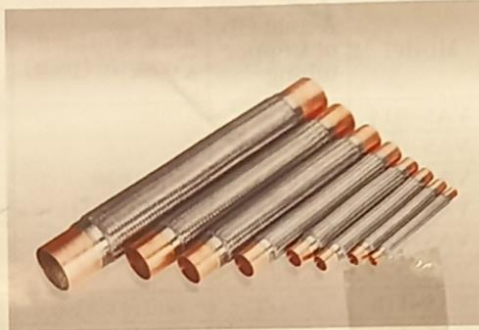


# COOLMATE VIBRATION ABSORBER



## Description

New DongHae Coolmate Vibration absorbers will be installed in the suction and discharge lines of Air conditioning and Refrigeration system to eliminate vibration and noise which compressor generates, and for reducing stress liked with piping thermal expansion in AC&R.

Each Vibration absorber is completely pressure and vacuum tested using an advanced helium and hydrogen leak detection devices. All units are carefully cleaned, dehydrated and sealed in plastic bag and packed into individual box after final inspection and it keeps dry and clean status to prevent dusts or rust.

New DongHae Coolmate Vibration absorbers are compatible with all kinds of refrigerants and lubricants.

## Features

- COPPER CONNECTION O.D. FROM 1/4 THROUGH 4-1/8 INCHES AND 6MM THROUGH 108MM METRIC SIZES
- AUTO BRAZED, TIG WELDED AND CLAMPED
- HELIUM AND HYDROGEN LEAK TESTED
- CLEANED AND SEALED IN PLASTIC BAG
- STAINLESS STEEL CORRUGATED TUBING AND HIGH TENSILE WIRE BRAID
- QUALITY ASSURANCE OF UL AND CE

NOTE: It will be changed without notice due to change of any design or improvement.

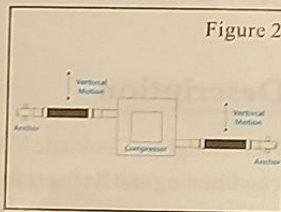
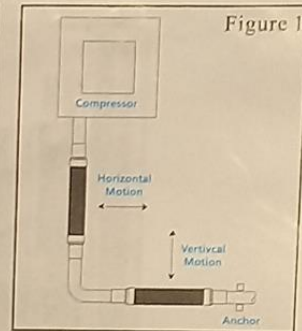


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## Installation

Install the unit as close to the compressor as possible in a straight line. The vibration absorbers are not designed to compensate for pipe-work misalignment.

Model	Actual OD of Copper tubing	Max. Working Pressure (psig)	Burst Pressure (psig)
VAS-014	1/4"	650 (44.8 bar)	3250 (224.0 bar)
VAS-038	3/8"		
VAS-012	1/2"		
VAS-058	5/8"		
VAS-034	3/4"		
VAS-078	7/8"		
VAS-118	1-1/8"	600 (41.3 bar)	3000 (206.8 bar)
VAS-138	1-3/8"	550 (37.9 bar)	2750 (189.6 bar)
VAS-158	1-5/8"	510 (35.1 bar)	2550 (175.8 bar)
VAS-218	2-1/8"	400 (27.5 bar)	2000 (137.8 bar)
VAS-258	2-5/8"	350 (24.1 bar)	1750 (120.6 bar)
VAS-318	3-1/8"	320 (22.0 bar)	1600 (110.3 bar)
VAS-358	3-5/8"	190 (13.1 bar)	570 (39.3 bar)
VAS-418	4-1/8"		



Need enough space not to cause any other expansion or contraction after brazing. The unit is not designed to absorb axial or torsional stress. The unit should be installed perpendicular to the direction of vibration. If vibration exists in two planes and it causes severe vibration, two units should be used as Figure 1 and 2. For optimum absorption of vibration, the refrigerant line should be installed in any area where the vibration does not occur, if possible.

Take special care to install the unit horizontally when used in suction lines or where operating temperatures are below freezing point. Condensation may form on the outside of the unit and if installed vertically this may accumulate in the lower braided collar. In subsequent freezing this may deform and destroy unit. If vertical installation is the only option, or indeed if condensation is possible with horizontal mounting, the entire flexible section, ferrules and braided hose, must be covered with a water tight synthetic material e.g. a heat shrinkable PVC sleeve.

### N.B.

1. All excess flux must be removed immediately after installation to prevent corrosion and premature failure.
2. Wrap the ferrule and start of braid with a wet cloth to prevent overheating and subsequent damage during brazing soldering.



3. Direct the torch away from the ferrule and braided section.



4. If condensation will collect and freeze, the entire flexible section, ferrules and braided hose, must be covered with water tight material.

