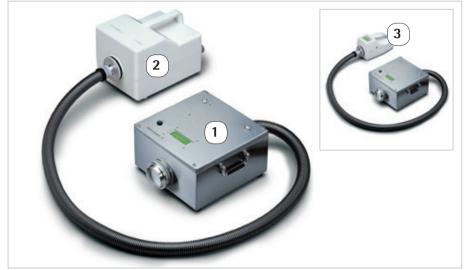


Calibration Unit

for the MD8 Series of Air Samplers



(1): Calibration unit (2): MD8 airscan (3): Air Port MD8

The portable Sartorius Stedim Biotech 16756 calibration unit has been specifically developed for the flow rate calibration of the MD8 series of air samplers, such as the MD8 airscan or AirPort MD8 (the latest model in the series).

By employing this calibration unit, users of the MD8 air samplers are able to precisely calibrate their instruments themselves.

Calibration of the MD8 is done by connecting the two units inline and measuring the actual volume of air passing through the calibration unit at the indicated flow rates.

The software in the MD8 airscan | AirPort MD8 provides a calibration menu, enabling the nominal flow rates displayed on this instrument to be adjusted to the actual values measured by the calibration unit connected to it. Exact calibration of the sampled air flow rates is especially needed to fulfill validation requirements.

The calibration unit can be battery or mains operated, and is supplied complete with connectors, a connecting hose and a filter holder.

Specifications			
Cylindrical piston gas meter			
min. 1 m³/h max. 16 m³/h			
±2% (1 m³/h-16 m³/h)			
2500 pulses = 1 m^3			
0.6 Hz – 12 Hz ±0.005 Hz			
< 0.4 Hz			
19,200 baud, 8 data bits, 1 stop bit, no parity			
120 μA 225 mA			
NiCd battery pack			
1000 mAh			
$96 \times 28 \times 28$ mm			
205 g			
approx. 4 h			
approx. 10 h			

Battery monitoring*: Automatic charging module	When the calibration unit is operated on mains (AC) power, the battery pack is charged through an automatic charging module. Once the preset end- of-charging voltage (10.6 V) is reached, the charging current (100 mA) is auto- matically reduced. This prevents the battery pack from overcharging.	Equipment Supplied and Filters Required
Power supply requirements:	14.5 V DC 530 mA	4 4 3
Allowable ambient temperature of the calibration unit:	0°C +40°C	
Type of protection:	IP 40 during operation with filter holder, connector and PVC hose	2
Numerical display of flow rate on the LCD (in m ³ /h and l/min):	Alphanumerical display of 4 × 20 pixels	Equipment Supplied for the 16756:
Weight of the calibration unit without accessories:	Approx. 11 kg	 Calibration unit Battery charger power supply unit: Specific for the country in which it is used Filter holder: 17655
Dimensions:	Length = 300 mm (without filter holder) Width = 390 mm (with handles)	 ④: Set of connectors: 17657, consisting of 17658 (for connecting the MD8 airscan to the hose) and 17659 (for connecting the hose to the calibration unit) ⑤: PVC hose (2 m): 17085

Filters Required:

Filters are not supplied with the calibration unit, as calibration should be carried out with the type of gelatin filters you have available for use with your MD8 series air sampler, i.e., either gelatin filter units (order no. 17528-080) or gelatin disc filters (order no. 12602-080).

Sartorius Stedim Biotech GmbH August-Spindler-Strasse 11 37079 Goettingen, Germany

Phone +49.551.308.0 Fax +49.551.308.3289 www.sartorius.com

USA Toll-Free +1.800.368.7178 UK +44.1372.737159 France +33.442.845600 Italy +39.055.63.40.41 Spain +34.90.2110935 Russian Federation +7.812.327.5.327 Japan +81.3.4331.4300

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	(without filter holder) Width = 390 mm (with handles) Height = 182 mm min., 200 mm max. (rotating feet)
Type of connector on the inlet and outlet ports for the filter holder and MD8 airscar AirPort MD8:	Bayonet-design quick connect 1
on the battery charge the rechargeable bat	ng recharging (run on ply). We recommend in unit connected er power supply unit

rechargeable batteries from becoming

completely discharged.