KIMO INSTRUMENTS

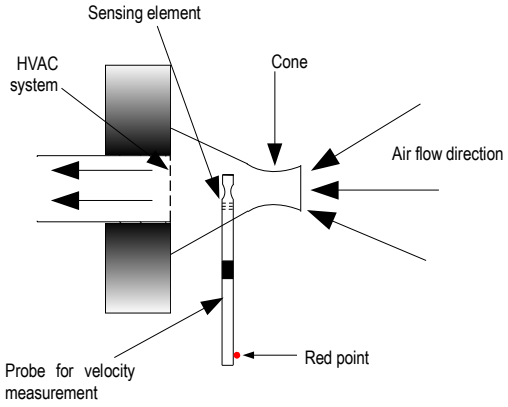
Technical Data Sheet

Pressure / Temperature / Humidity / Air Velocity / Airflow / Sound level

Air flow cones

The air flow cones are essential instrument for measuring direct air flows in ventilators and HVAC systems. These instruments can be associated with the hot wire and vane Ø100 mm anemometers from Class 110, 210 and 310 portable instruments. Many models are available according to the flow, the dimensions of the diffusers and the probe used.

- *Air flow measurement*
- *Suitable for the hot-wire and vane Ø100 mm anemometer*
- *Available in several dimensions*



MEASUREMENT PRINCIPLE

The direction and the homogeneity of the incoming and outcoming air flow are often disrupted by the geometry of the HVAC grills. Therefore, It is necessary to canalise the flow to the sensing element of the probe.
As described below, the probe and its sensing element are located in a well known section of the cone which guarantees a good measurement.

CONES FOR HOT-WIRE ANEMOMETERS

K35 CONE

Flow	10 to 400 m^3/h
Dimensions	200 x 200 mm Height: 330 mm
Weight	800 g
Material	Fibreglass 300 PLP

K120 CONE

Flow	50 to 1200 m^3/h
Dimensions	450 x 450 mm Height: 600mm
Weight	1700 g
Material	Fibreglass 300 PLP

K75 CONE

Flow	30 to 750 m^3/h
Dimensions	300 x 300 mm Height: 470 mm
Weight	1400 g
Material	Fibreglass 300 PLP

K150 CONE

Flow	10 to 400 m^3/h
Dimensions	550 x 100 mm
Weight	1400 g
Material	Fibreglass 300 PLP

CONES FOR VANE Ø100 mm ANEMOMETERS

K25 CONE

Flow	10 to 400 m^3/h
Dimensions	200 x 200 mm Height: 330 mm
Weight	800 g
Material	Fibreglass 300 PLP

K85 CONE

Flow	10 to 400 m^3/h
Dimensions	350 x 350 mm Height: 450 mm
Weight	1010 g
Material	Fibreglass 300 PLP

Supplied with...

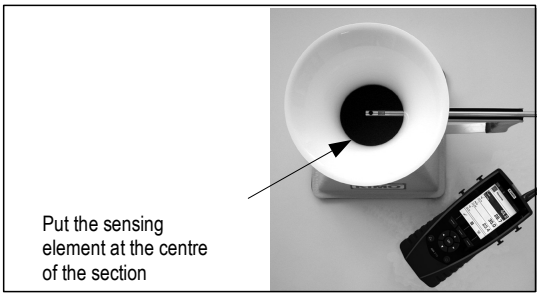
All the cones are supplied with a transport bag.

HOW TO USE FLOW CONES

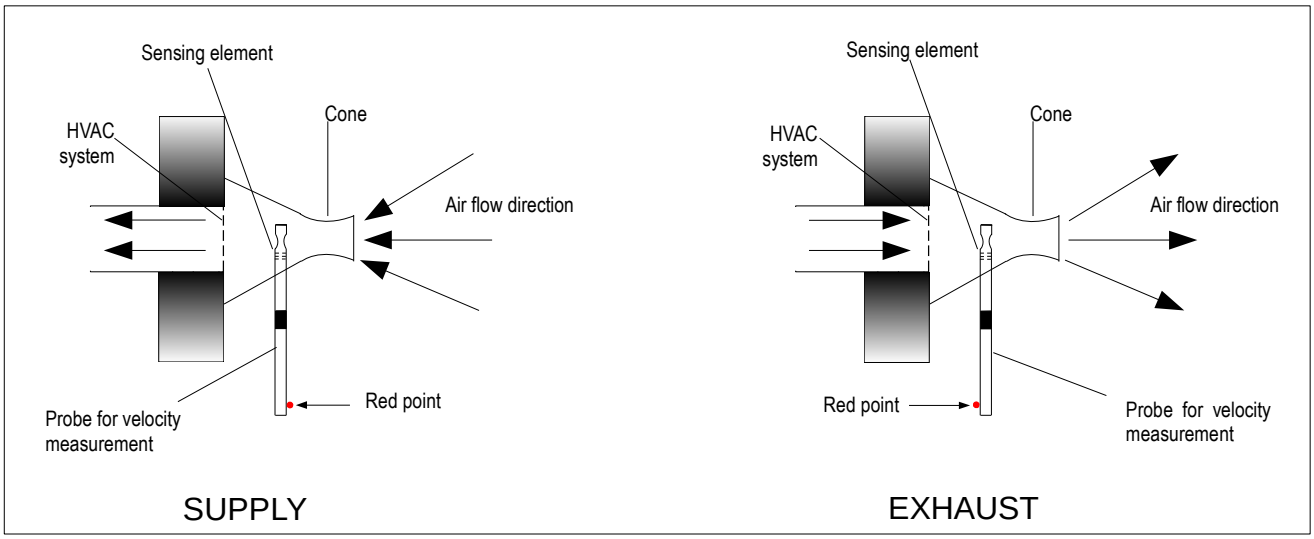
1. Put the probe on the cone

a. Cone for hot-wire anemometers (K35, K75, K120 and K150)

- Clip the hot-wire anemometer probe into the cone.
- Put the sensing element at the centre of the orifice and perpendicularly to the air flow.
- Remember to slide the protection back on the sensing element.

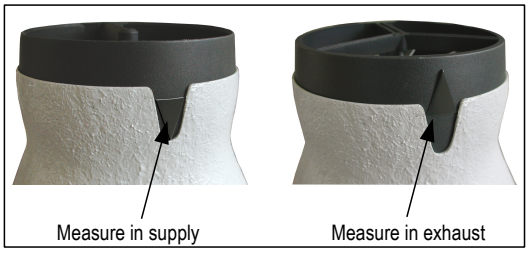


Red point at the bottom of the hot wire probe must face airflow



b. Cone for vane Ø100 mm anemometer on the end of the measurement cone (K25 and K85 cones)

- Put the probe on the end of the measurement cone;
- For a measure in supply, put the vane with the arrow turned towards the outside of the cone.
- For a measure in exhaust, put the vane with the arrow turned towards the inside of the cone.



2. Put the cone on the grille

- **Square side of the cone for anemometer must be placed against the HAVC system.**
- **Don't take out the vane ø 100 mm probe of the cone by drawing of the probe handle.**

www.kimo.fr

Distributed by :

afaq ISO 9001 Qualité AFNOR CERTIFICATION

EXPORT DEPARTMENT
Tel : + 33. 1. 60. 06. 69. 25 - Fax : + 33. 1. 60. 06. 69. 29
e-mail : export@kimo.fr