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Air-Conditioning & Ventilation Components & Systems

SPRING ISOLATORS

FR-E-56-...-A

ANTIVIBRATION PANELS

MEGAMAT ME 500



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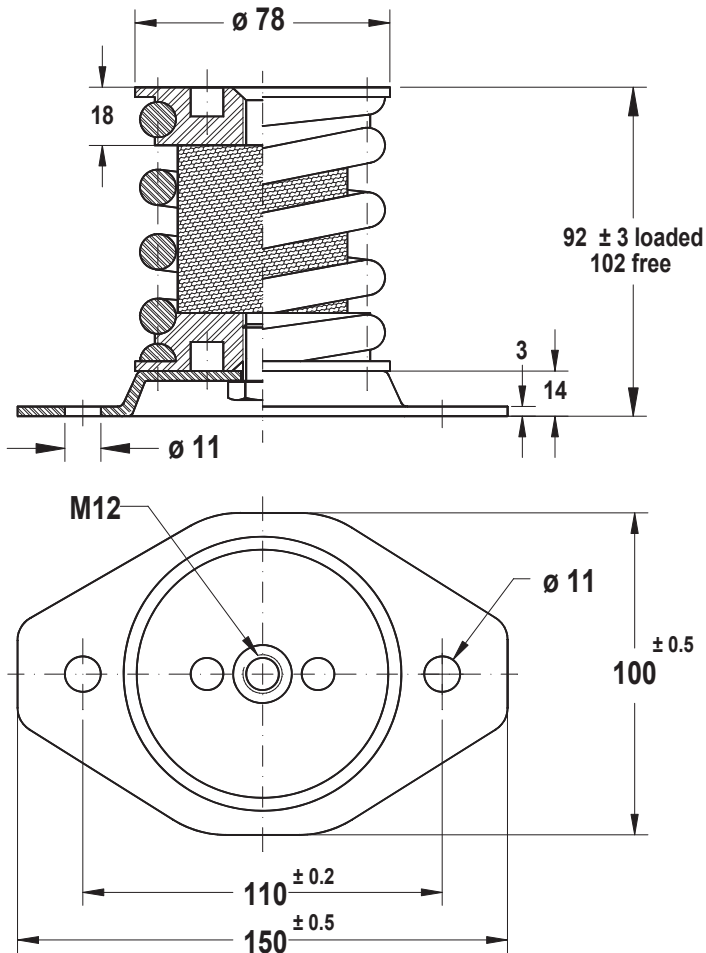


SPRING ISOLATORS **FR-E-56-...-A**

Spring isolator, type **FR-E-56-...-A**, for resilient suspension of rotating machines with rotational speed of > 600 rpm.

APPLICATIONS

Ventilators / Motors / Blowers / Pumps / Air conditioners / Test stands / Compressors / Scales, etc



