



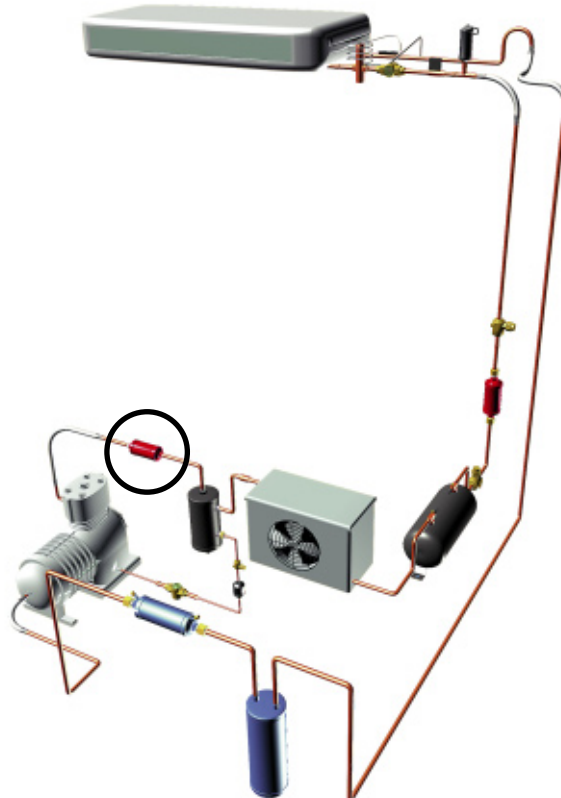
Discharge line mufflers

→ SCY

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■ Applications

- Reduction of noise caused by gas pulses in the discharge lines of 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.
- Discharge line mufflers are entirely made of steel.

■ CARLY advantages

- Design allows coverage of a wide range of frequencies.
- Discharge line muffler mounting is possible in vertical and horizontal positions. There is no oil trap whichever the position. The refrigerant can flow in both directions.
- Excellent distribution of the refrigerant in its gaseous phase, with minimum 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

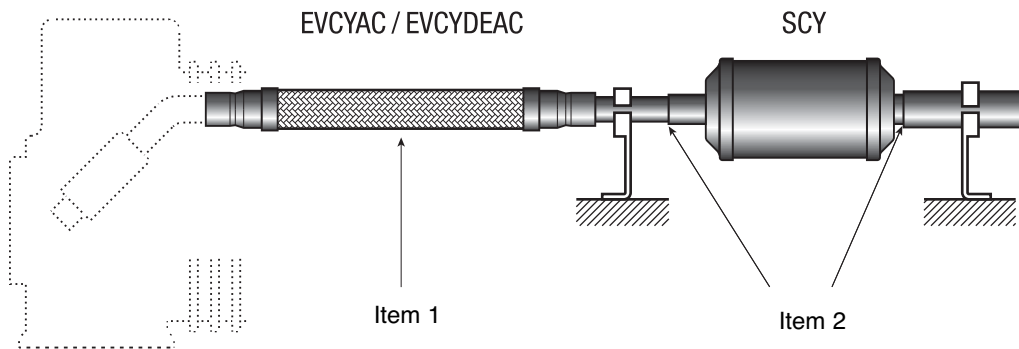
* The discharge line mufflers are to be mounted on the discharge gas line between the compressor and the condenser; the optimum muffler position will be determined according to your installation's features, by getting in touch with your distributor or with CARLY's technical services.

* In the case of a horizontal mounting, it is recommended to perform an inner connection at the intake point, and an outer connection at the muffler outlet point (refer to drawing below, item 2).

* Provide for efficient clamping before the intake and after the outlet of the mufflers (refer to drawing below).

* For increased efficiency, it is imperative to install, upstream of the discharge mufflers, that is to say between the muffler and the compressor, an EVCYAC standard or EVCYDEAC double-effect vibration eliminator (see drawing below, item 1) (refer to chapter 22).

* General assembly precautions: refer to chapter 115.



■ Selection table

CARLY references	Connections To solder ODF inch	CARLY references	Connections To solder ODF mm	Refrigerating capacity (kW)			
				R22	R134a	R404A R507	R407C R410A
SCY 30 S	3/8	SCY 30 MMS	10	7,0	5,5	8,0	7,5
SCY 40 S	1/2	SCY 40 MMS	12	11,5	9,0	14,0	13,5
SCY 50 S/MMS	5/8	SCY 50 S/MMS	16	19,0	15,0	22,5	22,0
SCY 60 S	3/4	SCY 60 MMS	18	27,5	21,5	32,5	31,5
SCY 70 S	7/8	SCY 70 MMS	22	38,5	30,0	45,5	43,5
SCY 90 S	1 1/8	SCY 90 MMS	28	60,0	47,0	71,0	68,0
SCY 110 S/MMS	1 3/8	SCY 110 S/MMS	35	94,0	73,5	111,0	108,0
SCY 130 S	1 5/8	SCY 130 MMS	42	134,0	105,0	160,0	152,0
SCY 170 S/MMS	2 1/8	SCY 170 S/MMS	54	229,0	179,5	273,5	260,0
SCY 210 S	2 5/8	SCY 210 MMS	67	350,5	274,5	418,5	398,0
SCY 250 S	3 1/8	SCY 250 MMS	80	497,5	390,0	594,5	565,0

