



Application

Contec COMS (Contec Oil Mist Separators) for the extraction and filtration of oil mist are used for large-scale compressors, gas and steam turbines, generators and other equipment with oil systems to ensure clean, oil-free exhaust air. 99.98% of solid and liquid particles and aerosols down to 0.1 micron are removed and high-quality oil can be regained. The COMS high-efficiency filter system prevent the emission of oil mist into the atmosphere and therefore guarantee oil-free technically absolutely clean exhaust air. Additionally due to the coalescing effect high-quality lubrication oil including all its additives is regained and recycled into the process.

Material

Housing	<ul style="list-style-type: none"> • Steel S235JR, fully galvanized, outside painted or • Stainless steel 316/316L, glass bead blasted or painted • Internal parts aluminium, no brass or copper or out of stainless steel
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General specification

Housing	Ø 500 x 910 mm
Pillar tube	300 mm
Dimensions	1.200 x 532 x 1.250 mm (L x B x H)
Inlet flange	DN 100 PN 16 or 4" ANSI 150 lbs RF
Exhaust	3" pipe socket with IG, DN 80 PN 16 or 3-4" ANSI 150 lbs RF
Weight	ca. 230 kg
Operation pressure	max. -0,2 to 0 bar
Operation tem.	max. 60 °C

Filter elements

Glass fibre fleece with inorganic binder

Type	COMS-3000-L-50
Quantity	13 off
Separation degree	99,98 % at 0,1 droplet size, Residual oil content < 0,1 mg/m ³ *

* tested by the Institute of Energy and Environmental Technology e. V. (IUTA) in Duisburg in accordance with ISO 12500-1:2007e

E-Motor

Power	2,2 kW
Voltage	230/400 V, 50 Hz
IP rating	IP 55

Available as "G"-series with foreign motor acc. specification

Side channel blower

Sound Pressure Level	76 dB(A) at 50 Hz
Flow rate	360 Nm ³ /h at -60 mbar Δp 50 Hz 460 Nm ³ /h at -60 mbar Δp 60 Hz

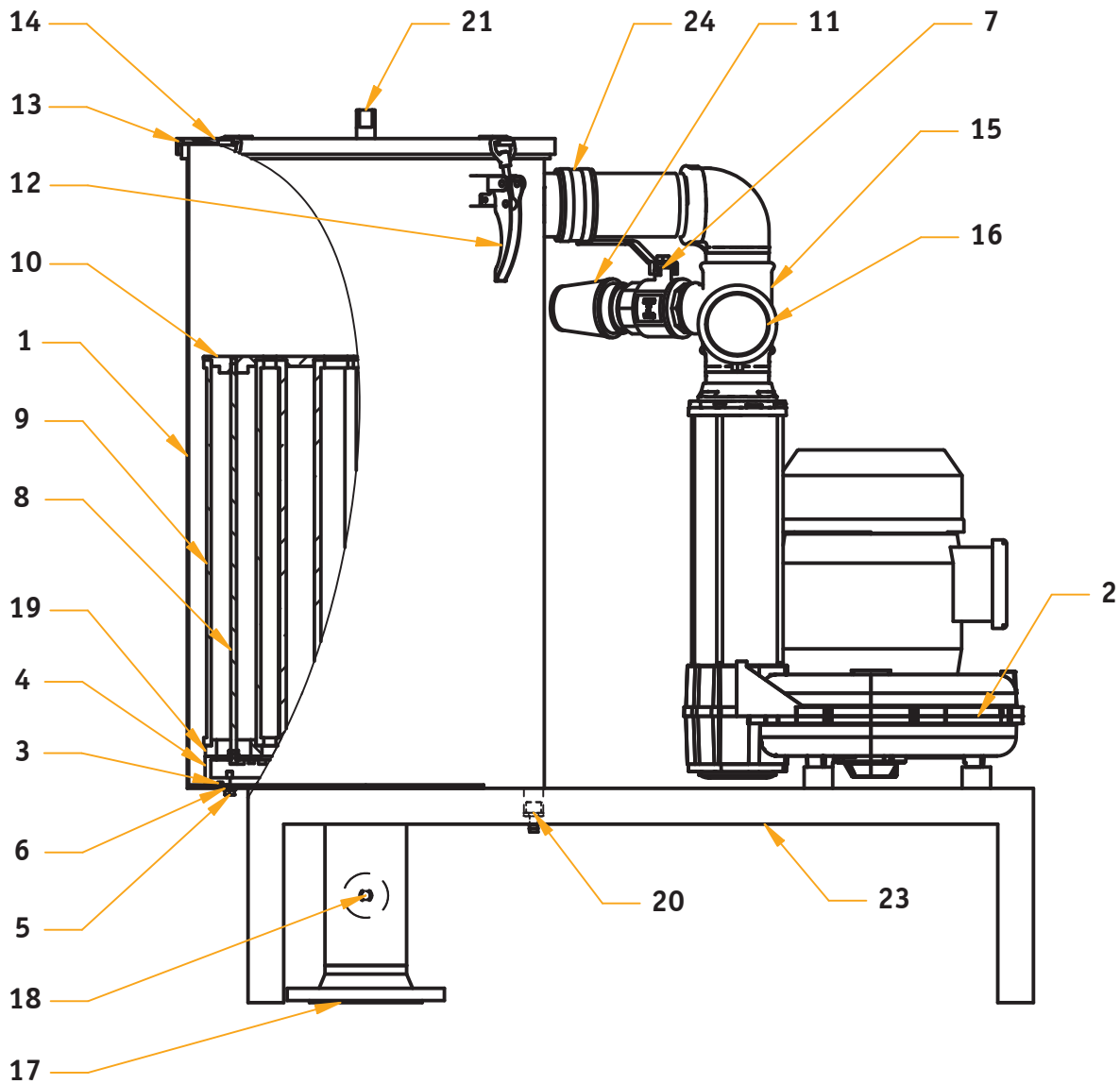
Scope of supply

The CONTEC-Oil Mist Separator are supplied fully assembled and ready for installation including:

- One set of filter elements
- Negative pressure gauge
- Hand ball valve for negative pressure control
- Air suction filter
- Oil sight flow glass

Options

- Ex/ATEX
- Redundant series (2 x 100 %)
- Integrated bypass
- Recirculator
- Series without motor/blower unit
- Adapter flange tube for inner oil return flow



The installation

1. Housing	12. Catch	23. ---
2. Side channel blower	13. O-Ring	24. ---
3. O-Ring	14. Housing Cover	25. ---
4. Filter base	15. Inlet T-Piece	26. ---
5. Fastening Screw	16. Exhaust	27. ---
6. Seal	17. Pillar Tube with Flange	28. ---
7. Hand Valve	18. Negative Pressure Gauge	29. ---
8. Tie Rod	19. Filter Element Base	30. ---
9. Filter element	20. Oil Drain Connection	31. ---
10. Retaining Cap	21. ---	32. ---
11. Air-Suction-Filter	22. ---	33. Oil drain sight glass