _p	0.75	0.88	1.00	1.06	1.12	1.17	1.22	1.27	1.32	1.37	1.41	1.46

Correction factors for activated carbon service life for other working temperatures

Inlet temperature °C	25	30	35	40	45	50	55
Factor f _T	3.1	1.7	1	0.57	0.33	0.19	0.11

Activated carbon service life 12,000 hours with compressed air inlet T_i = + 35° C



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Design example

Flow rate 7.9 m³/min*
Min. working pressure 8 bar(g)
Max. inlet temperature +40 °C
Pressure correction factor f_p 1.06

$$\text{Formula: } \frac{\text{Flow rate}}{f_p} = \frac{7.9 \text{ m}^3/\text{min}}{1.06} = 7.45 \text{ m}^3/\text{min}$$

Result: **ACT 75**