



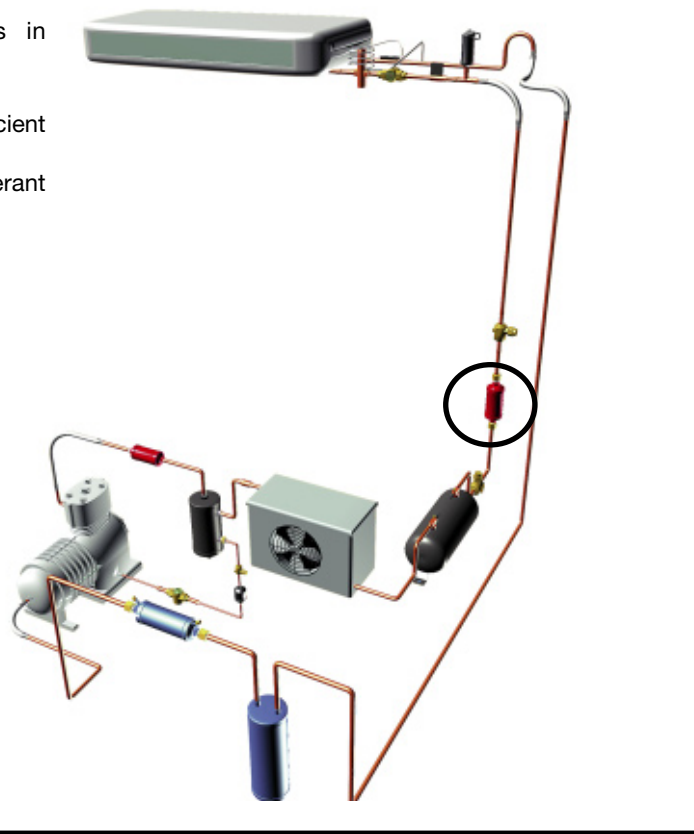
Cleaning filter driers (liquid or suction line)

→ NCY (temporary use)

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■ Applications

- Cleaning and decontamination of refrigerant circuits in refrigerating and air conditioning installations.
- Temporary uses:
 - new installations during start-up period for a very efficient protection of compressors against all types of dirt.
 - existing installations for an efficient cleaning of the refrigerant after compressor burnout.



■ 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.
- Filtering at outlet preventing the propagation within the circuit of particles bigger than 12 microns.
- No desorption, even at high temperatures.
- A dispenser located at the intake ensures optimal distribution and permanent treatment of the whole refrigerant, inside the cleaning filter driers.
- They integrate all DCY anti-acid filter drier functions, plus:
 - a decantation filter located at the intake to stop the flow of particles such as iron and copper oxides, carbon, foundry sand, etc.
 - a permanent magnet located at the intake that traps the steel particles (except for models NCY 63 and 63 S/MMS).

■ CARLY advantages

- Great efficiency for acid, wax binding and oily sludge neutralization at all temperatures, thanks to a fair distribution of chemical agents present in the filters: molecular sieves, activated alumina, active charcoal.
- Chemical agents in the form of free grain, for increased performance and elimination of the risk of polluting the circuit with solid particles, consecutive to drying core break-up.
- Very economical cleaning process with no loss of time, because the installation is still running during the operation.
- Environmental protection and savings of refrigerant, because using these cleaning filters allows re-use of the refrigerant after pollution control.
- Two access valves that allow filter pressure drop measurement, and define its level of saturation (except for models NCY 63 and 63 S/MMS).
- 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

- * Cleaning filter driers are to be mounted on the suction line between the evaporator outlet and the compressor or in the liquid line just after the receiver.
- * The refrigerant flow direction, indicated by an arrow on the filter tag should be respected.
- * These filters are products intended for temporary use only; they should not be left permanently on the circuit.
- * Closely monitor the pressure drop thanks to the access valves, in order to prevent shortage of the refrigerant vapour required to cool the compressor engine.
- * After compressor burnout:
 - refer to the instructions given by the manufacturer, for circuit cleaning operations and compressor replacement
 - visually monitor the oil condition and acidity level with TESTOIL-MAS and TESTOIL-POE acidity tests (refer to chapter 91).
- * The decontamination procedure of a refrigerating circuit, after compressor burnout, using NCY cleaning filters, is identical to that for FNCY cleaning filters (description: refer to page 9.9).
- * General assembly precautions: refer to chapter 115.

