



## testovent 417

Anwendungshinweis	Trichter-Set zur Volumenstrom-Messung	de
Application information	Funnel set for volume flow measurement	en
Note explicative	Cône de mesure pour vitesse d'air	fr
Información de aplicación	Set de conos para para la medición de caudal	es
Istruzioni operative	Cono per la misura della portata	it
Informação de aplicação	Kit de cones para a medição de caudal	pt
Руководство пользователя	Воронки для измерения объемного расхода	ru



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## Description of the instrument

The funnel kit comprises a funnel for measuring at plate outlets (200 x 200 mm) and a funnel for measuring at fans (330 x 330 mm) in combination with:

- testo 417
- testo 445 and testo 400 (manufactured up to 2012) with 100 mm vane probe 0635 9340
- testo 435 from firmware 2.06 (instruments manufactured from 2007 onwards) or 1.14 (instruments manufactured up to 2006) with 100 mm vane probe 0635 9435
- testo 480 with 100 mm vane probe 0635 9343
- testo 440 and testo 400 (manufactured from 2019) with 100 mm vane probe 0635 9372 and 0635 9432 or with Bluetooth® handle 0635 9371 and 0635 9431

Measurement is possible on both suction and blowing ventilation equipment.



For accurate measurement at swirl outlets or ventilation grilles with turbulent flow, Testo recommends the use of the testovent 417 volume flow straightener (0554 4172).

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## Use

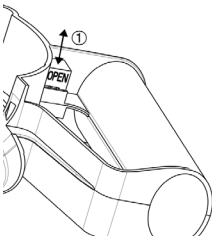
Insert instrument/vane probe:

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The testovent bracket must be used for the vane probe of the testo 440.

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- The locking switch in the upper part of the handle is open: **OPEN** is visible (1).
- 1 Insert the measuring instrument or the vane probe into the bracket, pay attention to the direction of flow (rear side of instrument/probe (side with type plate) downwards or flow in direction of arrow).
- 2 Close locking switch: Push switch until **OPEN** is no longer visible.

## Carry out instrument settings for volume flow calculation:



The procedure for setting the volume flow calculation with the testovent 417 funnel kit is described in the instruction manual for the relevant measuring instrument.

- > testo 417 (up to firmware 1.05): Set an area of **0.0069m<sup>2</sup>** or **10.76 in<sup>2</sup>** in the configuration menu.
- > testo 417 (from firmware 1.06): Enable **F.Fact** in the configuration menu (**on**).
- > testo 445 / testo 400: In the **FUNNEL** configuration menu, set the value to 24.4.
- > testo 435: In the configuration menu under **Parameter** > **Area** enable funnel setting.
- > testo 480: In the **measuring point** for **channel geometry** parameter, select the funnel.
- > testo 440/testo 400: Selection of the funnel measurement application

## Carry out measurement:



### Damage to the measuring instrument or probe!

- > Always hold the measurement system by the handle of the funnel, not by the instrument or the probe.



When using the testovent 417, pay attention to the fact that a pressure loss may occur through the funnel depending on the required volume flow, which means the volume flow will fall, according to the characteristic curve of the fan, and the measurement result will differ from the actual volume flow at the outlet.

- 1 Position the measurement funnel over the ventilation equipment, so that the rubber ring fits tightly.
- 2 Read the measuring values.

## Technical data

Feature	Values
Operating temperature	0 to +50°C / +32 to +122°F
Measuring range	0 to +440m <sup>3</sup> /h testovent 417 in combination with funnel kit (0563 4170) 0.1 to +200 m <sup>3</sup> /h , preferably 0.1 to 100 m <sup>3</sup> /h, testovent 417 in combination with funnel & flow straightener (0554 4172)
Resolution	0.1 m <sup>3</sup> /h (0 to +99.9 m <sup>3</sup> /h) 1 m <sup>3</sup> /h (+100 to +440 m <sup>3</sup> /h)



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