

## Volume flow hood

### testo 420 – light, precise and convenient

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Less than 2.9 kg weight

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Flow straightener for more precise measurement at swirl outlets

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Removable and tiltable measuring instrument with a large display

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App integration via Bluetooth for fast and easy monitoring and reporting on site

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The new volume flow hood testo 420 is the light, precise and convenient solution for regulating volume flows at larger air intakes and outlets. At swirl outlets in particular, the flow straightener significantly reduces the usual measurement errors. This allows users to fulfil hygienic Indoor Air Quality guidelines and stipulations in ventilation and air conditioning systems quickly and precisely, e.g. in industry, office rooms or in cleanrooms.

Handling is especially easy with a uniquely low weight of less than 2.9 kg and ergonomic handles. The measuring instrument can be tilted and removed for more comfortable readout of the measurement values. In addition to this, mobile devices can be used via Bluetooth App integration as a second display and remote control. This makes the use of a tripod for high ceilings especially secure and comfortable. Users can furthermore use the App to finalize and send the measurement report directly on site.

# Technical data

**testo 420 set**

testo 420 volume flow hood, with measuring instrument, body, 610 x 610 mm flow hood, 5 x tension rods, USB cable, batteries and trolley, incl. calibration protocol



Part no. 0563 4200

**testo 420**

testo 420 differential pressure measuring instrument incl. batteries and calibration protocol



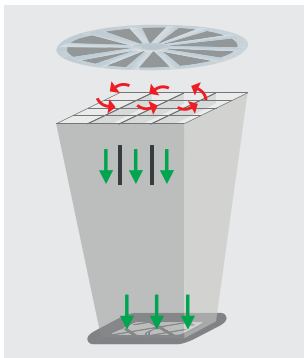
Part no. 0560 0420

### General technical data

Compatibility	requires iOS 7.1 or newer / Android 4.3 or newer
	requires mobile end device with Bluetooth 4.0
Operating temperature	-5 to +50 °C
Storage temperature	-20 to +60 °C
Weight	2.9 kg
Standard hood	610 x 610 mm
Battery type	Alkali manganese, mignon, Type AA
Battery life	40 h (Zeroing interval 10 seconds, display illumination off, Bluetooth off)
Display	Dot matrix with illumination 3.5 inch
Memory	2 GB internal (approx. 18,000 measurements)
Interface	Micro USB
Warranty	2 years
Material	Measuring instrument housing: ABS Base: PP Standard hood: Nylon

### Sensor types

	Volume flow	NTC	Capacitive humidity sensor	Differential pressure sensor	Absolute pressure probe
Measuring range	40 to 4000 m³/h	-20 to +70 °C	0 to 100 %RH	-120 to +120 Pa	+700 to +1100 hPa
Accuracy ±1 digit	±3 % of m.v. +12 m³/h at +22 °C, 1013 hPa (85 to 3500 m³/h)	±0.5 °C (0 to +70 °C) ±0.8 °C (-20 to 0 °C)	±1.8 %RH +3 % of m.v. at +25 °C (5 to 80 %RH)	±2 % of m.v. +0.5 Pa at +22 °C, 1013 hPa	±3 hPa
Resolution	1 m³/h	0.1 °C	0.1 %RH	0.001 Pa	0.1 hPa



Functional principle of the flow straightener.



Flow straightener for significantly more precise measurements at swirl outlets.



App integration via Bluetooth for displaying the measurement data on mobile devices and finalizing the measurement report on site.



Stable, wheeled tripod with central fitting for secure working at high ceiling outlets.




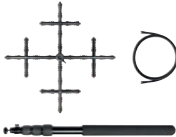

## Accessories

	Part no.
Flow hood 360 x 360 mm, with bag	0554 4200
Flow hood 305 x 1220 mm, with bag	0554 4201
Flow hood 610 x 1220 mm, with bag	0554 4202
Tripod, extendable to 4 m, with rollers	0554 4209
Connection hose; silicone; length 5 m; max. load 700 hPa (mbar)	0554 0440
Connection hose silicone-free for differential pressure measurement, length 5 m, load up to maximum 700 hPa, (mbar)	0554 0453

### Calibration Certificates

ISO calibration certificate, 15 to 2000 m <sup>3</sup> /h bi-directional	0520 0154
ISO calibration certificate, 10 measurement points regularly distributed over the measuring range (bi-directional) Calibration points 150/300/450/600/750/900/1050/1200/1350/1500 Nm <sup>3</sup> /h	0520 0194
ISO calibration certificate, 5 measurement points regularly distributed over the measuring range (bi-directional) Calibration points 300/600/900/1200/1500 Nm <sup>3</sup> /h	0520 0164
DAkkS calibration certificate, 15 to 2000 m <sup>3</sup> /h bi-directional	0520 1264
DAkkS calibration certificate, 10 measurement points regularly distributed over the measuring range (bi-directional) Calibration points 150/300/450/600/750/900/1050/1200/1350/1500 Nm <sup>3</sup> /h	0520 0294
DAkkS calibration certificate, 5 measurement points regularly distributed over the measuring range (bi-directional) Calibration points 300/600/900/1200/1500 Nm <sup>3</sup> /h	0520 0264

## Pitot tubes / air flow velocity matrix

Probe type	Dimensions Probe shaft/probe shaft tip	Measuring range	Part no.
Pitot tube, 500 mm long, Ø 7 mm, stainless steel, for measuring flow velocity*		Measuring range: 1 to 100 m/s Operating temperature: 0 to +600 °C Pitot tube factor: 1.0	0635 2045
Pitot tube, 350 mm long, Ø 7 mm, stainless steel, for measuring flow velocity*		Measuring range: 1 to 100 m/s Operating temperature: 0 to +600 °C Pitot tube factor: 1.0	0635 2145
Pitot tube, 1000 mm long, stainless steel, for measuring flow velocity*		Measuring range: 1 to 100 m/s Operating temperature: 0 to +600 °C Pitot tube factor: 1.0	0635 2345
Air flow velocity matrix, telescope with ball head, length 1.8 m, with 2 x 2 m connection hose, silicon-free, with Velcro attachment on the telescope, for connection to differential pressure measuring instrument		ID no. 0699 7077/1	0635 8888
Air flow velocity matrix, telescope with ball head, length 1.8 m, with 2 x 2 m connection hose, silicon-free, with Velcro attachment on the telescope, and testo 420 measuring instrument		ID no. 0699 7077/2	0635 8888

\*Connection hose required (order no. 0554 0440) or (order no. 0554 0453)



Comfortable measurement thanks to low weight



Removable instrument allows Pitot tube measurements in ducts (Pitot tube available separately)

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Subject to change without notice.

