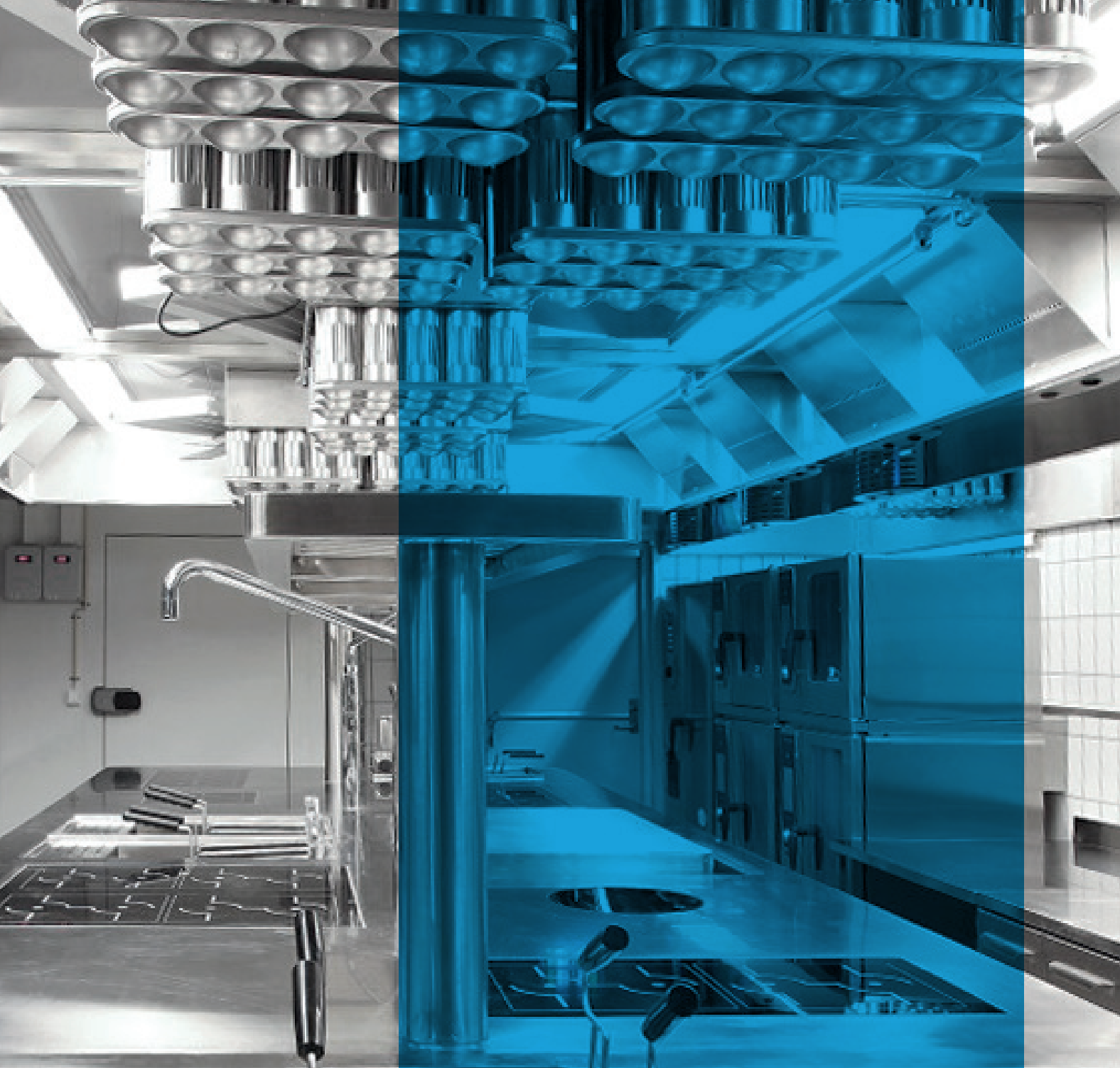




CYCLONE HOODS

JSI
JVI
JLI

Operating, maintenance and adjustment

Jeven

Top ventilation for top chefs



TABLE OF CONTENTS

OPERATING AND MAINTENANCE

CONSTRUCTION.....	04
CLEANING OF SUPPLY AIR UNITS.....	05
CLEANING OF THE HOOD	05
CLEANING OF GREASE FILTERS.....	05

ADJUSTMENT

ADJUSTMENT DIFFUSION PATTERNS SUPPLY AIR.....	06
PLACEMENT OF MEASUREMENT TAP.....	07
ADJUSTMENT OF EXHAUST AIR FLOW.....	08
ADJUSTMENT OF SUPPLY AIR FLOW.....	09
ADJUSTMENT OF DIRECTION AIR FLOW ..	10

