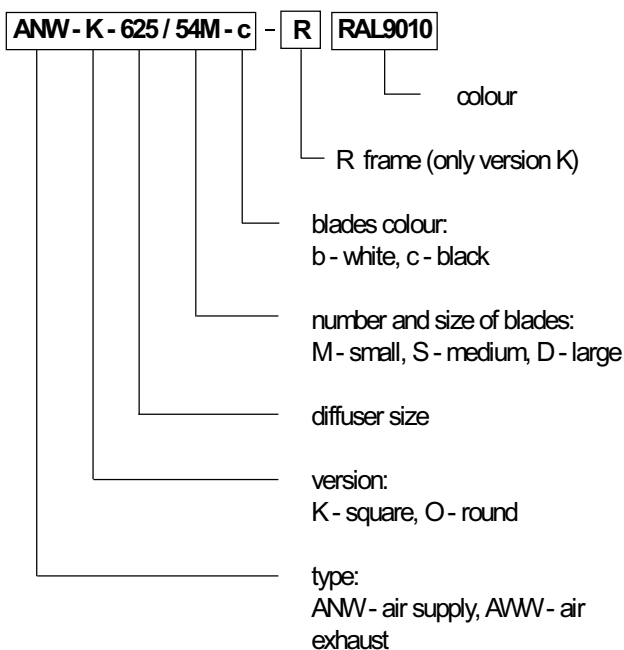


DESCRIPTION

ANW and AWW are square supply and exhaust diffusers designed for low- and medium-pressure installations. The supplied air is swirled which allows for mixing the ventilated air with the air in the room. They can be used with constant and variable airflow. Recommended installation in the ceiling.

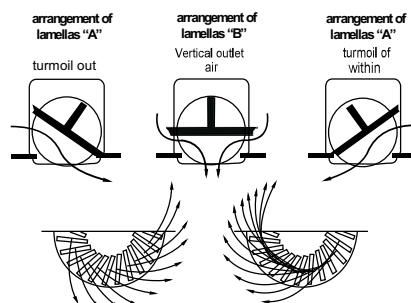
ORDER REFERENCE



FEATURES

- made of zinc-coated sheet, available in standard RAL 9010 colour
- ANW is equipped with adjustable plastic blades that allow for setting the direction of the air flow
- plastic blades are available in three sizes:
 - small (M) 100 mm
 - medium (S) 150 mm
 - large (D) 200 mm
- plastic blades are available in two colours: black and white
- diffusers can be square (K) or round (O)
- AWW do not have the blades and are designed to exhaust
- R version is additionally equipped with decorative aluminium frame
- can be installed with the expansion box SR/ANW or SR/AWW
- upon customer's request, diffusers can be made in any size and colour from the RAL palette
- blades arrangement in ANW version can be set accordingly to the order

BLADES LAY OUT



swirl diffusers with adjustable blades

INSTALLATION

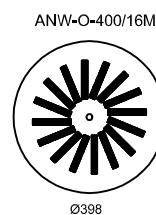
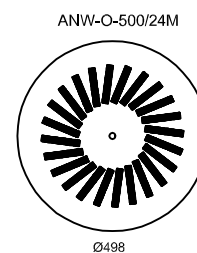
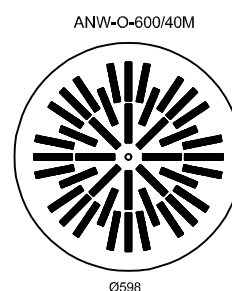
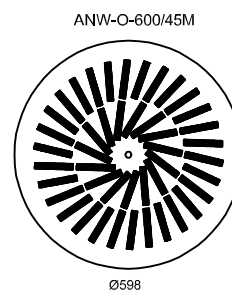
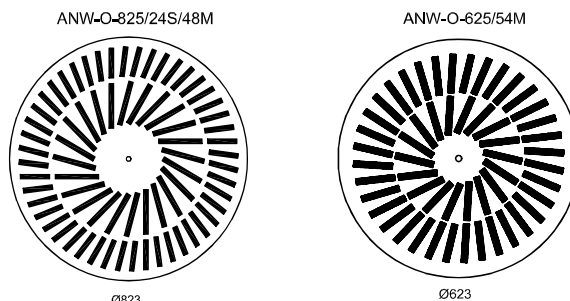
Anemostaty wirowe ANW, AWW przeznaczone są do montażu ze Diffusers ANW and AWW are designed for installation with the expansion box SR/ANW or SR/AWW.

INSTALLATION IN THE FULL UNDERSLUNG CEILING: prepare an installation hole in the ceiling of a size of the expansion box. Put the expansion box in so that edges stick out by approx. 12 mm from the ceiling panel. Slide the front panel of the ventilator onto the box and fix it to the sides with steel screws. Remember to seal joints.

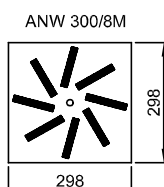
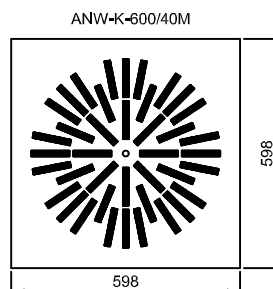
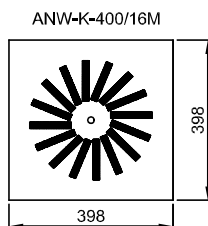
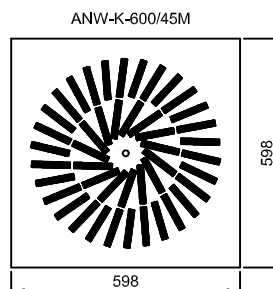
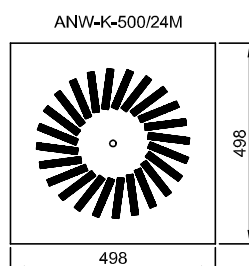
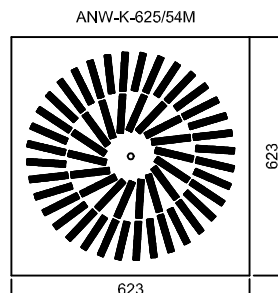
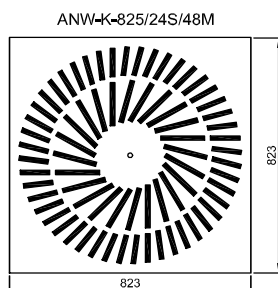
INSTALLATION IN PANEL CEILING – ventilator together with the expansion box should be installed above the ceiling level so that the front panel of the ventilator sticks evenly to the ceiling panel.

INSTALLING R-TYPE – ventilator with the decorative frame can be fixed into the ceiling by appropriate bolts and screws through installation holes in the frame. Remember to seal joints.

Round diffusers ANW-O with small blades

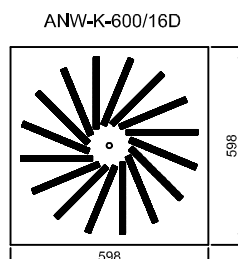
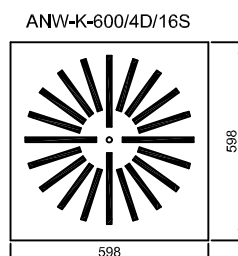
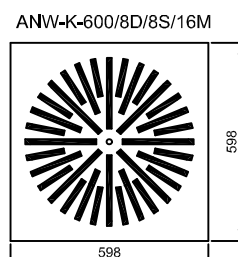
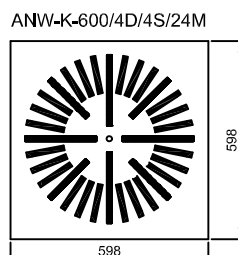
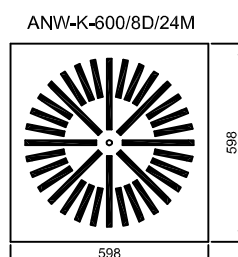
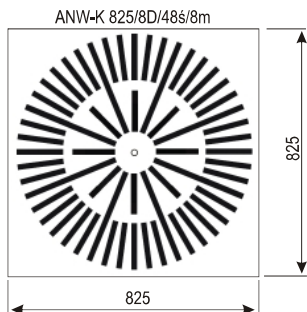


Square diffusers ANW-K with small blades

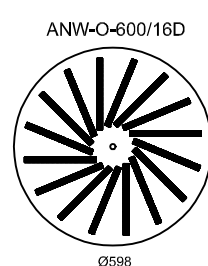
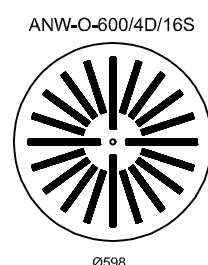
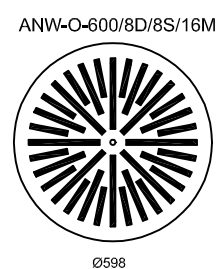
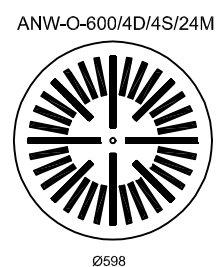
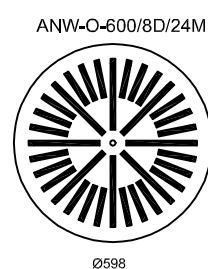
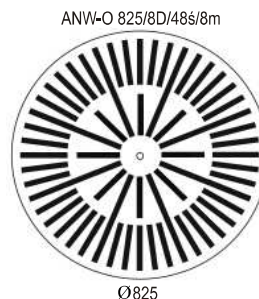


CWK Ltd. reserves the right to introduce changes in technical data

Square diffusers ANW-K with blades of various sizes



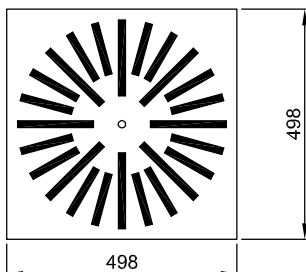
Round diffusers ANW-O with blades of various sizes



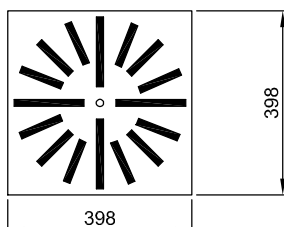
swirl diffusers with adjustable blades

Square diffusers ANW-K with blades of various sizes

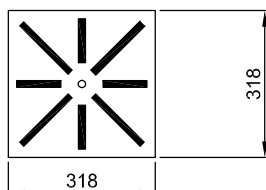
ANW-K-500/8S/16M



ANW-K-400/4S/12M



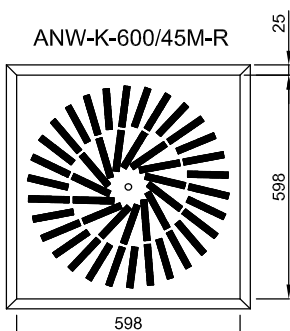
ANW-K-320/4S/4M



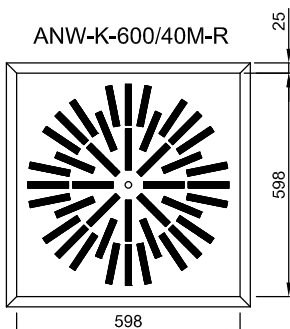
Anemostaty kwadratowe ANW-K z ramką ozdobną (przykłady)

Square diffusers ANW-K with a decorative frame (sample)

