Oil Mist Separator type 300/935

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
- 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

General specification

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Housing Ø</td>
<td>400 x 513 mm</td>
</tr>
<tr>
<td>Pillar tube</td>
<td>300 mm</td>
</tr>
<tr>
<td>Total height</td>
<td>ca. 1.138 mm</td>
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<tr>
<td>Inlet flange</td>
<td>DN 100 PN 16 or 4” ANSI 150 lbs RF</td>
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<tr>
<td>Exhaust</td>
<td>1 1/4” pipe socket with IG, DN 32 PN 16 or 1 1/4” ANSI 150 lbs RF</td>
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<tr>
<td>Weight</td>
<td>ca. 50 kg</td>
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<tr>
<td>Operation pressure</td>
<td>max. –0.2 to 0 bar</td>
</tr>
<tr>
<td>Operation tem.</td>
<td>max. 60 °C</td>
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</tbody>
</table>

Filter elements

Glass fibre fleece with inorganic binder
- Type COMS-300-XS-50
- Quantity 9 off
- Separation degree 99,98 % at 0.1 droplet size,
  Residual oil content < 0.1 mg/m³**
  tested by the Institute of Energy and Environmental Technology e. V. (IUTA) in Duisburg in accordance with ISO 12500-1:2007

E-Motor

- Power 0,37 kW
- Voltage 230/400 V, 50 Hz
- IP rating IP 55
- Available as "G"-series with foreign motor acc. specification

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

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The installation

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