

# Air Mount Type EM

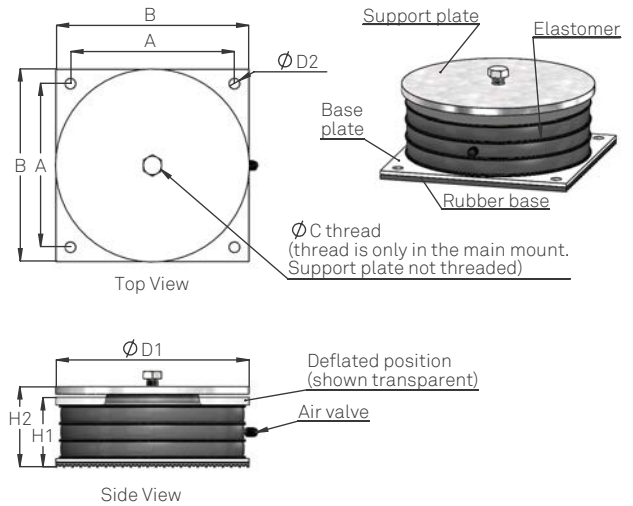
Air Mount 3.5Hz Natural Frequency

## APPLICATION

Embelton EM Air Mounts provide a very high level of isolation and are therefore useful for any machinery with low frequency vibration and high frequency peaks, or for high precision equipment. The EM range has a natural frequency between 3-5Hz. Typically used for diesel generators, chillers and cooling towers.

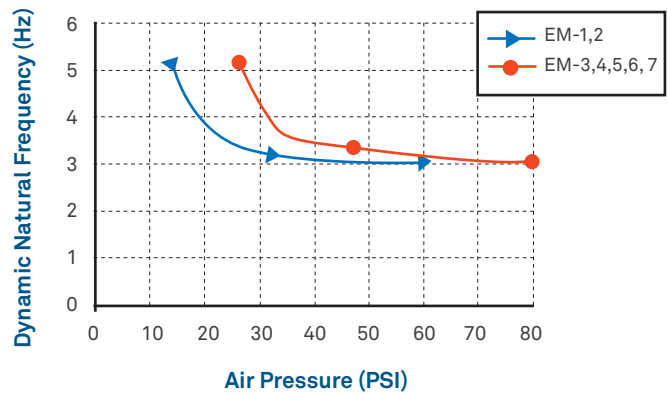
## FEATURES

- Rigid side walls provide a natural frequency of 10Hz when deflated
- Very low natural frequency
- Heavy duty construction
- Reinforced with steel hoops
- Low gas permeability



EM

## Vibration Performance Under Load



## EM PRODUCT GUIDE

Type	Max Load kg	Max Pressure PSI	Dimensions mm							Weight kg
			A	B	C	D1	D2	H1	H2	
EM-1	45	60	60	76	M10	76	7	62	75	0.75
EM-2	135	60	88.9	106	M12	106	7	62	74	1.2
EM-3	270	80	108	130	M12	130	7	87	101	2.4
EM-4	540	80	152	175	M12	175	7	89	105	5.8
EM-5	1,080	80	216	254	M16	254	14	91	105	10.8
EM-6	2,160	80	305	343	M16	343	14	93	107	22.3
EM-7	4,350	80	406	470	M24	470	21	97	111	48.0

## INSTALLATION

1. Ensure flat, level surface for the entire area under the Air Mount.
2. Lift equipment to a height of 125mm above the finished floor level.
3. Insert centre bolt through equipment foot and engage the thread a minimum of 3 turns (do not tighten).
4. Install hold down bolts to fit the holes D2 as shown on table.
5. Lower equipment onto air mounts.
6. Tighten all bolts. Hold down bolts should not be tightened more than 1 turn after finger tight.
7. Apply air pressure to each air mount until each mount is at height of H1 + 3mm.
8. Provide additional air pressure to each mount to achieve height of H2. Make sure that the maximum pressure is never exceeded.
9. Leveling can be achieved by increasing or decreasing the pressure in the air mounts. Varying the pressure has only a small effect on the natural frequency.

## GENERAL NOTES

1. Do not use Embelton EM Air Mounts under static loads greater than the rated maximum load.
2. Do not inflate air mounts without equipment weight on top of mount.
3. Do not exceed the maximum pressure given in the table.
4. Do not remove equipment weight without first deflating air mounts.
5. Adjust height of air mount to provide level within  $\pm 5$ mm for equipment to be supported.
6. Air mount natural frequency when fully deflated is approximately 10Hz.
7. Ratio of vertical stiffness to lateral stiffness for the air mount is approximately 1:1.
8. While the air mounts have very low gas permeability, all air mounts lose pressure over time. For this reason it is important to make sure that the valve is in an accessible area and an air supply is available.

## AIR MOUNT SELECTION

When selecting air mounts, it is recommended that the calculated mass of equipment is increased by 10-20% to avoid overloading of any element.

## TECHNICAL ASSISTANCE

All Embelton offices can provide detailed technical assistance on the use of this product in specific applications.

## CONDITIONS OF SALE

These products are sold subject to the published Embelton General Conditions of Sale, copies of which maybe inspected on request.

## SPECIFICATION

Air mounts shall be manufactured from low air permeability rubber compounds with galvanised steel plates. The system's vertical natural frequency shall be (specify Hz). They will be type EM as supplied by Embelton.