ANW-K-600/45M-R

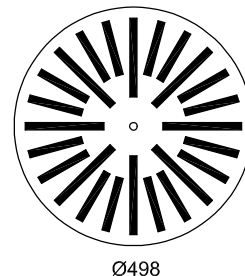


ANW-K-600/40M-R

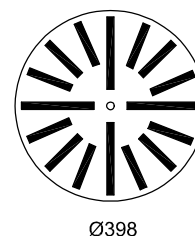


Round diffusers ANW-O with blades of various sizes

ANW-O-500/8S/16M

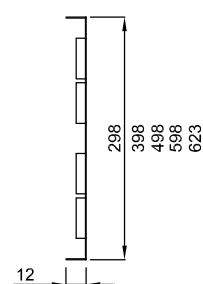


ANW-O-400/4S/12M

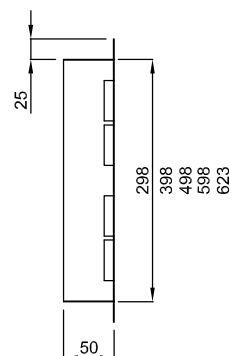


Diffusers profiles for ANW and ANW R

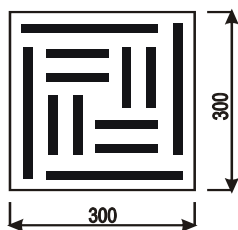
ANW-K



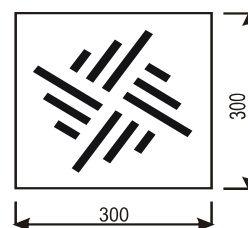
ANW-K R



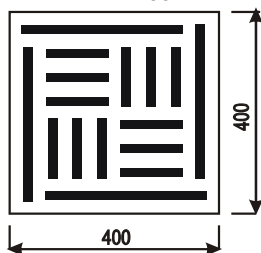
ANW-KP300



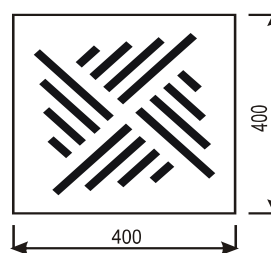
ANW-KK300



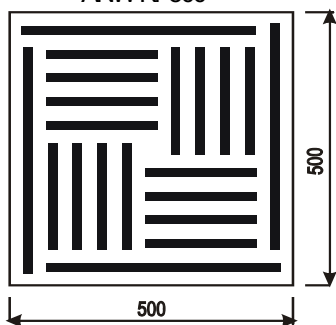
ANW-KP400



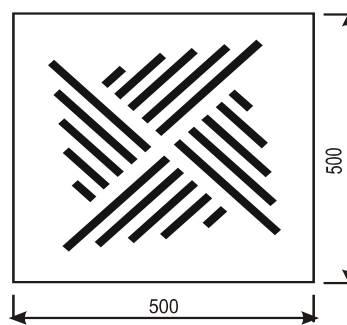
ANW-KK400



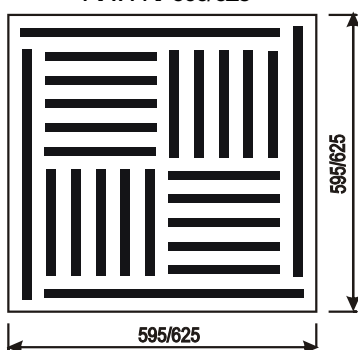
ANW-KP500



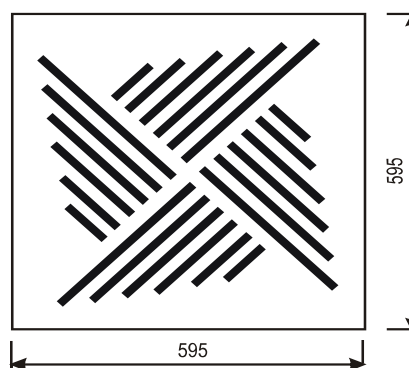
ANW-KK500



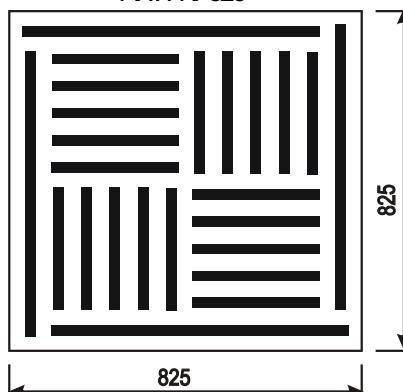
ANW-KP600/625



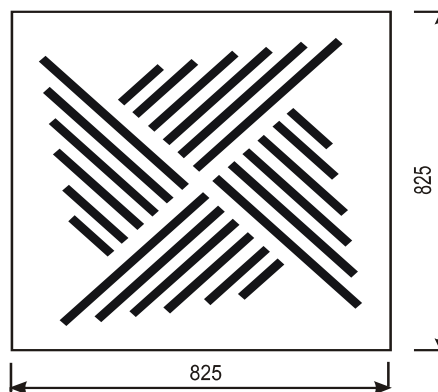
ANW-KK600



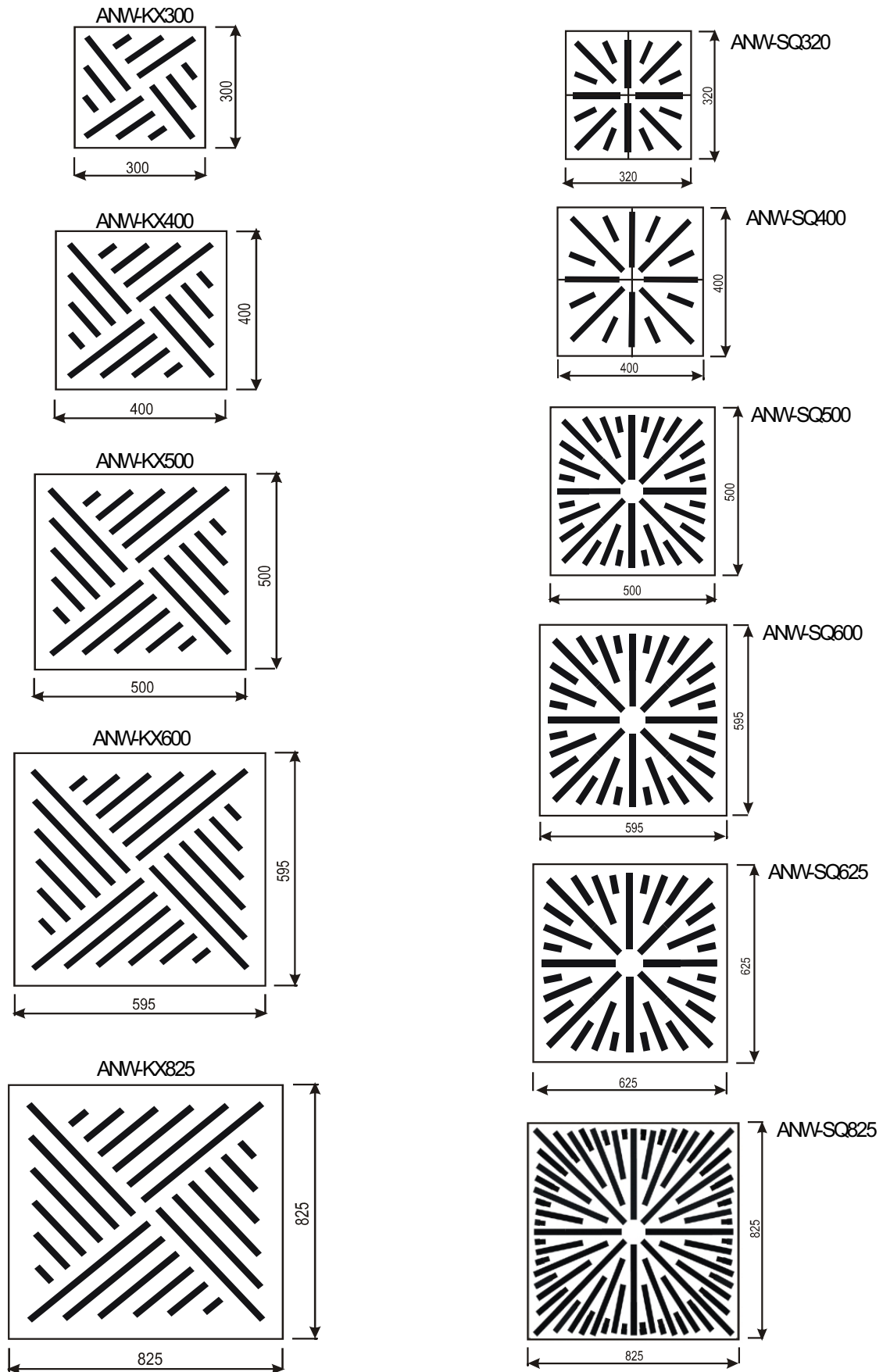
ANW-KP825



ANW-KK825



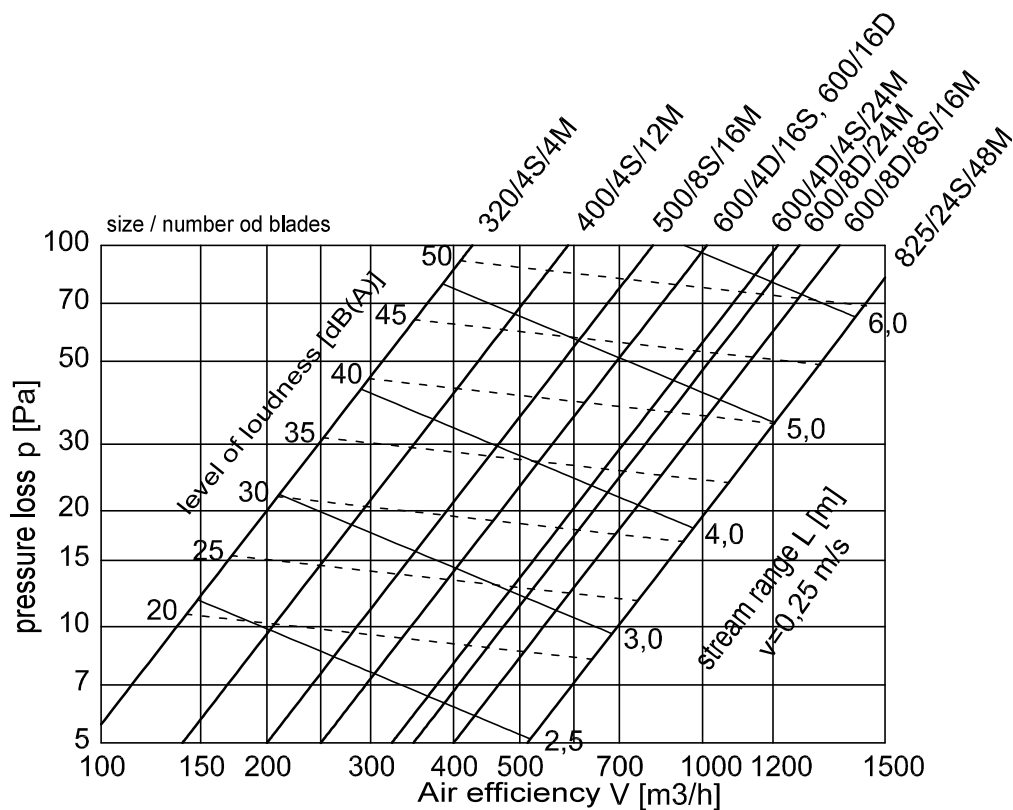
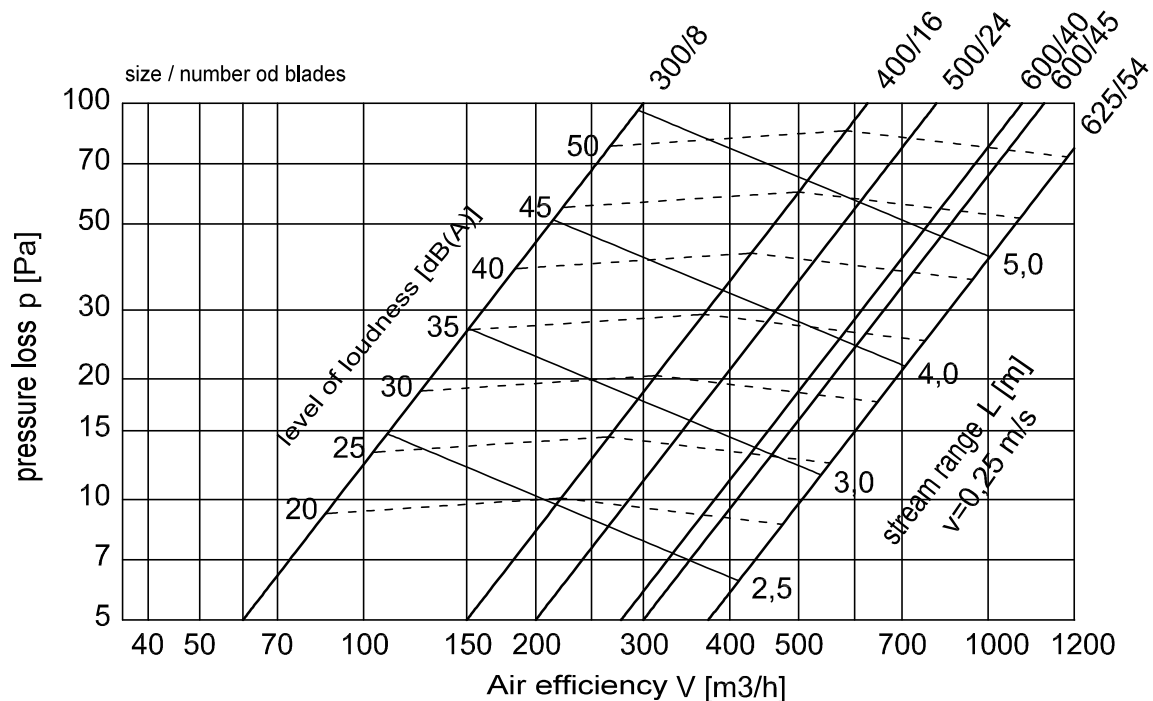
CWK Ltd. reserves the right to introduce changes in technical data



FEATURES

The figure shows airflow capacity V (m³/h), pressure loss p (Pa), airflow scope L (m) for end speed of 0.25 m/s, and volume level [dB(A)].

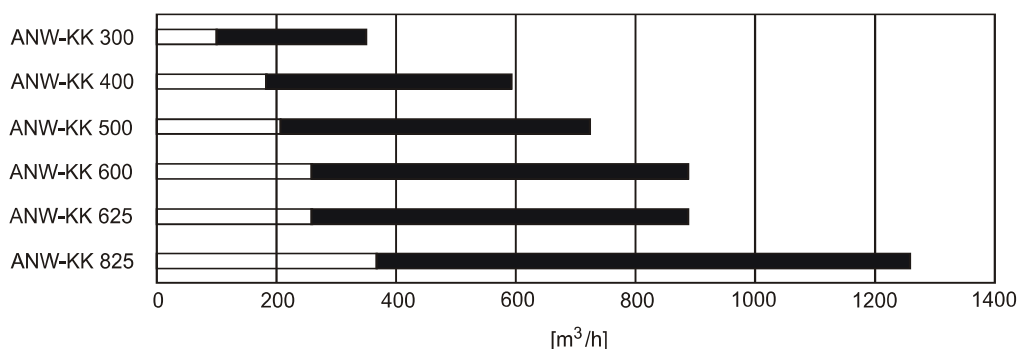
The airflow scope L relates to isothermal air supply.



swirl diffusers with adjustable blades

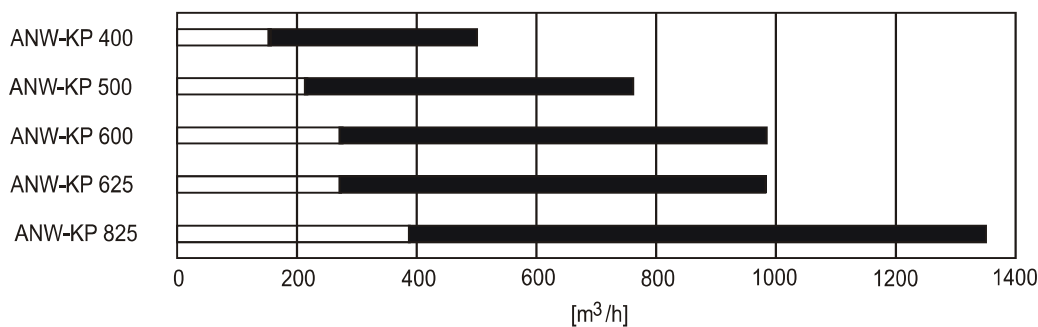
ANW-KK

Model	The volume of air flow Q [m ³ /h]	Ventilation levels X0.37 [m] (V _t 0.37 m/s)	Pressure drop	Noise L _A [dB(A)]
ANW-KK 300	[101-356]	[0.3-1.0]	[5-50]	[−47]
ANW-KK 400	[171-594]	[0.4-1.5]	[5-50]	[−37]
ANW-KK 500	[207-713]	[0.5-1.7]	[5-50]	[−33]
ANW-KK 600	[254-885]	[0.5-1.9]	[5-50]	[−29]
ANW-KK 625	[254-885]	[0.5-1.9]	[5-50]	[−29]
ANW-KK 825	[364-1253]	[0.7-2.6]	[5-50]	[−22]



