

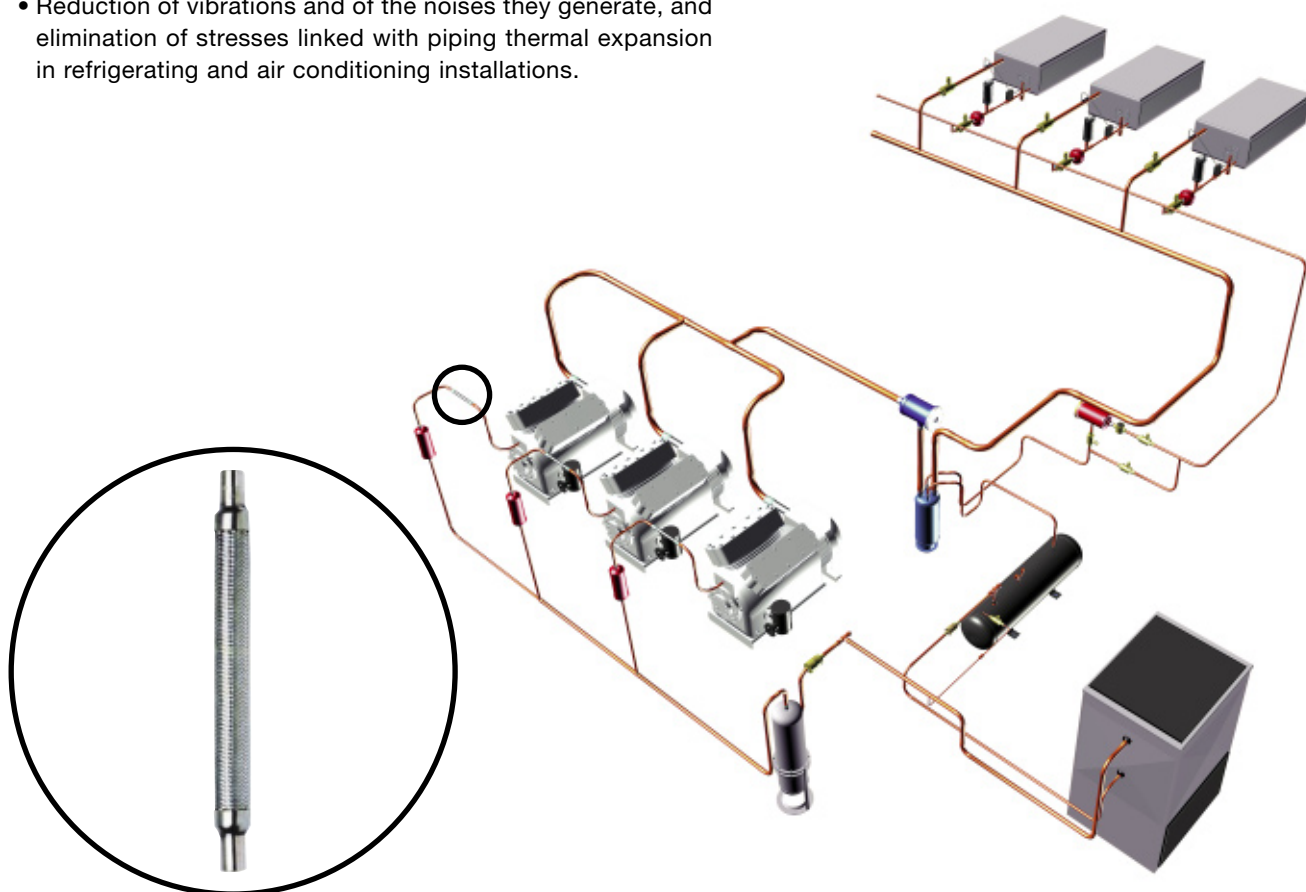
# Vibration eliminators

## → EVCYAC

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### ■ 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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### ■ 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.

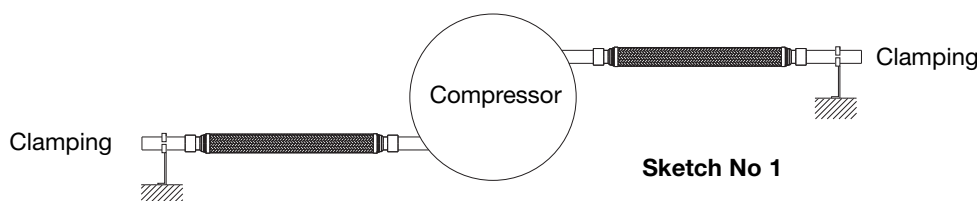
\* The connections' nickel lining holds really nicely during temperature increase; it is nevertheless recommended to protect the connections after brazing with an appropriate product, against corrosion

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.

