



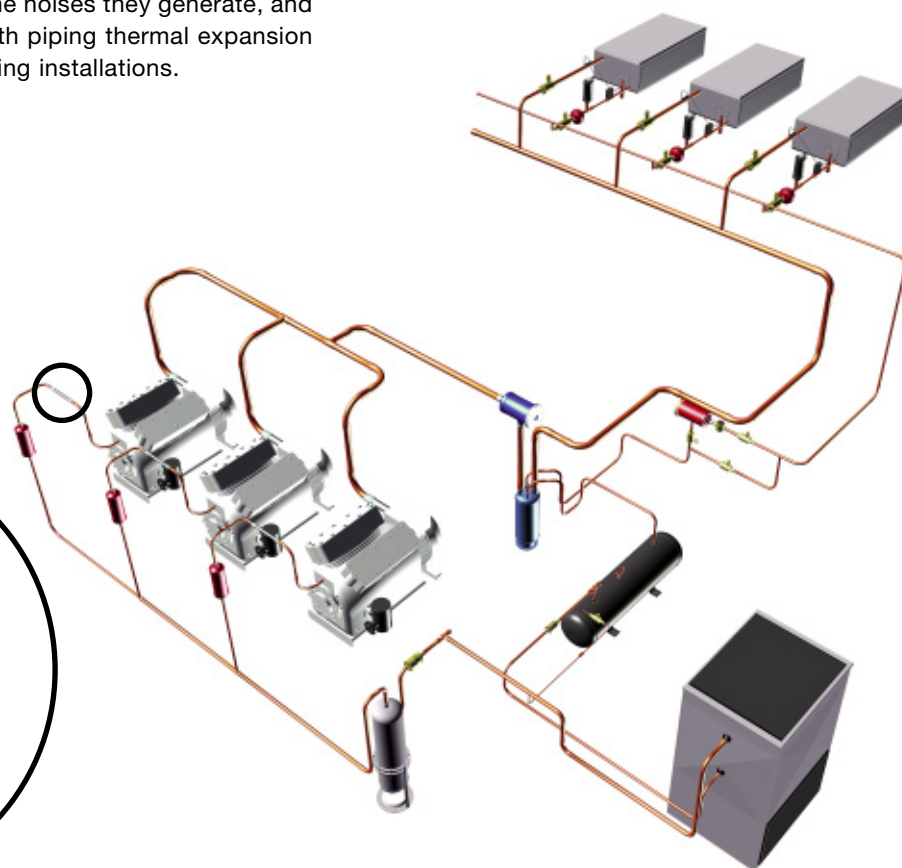
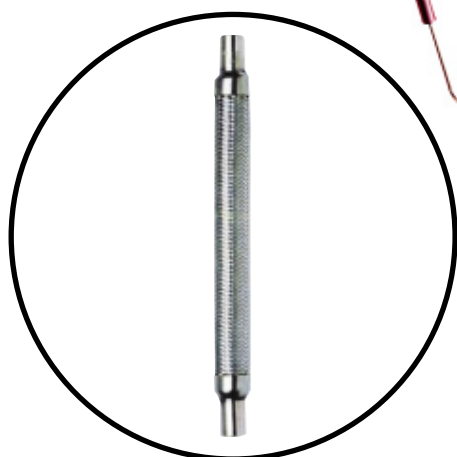
## Vibration eliminators

### → EVCYAC

01/10

#### ■ Applications

- Reduction of vibrations and of the noises they generate, and elimination of stresses linked with piping thermal expansion 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 nominal diameter-based selection.
- Flexible wavy stainless steel metallic hoses constituted of parallel waves from a tube welded end to end and covered with a stainless steel wire braid (refer to the sketch No. 2 page 22.3).
- Nickel-plated steel connections.
- Vibration eliminators are cleaned and dried before individual packaging under heat-sealed plastic tubular film.