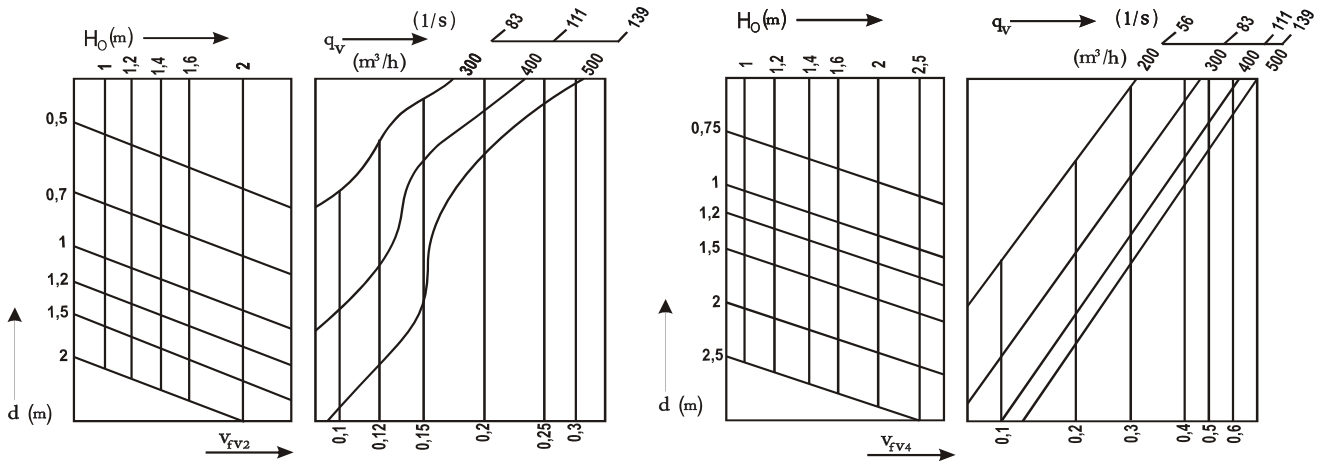
ANW-KP

Model	The volume of air flow Q [m ³ /h]	Ventilation levels X0.37 [m] (V _t 0.37 m/s)	Pressure drop	Noise L _A [dB(A)]
ANW-KP 400	[145-509]	[0.3-1.2]	[5-50]	[−24]
ANW-KP 500	[216-756]	[0.5-1.6]	[5-50]	[−25]
ANW-KP 600	[278-984]	[0.6-2.0]	[5-50]	[−26]
ANW-KP 625	[278-984]	[0.6-2.0]	[5-50]	[−26]
ANW-KP 825	[381-1341]	[0.8-2.6]	[5-50]	[−26]