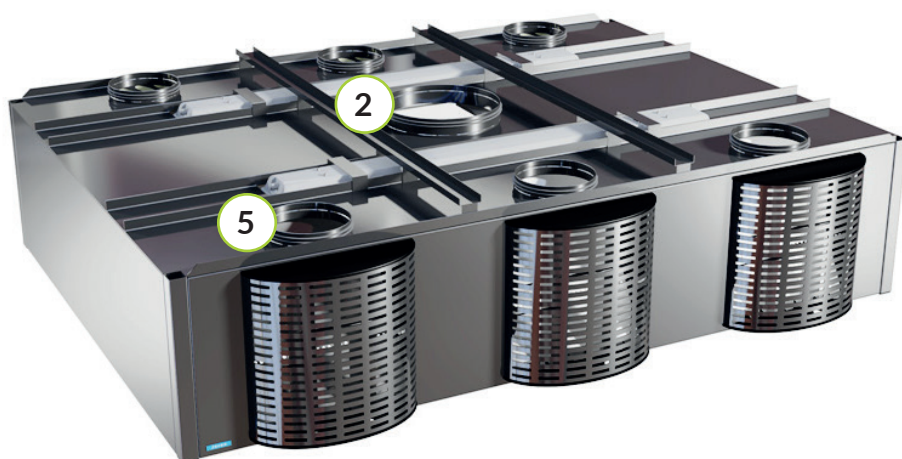
JEVEN CYCLONE HOODS

Jeven Cyclone Hoods are equipped with cyclone filter that are suitable for kitchen with lower cleaning requirements. A cyclone filter separates grease by sucking the air into a circular chamber where a vortex is created. Grease and other contaminants are thrown out towards the periphery and purified air flows up towards the duct. The maintenance is very simple as the filter cells are easily removed from the filter housing and cleaned in the dishwasher.

CONSTRUCTION

Cyclone Hood

- 1 Cyclone filter
- 2 Exhaust air connection with damper plates
- 3 LED lights
- 4 Supply air device with removable diffusers (JSI)
- 5 Connection for supply- and direction air with silencer damper (JSI)
- 6 Direction air device (JSI, JVI)



MAINTENANCE

CLEANING

Cleaning of supply air diffusers

The supply air diffusers shall be cleaned in connection with cleaning the kitchen hood. The diffuser can be washed by hand or in a dishwasher.

The diffuser is easily disassembled by

- ① Lifting them up slightly
- ② Pull the lower part towards you.

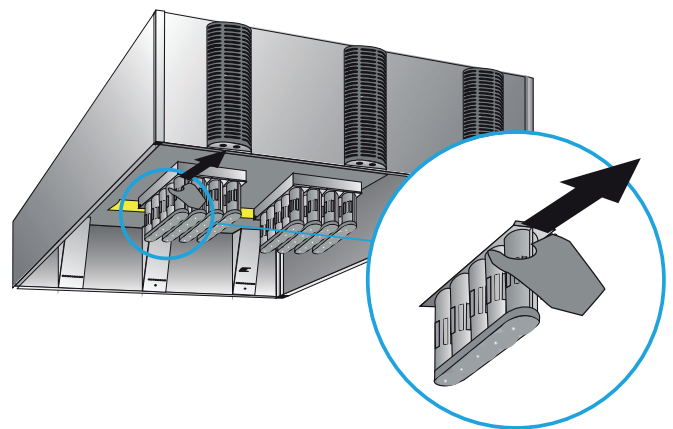


Cleaning of the hood surfaces

The surfaces of the hood should be cleaned in connection with other cleaning of the kitchen or if necessary. Detergents for stainless steel sheet and soft cloths must be used.

Cleaning of the grease filters

The load on the hood determines how often the grease filter should be cleaned. In general, filters should be cleaned once or twice a week in heavily loaded kitchens. During the cleaning process wear protective gloves. The grease separators are dismantled by gently pulling them out of the filter housing - one at a time. Flowing grease that has been collected in the separator shall be collected. The grease separators are advantageously washed upside down in a dishwasher. When washing, ordinary detergent can be used. After cleaning, they can be mounted back in place in the filter housing.