#### ■ CARLY advantages

- Specifically designed in order to resist frost and major temperature shifts, from  $-40^{\circ}\text{C}$  to  $+120^{\circ}\text{C}$ .
- Principle for connecting the components together (stainless steel hose + air-tightness ring + braid + connection) by stainless steel TIG weld. This weld eliminates all risks of deteriorating the vibration eliminator by heat transfer during connection to the installation's piping.
- Very high mechanical resistance to corrosion.
- Long brazed or welded connections, in order to facilitate connection to installation.
- Unity helium air-tightness inspection.
- Stainless steel connections and specific lengths are available upon request.
- GOST certified products.



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## → EVCYAC

01/10

### ■ Recommendations

\* Mounting of vibration eliminators should be performed:

- on a piping straight-up part
- imperatively horizontal at compressor suction line
- without twisting, extension or axial compression stress
- preferably 90° in relation to vibration source

\* Warning, when put under pressure, the vibration eliminators can present a slight extension (about 2% of initial length); it is therefore necessary to take this into account during the assembly operation.

\* For the brazing operation, we recommend the use of a filler metal with a high silver content (55% for instance) and the use of a neutral gas inside the vibration eliminators in order to not trigger internal corrosion phenomena.

\* During the brazing operation, be careful that the scouring flux used does not come in contact with the hose and its braid.

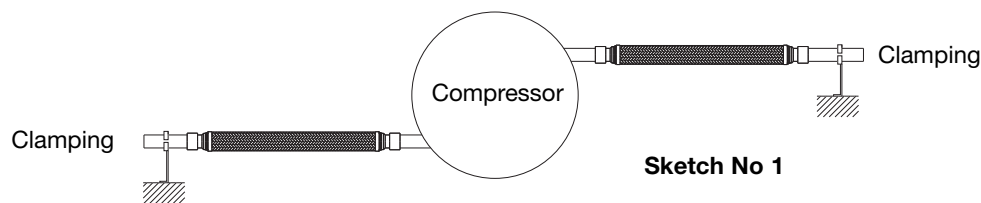
\* The connections' nickel lining holds ready nicely during temperature increase; it is nevertheless recommended to protect the connections after brazing with an appropriate product, against corrosion

risks.

\* Provide for clamping of the vibration eliminator ends that are located opposite the vibration source (refer to sketch No. 1).

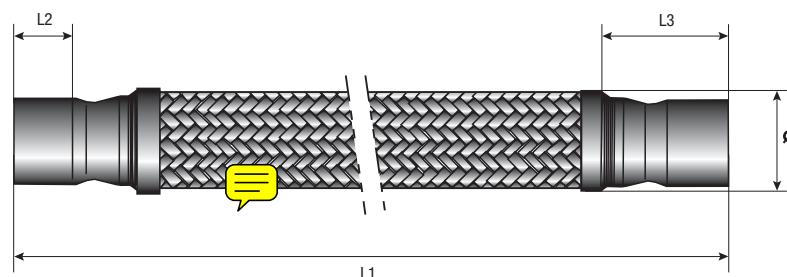
\* Do not isolate vibration eliminators with a heat insulating sleeve, in order to prevent water concentration that may freeze and deteriorate it.

\* General assembly precautions: refer to chapter 115.