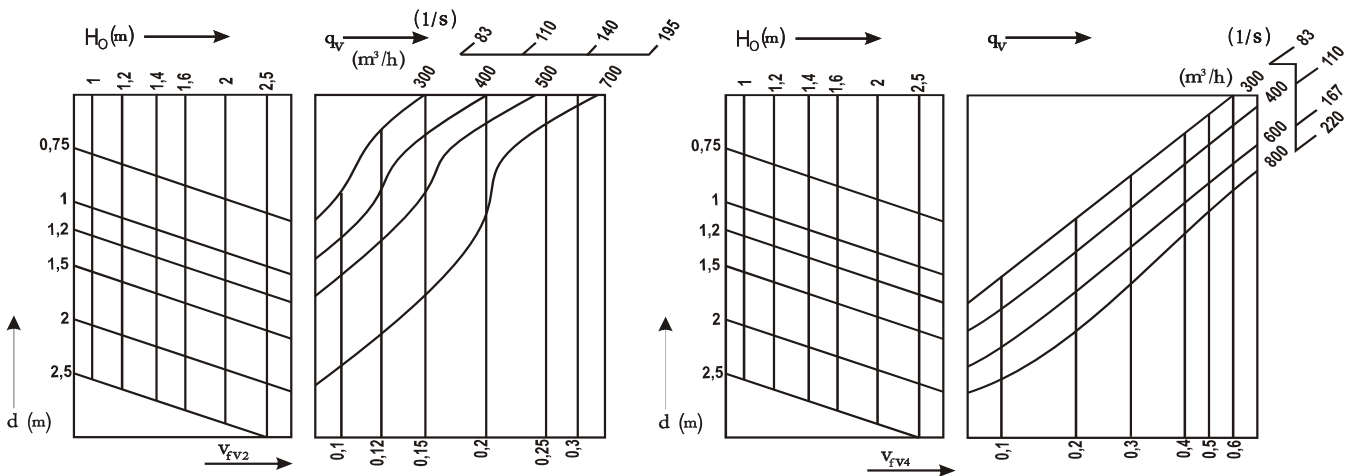


FEATURES

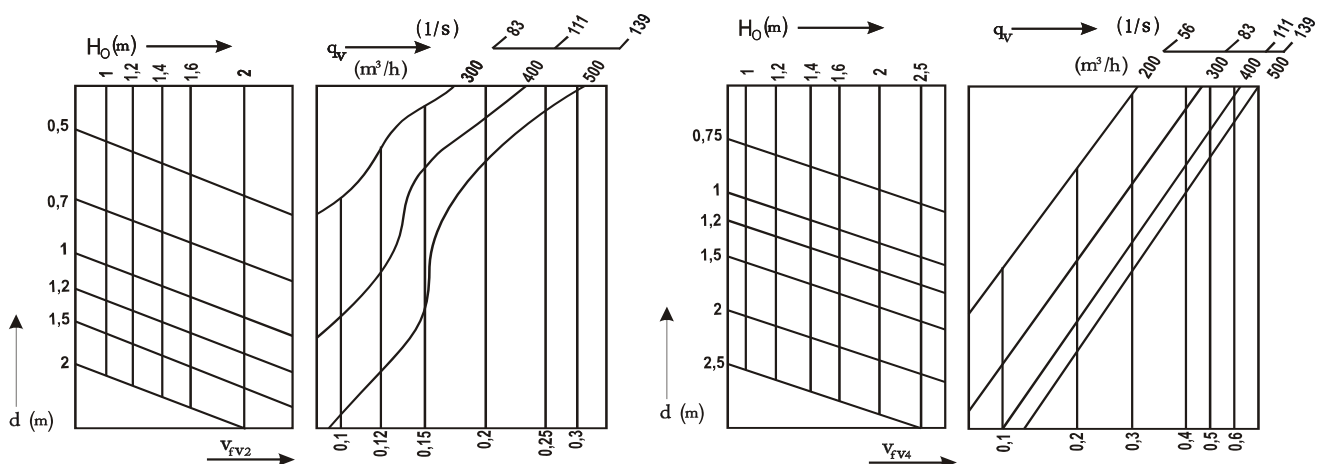
ANW-KK 400



ANW-KK 500

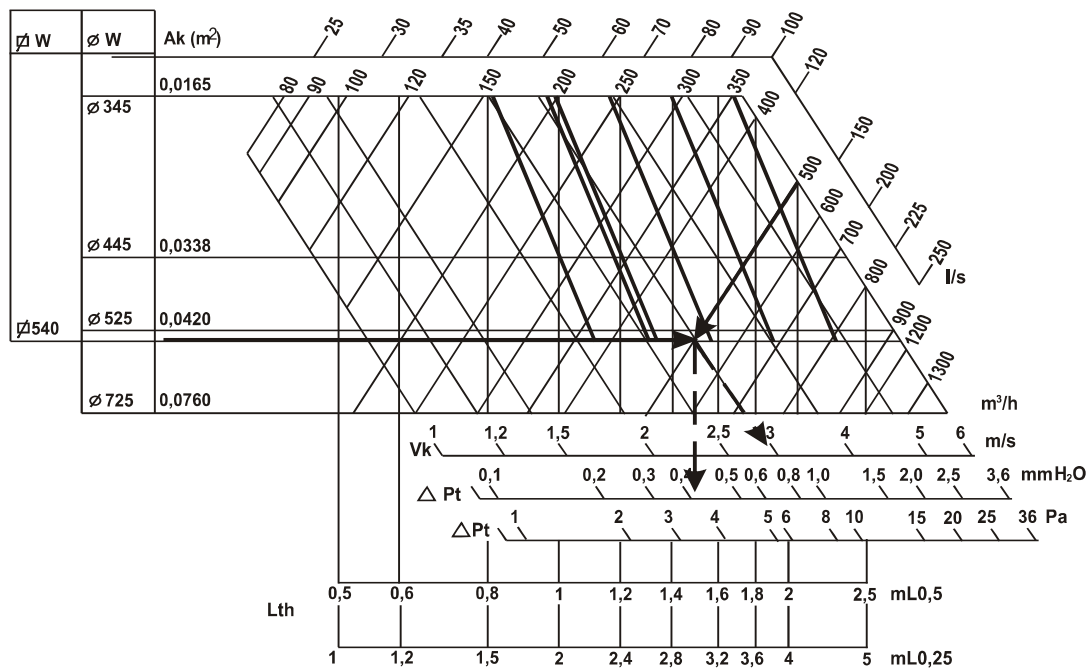


ANW-KK 600

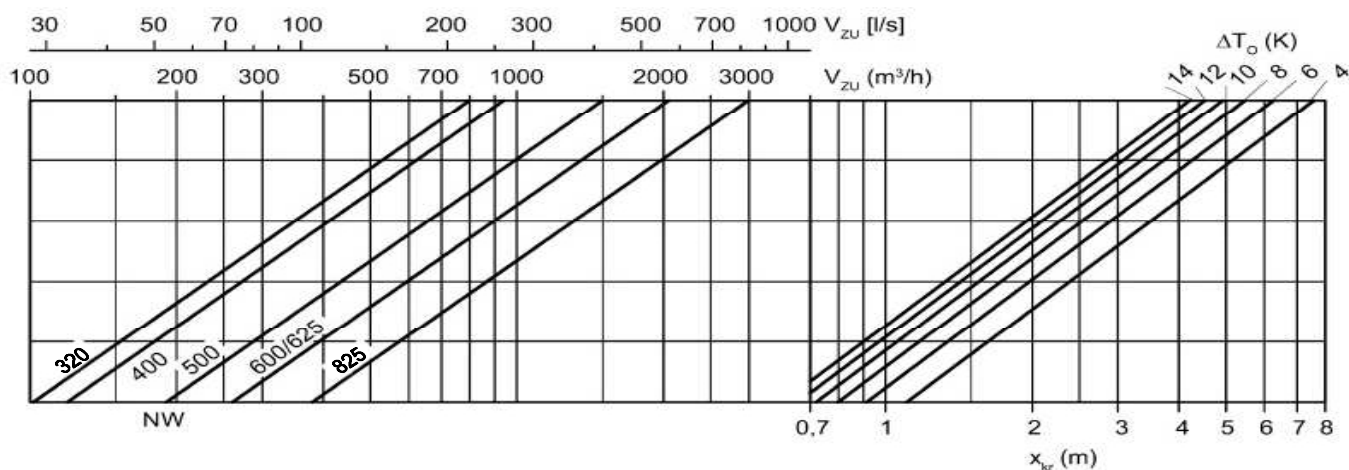


swirl diffusers with adjustable blades

ANW-KK



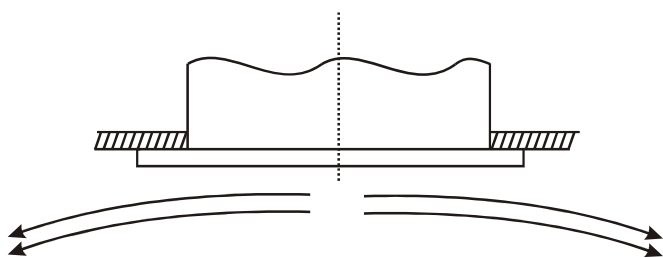
ANW-K



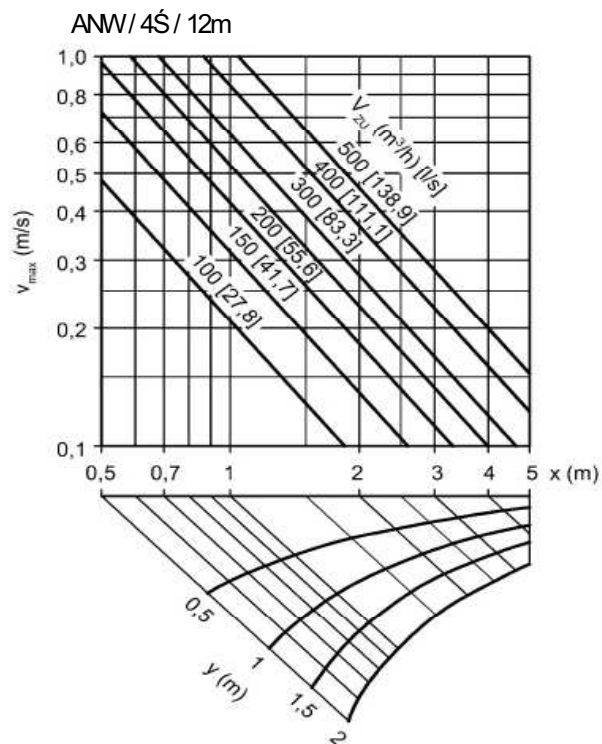
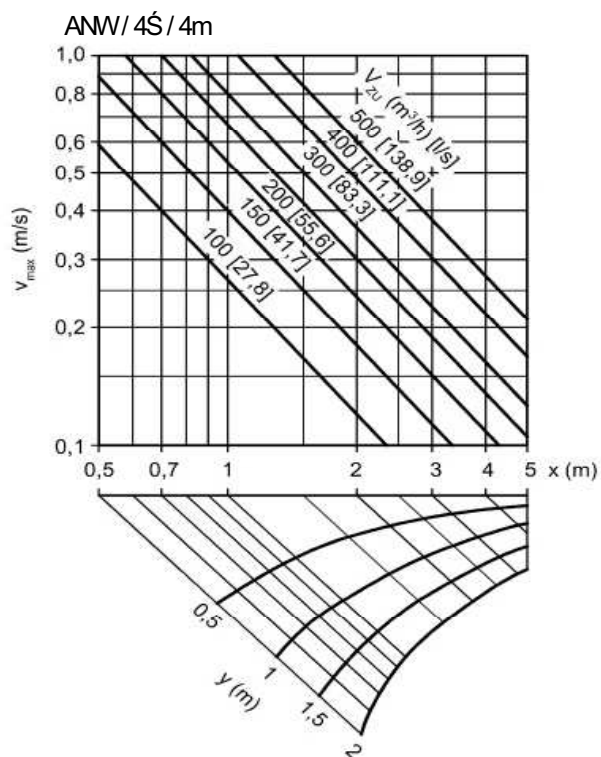
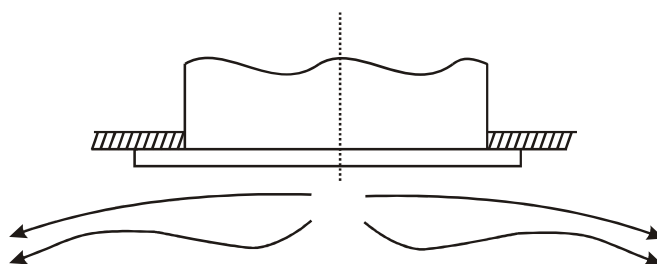
Rotational diffuser Ceiling

Maximum speed of the airflow

Position of lamella „A”

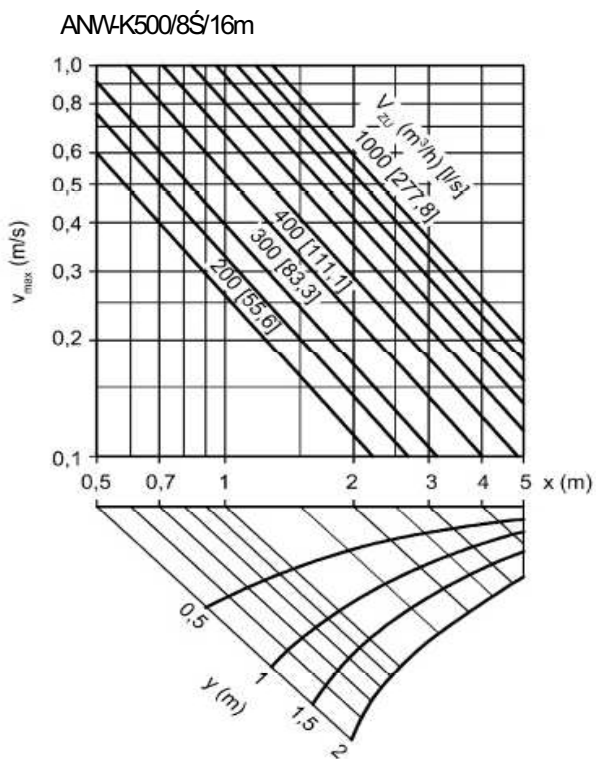


Position of lamella „B”

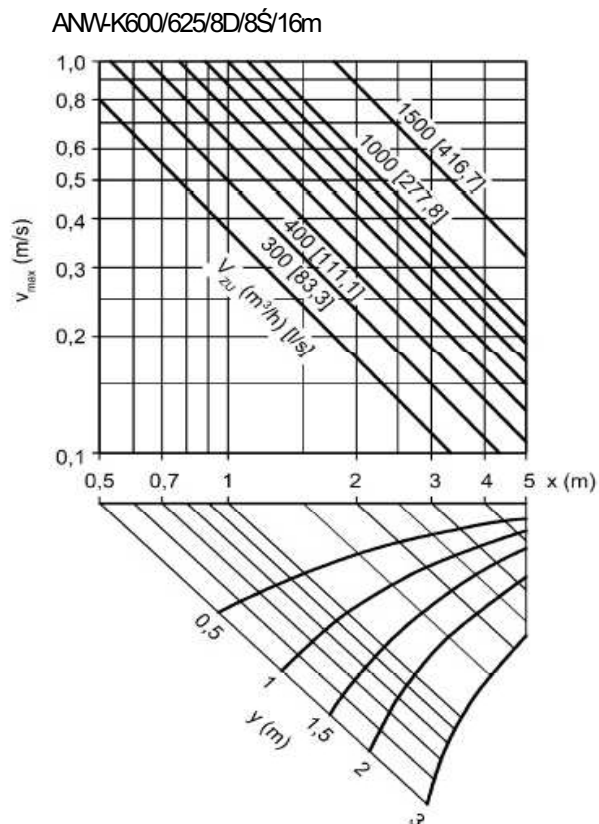


Location lamella 'A' = the value of graphs x 1.31
 Free stream = value in the graphs x 0.7

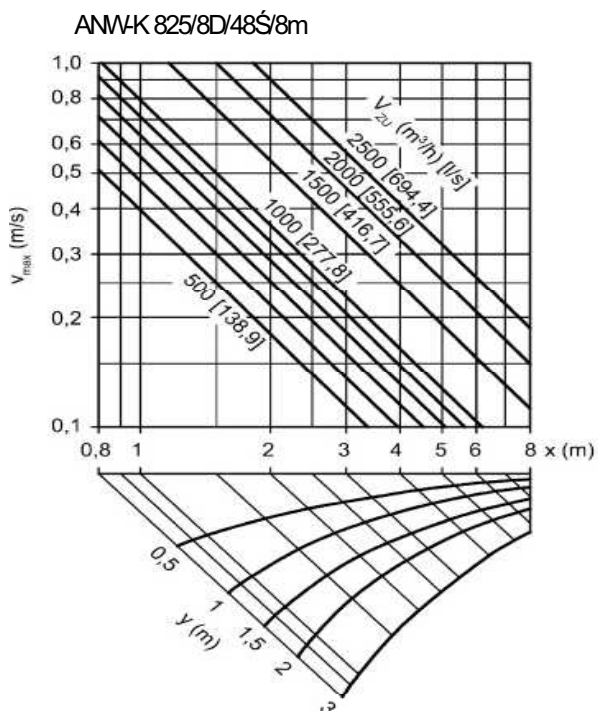
Rotational diffuser Ceiling



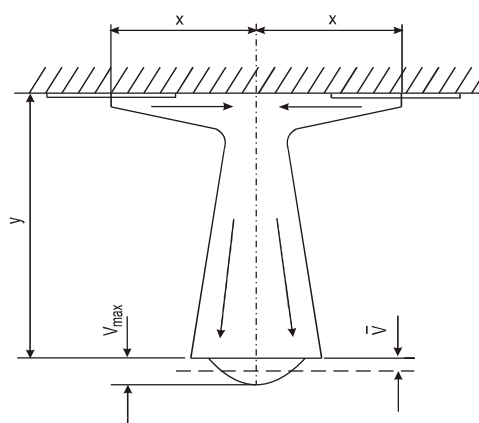
Location lamella 'A' = the value of graphs x 1.25
Free stream = value in the graphs x 0.7



Location lamella 'A' = the value of graphs x 1.4
Free stream = value in the graphs x 0.7

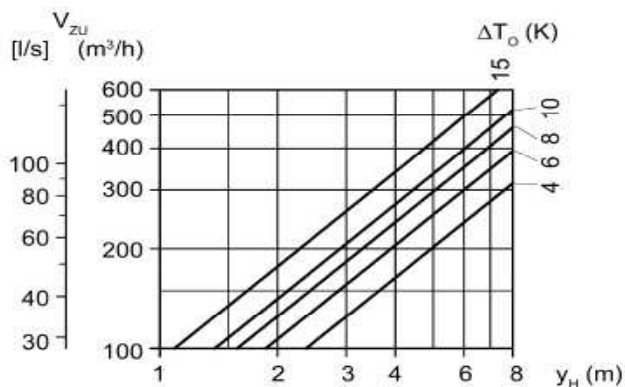


Location lamella 'A' = the value of graphs x 1.4
Free stream = value in the graphs x 0.7

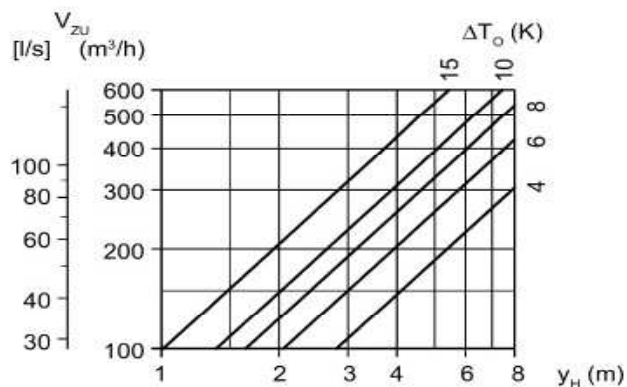


Critical range of air flow. Maximum range for the heating flux, the system blades 'B'

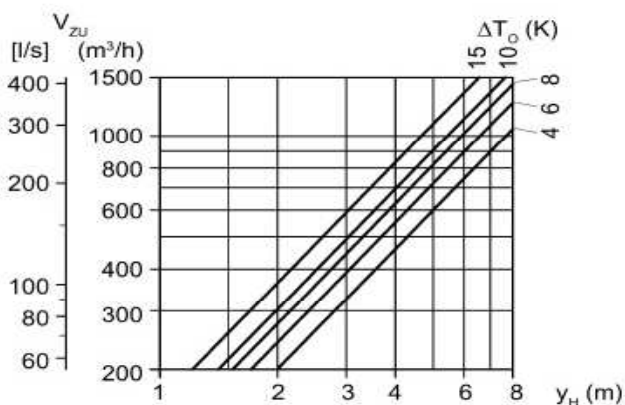
ANW-K 320/4S/4m



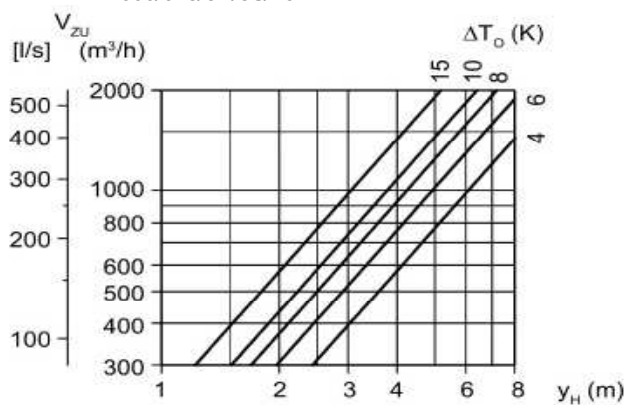
ANW-K 400/4S/12m



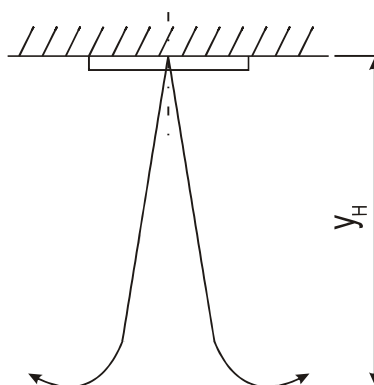
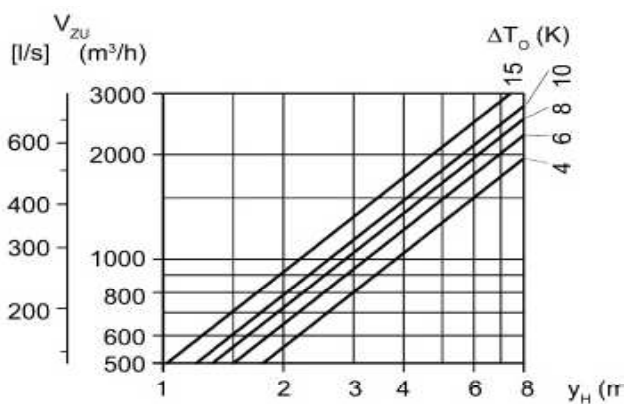
ANW-K 500/8S/16m



