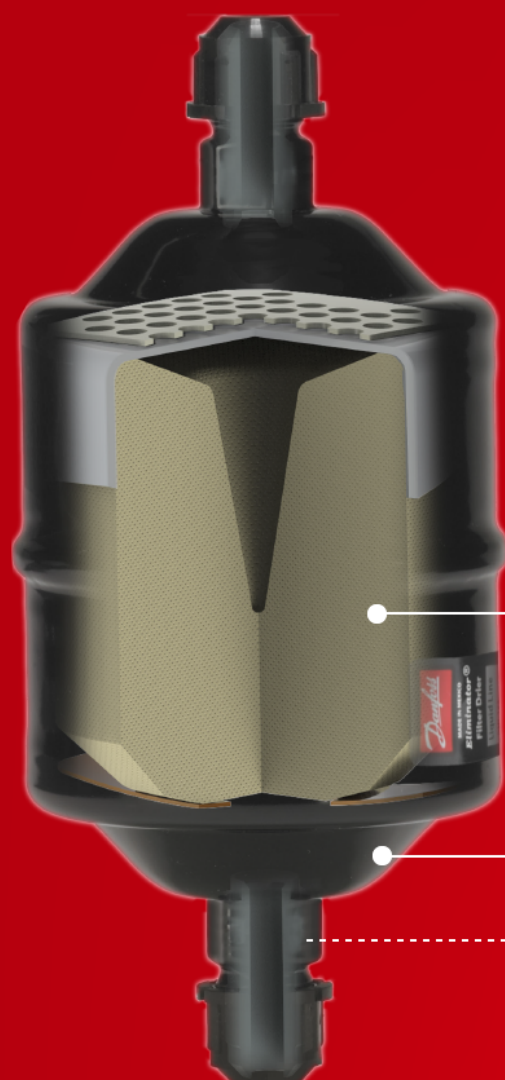


Filter Driers

ENGINEERING TOMORROW



Adsorption material

DM

100% molecular sieves can be used with all types of oil and additives

DC

80% molecular sieves, 20% activated alumina. Recommended for replacement after open systems

DA

Burn-out filters, 30% molecular sieves, 70% activated alumina

F

Strainer

Shell/ housing type

xxL

Standard filter

xxB

Bi-flow filter

xxC

Combi- receiver and filter

xxT

For transcritical and high pressure applications and filter

xxR

For exchangeable core types, DCR

Selection



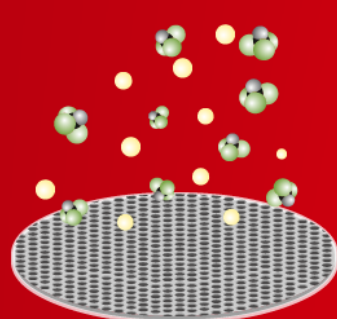
Select the type of core material based on the refrigerant and type of oil in the system. DC- types are recommended for replacements



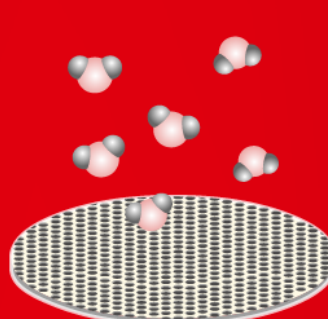
Select the size of the filter drier based on the system capacity, refrigerant and acceptable pressure drop.

Use Coolselector®2

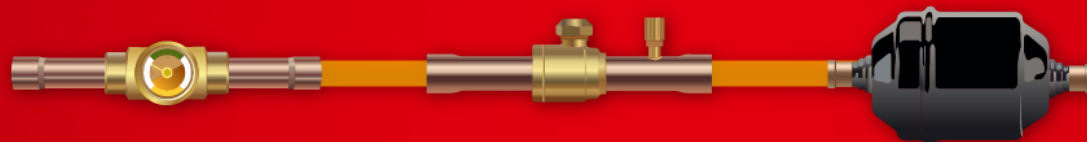
Traditional setup



Filter works as strainer, filter for dirt and impurities



Filter also retains moisture, water and some types also aciduous content



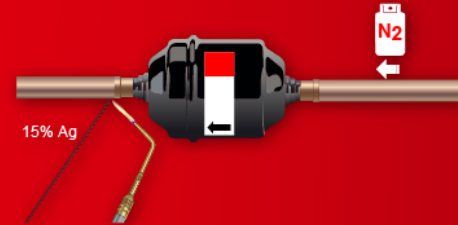
Handling and mounting



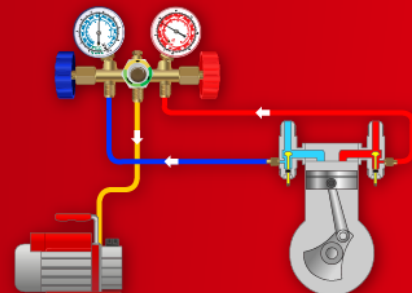
Keep the filter drier seals in place at all times and do not break the seals before the last moment before mounting!



