



actif

## AX6 adjustable blades swirl diffusers



MADEL®

**AX6** series swirl diffusers are designed to be applied in air conditioning, ventilation and heating in different premises from 2,6 meters high and temperature differential up to 15°C.

They are suitable for both industrial use and comfort areas. Their round shape together with the helical design of their blades cause a swirl diffusion of the air stream, obtaining a high rate of induction, reducing stratification.

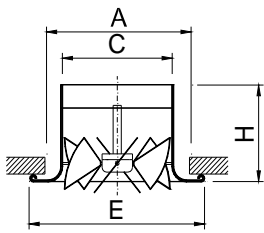
The diffusion of the air can be varied by adjusting the supply air angle of the blades, changing from horizontal projection to vertical projection in accordance with the supply air temperature.

They can be mounted in false ceilings or ductwork or suspended from the ceiling.

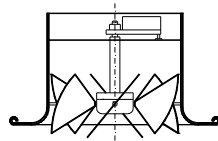


**MAD E L**<sup>®</sup>

**AX6-MA**

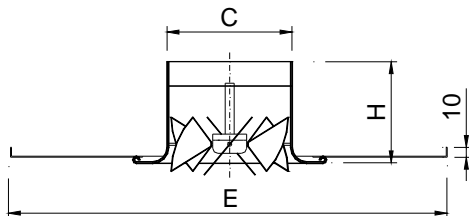


**AX6-MO+SERVO**



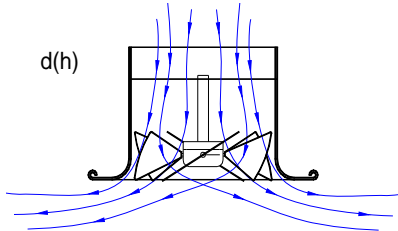
|     | E   | A   | H   | C   |
|-----|-----|-----|-----|-----|
| 250 | 360 | 300 | 202 | 248 |
| 315 | 464 | 400 | 225 | 313 |
| 400 | 560 | 500 | 250 | 401 |
| 500 | 690 | 620 | 306 | 497 |
| 630 | 870 | 780 | 350 | 627 |

**AX6-.../MOD**

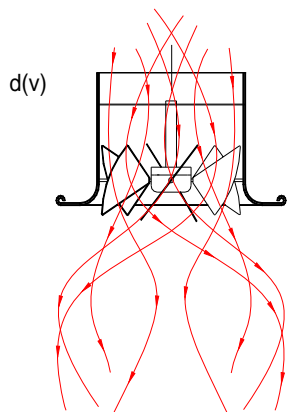


|                   | E   | H   | C   |
|-------------------|-----|-----|-----|
| AX6 - MOD 600/250 | 595 | 202 | 248 |
| AX6 - MOD 600/315 | 595 | 225 | 313 |
| AX6 - MOD 600/400 | 595 | 250 | 401 |
| AX6 - MOD 625/250 | 620 | 202 | 248 |
| AX6 - MOD 625/315 | 620 | 225 | 313 |
| AX6 - MOD 625/400 | 620 | 250 | 401 |
| AX6 - MOD 675/250 | 670 | 202 | 248 |
| AX6 - MOD 675/315 | 670 | 225 | 313 |
| AX6 - MOD 675/400 | 670 | 250 | 401 |

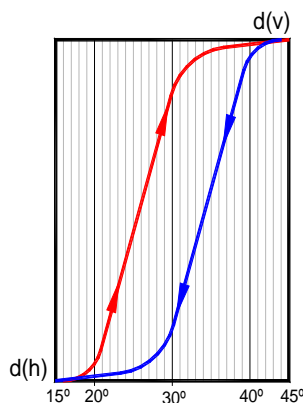
**AX6-ACTIF**



| Ø   |
|-----|
| 250 |
| 315 |
| 400 |
| 500 |



2



Time from 30° to 60°: 30 min.

