

## Air flow cones

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

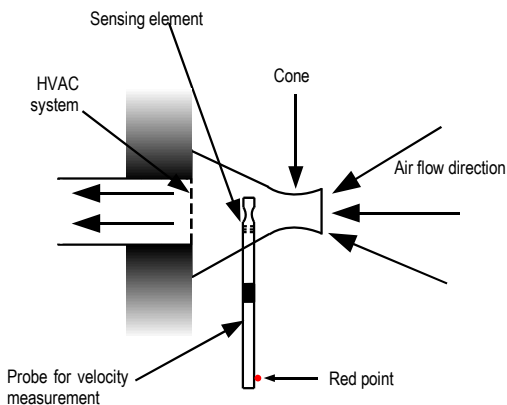
KIMO has designed and manufactured the flow cones as an essential instrument for measuring direct air flows in ventilators and HVAC systems. These instruments can be associated with the hot wire and vane Ø 100 mm anemometers from Class 100, 200 and 300 portable instruments.

Many models are available according to the flow, the dimensions of the diffusers and the probe used.

### 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 canalize 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.



### CONE for vane Ø 100 mm anemometers



**K25 CONE**

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

### CONES for hot-wire anemometers



**K35 CONE**

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



**K75 CONE**

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



**K120 CONE**

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



**K150 CONE**

**Flow**.....10 à 400 m<sup>3</sup>/h  
**Dimensions**.....550 x 100 mm  
Height : 600 mm  
**Weight**.....1400 g  
**Material**.....Fibreglass 300 PLP

### Supplied with...

All the cones are supplied with a transport bag.



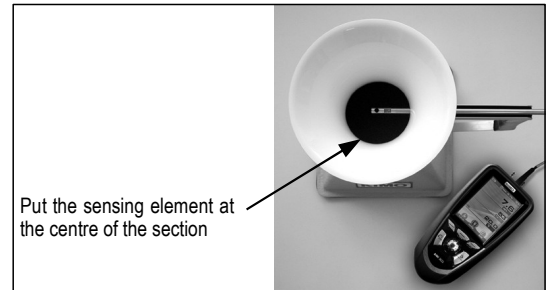
## HOW TO USE FLOW CONES

### 1. Put the probe on the cone

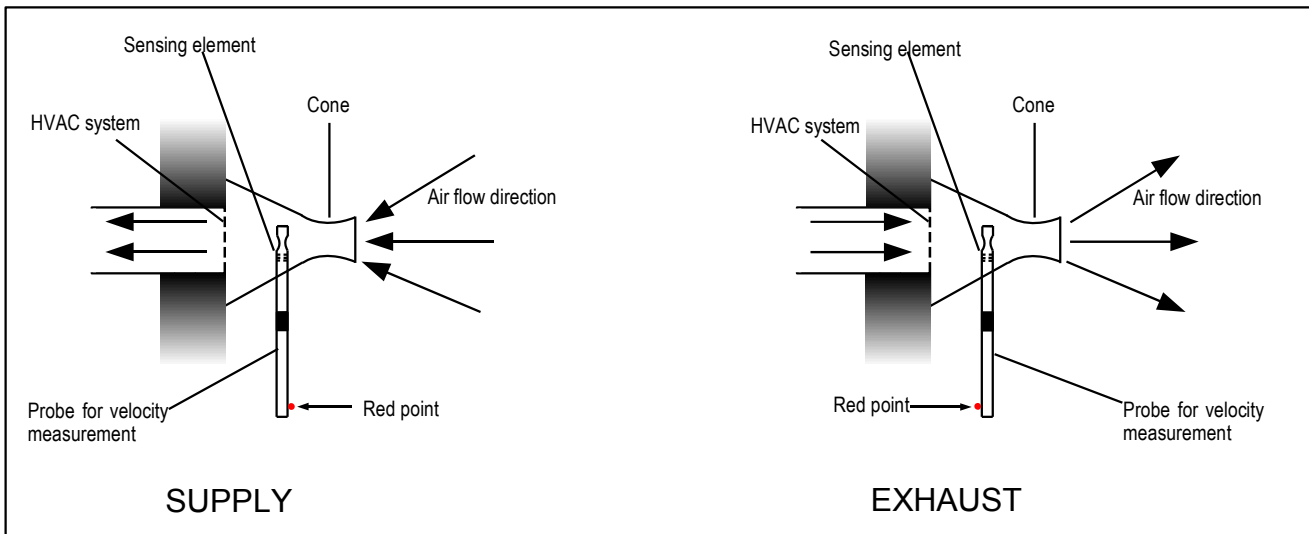
#### a. Cone for hot-wire anemometers (K35, K75, K120 ET K150)

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 :

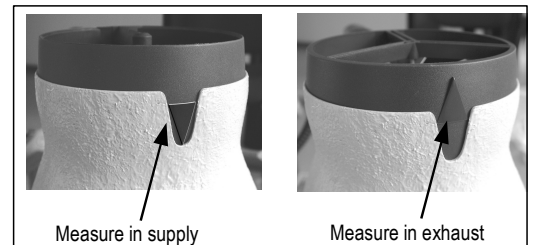


#### b. Cone for vane $\varnothing$ 100 mm anemometer on the end of the measurement cone (K25 and K85 cones)

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 grille



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



Cone for hot-wire anemometer

Cone for vane  $\varnothing$  100 mm anemometer

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