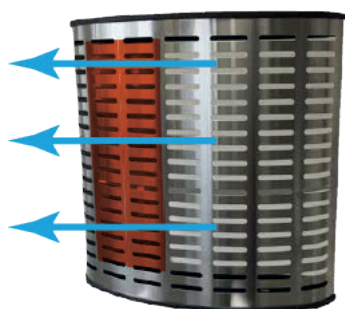
ADJUSTMENT OF SUPPLY AIR DEVICE

SUPPLY AIR HOOD JSI-R

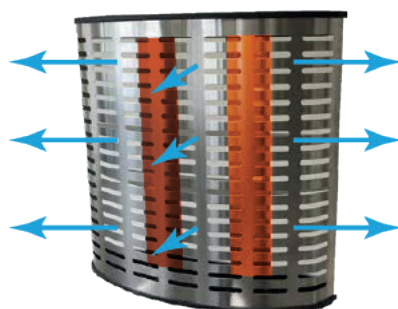
Jeven supply air columns deliver a controlled and flexible distribution of the supply air. Since the supply air columns can be placed on all sides of the hood, air can be supplied to all parts of the kitchen. The number of supply air devices is determined by the total flow to be supplied to the hood. The supply air columns are easy to disassemble for cleaning in the dishwasher.

Horizontal alignment of the supply air

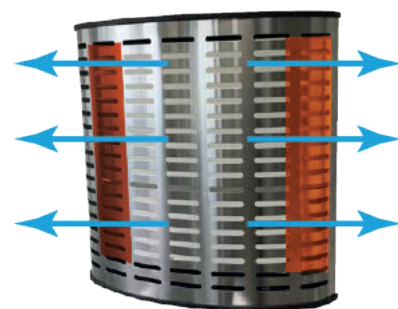
By adjusting the position of the vertical control plates in the spreader, the air can be adjusted laterally.



Unidirectional thrown



Displacement thrown pattern



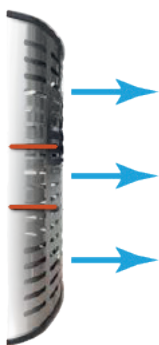
Bidirectional thrown

Vertical alignment of the supply air

By adjusting the position of the horizontal control plates in the spreader, the air can be vertically regulated.