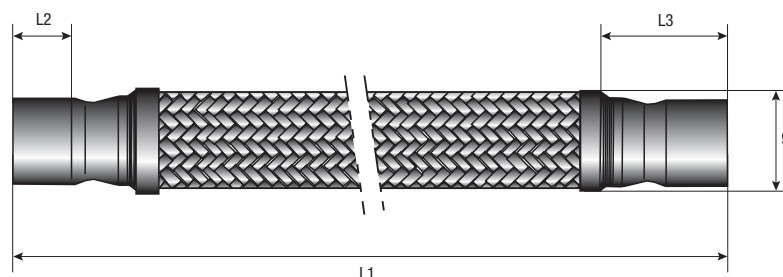
\* General assembly precautions: refer to chapter 115.



Sketch No 1

### ■ 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	
EVCYAC 2 S	1/4	EVCYAC 2 MMS	6,0	12,7	200,0	6,0	16,0	0,05
EVCYAC 3 S	3/8	EVCYAC 3 MMS	10,0	18,0	221,0	9,0	20,5	0,10
EVCYAC 4 S	1/2	EVCYAC 4 MMS	12,0	20,3	242,0	11,0	23,5	0,10
EVCYAC 5 S	5/8	EVCYAC 5 MMS	15,0	26,3	288,0	14,0	29,0	0,20
EVCYAC 6 S	3/4	EVCYAC 6 MMS	18,0	30,9	318,0	15,5	33,0	0,25
EVCYAC 7 S	7/8	EVCYAC 7 MMS	22,0	30,0	318,0	18,0	42,0	0,30
EVCYAC 9 S	1 1/8	EVCYAC 9 MMS	28,0	38,2	360,0	20,0	50,5	0,45
EVCYAC 11 S/MMS	1 3/8	EVCYAC 11 S/MMS	35,0	46,2	406,0	30,0	55,5	0,75
EVCYAC 13 S	1 5/8	EVCYAC 13 MMS	42,0	58,2	472,0	30,0	68,0	1,35
EVCYAC 17 S/MMS	2 1/8	EVCYAC 17 S/MMS	54,0	71,0	560,0	40,0	88,0	2,40
EVCYAC 21 S	2 5/8	EVCYAC 21 MMS	67,0	87,7	670,0	50,0	105,0	3,90
EVCYAC 25 S	3 1/8	EVCYAC 25 MMS	80,0	108,0	760,0	55,0	124,0	5,70
EVCYAC 29 S	3 5/8	EVCYAC 29 MMS	88,9	134,6	895,0	55,0	142,0	7,95
EVCYAC 33 S	4 1/8	EVCYAC 33 MMS	108,0	134,6	930,0	60,0	160,0	8,85



# Vibration eliminators

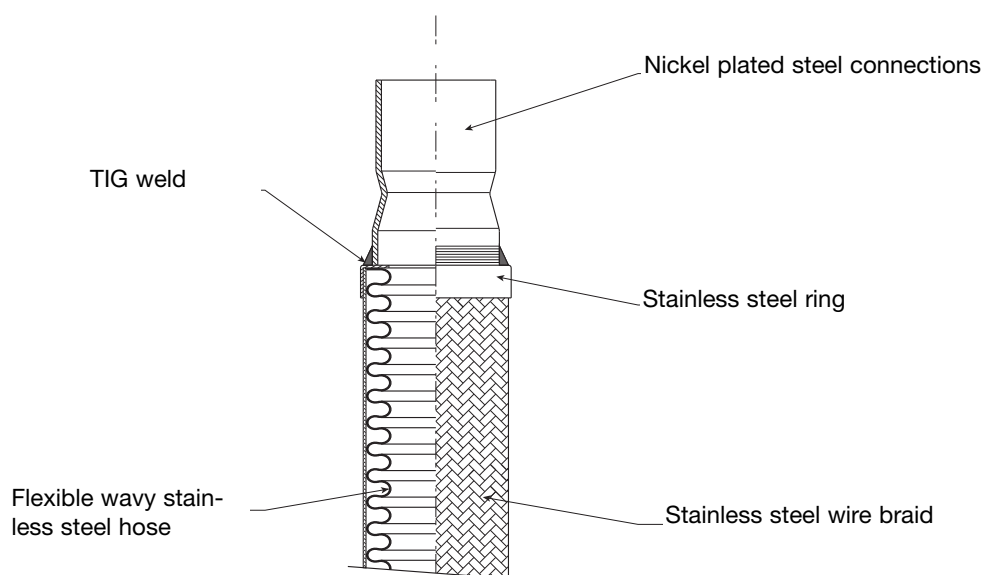
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### ■ Technical features

CARLY references	Nominal diameter	CARLY references	Nominal diameter	Maximal working pressure	Working pressure <sup>(1)</sup>	Maximal working temperature	Minimal working temperature	Working temperature <sup>(1)</sup>	CE Category <sup>(2)</sup>
	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

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

<sup>(2)</sup> Classification by diameter, according to PED 97/23/EC (refer to chapter 0 page 7).


Sketch No 2



# Vibration eliminators

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### ■ 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	/