### ■ Technical features

CARLY references	Connections To solder ODF inch	CARLY references	Connections To solder ODF mm	Dimensions (mm)				Net weight (kg)
				Ø +/- 0.6	L1 +/- 6	L2 +/- 1	L3 +/- 1	
<b>EVCYAC 2 S</b>	1/4	<b>EVCYAC 2 MMS</b>	6,0	12,7	200,0	6,0	16,0	0,05
<b>EVCYAC 3 S</b>	3/8	<b>EVCYAC 3 MMS</b>	10,0	18,0	221,0	9,0	20,5	0,10
<b>EVCYAC 4 S</b>	1/2	<b>EVCYAC 4 MMS</b>	12,0	20,3	242,0	11,0	23,5	0,10
<b>EVCYAC 5 S</b>	5/8	<b>EVCYAC 5 MMS</b>	15,0	26,3	288,0	14,0	29,0	0,20
<b>EVCYAC 6 S</b>	3/4	<b>EVCYAC 6 MMS</b>	18,0	30,9	318,0	15,5	33,0	0,25
<b>EVCYAC 7 S</b>	7/8	<b>EVCYAC 7 MMS</b>	22,0	30,0	318,0	18,0	42,0	0,30
<b>EVCYAC 9 S</b>	1 1/8	<b>EVCYAC 9 MMS</b>	28,0	38,2	360,0	20,0	50,5	0,45
<b>EVCYAC 11 S/MMS</b>	1 3/8	<b>EVCYAC 11 S/MMS</b>	35,0	46,2	406,0	30,0	55,5	0,75
<b>EVCYAC 13 S</b>	1 5/8	<b>EVCYAC 13 MMS</b>	42,0	58,2	472,0	30,0	68,0	1,35
<b>EVCYAC 17 S/MMS</b>	2 1/8	<b>EVCYAC 17 S/MMS</b>	54,0	71,0	560,0	40,0	88,0	2,40
<b>EVCYAC 21 S</b>	2 5/8	<b>EVCYAC 21 MMS</b>	67,0	87,7	670,0	50,0	105,0	3,90
<b>EVCYAC 25 S</b>	3 1/8	<b>EVCYAC 25 MMS</b>	80,0	108,0	760,0	55,0	124,0	5,70
<b>EVCYAC 29 S</b>	3 5/8	<b>EVCYAC 29 MMS</b>	88,9	134,6	895,0	55,0	142,0	7,95
<b>EVCYAC 33 S</b>	4 1/8	<b>EVCYAC 33 MMS</b>	108,0	134,6	930,0	60,0	160,0	8,85





