

## Activated Carbon Adsorbers ACT Series

Flow rate 1.17 to 154.53 m<sup>3</sup>/min



## Application

To ensure low maintenance high air quality, install 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** (total hydrocarbon content) in accordance with Class 1 as per ISO 8573-1 (2010)
- **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 KD filter is used downstream from the ACT activated carbon adsorber.

## Technical specifications

Model	Working pressure bar (g)	Flow rate* m³/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"	110	350 x 750 x 1950
ACT 27		2.67	R ¾"	130	350 x 750 x 1970
ACT 33		3.33	R 1"	160	350 x 750 x 1980
ACT 50		5.00	R 1"	170	550 x 750 x 1980
ACT 75		7.50	R 1½"	215	550 x 750 x 1990
ACT 108		10.83	R 1½"	260	550 x 750 x 1990
ACT 133		13.33	R 2"	330	550 x 750 x 2000
ACT 169		10	16.88	DN 80	305
ACT 215	21.47		DN 80	340	899 x 800 x 2500
ACT 266	26.62		DN 80	325	1019 x 960 x 2380
ACT 323	32.33		DN 80	450	1012 x 1010 x 2380
ACT 386	38.63		DN 100	480	1077 x 1010 x 2795
ACT 444	44.35		DN 100	500	1202 x 1110 x 2830
ACT 601	60.01		DN 100	520	1202 x 1110 x 2830
ACT 859	85.85		DN 100	690	1502 x 1540 x 2830
ACT 1173	117.33		DN 150	960	1565 x 1540 x 2949
ACT 1545	154.53		DN 150	1150	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 <sub>p</sub>	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 <sub>T</sub>	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<sub>i</sub> = + 35° C

### Design example

Flow rate 7.9 m³/min\*  
 Min. working pressure 8 bar(g)  
 Max. inlet temperature +40 °C  
 Pressure correction factor f<sub>p</sub> 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**



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