**CLASSIFICATION**

**AX6-MA** Synchronously adjustable blades diffuser. Manually operated.

**AX6-MO+...** Synchronously adjustable blades diffuser by means of an actuator.

**GLB141.1E -24v** Siemens On/Off actuator.

**GLB341.1E -230v** Siemens On/Off actuator.

**GLB161.1E -24v** Siemens proportional actuator.

**GLB111.1E/MO -24v** Siemens proportional actuator with MODBUS.

**NM24A** Belimo On/Off actuator.

**NM230A** Belimo On/Off actuator.

**NM24A-SR** Belimo 24 Vac proportional actuator.

**NM230A-SR** Belimo 230 Vac proportional actuator.

**NM24A-MOD** Belimo proportional actuator with MODBUS.

**AX6-ACTIF** Synchronously adjustable blade diffuser that is autonomously thermally adjustable by means of a thermodynamic piston.

AX6-ACTIF series swirl diffusers are designed to be applied in air conditioning, ventilation and heating in premises with varying heights in excess of 4 metres and a temperature differential of up to 15°C.

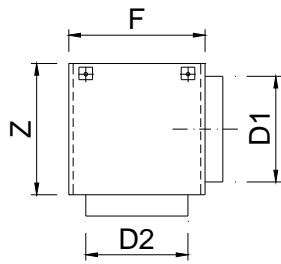
The diffusion of the air can be varied by adjusting the supply air angle of their blades, changing from horizontal projection to vertical projection in accordance with the supply air temperature, reducing stratification.

**AX6-.../MOD...** Diffuser specially designed for modular ceilings.

**MATERIAL**

Diffuser with a nozzle made of spun aluminium and plates made of stamped aluminium. The transmission capsule is made of aluminium and the pinions and gears are made of ABS plastic.

**PLX6**



|     | D2  | F   | Z   | D1  |
|-----|-----|-----|-----|-----|
| 250 | 243 | 320 | 308 | 248 |
| 315 | 308 | 385 | 373 | 313 |
| 400 | 396 | 500 | 450 | 313 |
| 500 | 492 | 600 | 500 | 448 |
| 630 | 622 | 730 | 558 | 498 |

**ACCESSORIES**

**PLX6** Plenum with a lateral connection. It has supports for the suspension from the ceiling. Made of galvanized steel.

**.../M/** Plenum for AX6-MO. It has a door for the inspection of the actuator.

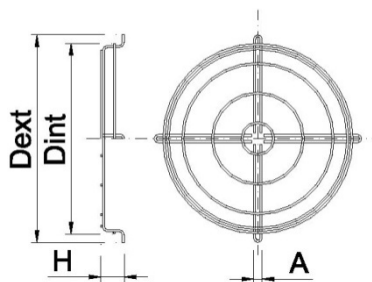
**.../S/** Plenum with an upper connection.

**.../AIS/** Plenum thermo acoustically insulated by means of foam with a coefficient of thermal conductivity of 0,04 w/mk. The said foam meets the fire reaction standards:

UNE 23-727 M2  
NFP 92-501 M2  
DIN 4102 M2

**CH6** Protection grille suitable for sport installations.

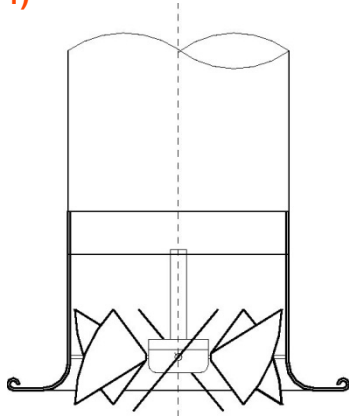
**CH6**



|     | Dext | Dint | H  | A  |
|-----|------|------|----|----|
| 250 | 350  | 300  | 40 | 14 |
| 315 | 450  | 400  | 40 | 14 |
| 400 | 550  | 500  | 50 | 17 |
| 500 | 655  | 600  | 80 | 17 |
| 630 | 860  | 790  | 90 | 20 |

## FIXING SYSTEMS

1)



1) Connection into a circular metallic duct by means of rivets.

2) Connection into the plenum box by means of rivets to hang the whole from the ceiling.