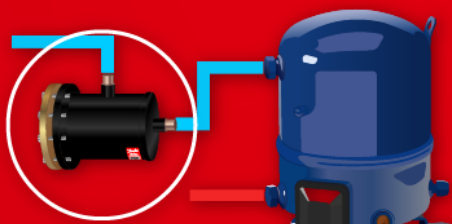
Be aware of the flow direction indicated by the arrow on the label



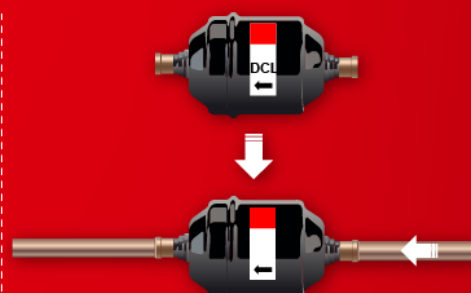
When brazing or welding, always apply N2 to the tubing while mounting



After mounting, remove any moisture from the system by evacuating to 0.05 mbar (abs)



Burn-out filters can be mounted in the suction line after motor break-downs on hermetic compressors or aciduous contamination



Often you will need to renew the filter drier several times, especially in new systems

Maintenance, trouble shooting



Temperature drops and/or frost or dew on the filter drier shell may indicate clogging and will require renewal of the filter

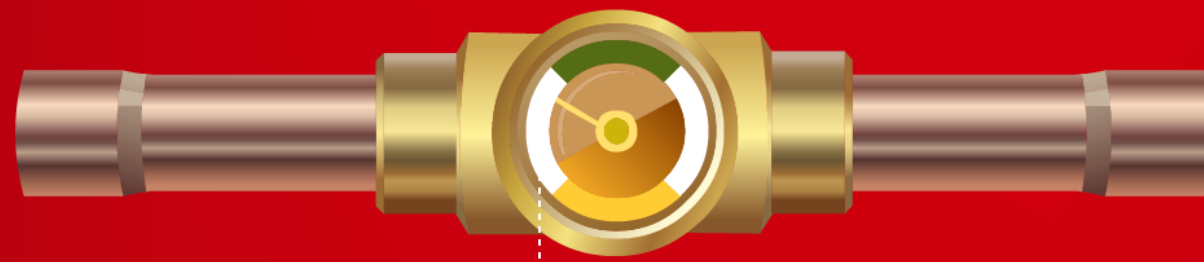


Test possible temperature differences between in- and outlet, use your hands



Keep an eye on the filter drier appearance. Also keep an eye on the sight glass

Sight Glasses



Types

SG

No moisture indicator

SGI

For mineral oil refrigerants

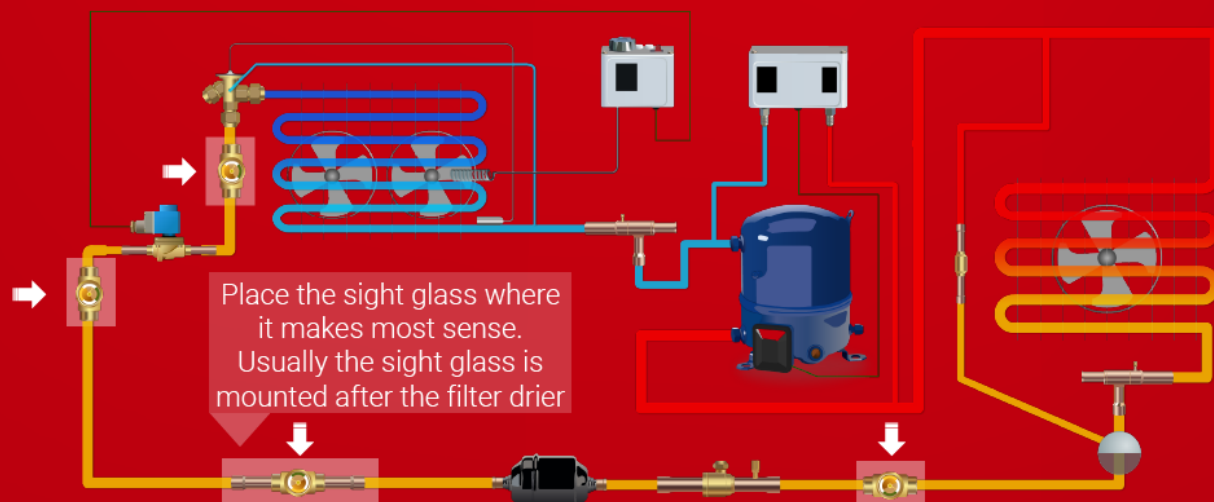
SGN

For HCFC, HFC and HFO refrigerants

SGP

For high pressure applications

Mounting



Place the sight glass where it makes most sense. Usually the sight glass is mounted after the filter drier

Also a vessel-mounted sight glass, the SGR types can be mounted in receivers