ANW-K 600/625/8D/8S/16m



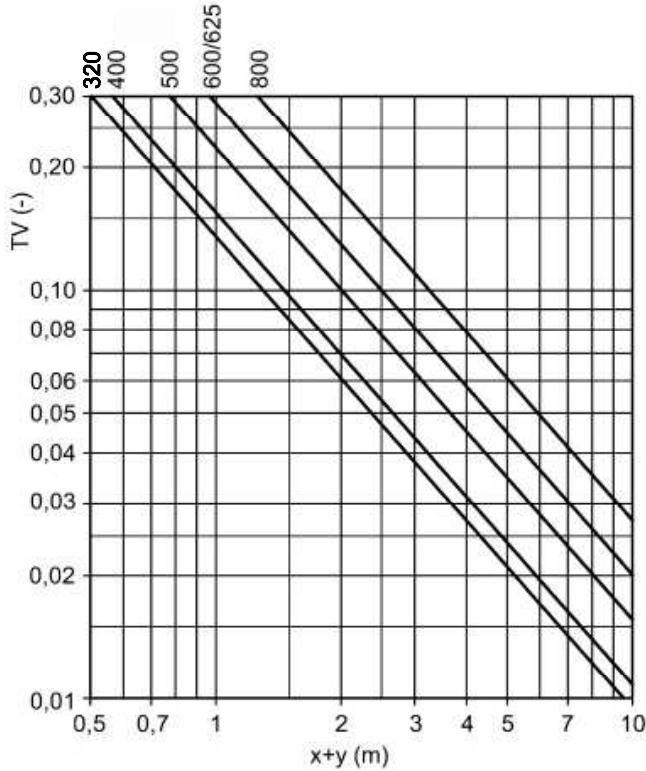
ANW-K 825/8D/48S/8m



swirl diffusers with adjustable blades

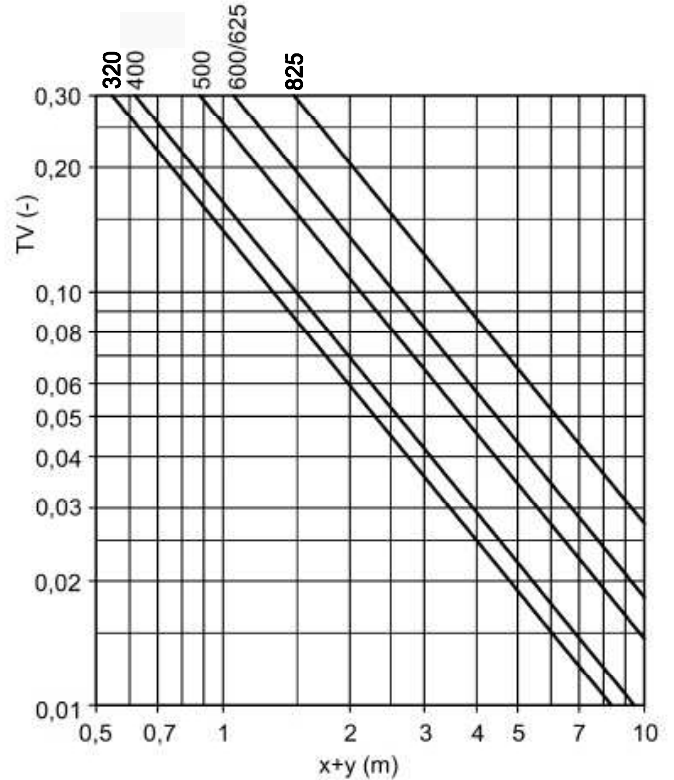
The coefficient of reduction of temperature difference to the effect of the ceiling

ANW-K



Location lamella 'A' = the value of graphs x 1.4
Free stream = value in the graphs x 0.7

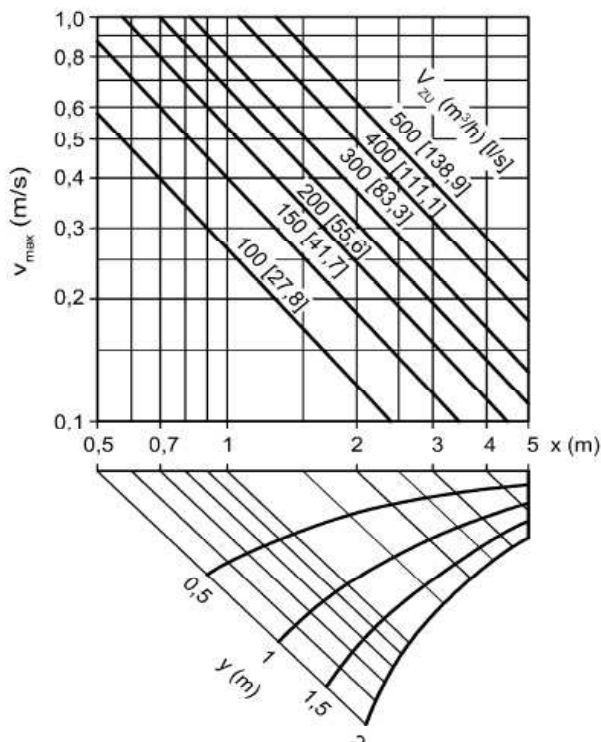
ANW-SQ



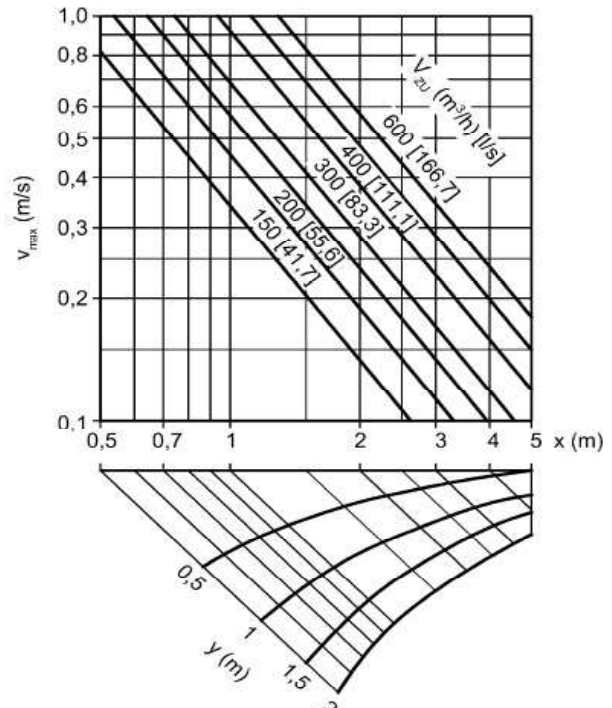
Location lamella 'A' = the value of graphs x 1.8

Whirling ceiling diffuser (vent to the effect of the ceiling)

ANW-SQ 320



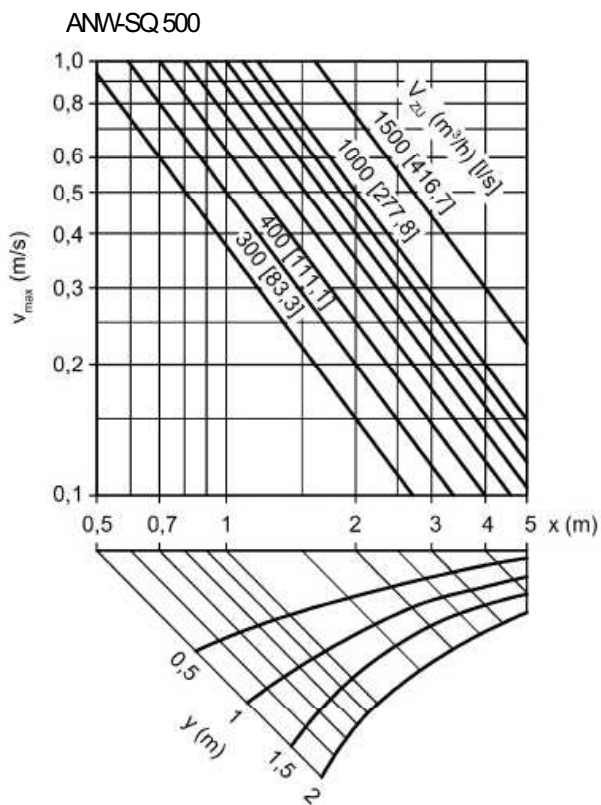
ANW-SQ 400



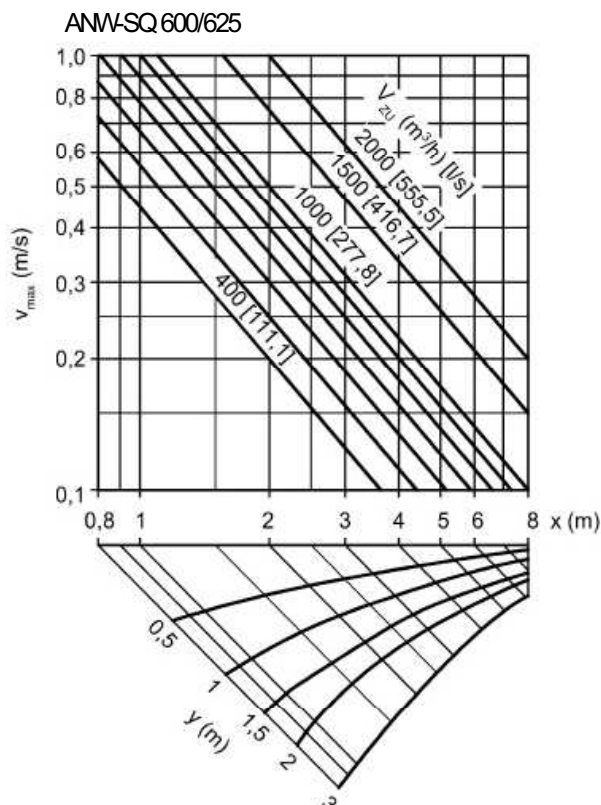
Location lamella 'A' = the value of graphs x 1.18

CWK Ltd. reserves the right to introduce changes in technical data

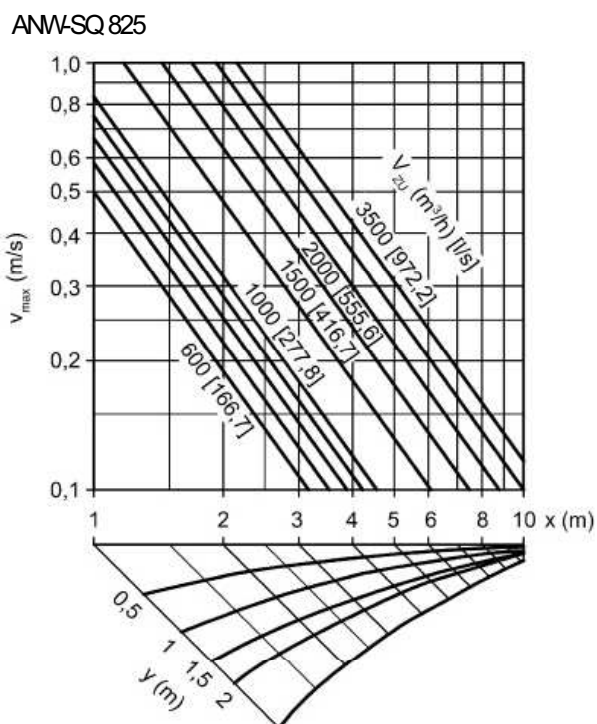
Rotational diffuser Ceiling



Location lamella 'A' = the value of graphs x 1.22



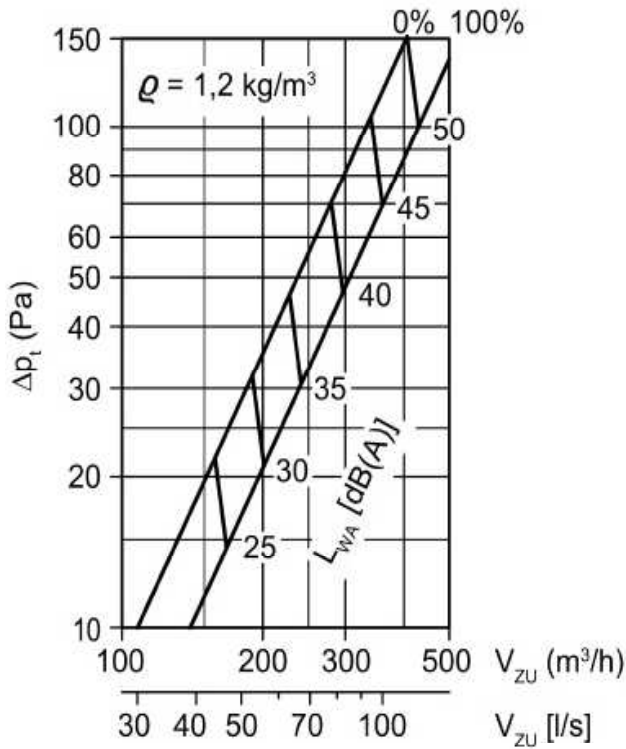
Location lamella 'A' = the value of graphs x 1.4



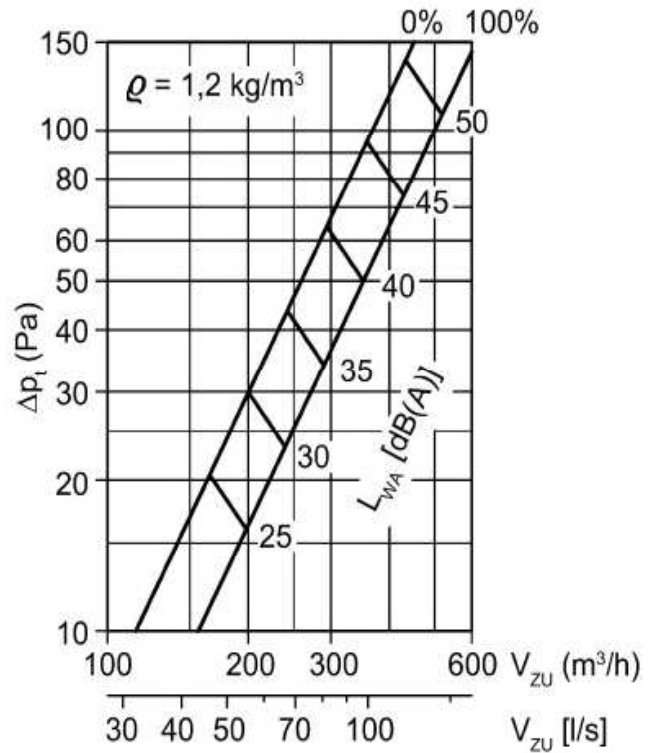
Location lamella 'A' = the value of graphs x 1.4

