

Discharge Mufflers

The function of a Discharge Muffler is to reduce noise in the discharge line of a refrigeration or air-conditioning system. Mufflers have internal baffles designed for minimum pressure drop. These baffles change the velocity of the discharge gases passing through the muffler. Resulting in a dampening effect on high frequency sound waves on high speed compressors. Pulsating waves are also muffled in both low speed and high speed compressors.

The muffler is designed to be installed directly after the compressor. They are sized to the discharge line of the compressor.

The product range is designed for use with HCFC and HFC refrigerants, along with their associated oils.



Features

- Designed for maximum flow and minimal pressure drop.
- Robust design.
- Bi-directional flow.
- Special baffle design.
- Manufactured and tested to relevant pressure vessel codes.
- Powder coated finish.
- Oil drain passage.

Benefits

- Negligible loss in system efficiency.
- Guaranteed long life.
- Flexibility of installation.
- Cuts out the harmonic pulse.
- Quality and verified vessel integrity.
- Exceeds 500 hour salt spray tests.
- No oil collection when installed in the correct orientation.

Installation - Main Issues

- Install the mufflers as close as possible to the compressor and before the oil separator.
- When mounted in a horizontal or angled position, the connectors should always be installed in the low position to help prevent oil collection inside the muffler. Oil inside the muffler will reduce the performance along with causing a loss of oil in the compressor crankcase. Positioning the muffler at a slight angle so that the outlet port is below the inlet will also help prevent oil collection. Mufflers that are mounted vertically will not collect oil.

- A vibration eliminator should be installed between the compressor and the muffler to prevent transmitted vibration. The muffler should be supported at each side to prevent discharge pipe vibration, due to the weight of the muffler.
- Mufflers will only remove noise due to discharge gas pulsations. If the noise is due to vibration, vibration eliminators should be added to the discharge line and possibly the suction line.
- A single muffler may be installed on a common discharge line. However, some customers prefer to install one muffler per compressor on parallel racks.

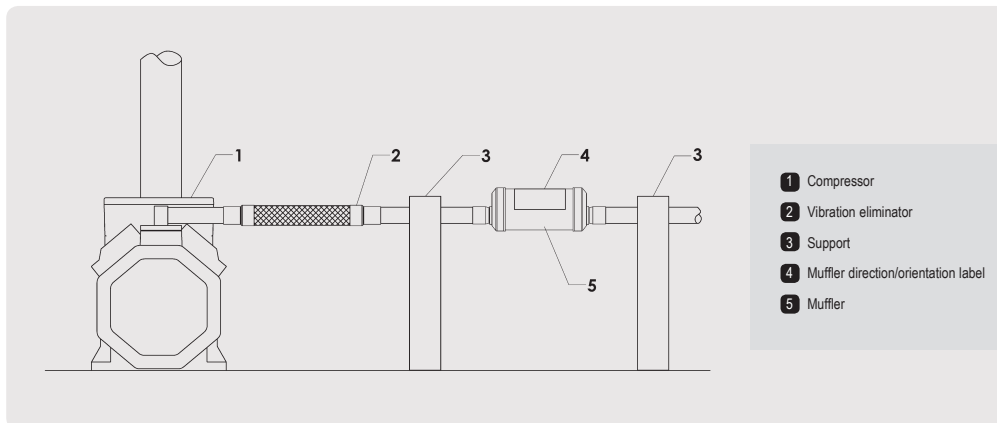
Materials of Construction

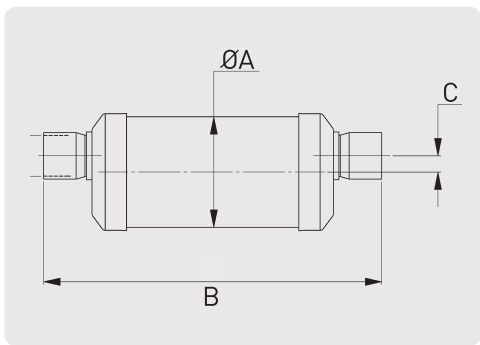
The main body and internal baffles are made from carbon steel. The connections are made from plated carbon steel.

Technical Specification

Allowable Operating Pressure = 0 to 3,100 kPa
 Allowable Operating Temperature = 0°C to 120°C (1/2 to 7/8 ID)
 Allowable Operating Temperature = -15°C to 120°C (1-1/8 to 3-1/8 ID)

CORRECT MUFFLER SUPPORT





Part No.	Connection Size (Inch)	Dimensions (mm)			Weight (kg)
		A	B	C	
S-6304	1/2	76	197	19	1.06
S-6305	5/8	76	197	19	1.08
S-6311	1 1/8	76	246	11	1.32
S-6407	7/8	102	178	24	1.62
S-6411	1 1/8	102	324	24	2.30
S-6413	1 3/8	102	349	24	2.62
S-6415	1 5/8	102	464	19	3.35
S-6621	2 1/8	152	533	32	8.20
S-6625	2 5/8	152	533	25	9.00
S-6631	3 1/8	152	568	19	10.0