

# Instrument Solutions DATASHEET

Quality products from leading manufacturers



## The lightweight in its class.

2.9 kg and maximum precision:  
only the world market leader offers that.

Light, precise and convenient – the volume flow hood testo 420 significantly facilitates the regulation of volume flow at larger air intakes and outputs. With only 2.9 kg, it is the lightest model on the market. And with the integrated flow straightener, it sets new measurement precision standards

at swirl outlets. 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.



### Low weight

2.9 kg weight – lighter than any other flow hood. You feel the difference, particularly in frequent measurements.



### Precise flow straightener

Air turbulence at swirl outlets is pacified. This allows reliable measurement of the air flow.



### Efficient App integration

You use mobile devices via App as a second display or remote control. And you can create and send measurement reports directly on site.



### Flexible display

The tilting display makes reading out the measurement values easier. By removing the instrument, and with the corresponding accessories, you can comfortably carry out pressure and Pitot tube measurements.



### Quick set-up

Markings on the hood, and funnel-shaped sockets for the tension rods simplify setting up the hood.



### Ergonomic handles

You work comfortably without tiring your hands.



### Practical transport

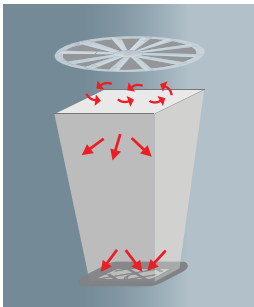
You transport the collapsed testo 420 safely and conveniently in the trolley included in delivery.



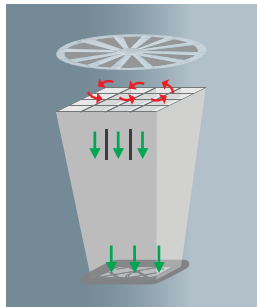
Low weight and tilting display.



Functional principle of the flow straightener.



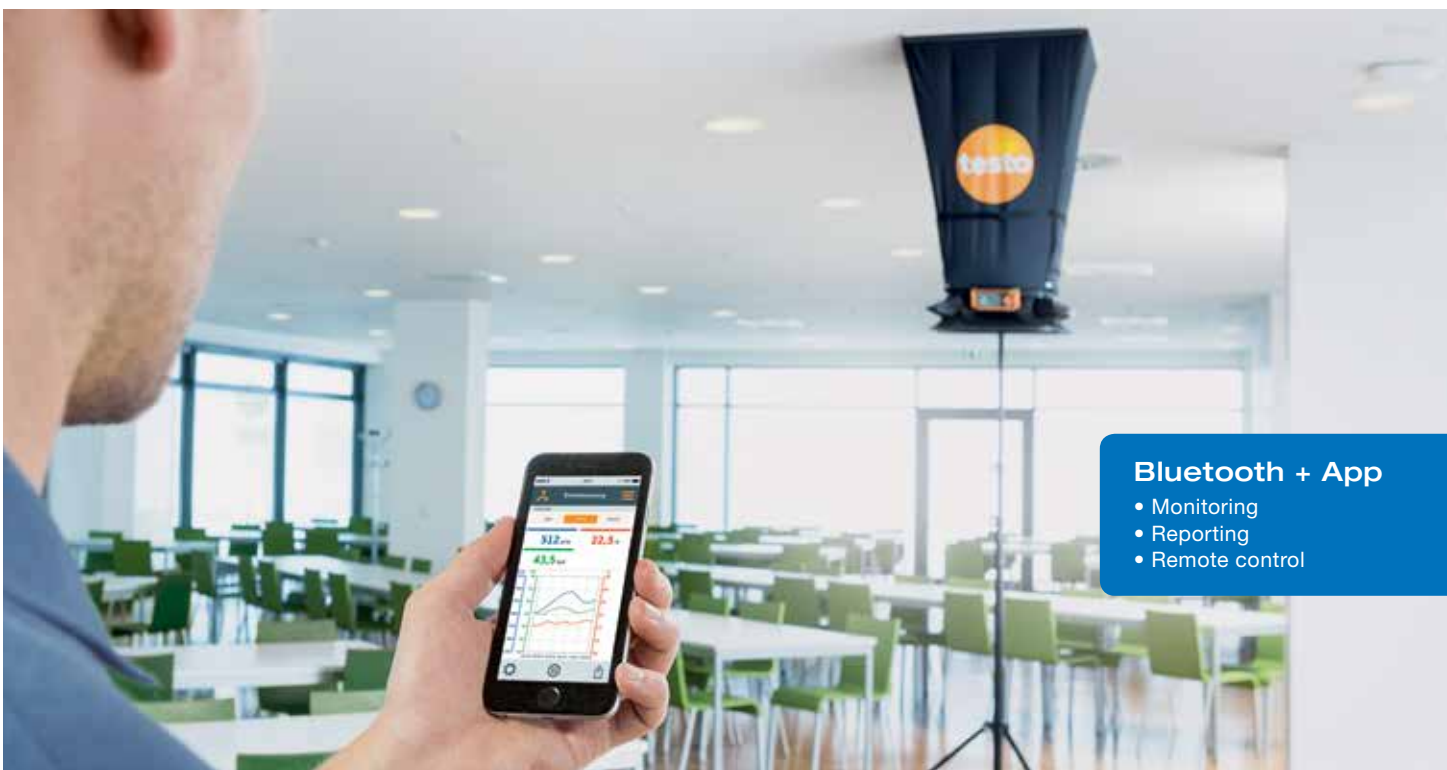
Without a flow straightener, the measurement result can be falsified by air turbulence.