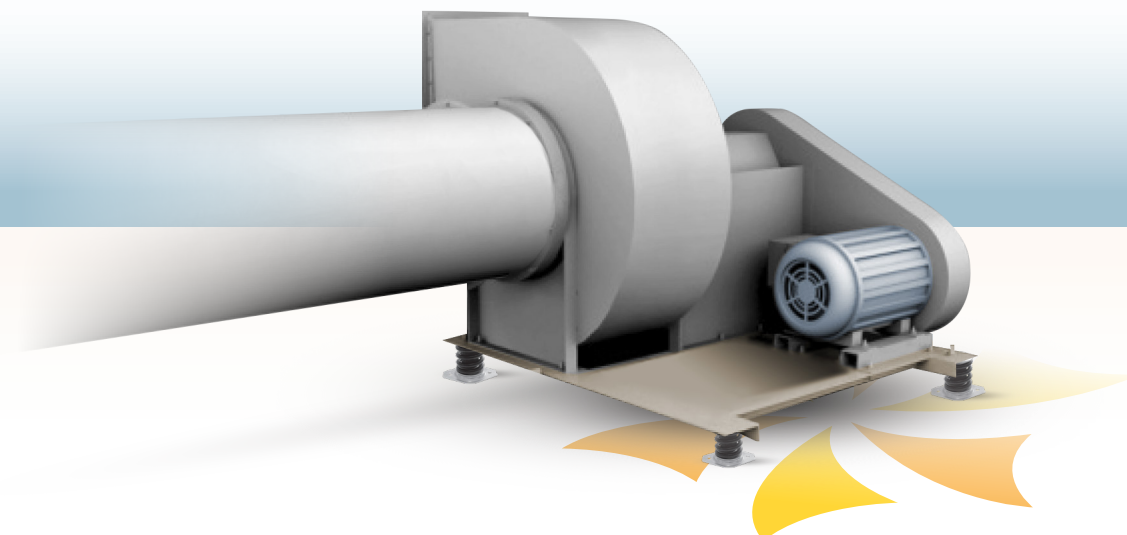
TECHNICAL SPECIFICATIONS

- Base plate of steel, zinc coated
- Spring made of spring steel wire, black coated
- Damping cushion of stainless steel wire
- Spring end caps of aluminium alloy
- Vertical natural frequency: 5 - 6 Hz
- Weight : 0,9 - 1,5 kg depending on the type

Elastic max. load:

Vertical	Horizontal
5 g	0,5 g

TYPE	LOAD
FR-E-56- 50 -A	30 - 50 daN
FR-E-56- 80 -A	50 - 80 daN
FR-E-56- 130 -A	80 - 130 daN
FR-E-56- 200 -A	130 - 200 daN
FR-E-56- 300 -A	200 - 300 daN
FR-E-56- 400 -A	300 - 400 daN



ANTIVIBRATION PANELS

MEGAMAT ME 500

Anti-vibration panels, type **MEGAMAT ME 500**, produced using fibers and granules of SBR rubber (Stirene Butadiene Rubber) along with granules of EPDM rubber (Ethylene Propylene Diene Monomer), all selected and compacted using a polyurethane glue in a hot process. For additional protection, a non-woven, non-stretch, waperproof synthetic membrane is applied on one side of panel.

- High performance in reduced thickness
- Easy to install
- Durable material

APPLICATIONS

The Megamat series is the ideal solution for noise pollution caused by vibrations and transmitted noise of machines, presses and / or air conditioners in the field of industry and construction.

Area of application	Compression load N/mm ²	Deflection %
Static range of use (static loads)	0,05	10
Operating load range (static plus dynamic loads)	0,05 ÷ 0,35	10 ÷ 30
Load peaks (short term, infrequent loads)	1,00	50



PANEL TECHNICAL DATA		ME 500	TOLERANCE	DIRECTIVE
Nominal thickness	mm	30 / 50	± 1	
Minimum rotation speed (depending the selected thickness)	rpm	1.200 / 950		
Width x length	m	1,00 x 1,00	± 1	
Density	kg/m ³	500	± 5 %	
Backing superficial mass	g/m ²	110		
Stress at strain 10%	N/mm ²	0,063	± 10%	UNI 11059
Static Modulus of Elasticity (Es) - strain 10%	N/mm ²	0,623	± 10%	UNI 11059
Dynamic Modulus of Elasticity (Ed) - strain 10%	N/mm ²	1,750	± 10%	UNI 11059
Static Shear Modulus (Gs)	N/mm ²	0,164	± 10%	ISO 1827
Loss factor (η)		0,143	± 0,009%	UNI 11059
Operating temperature range	°C	-20 / +110	± 5%	
Fire resistance class		B2		DIN 4102
Colour		Black / Red		

INSTALLATION FLEXIBILITY

Depending on the application, **ME 500** panels can be cut in various dimensions.

