Modal Vibration Test System TV 51120-M

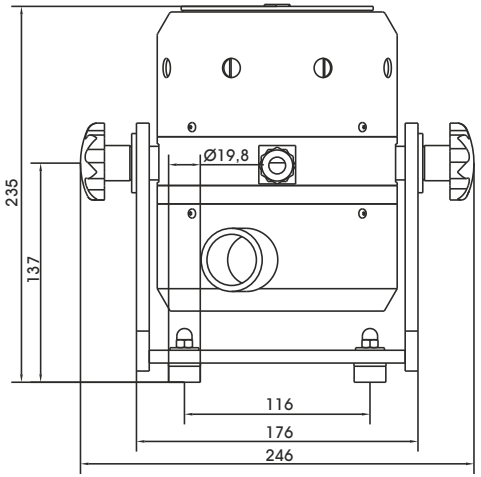
S 51120-M (Example drawing) Dimensions in mm

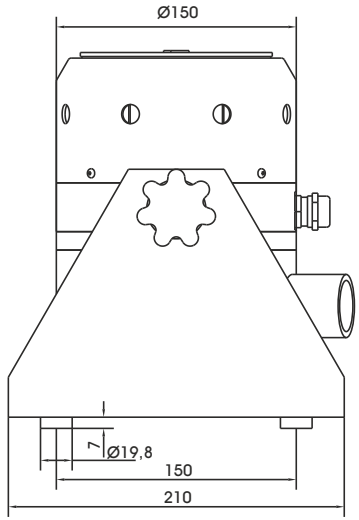
TECHNICAL PARAMETERS Modal exciter S 51120-M

Rated peak force $Sine_{pk}$/$Random_{RMS}$ [1]	200/140 N
Frequency range	DC - 5000 Hz
Main resonance frequency (free-swinging)	>2680 Hz
Max. displacement Peak-Peak	13 mm
Max. velocity	1.5 m/s
Suspension stiffness	8 N/mm
Effective moving mass	0.23 kg
Total mass	12 kg
Coupling thread	M6

1) Random force according to ISO 5344:2004







SCOPE OF DELIVERY, OPTIONS AND FEATURES OF THE SYSTEM

Scope of delivery:
- Modal exciter
- Trunnion mount
- Power amplifier
- Cooling blower
- Connection cable (3 m)
- Power cable amplifier (1.5 m)
- Blower hose ø40 mm (3 m)

Options:
- Rack for mounting the amplifier
- Silencer
  - for cooling blower (Noise reduction up to 5 dB(A))
- Acoustic enclosure
  - for cooling blower (Noise reduction 15 - 23 dB(A))
- Stinger (see Modal brochure for details)
- Cable extension
- Factory acceptance test

Features:
- Vibration isolation
- Coarse filter unit
- High cross-axial stiffness
- Light weight construction by using rare earth magnet
- Minimum maintenance effort
- Made in Germany
- Servicehotline

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Subject to modifications

Modal Vibration Test System TV 51120-M

TECHNICAL PARAMETERS Amplifier BAA 500

Output power$_{RMS}$	500 VA
Frequency range (small signal/full power)	DC - 180 kHz / 20 Hz - 25 kHz
Voltage-/Current mode	yes/yes
Voltage$_{RMS}$, max	45 V
Current$_{RMS}$, max. (0.1 - 20 Hz)	11.2 A (9 A)
Signal input voltage$_{PK}$	3.5 V
Distortion THD (Frequency range 40 Hz to 5 kHz)	< 0.05 %
Signal to noise ratio	> 110 dB(A)
Total mass	18 kg
Dimensions (WxHxD)	440 x 90 x 290 mm
Power supply (Standard)	1~ / N / PE 230 V±5% 50/60 Hz, CEE 7/7
Recommended fuse protection (Standard)	16 A slow
Max. power consumption at 230 V	0.35 kVA
Interlocks:	Overload, temperature, clipping

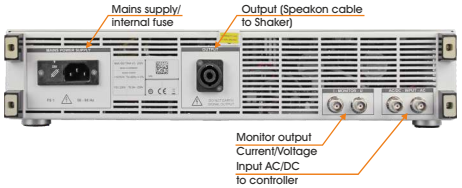
Features:
- High Signal to noise ratio of >110 dB
- Monitoring outputs for voltage and current

TECHNICAL PARAMETERS Cooling blower TB 0080

Volume flow rate	max. 80 m³/h
Total pressure difference	max. 120 hPa
Power	0.37 kW
Frequency	50 Hz
Hose diameter	40 mm
Hose length (Std.)	3 m
Total mass	10 kg
Dimensions (WxHxD)	246 x 256 x 247 mm
Sound pressure level, max.	max. 53 dB(A)
Power supply (standard)	1~ / N / PE 230 V±5% 50/60 Hz, CEE 7/7
Max. current consumption at 230 V	2.7 A

Options:
Silencer TB 0080-SI (Noise reduction up to 5 dB(A))
Dimensions (LxD): 310 x 65 mm
Mass: 0.2 kg
Acoustic enclosure TB 0080-AE (Noise reduction 15 - 23 dB(A))
Dimensions (WxHxD): 650 x 760 x 860 mm
Mass: 45 kg
Hose length according to customers request (up to 10 m)






Cooling blower TB 0080


Silencer TB 0080-SI (optional)


Acoustic enclosure TB 0080-AE (optional)

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