



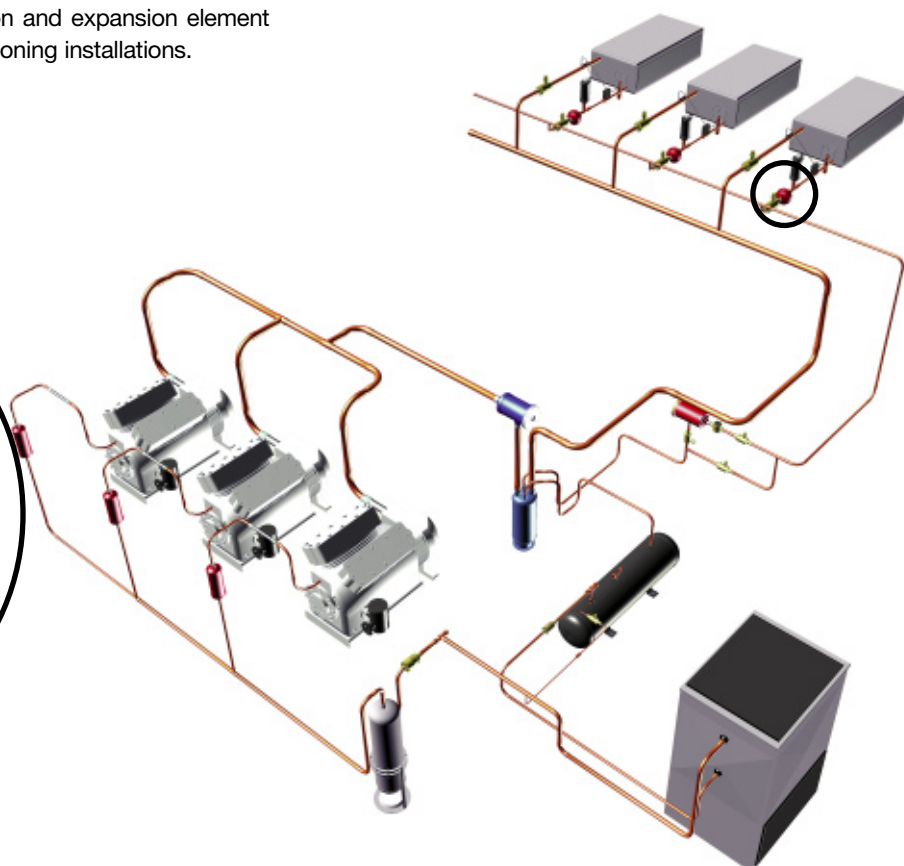
Dirt filters

→ FCY (permanent use)

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■ Applications

- Permanent refrigerant filtering, regulation and expansion element protection in refrigerating and air conditioning installations.



■ Functional features

- Products are compatible with HFCs, HCFCs, CFCs, as well as with their associated oils and additives. Products are designed for use of non-hazardous refrigerants from group 2 of PED 97/23/EC.
- Product classification in CE categories is performed using the PED 97/23/EC table, corresponding to a volume-based selection
- FCY dirt filters are entirely made of steel.
- Filtering at outlet preventing the propagation within the circuit of particles bigger than 12 microns.

■ CARLY advantages

- Compact products for ease of assembly in reduced footing.
- Internal retention system with minimum pressure drop, preventing the release of trapped contaminating agents.
- Very large filtering area that limits pressure drop.
- Connections to solder are made of copper-plated steel up to connections diameter 3/4" included and allow the use of filler metals with a low silver content; their resistance to pressure is much higher than that of full copper connections.
- GOST certified products.



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■ Recommendations

- * FCY dirt filters are to be mounted on the liquid line between the receiver and the expansion element.
- * Never use these dirt filters on the oil line; in such a case, use HCYF oil filters, or HYDROIL filter driers for POE oils (refer to chapters 45 and 46).
- * The refrigerant flow direction, indicated by an arrow on the filter tag, should be complied with.
- * Dirt filter mounting is to be performed

horizontally, in order to allow proper operation of the contaminating agent retention system.