Horizontal control plates



The air is directed forward



The air is directed upwards



The air is directed downwards

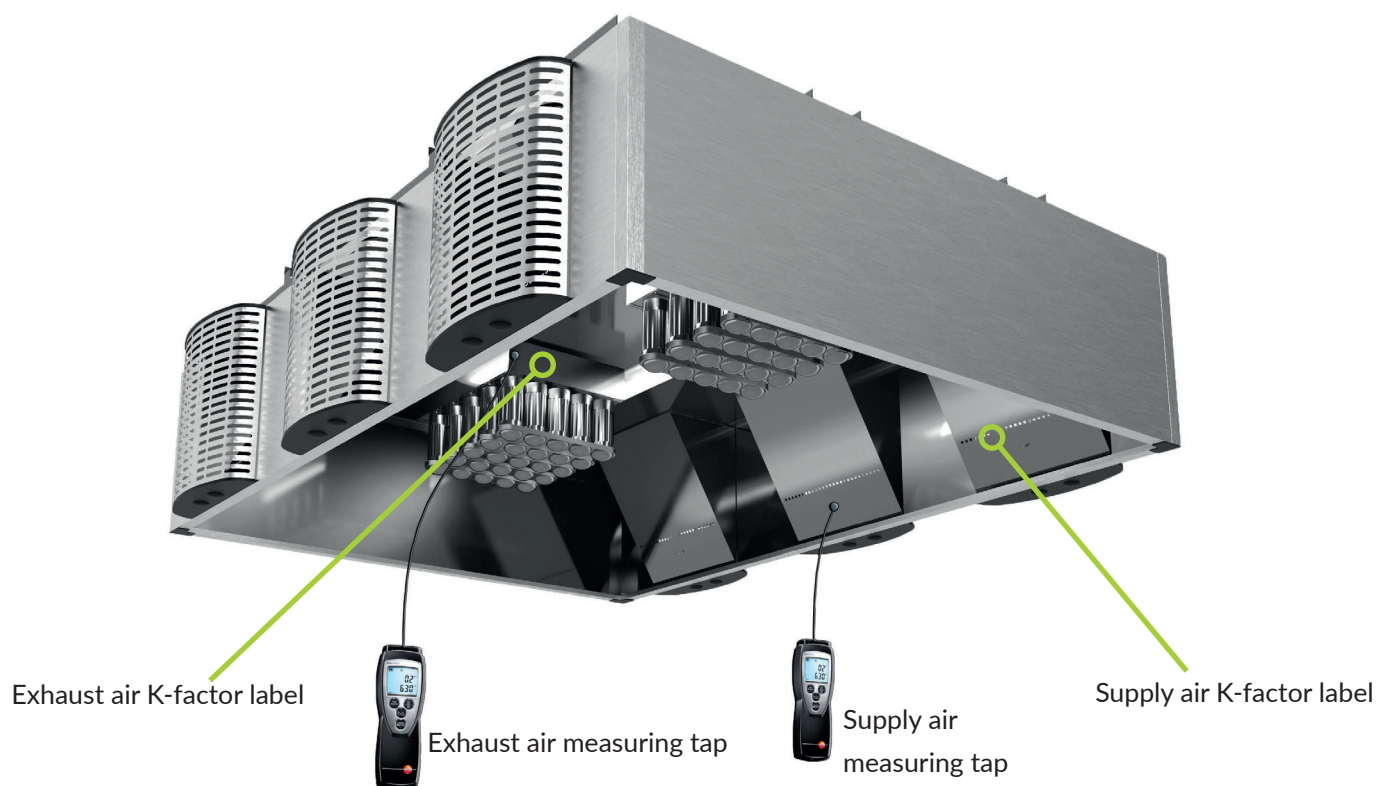
Adjustment of comfort nozzle

In each supply air columns there is a comfort nozzle that can be adjusted to give the kitchen staff extra supply air.



ADJUSTMENT

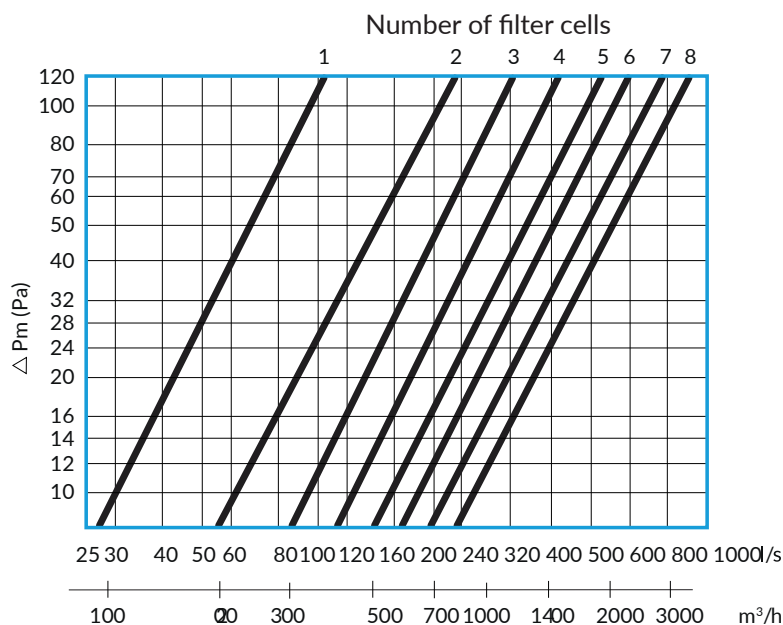
PLACEMENT OF MEASURING TAP AND LABELING WITH K-FACTORS



Jeven

ADJUSTMENT

EXHAUST AIR

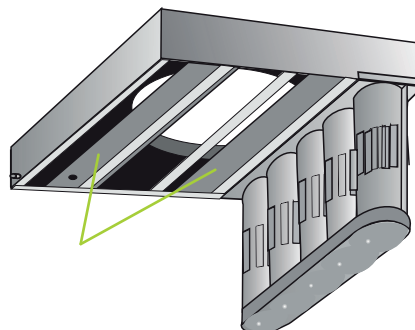


$$Q = K\sqrt{P_m} \quad P_m = (Q/K)^2$$

Number of filter cells	1	2	3	4	5	6	7	8
K1 (m³/h)	34,6	72,4	104	141	176	207	245	282