■ Selection table (in a suction line)

CARLY references	Connections		CARLY references	Connections To solder ODF mm	Refrigerating capacity (kW) ⁽¹⁾				Dehydratable refrigerant capacity (kg of refrigerant) ⁽²⁾				Acid neutralization capacity (g) ⁽³⁾		
	To screw SAE inch	To solder ODF inch			R22	R134a	R404A R507	R407C R410A	R22 R407C		R134a R410A			R404A R507	
									24°C	52°C	24°C	52°C		24°C	52°C
NCY 63	3/8				1,5	1,4	1,0	1,5	15,0	14,5	17,0	15,5	14,5	13,5	3,95
NCY 63 S		3/8	NCY 63 MMS	10	1,5	1,4	1,0	1,5	15,0	14,5	17,0	15,5	14,5	13,5	3,95
NCY 73	3/8				4,3	3,9	2,8	4,3	40,0	34,0	50,0	37,0	38,0	31,0	10,00
NCY 73 S		3/8	NCY 73 MMS	10	4,3	3,9	2,8	4,3	40,0	34,0	50,0	37,0	38,0	31,0	10,00
NCY 74	1/2				5,7	5,2	3,7	5,7	40,0	34,0	50,0	37,0	38,0	31,0	10,00
NCY 74 S		1/2	NCY 74 MMS	12	5,7	5,2	3,7	5,7	40,0	34,0	50,0	37,0	38,0	31,0	10,00
NCY 75	5/8				14,4	13,1	9,3	14,2	70,0	61,0	80,5	69,0	69,5	56,0	18,51
NCY 75 S/MMS		5/8	NCY 75 S/MMS	16	14,4	13,1	9,3	14,2	70,0	61,0	80,5	69,0	69,5	56,0	18,51
NCY 76	3/4 BSP				16,2	15,2	10,6	16,0	70,0	61,0	80,5	69,0	69,5	56,0	18,51
NCY 76 S		3/4	NCY 76 MMS	18	16,2	15,2	10,6	16,0	70,0	61,0	80,5	69,0	69,5	56,0	18,51
NCY 77 S		7/8	NCY 77 MMS	22	18,7	17,0	12,2	18,5	70,0	61,0	80,5	69,0	69,5	56,0	18,51

⁽¹⁾ Refrigerating capacities according to Standard ARI 730-2001 for $T_o = 4.4^\circ\text{C}$, $T_k = 32^\circ\text{C}$ and $\Delta p = 0.21$ bar. If different conditions, refer to correction factors in chapter 112.

⁽²⁾ Dehydratable refrigerant capacity according to Standard ARI 710-86.

⁽³⁾ Acid neutralization capacity for a TAN of 0,05 (Total Acid Number).



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■ Selection table (in a liquid line)

CARLY references	Connections		CARLY references	Connections To solder ODF mm	Refrigerating capacity (kW) ⁽¹⁾				Dehydratable refrigerant capacity (kg of refrigerant) ⁽²⁾						Acid neutralization capacity (g) ⁽³⁾
	To screw SAE inch	To solder ODF inch			R22	R134a	R404A R507	R407C R410A	R22 R407C		R134a R410A		R404A R507		
									24°C	52°C	24°C	52°C	24°C	52°C	
NCY 63	3/8				24,0	23,0	17,0	24,5	6,5	5,5	7,0	6,0	6,5	5,5	3,95
NCY 63 S		3/8	NCY 63 MMS	10	24,0	23,0	17,0	24,5	6,5	5,5	7,0	6,0	6,5	5,5	3,95
NCY 73	3/8				24,5	24,0	18,0	25,0	6,5	5,5	7,0	6,0	6,5	5,5	10,00
NCY 73 S		3/8	NCY 73 MMS	10	24,5	24,0	18,0	25,0	6,5	5,5	7,0	6,0	6,5	5,5	10,00
NCY 74	1/2				41,5	40,0	32,0	43,0	9,5	9,0	11,5	10,0	9,5	8,0	10,00
NCY 74 S		1/2	NCY 74 MMS	12	41,5	40,0	32,0	43,0	9,5	9,0	11,5	10,0	9,5	8,0	10,00
NCY 75	5/8				70,0	68,0	51,0	72,0	9,5	9,0	11,5	10,0	9,5	8,0	18,51
NCY 75 S/MMS		5/8	NCY 75 S/MMS	16	70,0	68,0	51,0	72,0	9,5	9,0	11,5	10,0	9,5	8,0	18,51
NCY 76	3/4 BSP				90,0	86,5	65,5	83,5	15,0	14,5	17,0	15,5	14,5	13,5	18,51
NCY 76 S		3/4	NCY 76 MMS	18	90,0	86,5	65,5	83,5	15,0	14,5	17,0	15,5	14,5	13,5	18,51
NCY 77 S		7/8	NCY 77 MMS	22	110,0	105,0	80,0	115,0	15,0	14,5	17,0	15,5	14,5	13,5	18,51

⁽¹⁾ Refrigerating capacities according to Standard ARI 730-2001 for $T_o = 4.4^\circ\text{C}$, $T_k = 32^\circ\text{C}$ and $\Delta p = 0.07$ bar. If different conditions, refer to correction factors in chapter 112.

