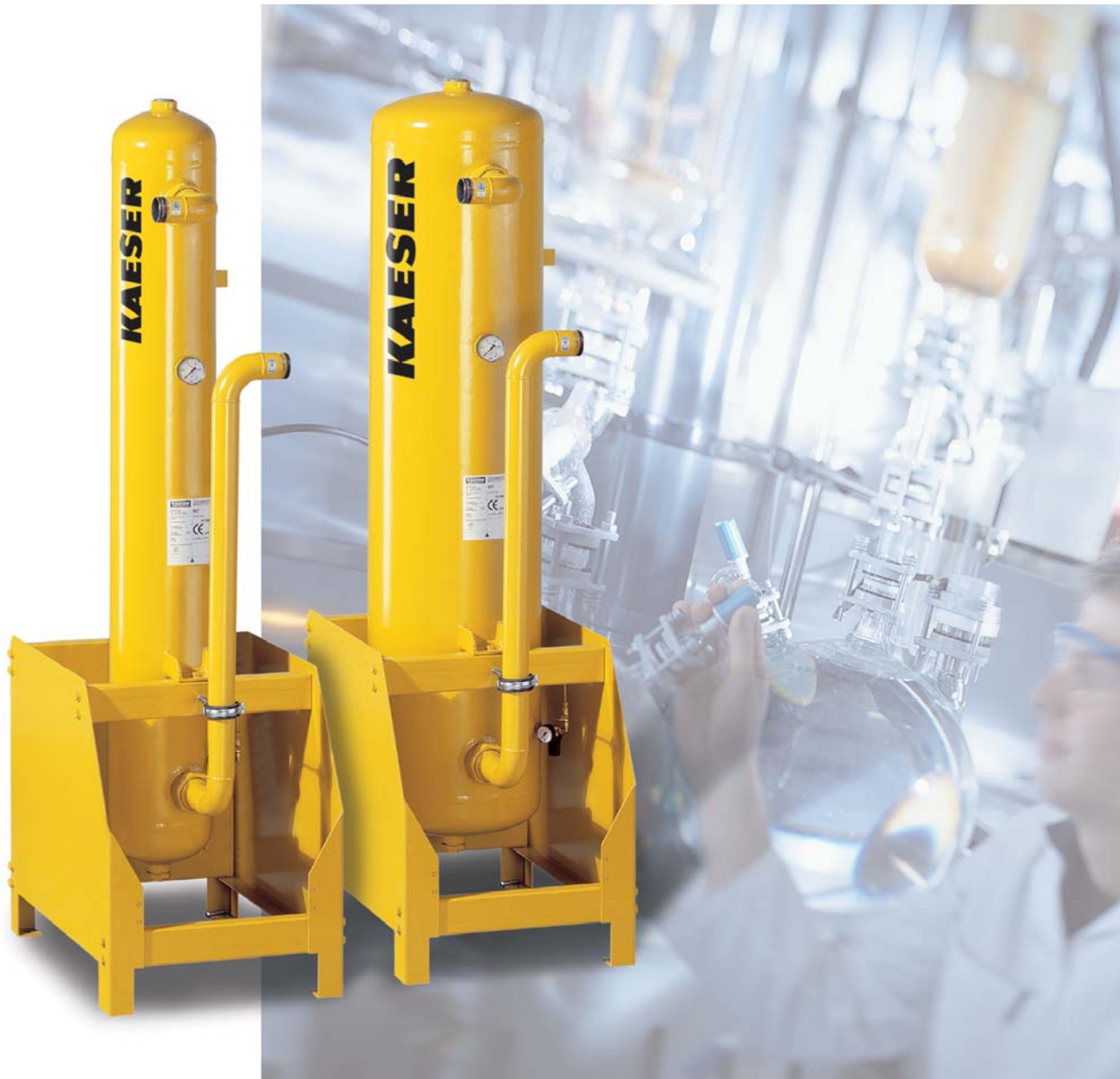
KAESER COMPRESSORS

Activated Carbon Adsorber

ACT Series

Flow rate
1.17 to 154.53 m³/min



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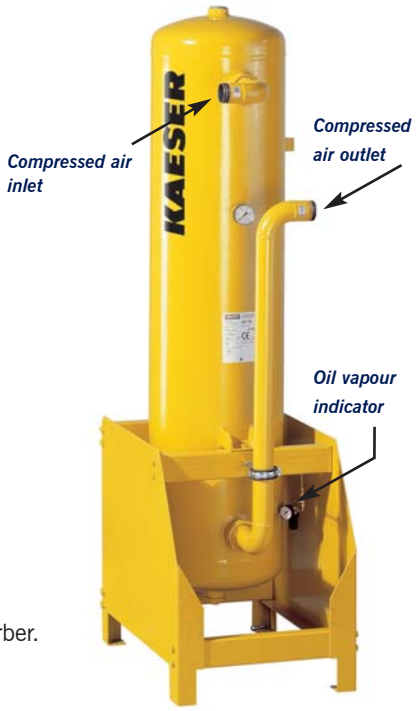
Application:

For low maintenance high air quality, fit an ACT activated carbon adsorber to remove 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 activated carbon service life** typically over 10,000 operating hours through generous sizing and optimised flow.
- **Generously sized 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.

Specifications

Model	Working pressure bar (g)	Flow rate* m³/min	Connection inch / DN	Weight kg	Dimensions H x W x D mm
ACT 12	16	1.17	R ½"	90	1920 x 350 x 750
ACT 18		1.83	R ¾"	105	1915 x 350 x 750
ACT 27		2.67	R ¾"	115	1930 x 350 x 750
ACT 33		3.33	R 1"	150	1950 x 350 x 750
ACT 50		5.00	R 1"	195	1950 x 550 x 750
ACT 75		7.50	R 1½"	200	1965 x 550 x 750
ACT 108		10.83	R 1½"	230	1965 x 550 x 750
ACT 133		13.33	R 2"	305	1965 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 950
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	2725 x 1540 x 1180
ACT 1173		117.73	DN 150	1545	2949 x 1565 x 1540
ACT 1545		154.53	DN 150	1621	3263 x 1779 x 1580

*) in accordance with ISO 7183, Option A: Reference conditions 1bar$_{(abs)}$, 20 °C; Operation: 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 fP	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 other working temperatures

Inlet temperature °C	25	30	35	40	45	50	55	60
Factor fT	3.1	1.7	1	0.57	0.33	0.19	0.11	0.061

Design example

Flow rate	7 m³/min*
Min. working pressure	8 bar$_{(g)}$
Max. inlet temperature	+40 °C
Pressure correction factor f_P	1.06
Temperature correction factor f_T	0.57

Formula: $\frac{\text{Flow rate}}{f_T \times f_P} = \frac{7\ m^3/min}{1.06 \times 0.57} = 11.59\ m^3/min$

Result: Model **ACT 133**

LGA InterCert Certified QM-System ISO 9001:2000
LGA InterCert Certified EM-System ISO 14001

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