Rotational diffuser Ceiling

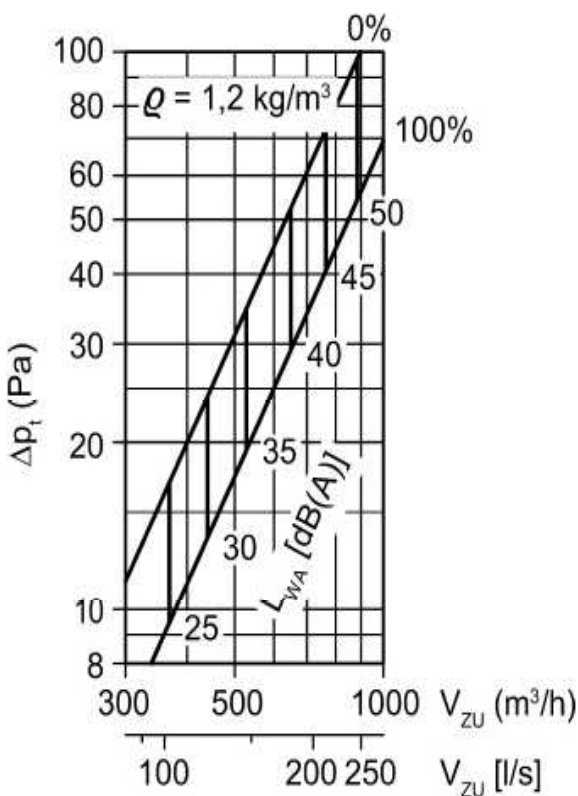
ANW-SQ 320



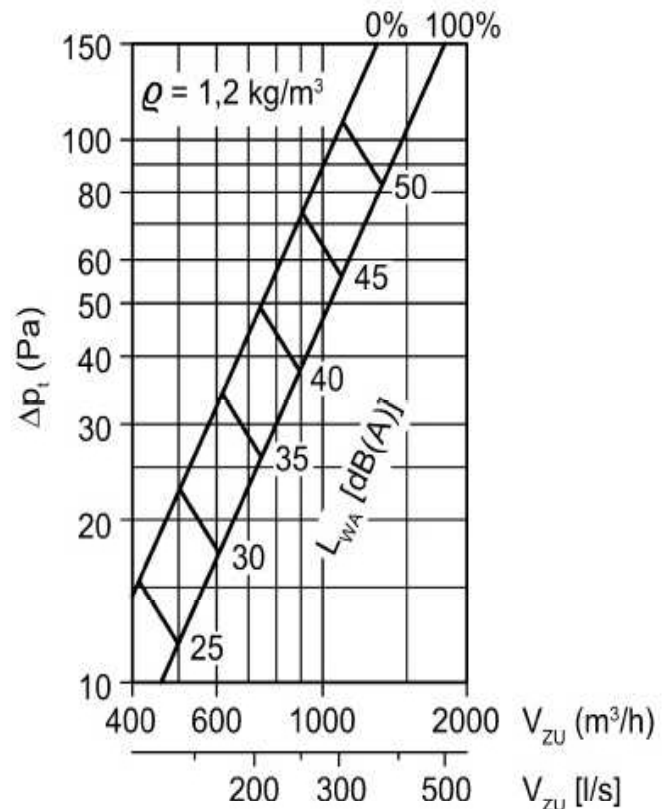
ANW-SQ 400



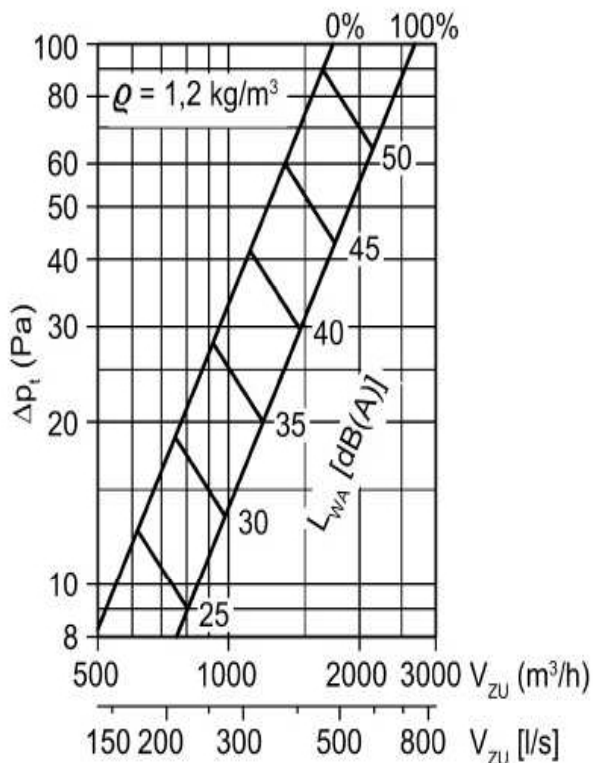
ANW-SQ 500



ANW-SQ 600/625



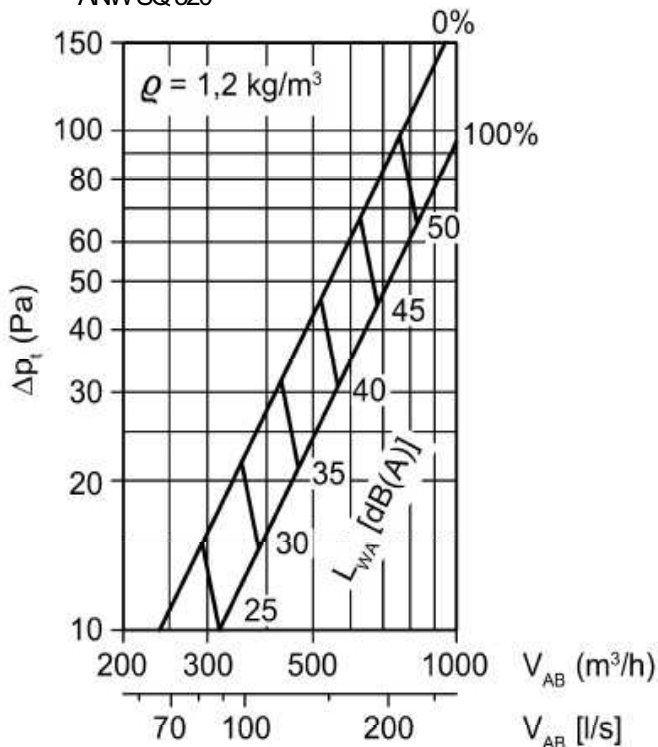
ANW-SQ 825



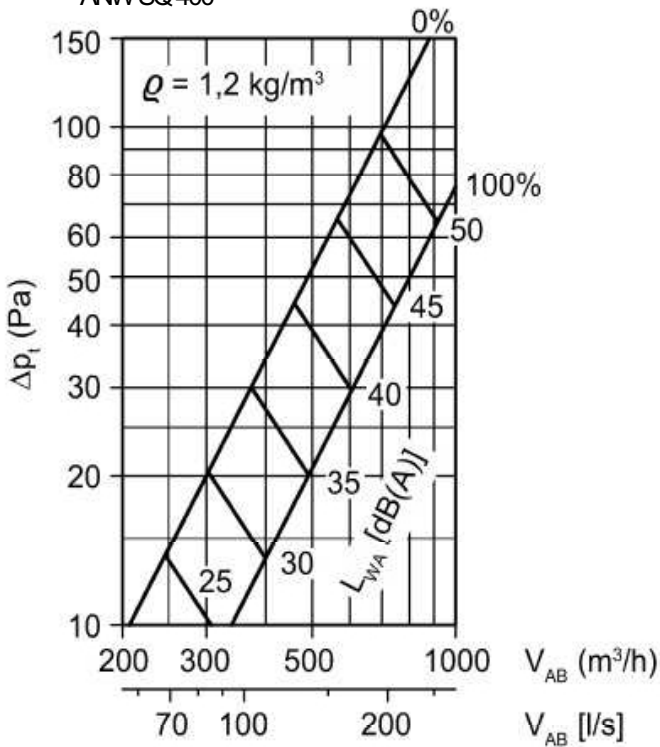
Throttle setting: 0% = closed 100% = open

Rotational diffuser Ceiling (ventilation) attachable to the box

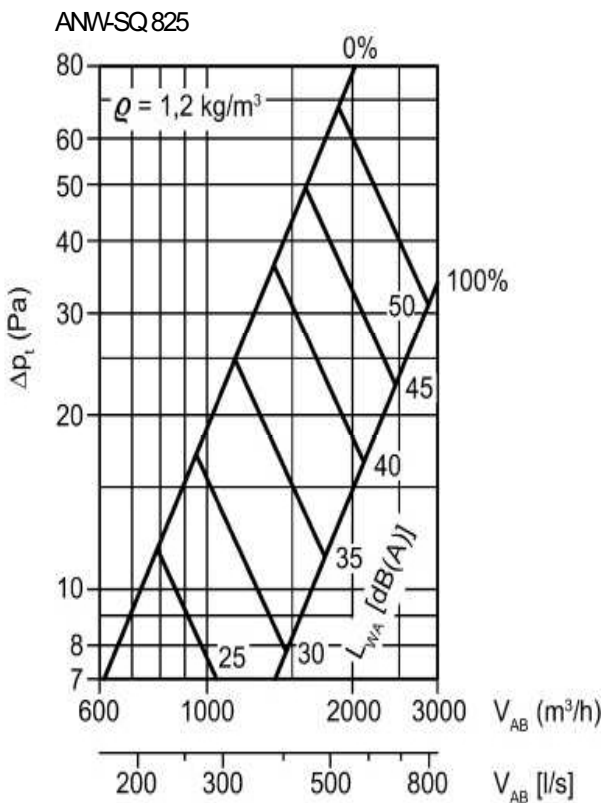
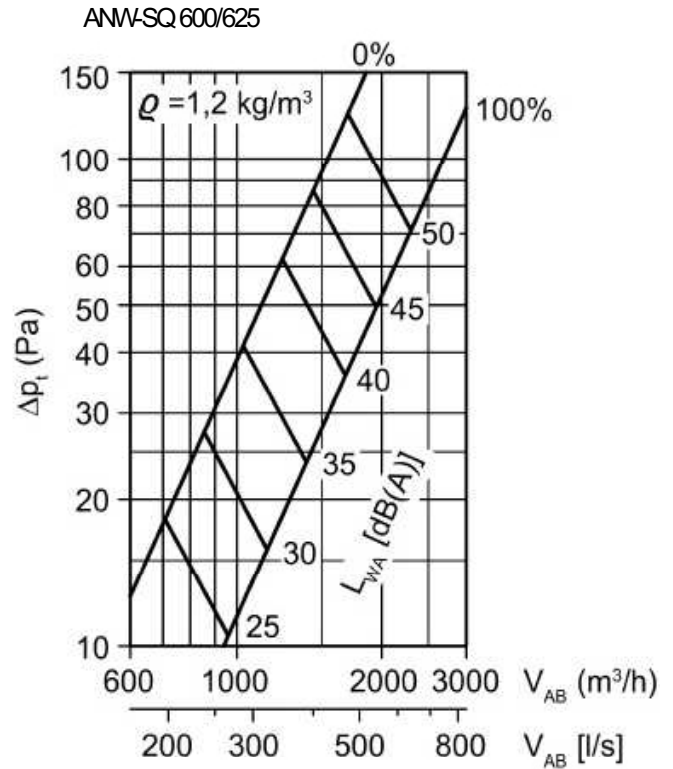
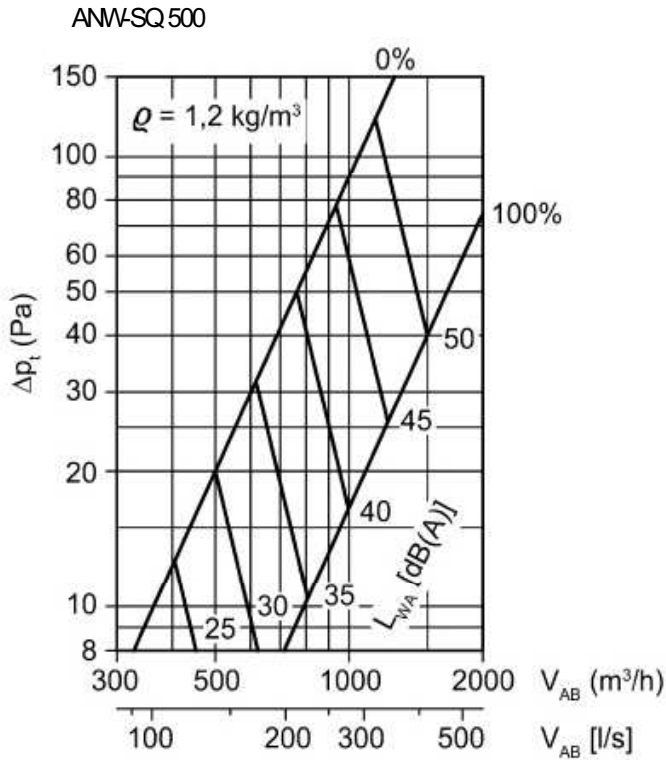
ANW-SQ 320