With the flow straightener, the swirling air is pacified and reliably measurable.

## Simpler in its application. More accurate in its result.

In order to guarantee hygiene standards and norm-compliant ambient conditions even in larger rooms, swirl outlets are often used to cause turbulence in the air. However, the exact measurement of the volume flow at such air intakes and outlets is particularly difficult. In these cases, the light and precise testo 420 volume flow hood is the ideal basis for the most accurate possible measurement results. Because its integrated flow straightener converts the turbulence into an almost uniform and easily measured air flow. In addition to the low weight and the flow straightener, the ergonomic handles as well as the tilting and removable display also make your daily job easier. Funnel-shaped tension rod sockets support easy and quick set-up, and the trolley included in delivery ensures safe transport. Mobile devices such as smartphones and tablets can furthermore be used as a second display and remote control via Bluetooth App integration – especially useful for the safe use of a tripod for high ceilings.



### Bluetooth + App

- Monitoring
- Reporting
- Remote control

# Ordering information and technical data.

## testo 420 set

testo 420 volume flow hood, with body,  
610 x 610 mm flow hood, 5 x tension rods,  
USB cable, batteries and trolley

Order no. 0563 4200



### General technical data

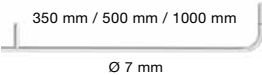
Operating temperature	-5 to +60 °C
Storage temperature	-20 to +60 °C
Weight	2.9 kg
Standard hood	610 x 610 mm
Battery type	Alkaline manganese, mignon, type AA
Battery life	30 hrs
Display	Dot matrix with illumination
Memory	2 GB internal
Interface	Micro USB
Warranty	2 years

### Sensor types

	Volume flow	NTC	Capacitive humidity sensor	Differential pressure sensor
Measuring range	40 to 4000 m³/h	-20 to +70 °C	0 to 100%RH	0 to 120 Pa
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. +0.05 Pa
Resolution	1 m³/h	0.1 °C	0.1%RH	0,001 Pa

### Accessories

### Order no.

Flow hood 360 x 360 mm		0554 4200	
Flow hood 305 x 1220 mm		0554 4201	
Flow hood 610 x 1220 mm		0554 4202	
Tripod, extendable to 4m		0554 4209	
Connection hose, silicone, length 5 m, maximum load capacity 700 hPa (mbar)		0554 0440	
Connection hose silicone-free for differential pressure measurement, length 5 m, maximum load capacity 700 hPa, (mbar)		0554 0453	
Pitot tube, length 350 mm		Operating temperature 0 to +600 °C	0635 2145
Pitot tube, length 500 mm			0635 2045
Pitot tube, length 1000 mm			0635 2345

ISO and UKAS accredited air volume calibrations available on request. Please call for details.

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# Instrument Solutions:

## Quality products from leading manufacturers



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