## FINISHES

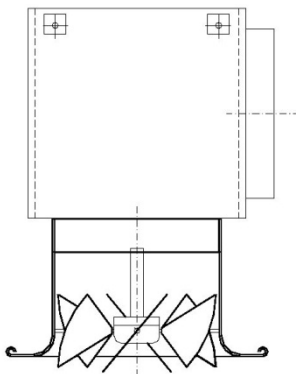
**M9006** Lacquer in metallic grey colour, similar to RAL 9006.

**R9010** Lacquer in white colour RAL 9010.

**M9016** Lacquer in white colour similar to RAL 9016.

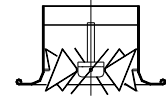
**RAL...** Lacquer in other colours (RAL specifications).

2)



## SPECIFICATION TEXT

Supply and mounting of circular swirl diffuser with manually adjustable blades series **AX6-MA+PLX6 M9016 dim. 250** constructed from aluminium paint in white **M9016**. With lateral circular connection plenum box **PLX6**. Manufacturer **MADEL**.



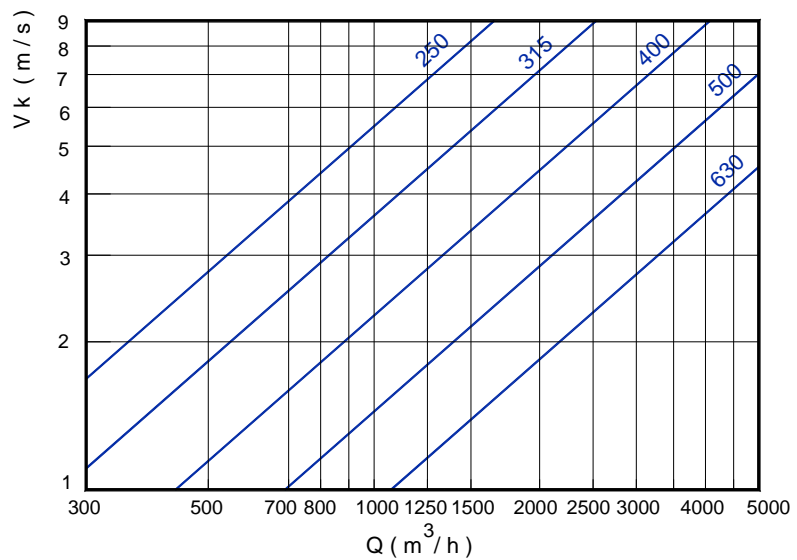
RECOMMENDED VELOCITY.

| AX6 | Vmin<br>m/s | Vmax<br>m/s |
|-----|-------------|-------------|
| 250 | 3           | 5,6         |
| 315 | 3           | 4.6         |
| 400 | 3           | 4.9         |
| 500 | 3           | 4.2         |
| 630 | 3           | 4.5         |

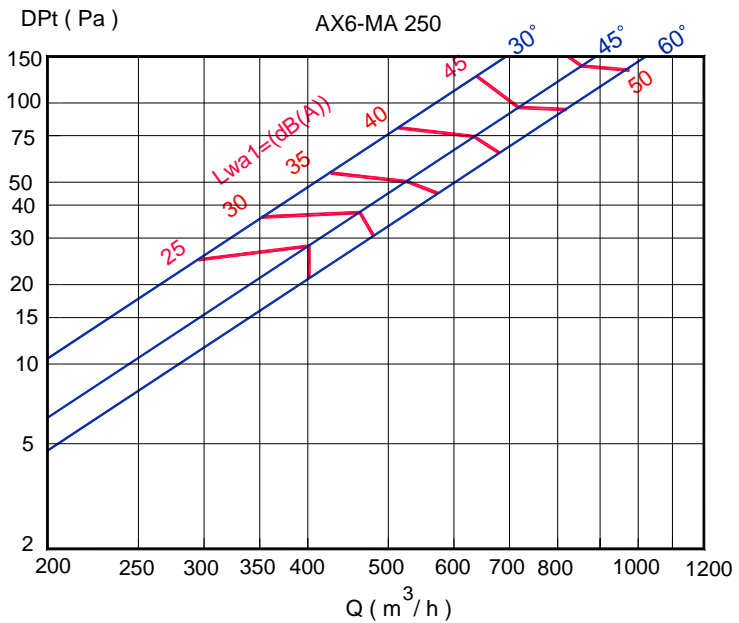
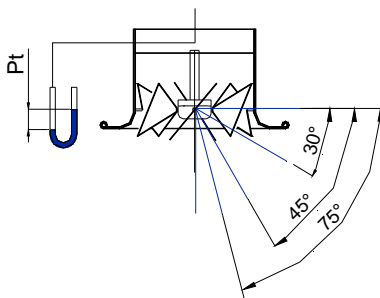
NECK AREA m<sup>2</sup>.