ANW-SQ 400



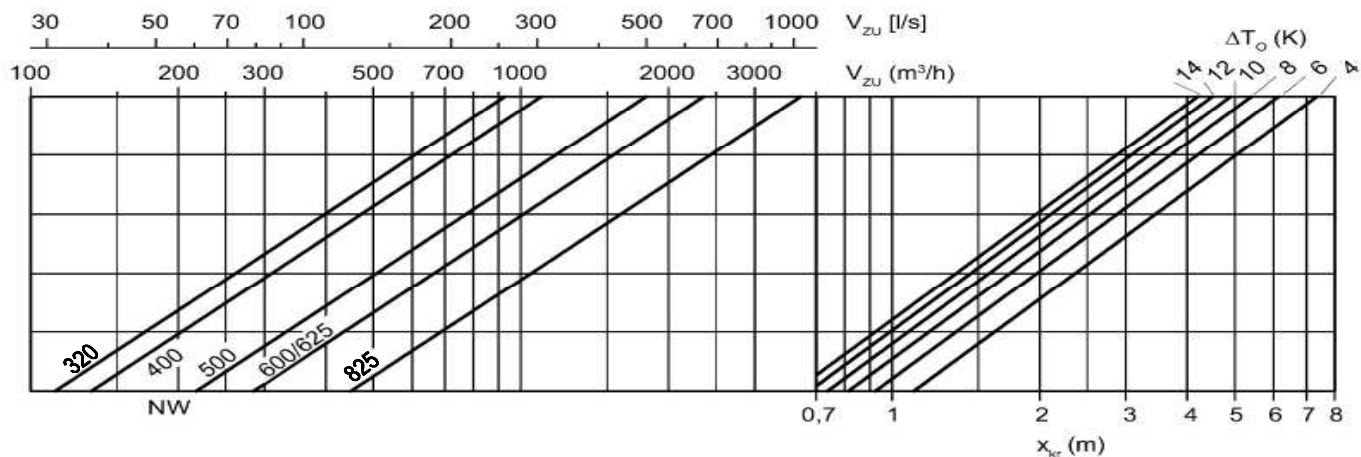
Rotational diffuser Ceiling



Throttle setting: 0% = closed 100% = open

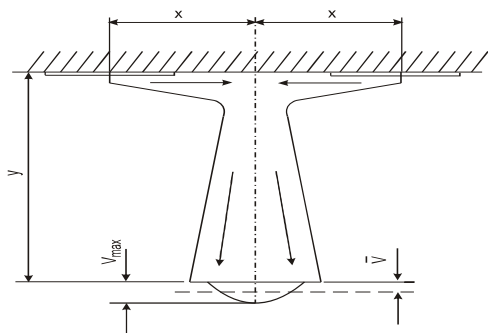
Critical range of air flow (ventilation) to the effect of the ceiling

ANW-SQ



Location slats "B"

Location slats "A" = $x \cdot 1.12$

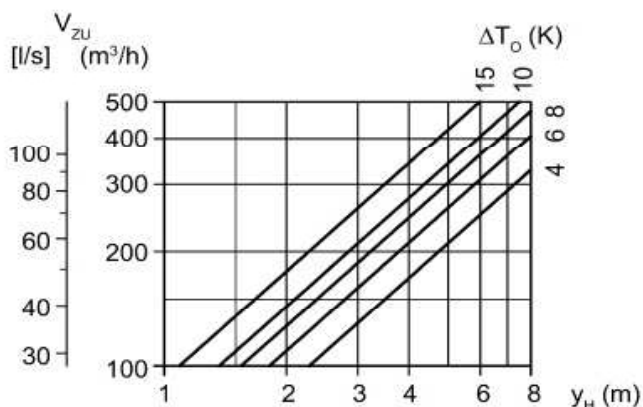


Critical range of air flow (ventilation) to the effect of the ceiling

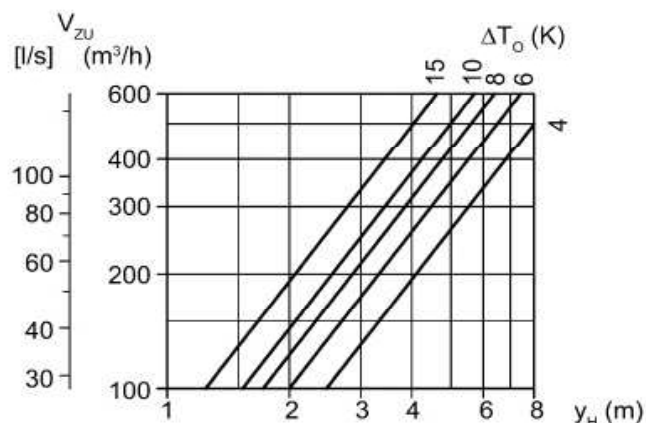
Rotational diffuser Ceiling

Critical range of air flow stream for maximum range of heating, the location of slats 1

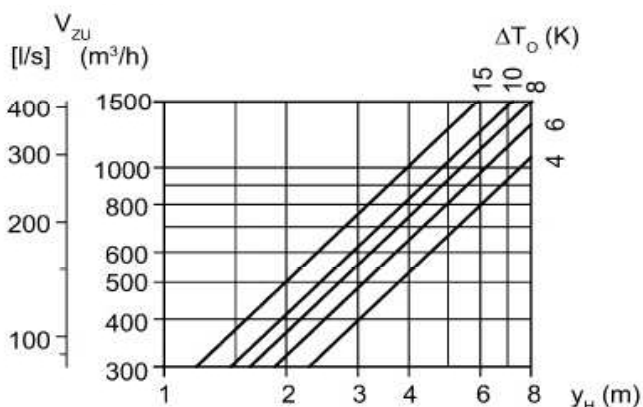
ANW-SQ 320



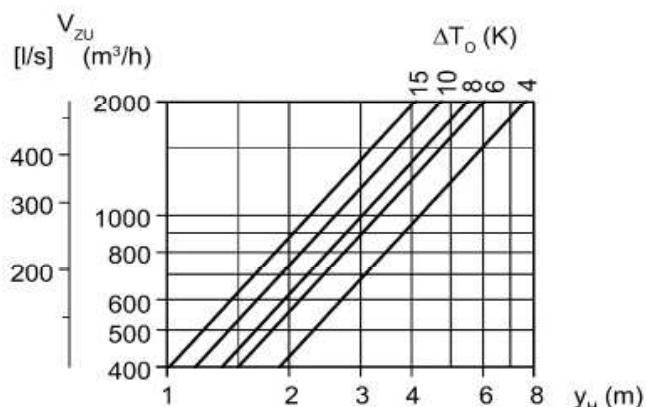
ANW-SQ 400



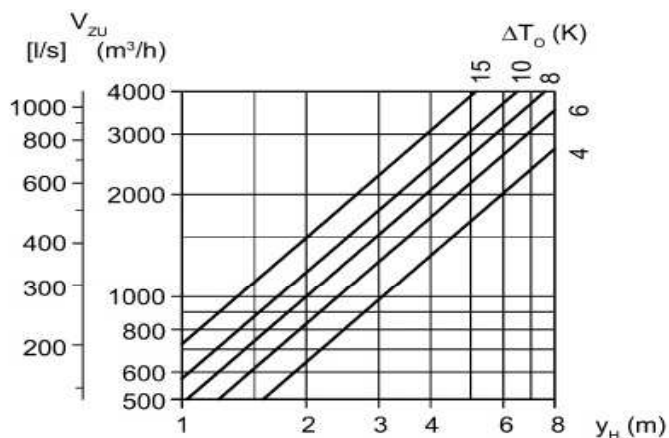
ANW-SQ 500

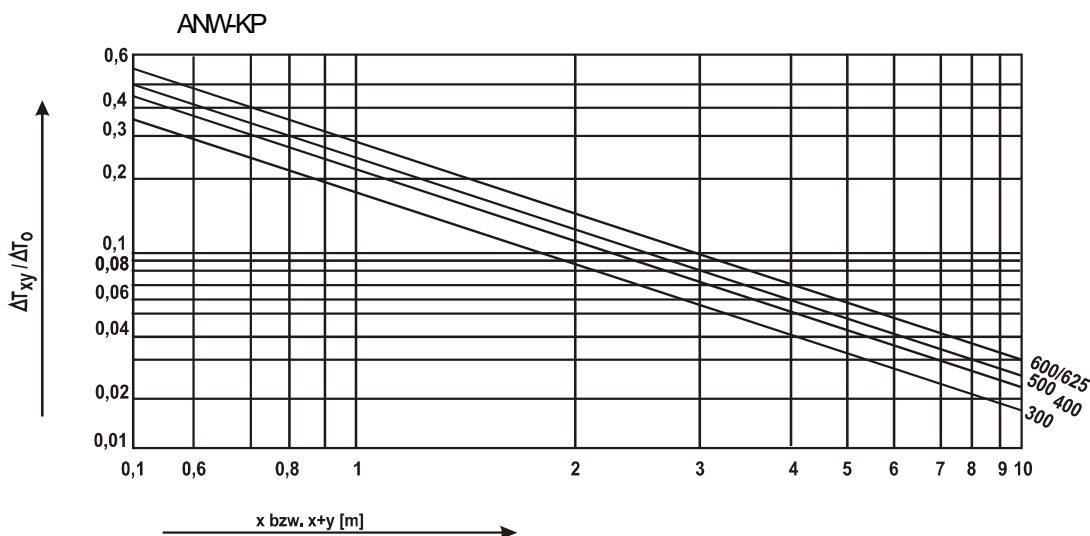
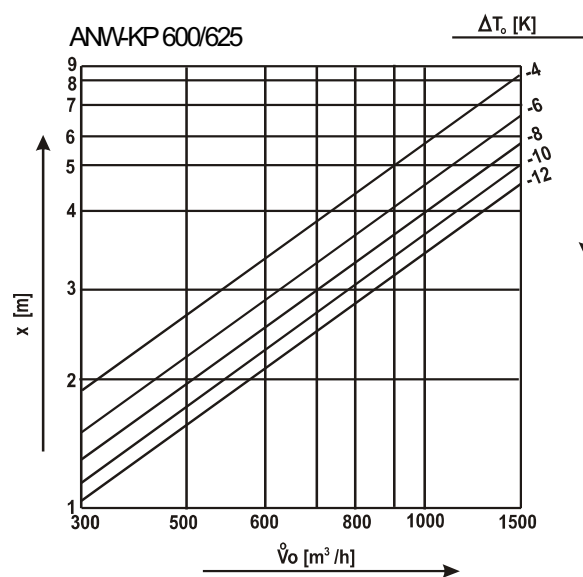
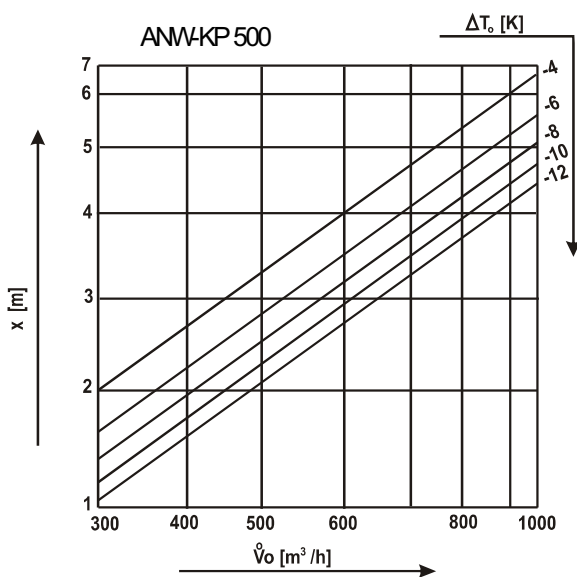
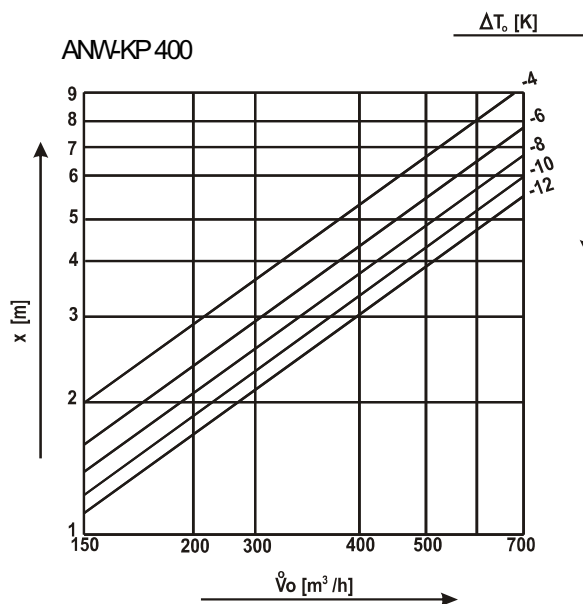
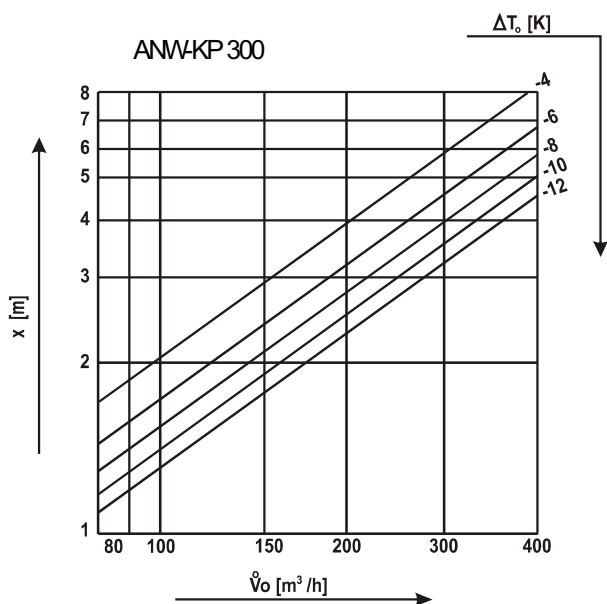


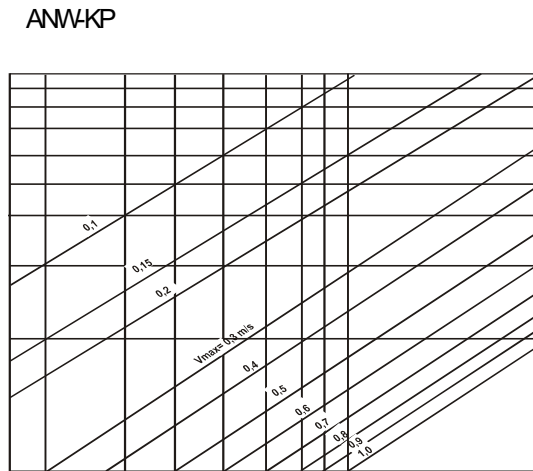
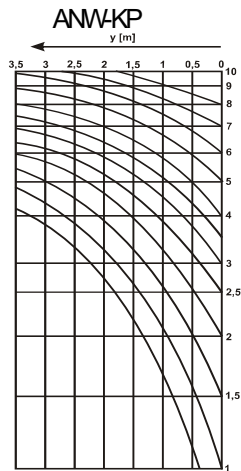
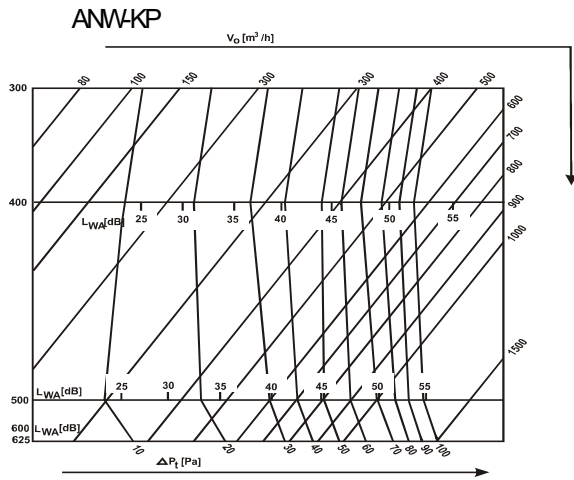
ANW-SQ 600/625