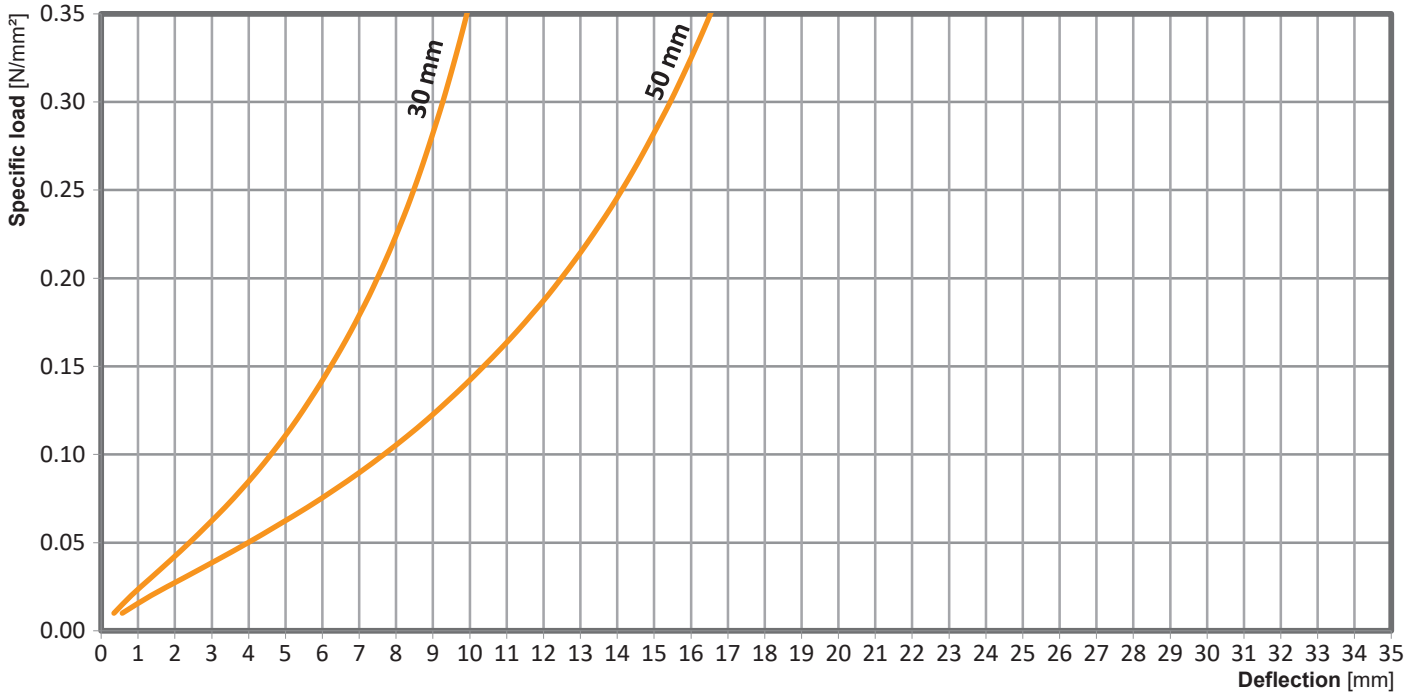
EXAMPLE

Custom panel dimensions	cm	15,00 × 15,00
Minimum static load / mounting point	Kg	110
Maximum static load / mounting point	Kg	565
Optimal operating load / mounting point	Kg	180

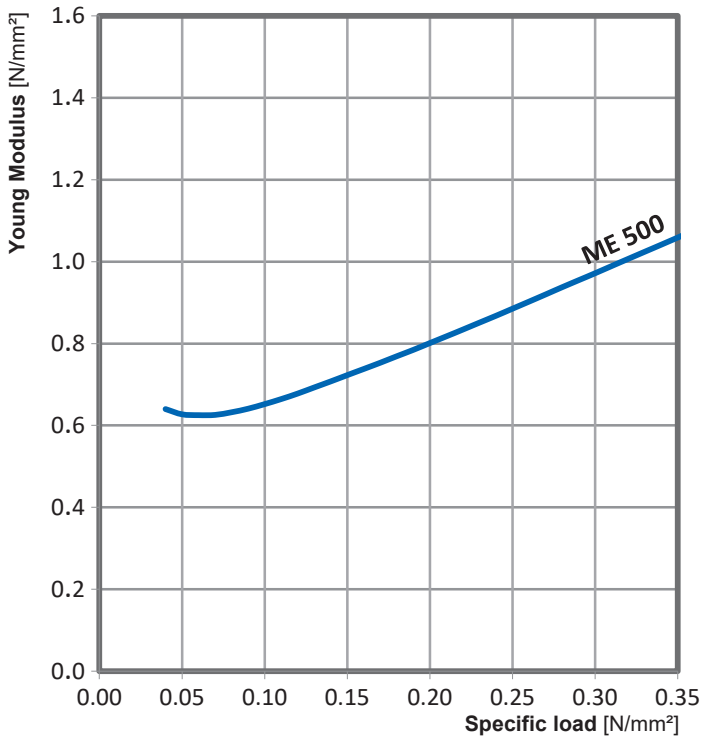
For a proper panel size selection, please consult with the AIRTECHNIC sales department.