| AX6 | A k<br>m <sup>2</sup> | Qmin<br>m <sup>3</sup> /h | Qmax<br>m <sup>3</sup> /h |
|-----|-----------------------|---------------------------|---------------------------|
| 250 | 0.049                 | 529                       | 985                       |
| 315 | 0.0779                | 853                       | 1285                      |
| 400 | 0.125                 | 1360                      | 2200                      |
| 500 | 0.196                 | 2000                      | 3000                      |
| 630 | 0.312                 | 3369                      | 5005                      |

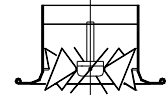
NECK VELOCITY.



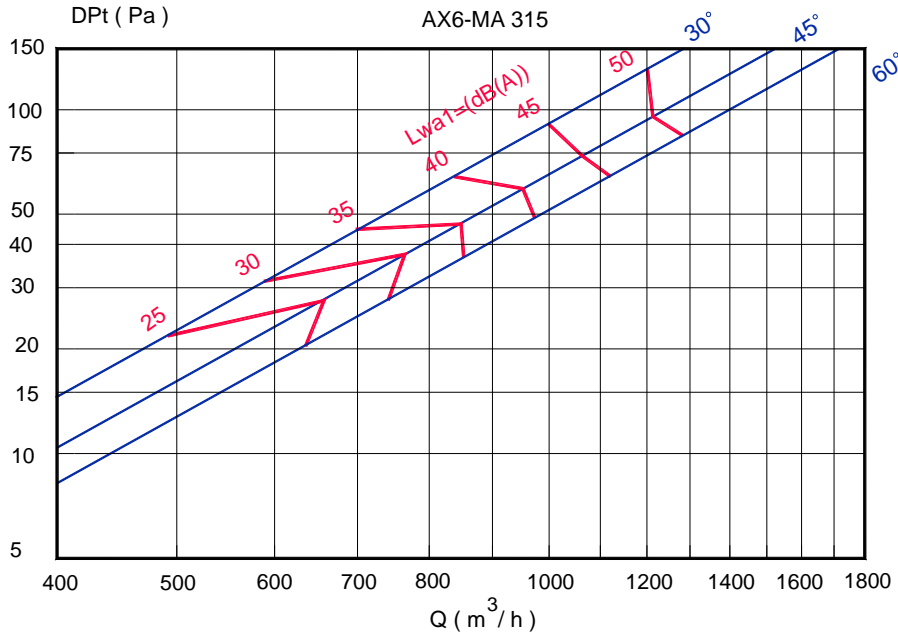
PRESSURE LOSS AND SOUND POWER LEVEL.



