

# FRANKE-FILTER GMBH

## Troubleshooting and error correction



The following points contain step-by-step instructions for determining the cause of why your Oil Mist Separator might be operating incorrectly.

If you need further assistance, please feel free to contact us directly at +49 (0) 5064 9040 or send an e-mail to [info@franke-filter.de](mailto:info@franke-filter.de). We will take care of your concern immediately and provide you with assistance.

Fault	Possible cause	Troubleshooting
<b>Oil or oil mist escaping from the clean air pipe</b>  <b>or</b>  <b>Oil leakage at vacuum pump</b>	Filtered oil cannot drain	Check the shut-off valve of the oil return. It must be open during operation.
	Leakage at the oil return	Check compliance with geodetic height (see dimension A in sketch).  <u>If you're using a siphon:</u> Check that the siphon is filled with oil.  <u>Direct oil return:</u> Check that the oil return line is descent towards the tank and ends below oil level at each operating point.
	Oil is sucked in via the return pipe	Check compliance with geodetic height (see dimension A in sketch).
	Filter cartridge defective	Check the filter elements: - Switch off the vacuum pump - Remove screws of the filter lid and the lid itself - Check filter elements and their correct installation - Then close the filter lid properly again
	Maximum pressure reached	Replace filter elements
<b>Oil does not drain</b>	Oil return clogged	Check return pipe
	Shut-off valve on oil return is closed	Open the shut-off valve of the oil return
	Rising routing of the oil return line	Return pipe must have a gradient to the tank. Check the course of the line

## **Test to check whether oil is sucked into the filter housing via the return pipe during operation**

Initial situation:

Oil leaks from the vacuum pump of the Oil Mist Separator during operation.

### Possible cause of error:

Oil is sucked into the filter housing via the oil return pipe due to non-compliance with the geodetic height or non-submersion in the oil level/non-filling of the siphon.

### Testing steps:

1. Close the shut-off valve of the oil return on the filter housing
2. Remove leaked oil in the area of the vacuum pumps
3. After two days, document the amount of oil that has leaked out (if any), preferably by photo, and then remove any possible leaked oil again
4. Open the shut-off valve
5. After the same period of time (e.g. after two days) as before, document the amount of oil that has leaked out
6. If the oil quantity that leaked out when the valve was closed was less, the construction of the oil return line must be checked

### Troubleshooting:

Check whether the geodetic height was observed when setting up the Oil Mist Separator.

If this was not the cause or if you have further questions, please contact us and provide us with the following information:

- the commission number of the order
- the fabrication number of the equipment
- the type of the plant
- the pressure gauge reading of S6 and S7
- the current position of the secondary air valve
- the operating hours to date
- information on whether the leakage occurred from the beginning or at a later time
- if the Oil Mist Separator has several vacuum pumps, whether oil is leaking from only one or both (if redundant design)
- the documented quantities of oil that leaked during the above test

Thank you very much,

your FRANKE-Filter team