

DATA SHEET

# AIR FLOW CONES

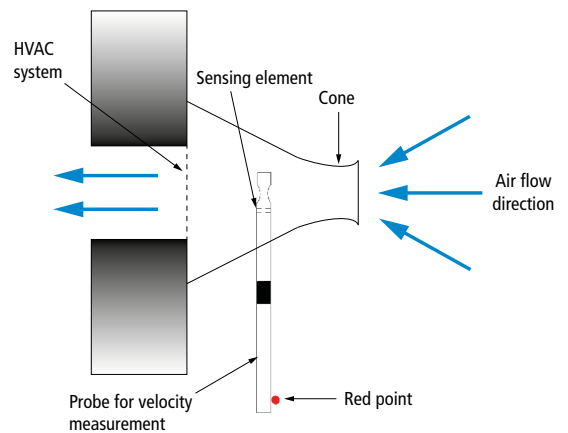


The air flow cones are essential instruments for measuring direct air flow in ventilators and HVAC systems. These instruments can be associated with the hot wire and vane Ø 100 mm anemometers from Class 110, 210 and 310 portable instruments. Many models are available according to the flow, the dimensions of the diffusers and the probe used.

- Air flow measurement
- Suitable for the hotwire and vane Ø 100 mm anemometer
- Available in several dimensions

### Measurement principle

The direction and the homogeneity of the incoming and outgoing air flow are often disrupted by the geometry of the HVAC grills. Therefore, it is necessary to canalise the flow to the probe's sensor. 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 <sup>3</sup> /h
Dimensions	200 x 200 mm. Height: 330 mm
Weight	800 g
Material	Fibreglass 300 PLP



#### K120 Cone

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



#### K75 Cone

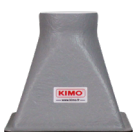
Flow	30 to 750 m <sup>3</sup> /h
Dimensions	300 x 300 mm. Height: 470 mm
Weight	1400 g
Material	Fibreglass 300 PLP



#### K150 Cone

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

### Cones for Ø 100 mm vane anemometers



#### K25 Cone

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



#### K85 Cone

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



All the cones are supplied with a transport bag.

## How to use the air flow cones

### 1. Put the probe on the cone

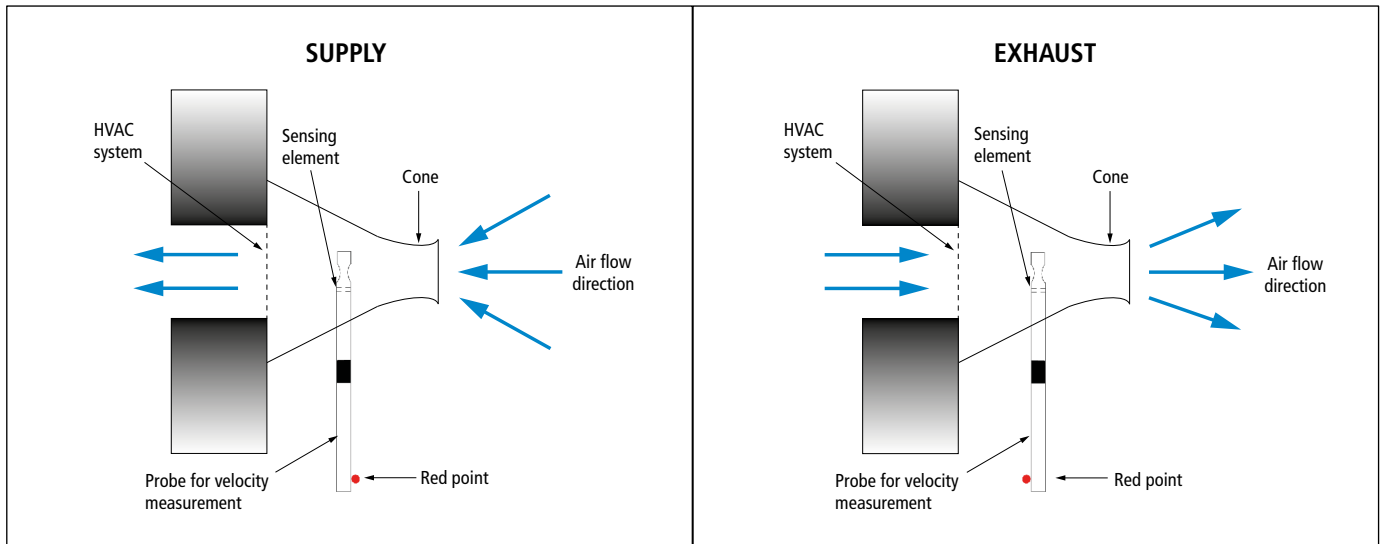
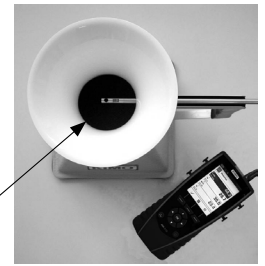
#### Cone for hotwire anemometers (K35, K75, K120 and K150)

- Clip the hotwire 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.



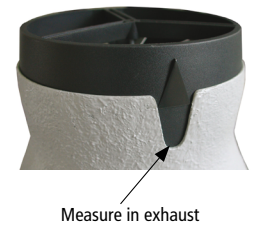
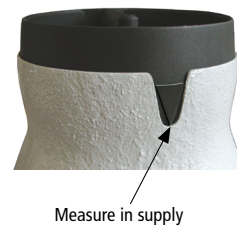
Red point at the bottom of the hot wire probe must face airflow.

Put the sensing element at the center of the section



#### Cone for vane Ø 100 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 CMV air vent



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



Cone for hot-wire anemometer



Cone for vane anemometer