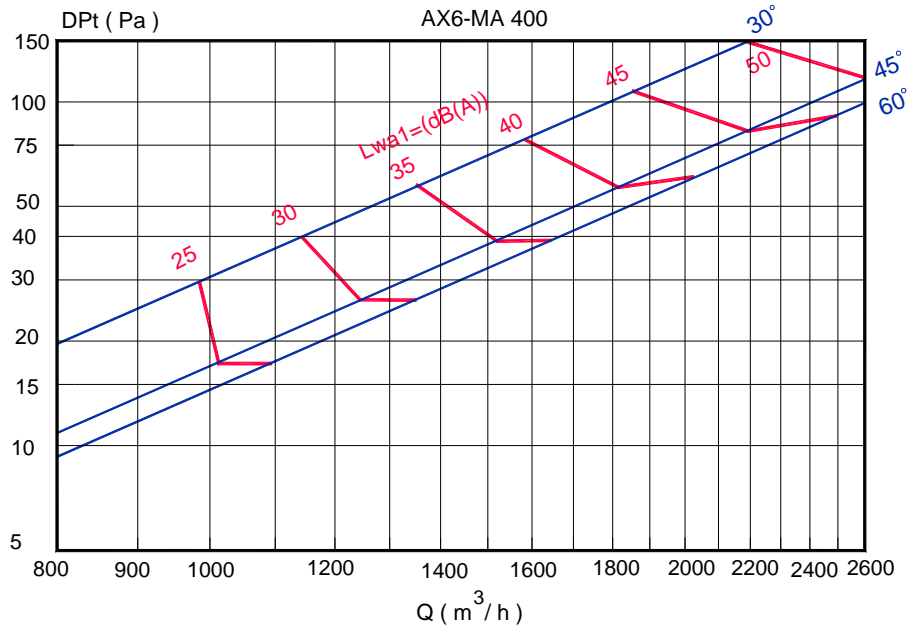
Note: In MadelMedia Octava band centre frequency in Hz.



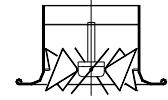
PRESSURE LOSS AND SOUND POWER LEVEL.



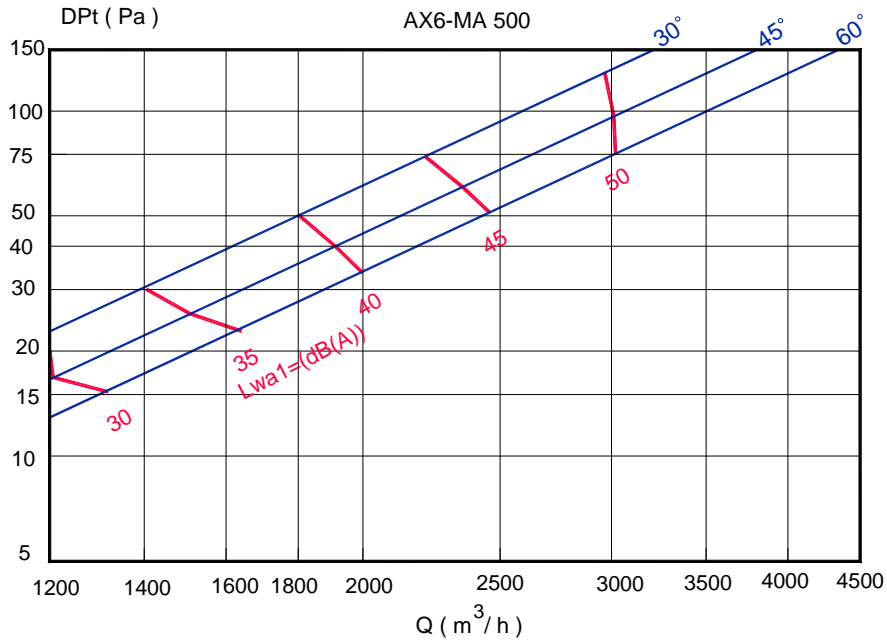
PRESSURE LOSS AND SOUND POWER LEVEL.