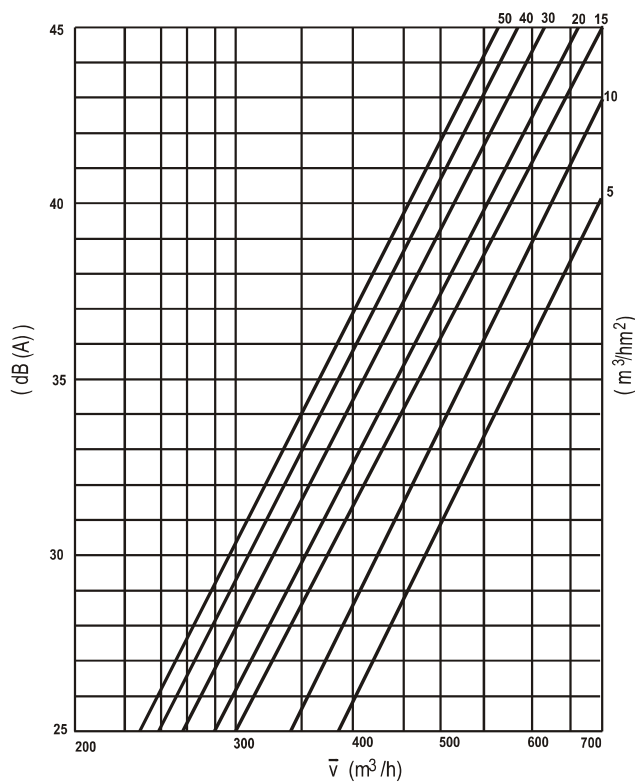
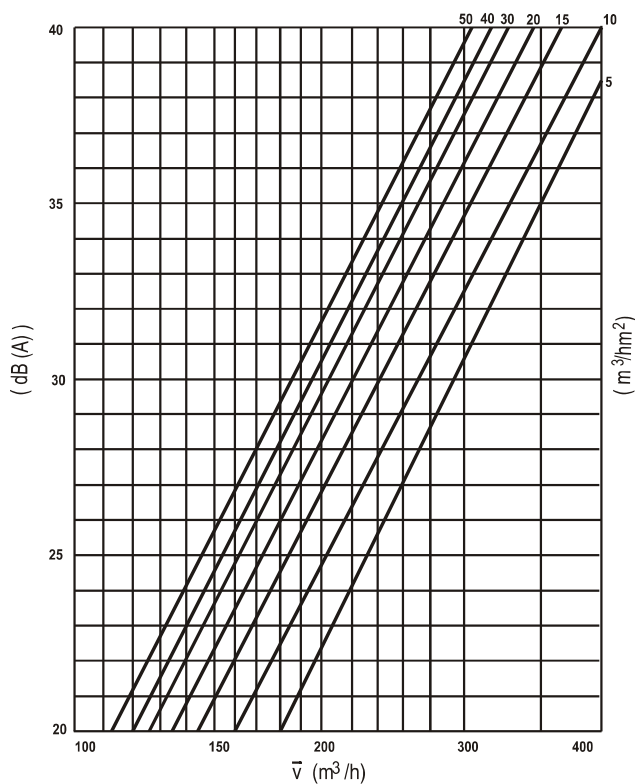
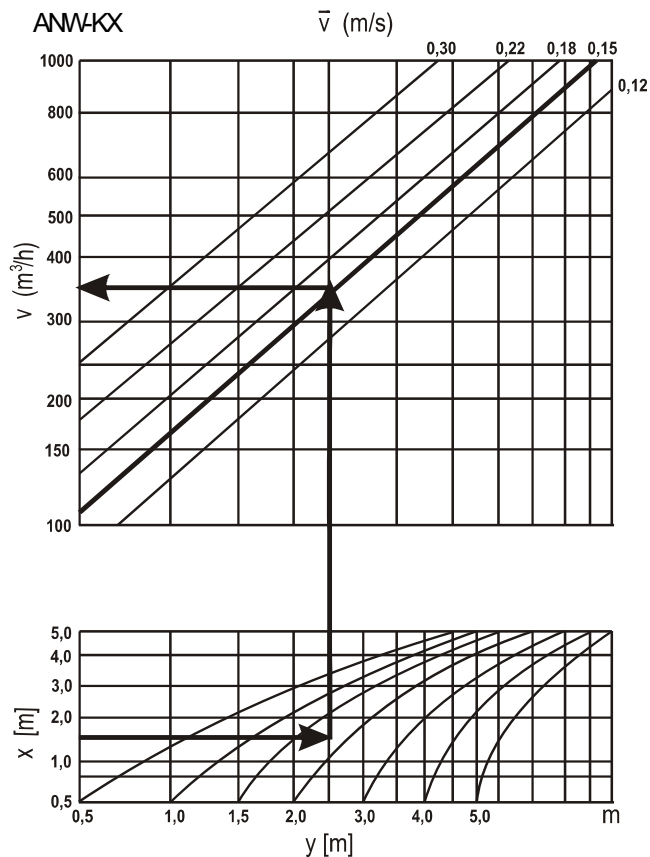
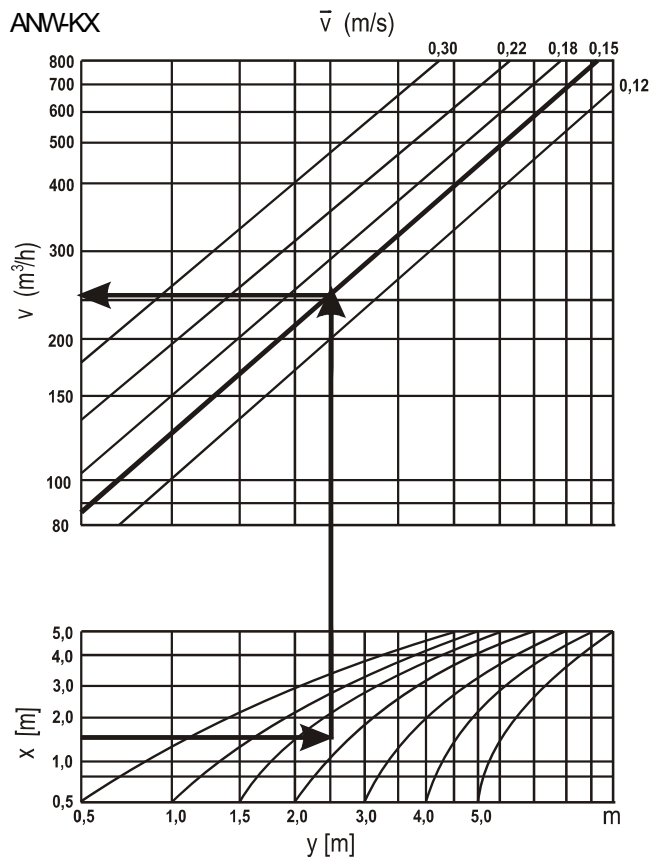
ANW-SQ 825



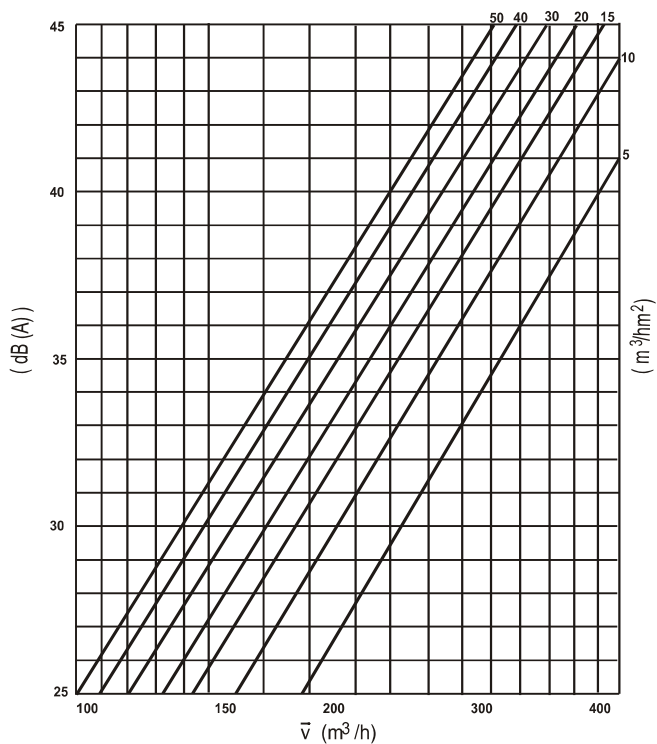
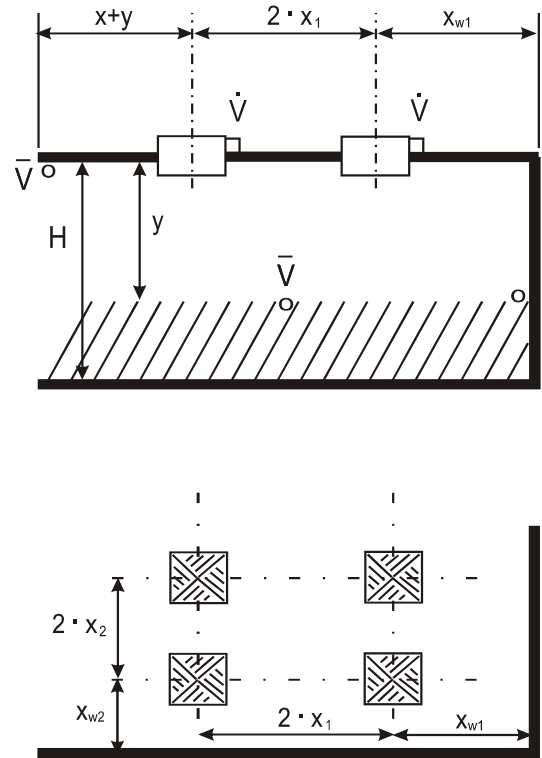
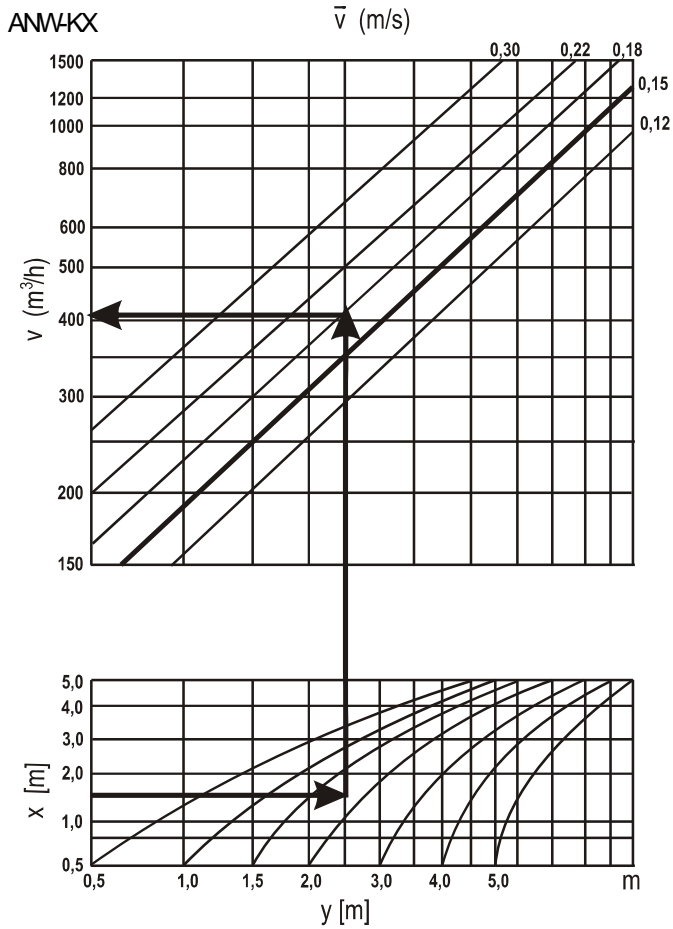




Rotational diffuser Ceiling



Rotational diffuser Ceiling



Wroty nawiewnik sufitowy

V_{ZU} (m^3/h)	= amount of air blown
V_{ZU} [l/s]	= amount of air blown
V_{AB} (m^3/h)	= amount of exhaust air
V_{AB} [l/s]	= amount of exhaust air
V_{max} (m/s)	= max. speed
Y_H (m)	= max. the vertical range of air flow for heating
x (m)	= levels reach the stream
y (m)	= vertical reach the stream
$x+y$	= horizontal & vertical coverage
i (-)	= factor induction
TV (-)	= coefficient of temperature difference
NW (mm)	= diameter
x_{kr} (m)	= critical range
ΔT_o (K)	= temperature difference between air and the temperature of the room nawiewanym
t_{ZU} (st.C)	= temperature of the airflow
t_R (st.C)	= room temperature
V (m/s)	= average speed
Δp_t (Pa)	= pressure drop
L_{WA} [dB(A)]	= sound power level by. A
ρ (kg/m^3)	= Density