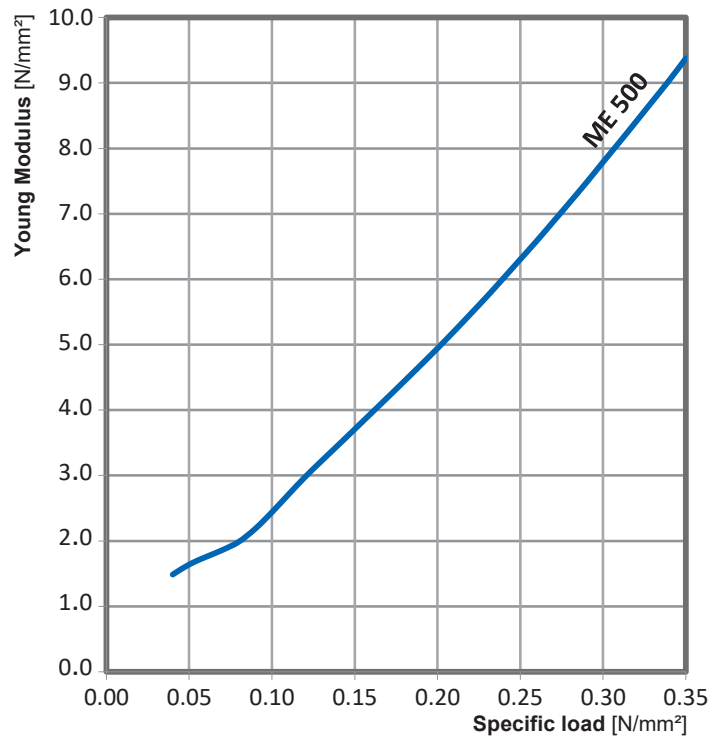
LOAD DEFLECTION CURVE



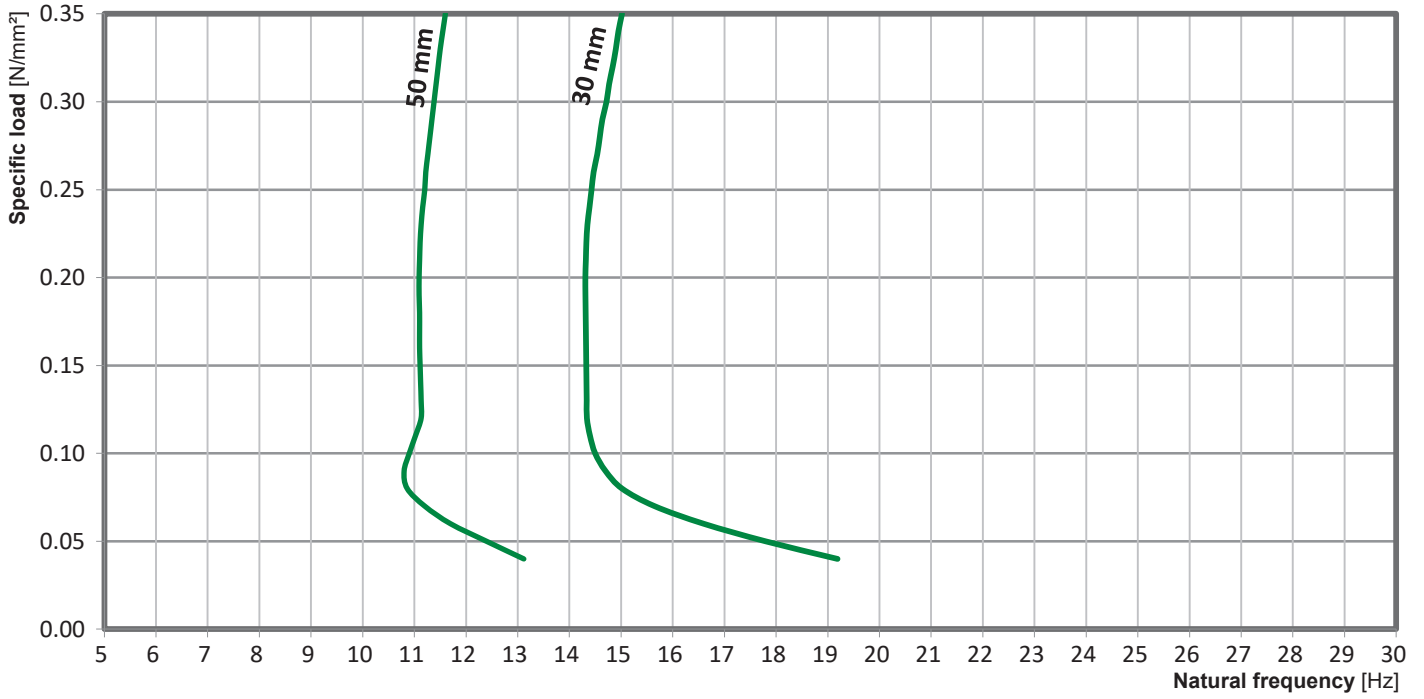
STATIC MODULUS of ELASTICITY



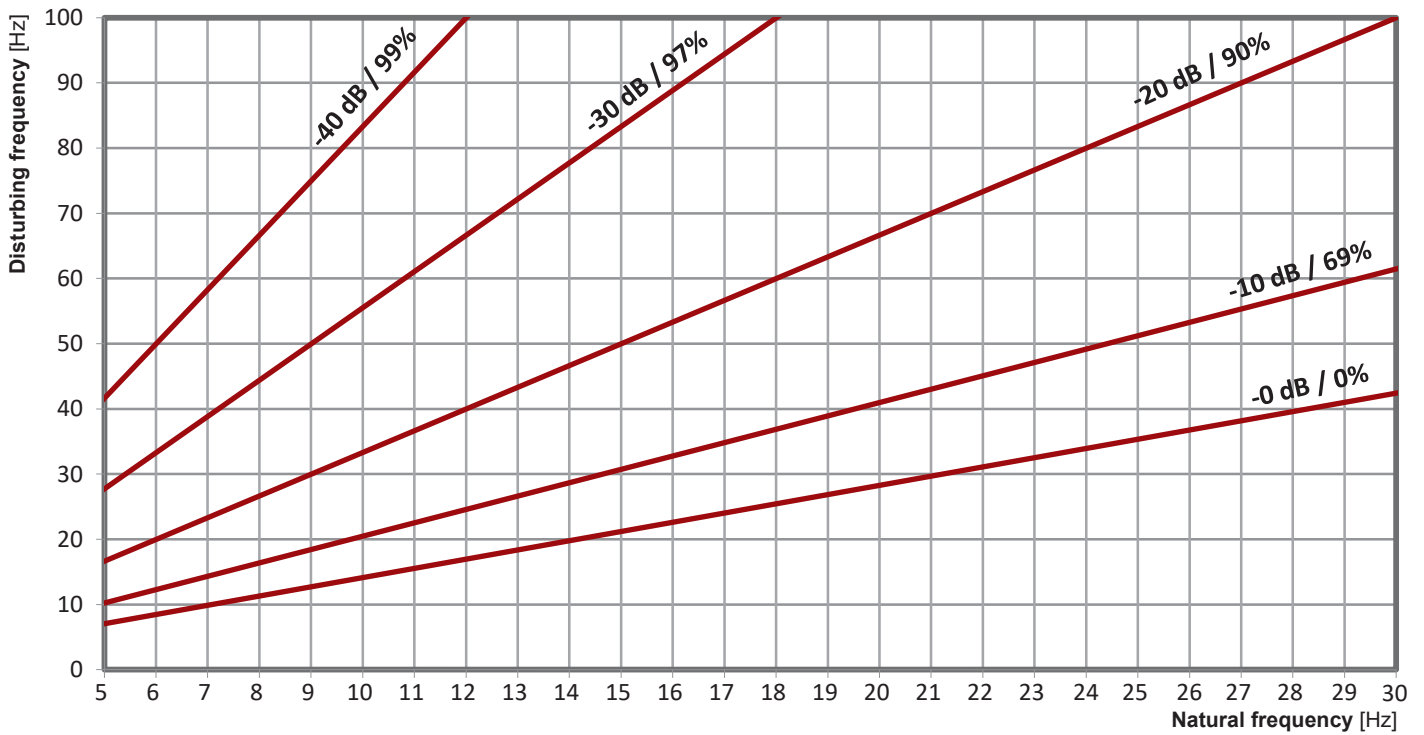
DYNAMIC MODULUS of ELASTICITY



NATURAL FREQUENCY



VIBRATION ISOLATION EFFICIENCY





Management System
ISO 14001:2015



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ID: 9108650718

ISO 9001:2015

ISO 14001:2015

AIR HANDLING UNITS

HEAT EXCHANGERS

FAN COIL UNITS

FANS & FAN SECTIONS

FIRE DAMPERS

AIR OUTLETS

STEAM HUMIDIFIERS - DEHUMIDIFIERS

CENTRAL VACUUM SYSTEMS

TUBO
THINK CLEAN

STAINLESS STEEL CHIMNEYS

AIR FILTERS

AIR CURTAINS

EVAPORATIVE COOLING

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