

Activated Carbon Adsorber ACT Series

Flow rate 1.17 to 154.53 m³/min



Application

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

For an 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 of the ACT activated carbon adsorber.



Technical specifications

Model	Working pressure bar _(g)	Flow rate* m ³ /min	Connection Inch / DN	Weight kg	Dimensions H x W x D mm
ACT 12	16	1.17	R ½"	90	1950 x 350 x 750
ACT 18		1.83	R ¾"	105	1950 x 350 x 750
ACT 27		2.67	R ¾"	115	1970 x 350 x 750
ACT 33		3.33	R 1"	150	1980 x 350 x 750
ACT 50		5.00	R 1"	195	1980 x 550 x 750
ACT 75		7.50	R 1½"	200	1990 x 550 x 750
ACT 108		10.83	R 1½"	230	1990 x 550 x 750
ACT 133		13.33	R 2"	305	2000 x 550 x 750
ACT 169	10	16.88	DN 80	475	2210 x 899 x 800
ACT 215		21.47	DN 80	518	2500 x 899 x 800
ACT 266		26.62	DN 80	702	2380 x 1019 x 960
ACT 323		32.33	DN 80	816	2380 x 1012 x 1010
ACT 386		38.63	DN 100	904	2795 x 1077 x 1010
ACT 444		44.35	DN 100	976	2830 x 1202 x 1110
ACT 601		60.10	DN 100	1334	2830 x 1202 x 1110
ACT 859		85.85	DN 100	1493	2835 x 1502 x 1540
ACT 1173		117.33	DN 150	1545	2950 x 1565 x 1540
ACT 1545		154.53	DN 150	1621	3263 x 1779 x 1580

*) in accordance with DIN/ISO 7183, Option A: Reference point 1 bar_(abs), 20 °C, Operating point: 7bar_(g), Inlet temperature +35 °C, Ambient temperature +25 °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	60
Factor f _t	3.1	1.7	1	0.57	0.33	0.19	0.11	0.061

Design example

Flow rate	7.9 m ³ /min*
Min. working pressure	8 bar _(g)
Max. inlet temperature	+40 °C
Pressure correction factor f _p	1,06

$$\text{Formula: } \frac{\text{Free air delivery}}{f_p} = \frac{7.9 \text{ m}^3/\text{min}}{1,06} = 7.45 \text{ m}^3/\text{min}$$

Result: ACT 75