- * Be careful to properly select the solenoid valves located downstream of the filters; their oversizing could cause liquid hammer phenomena hindering the filters' proper mechanical behaviour; these liquid hammer phenomena can originate from other sources, in long-piping installations; in case of doubt, it is preferable to use

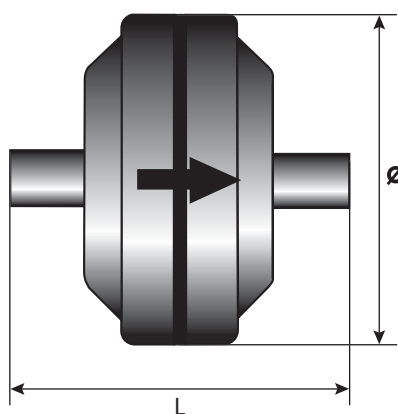
FILTRY dirt filters.

- * Never install the filters in an area of the circuit that can be isolated.
- * Never trap refrigerant in its liquid state (between a check valve and a solenoid valve, for instance).
- * General assembly precautions: refer to chapter 115.

■ Technical features

CARLY references	Connections		CARLY references	Connections To solder ODF mm	Filtering surface (cm ²)	Dimensions (mm)		Net weight (kg)
	To screw SAE inch	To solder ODF inch				Ø	L	
FCY 702	1/4				40	74	92	0,35
FCY 702 S		1/4	FCY 702 MMS	6	40	74	82	0,35
FCY 703	3/8				40	74	98	0,40
FCY 703 S		3/8	FCY 703 MMS	10	40	74	82	0,40
FCY 894	1/2				65	93	106	0,50
FCY 894 S		1/2	FCY 894 MMS	12	65	93	86	0,50
FCY 895	5/8				65	93	110	0,60
FCY 895 S/MMS		5/8	FCY 895 S/MMS	16	65	93	90	0,60
FCY 896 S		3/4	FCY 896 MMS	18	65	93	96	0,60
FCY 897 S		7/8	FCY 897 MMS	22	65	93	110	0,65
FCY 899 S		1 1/8	FCY 899 MMS	28	65	93	120	0,65
FCY 8911 S/MMS		1 3/8	FCY 8911 S/MMS	35	65	93	140	0,85

(1) Chapter "Connection features and drawings" (refer to chapter 114).





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■ Technical features

CARLY references		Volume V (L)	Maximal working pressure PS (bar)	Working pressure (1) PS BT (bar)	Maximal working temperature TS maxi (°C)	Minimal working temperature TS mini (°C)	Working temperature (1) TS BT (°C)	CE Category (2)
FCY 702		0,15	42	10	80	-40	-20	Art3§3
FCY 702 S	FCY 702 MMS	0,15	42	10	80	-40	-20	Art3§3
FCY 703		0,15	42	10	80	-40	-20	Art3§3
FCY 703 S	FCY 703 MMS	0,15	42	10	80	-40	-20	Art3§3
FCY 894		0,26	42	10	80	-40	-20	Art3§3
FCY 894 S	FCY 894 MMS	0,26	42	10	80	-40	-20	Art3§3
FCY 895		0,26	42	10	80	-40	-20	Art3§3
FCY 895 S/MMS		0,26	42	10	80	-40	-20	Art3§3
FCY 896 S	FCY 896 MMS	0,26	42	10	80	-40	-20	Art3§3
FCY 897 S	FCY 897 MMS	0,27	42	10	80	-40	-20	Art3§3
FCY 899 S	FCY 899 MMS	0,29	42	10	80	-40	-20	Art3§3
FCY 8911 S/MMS		0,29	42	10	80	-40	-20	Art3§3

(1) The working pressure is limited to the PS BT value when working temperature is lower than or equal to TS BT value.

(2) Classification by volume, according to PED 97/23/EC (refer to chapter 0 page 7).

■ Weights and packaging

CARLY references	Unit weight (kg)		Packaging unit	
	With packaging	Without packaging	standard	OEM'S
FCY 702	0,39	0,35	16	/
FCY 702 S & MMS	0,39	0,35	16	/
FCY 703	0,44	0,40	16	/
FCY 703 S & MMS	0,44	0,40	16	/
FCY 894	0,57	0,50	1	/
FCY 894 S & MMS	0,57	0,50	1	/

CARLY references	Unit weight (kg)		Packaging unit	
	With packaging	Without packaging	standard	OEM'S
FCY 895	0,67	0,60	1	/
FCY 895 S/MMS	0,67	0,60	1	/
FCY 896 S & MMS	0,67	0,60	1	/
FCY 897 S & MMS	0,72	0,65	1	/
FCY 899 S & MMS	0,72	0,65	1	/
FCY 8911 S/MMS	0,92	0,85	1	/