



Filter/Dryer

General points

The filter/dryer is used with systems with expansion valve. It is located in the high-pressure line between the condenser and the expansion valve. The task of the filter-dryer is to remove impurities from the refrigerant and dehumidify it. In addition, it removes air bubbles from the condensing refrigerant and serves as a refrigerant store so that only liquid refrigerant enters the expansion valve. Some versions have a viewing glass.

How it works

The liquid refrigerant enters the intake connection of the filter/dryer, flows through a hygroscopic filter and leaves the component at the output line. The upper part of the filter/dryer serves as a compensation chamber, the lower part as a refrigerant store and filter nest.



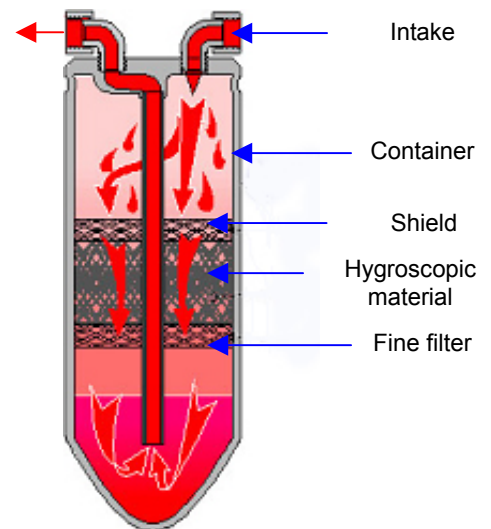
Effects of failure

Symptoms of filter/dryer failure can be:

- Poor cooling performance
- Failure of the air conditioning system

Reasons for failure of the filter/dryer can be:

- Too old
- Faulty filter cushion inside
- Leaks at the connection muffs or due to damage



Troubleshooting

The following steps must be taken into consideration during the troubleshooting process:

- Check maintenance intervals (every 2 years)
- Leak test/correct fit of the connections/any damage
- Pressure test on the high-pressure and low-pressure sides