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## → EVCYAC

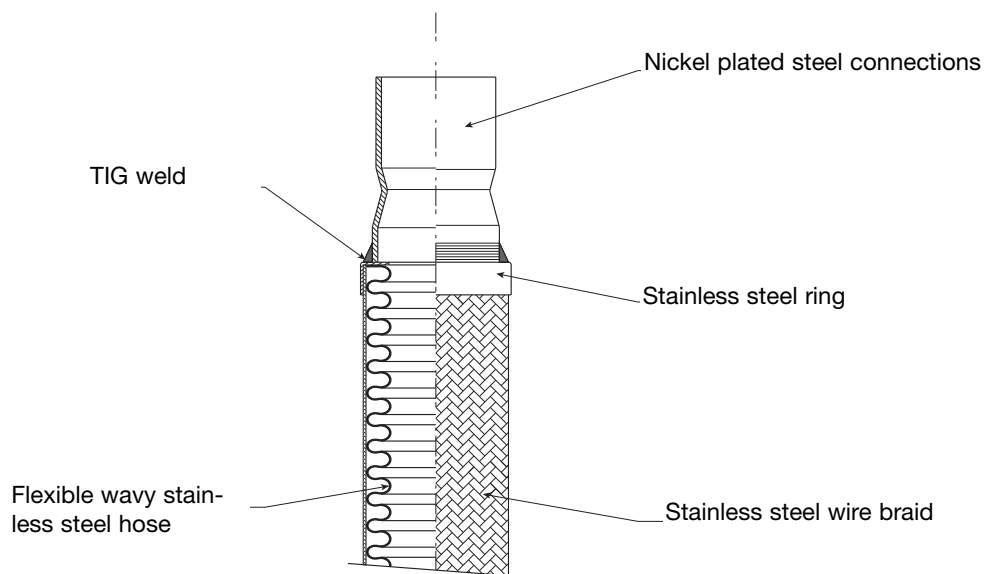
01/10

### ■ Technical features

CARLY references	Nominal diameter	CARLY references	Nominal diameter	Maximal working pressure	Working pressure (1)	Maximal working temperature	Minimal working temperature	Working temperature (1)	CE Category (2)
	DN (inch)		DN (mm)	PS (bar)	PS BT (bar)	TS maxi (°C)	TS mini (°C)	TS BT (°C)	
<b>EVCYAC 2 S</b>	1/4	<b>EVCYAC 2 MMS</b>	6,0	42	10	120	-40	-20	Art3§3
<b>EVCYAC 3 S</b>	3/8	<b>EVCYAC 3 MMS</b>	10,0	42	10	120	-40	-20	Art3§3
<b>EVCYAC 4 S</b>	1/2	<b>EVCYAC 4 MMS</b>	12,0	42	10	120	-40	-20	Art3§3
<b>EVCYAC 5 S</b>	5/8	<b>EVCYAC 5 MMS</b>	15,0	42	10	120	-40	-20	Art3§3
<b>EVCYAC 6 S</b>	3/4	<b>EVCYAC 6 MMS</b>	18,0	42	10	100	-40	-20	Art3§3
<b>EVCYAC 7 S</b>	7/8	<b>EVCYAC 7 MMS</b>	22,0	42	10	100	-40	-20	Art3§3
<b>EVCYAC 9 S</b>	1 1/8	<b>EVCYAC 9 MMS</b>	28,0	42	10	100	-40	-20	Art3§3
<b>EVCYAC 11 S/MMS</b>	1 3/8	<b>EVCYAC 11 S/MMS</b>	35,0	35	10	120	-40	-20	I
<b>EVCYAC 13 S</b>	1 5/8	<b>EVCYAC 13 MMS</b>	42,0	35	10	120	-40	-20	I
<b>EVCYAC 17 S/MMS</b>	2 1/8	<b>EVCYAC 17 S/MMS</b>	54,0	34	10	120	-40	-20	I
<b>EVCYAC 21 S</b>	2 5/8	<b>EVCYAC 21 MMS</b>	67,0	25	10	120	-40	-20	I
<b>EVCYAC 25 S</b>	3 1/8	<b>EVCYAC 25 MMS</b>	80,0	20	10	120	-40	-20	I
<b>EVCYAC 29 S</b>	3 5/8	<b>EVCYAC 29 MMS</b>	88,9	20	10	120	-40	-20	I
<b>EVCYAC 33 S</b>	4 1/8	<b>EVCYAC 33 MMS</b>	108,0	20	10	120	-40	-20	I

(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 diameter, according to PED 97/23/EC (refer to chapter 0 page 7).



Sketch No 2



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01/10

### ■ Weights and packaging

CARLY references	Unit weight (kg)		Packaging unit	
	With packaging	Without packaging	standard	OEM'S
<b>EVCYAC 2 S et MMS</b>	0,05	0,05	1	/
<b>EVCYAC 3 S &amp; MMS</b>	0,10	0,10	1	/
<b>EVCYAC 4 S et MMS</b>	0,10	0,10	1	/
<b>EVCYAC 5 S &amp; MMS</b>	0,20	0,20	1	/
<b>EVCYAC 6 S et MMS</b>	0,25	0,25	1	/
<b>EVCYAC 7 S &amp; MMS</b>	0,25	0,30	1	/
<b>EVCYAC 9 S et MMS</b>	0,45	0,45	1	/

CARLY references	Unit weight (kg)		Packaging unit	
	With packaging	Without packaging	standard	OEM'S
<b>EVCYAC 11 S/MMS</b>	0,75	0,75	1	/
<b>EVCYAC 13 S et MMS</b>	1,36	1,35	1	/
<b>EVCYAC 17 S/MMS</b>	2,41	2,40	1	/
<b>EVCYAC 21 S et MMS</b>	3,91	3,90	1	/
<b>EVCYAC 25 S &amp; MMS</b>	5,71	5,70	1	/
<b>EVCYAC 29 S et MMS</b>	7,95	7,95	1	/
<b>EVCYAC 33 S &amp; MMS</b>	8,86	8,85	1	/