⁽¹⁾ Refrigerating capacities for $T_o = 4^\circ\text{C}$, $T_k = 32^\circ\text{C}$ and $\Delta p = 0,21\text{bar}$.
If different conditions, refer to correction factors in chapter 112.



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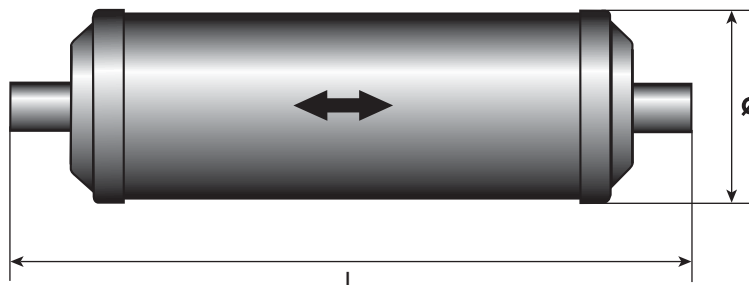
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■ Technical features

CARLY references		Connections types ⁽¹⁾	Dimensions (mm)		Net weight (kg)
			Ø	L	
SCY 30 S	SCY 30 MMS	2	53	162,5	0,35
SCY 40 S	SCY 40 MMS	2	53	162,5	0,35
SCY 50 S/MMS		2	53	166,5	0,35
SCY 60 S	SCY 60 MMS	2	93	163,0	0,95
SCY 70 S	SCY 70 MMS	2	93	183,0	1,05
SCY 90 S	SCY 90 MMS	3	93	283,0	1,50
SCY 110 S/MMS		3	93	303,0	1,65
SCY 130 S	SCY 130 MMS	3	93	303,0	1,75
SCY 170 S/MMS		3	127	681,0	6,20
SCY 210 S	SCY 210 MMS	3	156	626,0	9,85
SCY 250 S	SCY 250 MMS	3	156	872,0	13,70

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



CARLY references		Volume	Maximal working pressure	Working pressure ⁽¹⁾	Maximal working temperature	Minimal working temperature	Working temperature ⁽¹⁾	CE Category ⁽²⁾
SCY 30 S	SCY 30 MMS	0,18	42,0	10	120	-40	-20	Art3§3
SCY 40 S	SCY 40 MMS	0,18	42,0	10	120	-40	-20	Art3§3
SCY 50 S/MMS		0,18	42,0	10	120	-40	-20	Art3§3
SCY 60 S	SCY 60 MMS	0,56	42,0	10	120	-40	-20	Art3§3
SCY 70 S	SCY 70 MMS	0,57	42,0	10	120	-40	-20	Art3§3
SCY 90 S	SCY 90 MMS	1,09	42,0	10	120	-40	-20	Art3§3
SCY 110 S/MMS		1,10	42,0	10	120	-40	-20	Art3§3
SCY 130 S	SCY 130 MMS	1,12	42,0	10	120	-40	-20	Art3§3
SCY 170 S/MMS		5,59	35,0	10	120	-40	-20	I
SCY 210 S	SCY 210 MMS	8,89	31,5	10	120	-40	-20	II
SCY 250 S	SCY 250 MMS	12,57	31,5	10	120	-40	-20	II

⁽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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■ Weights and packaging

CARLY references	Unit weight (kg)		Packaging unit	
	With packaging	Without packaging	standard	OEM'S
SCY 30 S & MMS	0,38	0,35	24	/
SCY 40 S & MMS	0,38	0,35	24	/
SCY 50 S/MMS	0,38	0,35	24	/
SCY 60 S & MMS	1,02	0,95	6	/
SCY 70 S & MMS	1,12	1,05	6	/
SCY 90 S & MMS	1,57	1,50	6	/

CARLY references	Unit weight (kg)		Packaging unit	
	With packaging	Without packaging	standard	OEM'S
SCY 110 S/MMS	1,72	1,65	6	/
SCY 130 S & MMS	1,82	1,75	6	/
SCY 170 S/MMS	6,55	6,20	1	/
SCY 210 S & MMS	10,25	9,85	1	/
SCY 250 S & MMS	14,10	13,70	1	/