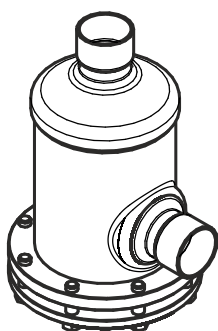


FILTER DRIER WITH REPLACEABLE CORE FP-SDF

Operation instruction



Filter drier shell designed to protect refrigeration and air-conditioning systems from solid parts, liquid and acid. Usually filter drier shell installed on liquid line before thermo-expansion valve or on suction line before compressor. Inside filter drier shell should be installed a standard replaceable core 48 cubic inch which can provide effective mechanical, acid or liquid protection depending on model. Filter drier shell FP-SDF compatible with HFC, CFC and HCFC refrigerants, mineral, alkyl benzene and polyolester oils.

SAFETY INSTRUCTION

- ⚠ Carefully read the following instruction. Ignoring this instruction may lead to failure of equipment and to personnel injuries.
- ⚠ Installation, service and maintenance should be done by qualified personnel which has all the necessary work permits, knowledge and skills.
- ⚠ Prior to installation make sure that pressure in the system equals to surrounding's. Do not let refrigerant into air. It is not allowed to use filter driers with prohibited refrigerants and substances.
- ⚠ When working with polluted systems avoid breathing in acid vapors and letting refrigerant or oil on skin. It may lead to chemical burns and skin injuries.
- ⚠ Filter drier shell is a non repairable product, in case of damage it must be replaced.

INSTALLATION INSTRUCTION

- Installing filter make sure that arrow on label matches the refrigerant's flow direction in the system. It is recommended to install filter drier as close as possible to thermo expansion valve. If solenoid valve and moisture indicator are installed filter drier must be put before these elements.
- When installing filter drier ensure that in and out fittings are not directed to the ground.
- Provide enough space from the cup side for comfortable core exchange.
- During soldering additional cooling must be provided so that filter drier shell's temperature does not exceed 150C. In order to avoid oxides blow inert gas through the system during soldering.
- In order to remove liquid vacuum the system before starting compressor.
- It is recommended to change core in case of opening the system, high level of liquid, changing compressor or over limit pressure drop.
- After core exchange use new flange gasket and put small amount of oil on it before screwing, never use old flange gasket.

TRANSPORTATION AND STORAGE

- It is recommended to store filter driers in a closed ventilated warehouse in a clean and non chemical aggressive environment under temperature from -40 C to + 100 C and humidity up to 80%. Terms of storage – 3 years.

DISMANTLING AND UTILIZATION

- Before dismantling filter drier make sure that pressure in the part of the tube where it is installed is equal to surrounding's, after dismantle the filter drier.
- Utilization must be done according to national regulations (for RF – according to “Rules for treatment with scrap and waste of ferrous metals and it's alienation”, approved by resolution of Government of Russian Federation from 11.05.2001, #369)

Tab.1. Specification

Parameter	Value
Max. working pressure	45 bar
Temperature range	от -40 до 70 °C
Compatibility	HFC, CFC and HCFC refrigerants, mineral, alkyl benzene and oils.
Material of shell	Steel
Material of connections	Copper
Cartridge volume	48 inch ³

Tab.2. Dimensions and connection sizes

Model	Connection sizes d, inch	L, mm	L ₁ , mm	H ₁ , mm
FP-SDF-058	5/8	235	153	90
FP-SDF-034	3/4	235	153	90
FP-SDF-078	7/8	242	160	97
FP-SDF-118	1 1/8	245	163	100
FP-SDF-138	1 3/8	250	168	105
FP-SDF-158	1 5/8	250	168	105
FP-SDF-218	2 1/8	250	168	105