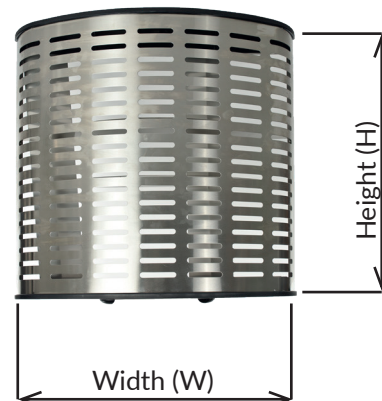
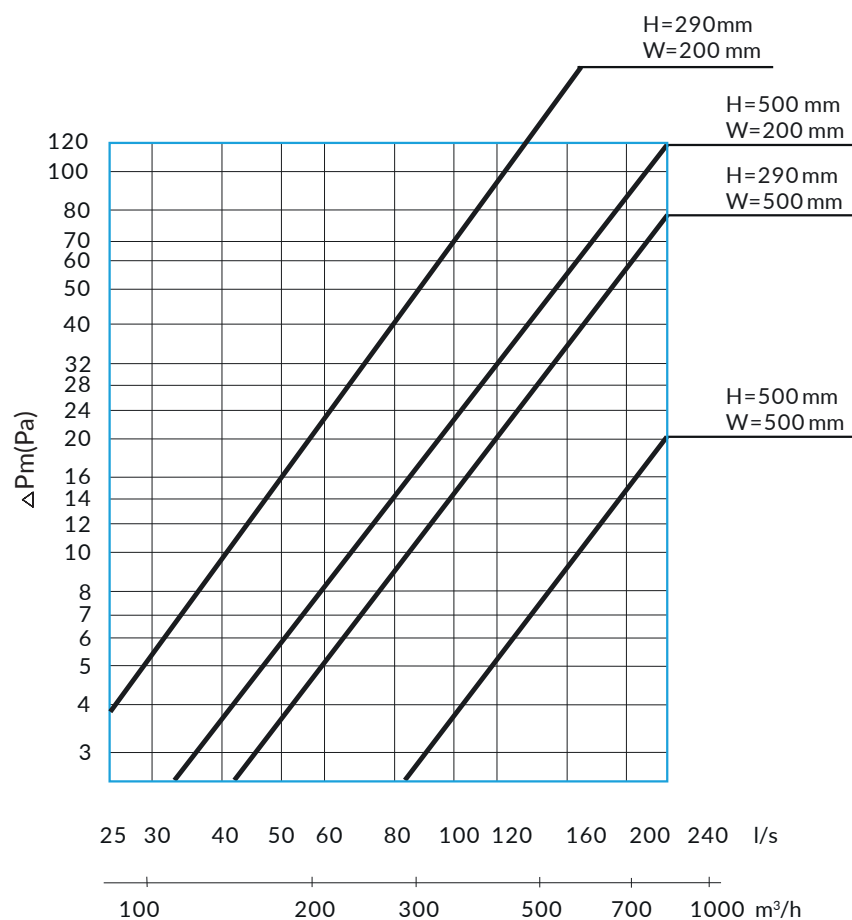
In the filter housing there is a sliding damper for adjusting the exhaust air. The damper is placed behind the cyclone filter. All dampers must be fully open when A the adjustment.

NOTE! Measurement is allways done when the cyclone filters are mounted. The hoods damper is only for balancing the hoods exhaust air flow. A special damper in the duct or fan control are needed to adjust the total flow.



ADJUSTMENT

SUPPLY AIR FLOW: JSI



ΔP_m (Pa) = Pressure measured in the measuring tap

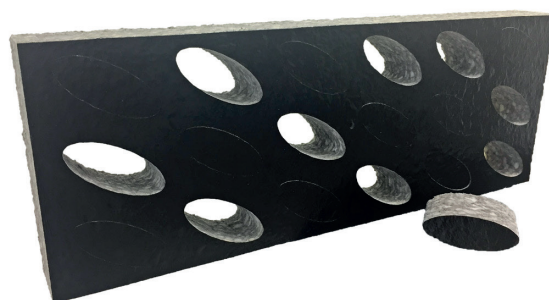
	Hood height mm			
Supply air unit	540	540	330	330
Width (mm)	200	500	200	500
Height (mm)	500	500	290	290
K1 (m³/h)	77.0	192	45.0	96.0
K2 (l/s)	21.4	53.3	12.5	53.3

$$Q = K \times \sqrt{P_m}$$

$$P_m = (Q/K)^2$$

When measuring pressure, the supply air units must be mounted in the supply air device.

The hood is supplied from factory with a preset pressure loss on the supply air of 25-35 Pa for the current flow. The damper is adjusted by removing the supply air units and by adapting the number of open holes in the damper.



ADJUSTMENT

DIRECTION AIR FLOW : JVI

Direction air chamber Width(mm)	200	1000
K1 (m³/h)	3.2	6.5
K2 (l/s)	0.9	1.8

$$Q = K \times \sqrt{P_m}$$

$$P_m = (Q/K)^2$$