⁽²⁾ Dehydratable refrigerant capacity according to Standard ARI 710-86.

⁽³⁾ Acid neutralization capacity for a TAN of 0,05 (Total Acid Number).

■ Technical features

CARLY references	Volume	Maximal working pressure	Working pressure ⁽¹⁾	Maximal working temperature	Minimal working temperature	Working temperature ⁽¹⁾	CE Category ⁽²⁾	
								V (L)
NCY 63		0,17	42	10	80	-40	-20	Art3§3
NCY 63 S	NCY 63 MMS	0,17	42	10	80	-40	-20	Art3§3
NCY 73		0,39	42	10	80	-40	-20	Art3§3
NCY 73 S	NCY 73 MMS	0,39	42	10	80	-40	-20	Art3§3
NCY 74		0,41	42	10	80	-40	-20	Art3§3
NCY 74 S	NCY 74 MMS	0,41	42	10	80	-40	-20	Art3§3
NCY 75		0,41	42	10	80	-40	-20	Art3§3
NCY 75 S/MMS		0,41	42	10	80	-40	-20	Art3§3
NCY 76		0,68	42	10	80	-40	-20	Art3§3
NCY 76 S	NCY 76 MMS	0,68	42	10	80	-40	-20	Art3§3
NCY 77 S	NCY 77 MMS	0,68	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).



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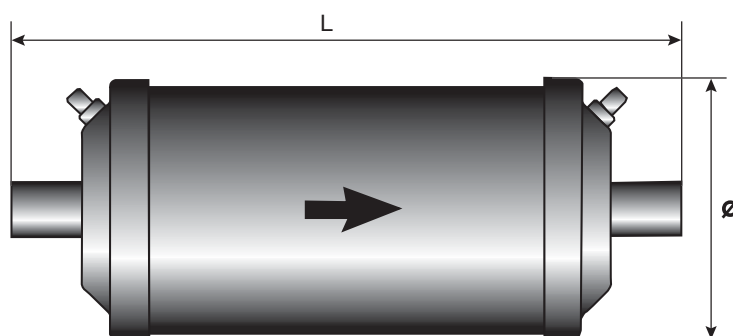
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■ Technical features

CARLY references		Connection types ⁽¹⁾	Filtering surface (cm ²)	Volume of desiccation products (cm ³)	Dimensions (mm)		Net weight (kg)
					Ø	L	
NCY 63		1	52	125,0	53,0	155,5	0,40
NCY 63 S	NCY 63 MMS	2	52	125,0	53,0	139,5	0,40
NCY 73		1	102	315,0	74,0	175,5	0,95
NCY 73 S	NCY 73 MMS	2	102	315,0	74,0	159,5	0,95
NCY 74		1	102	315,0	74,0	179,5	1,00
NCY 74 S	NCY 74 MMS	2	102	315,0	74,0	159,5	1,00
NCY 75		1	102	581,6	74,0	259,5	1,50
NCY 75 S/MMS		2	102	581,6	74,0	239,5	1,50
NCY 76		1	102	581,6	74,0	267,5	1,50
NCY 76 S	NCY 76 MMS	2	102	581,6	74,0	245,5	1,50
NCY 77 S	NCY 77 MMS	2	102	581,6	74,0	259,5	1,55

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





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■ Weights and packaging

CARLY references	Unit weight (kg)		Packaging unit	
	With packaging	Without packaging	standard	OEM'S
NCY 63	0,43	0,40	24	/
NCY 63 S & MMS	0,43	0,40	24	/
NCY 73	0,99	0,95	16	/
NCY 73 S & MMS	0,99	0,95	16	/
NCY 74	1,04	1,00	16	/
NCY 74 S & MMS	1,04	1,00	16	/
NCY 75	1,54	1,50	16	/
NCY 75 S/MMS	1,54	1,50	16	/
NCY 76	1,54	1,50	16	/
NCY 76 S & MMS	1,54	1,50	16	/
NCY 77 S & MMS	1,59	1,55	16	/