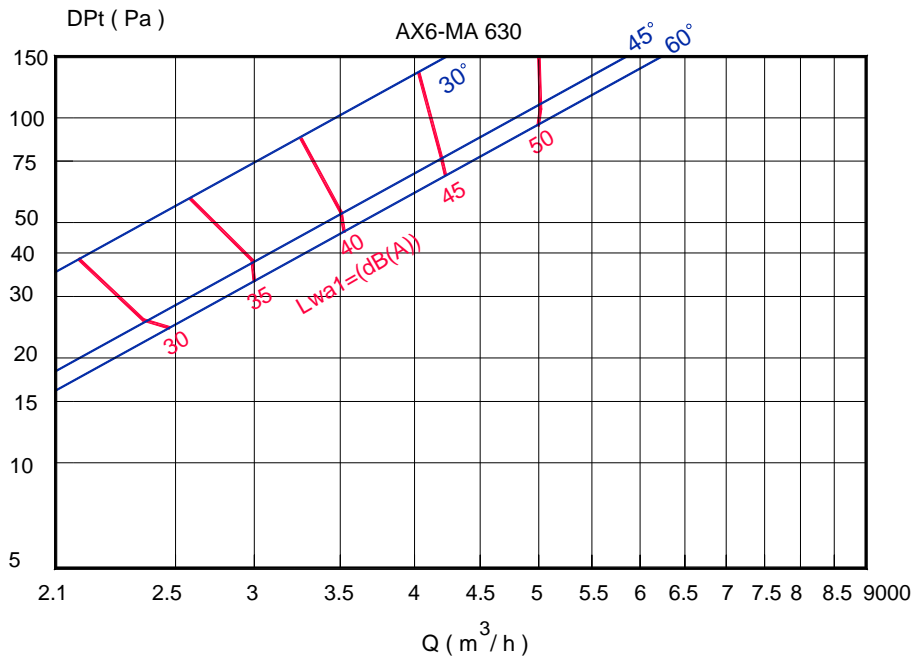
Note: In MadelMedia Octava band centre frequency in Hz.



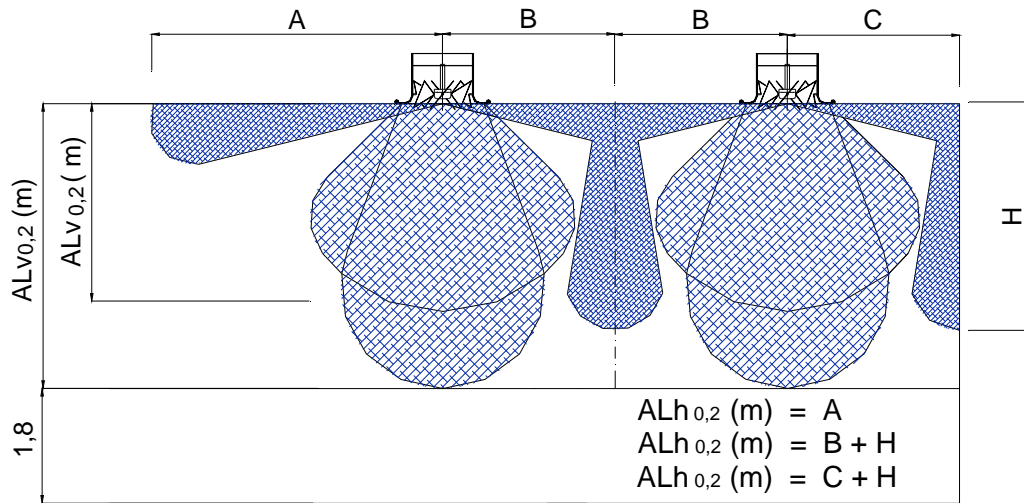
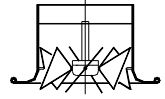
PRESSURE LOSS AND SOUND POWER LEVEL.



PRESSURE LOSS AND SOUND POWER LEVEL.

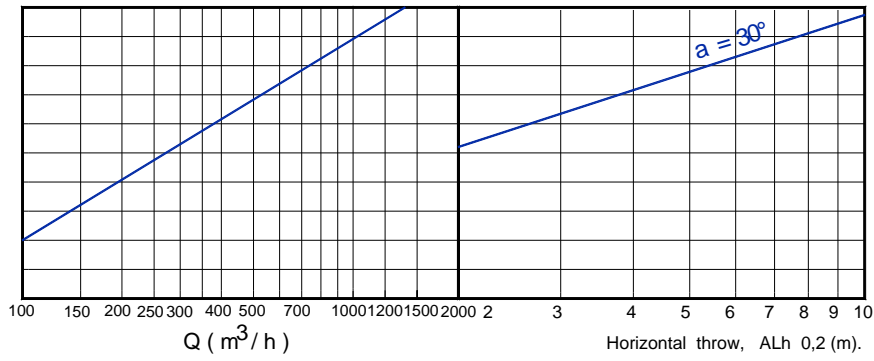


Note: In MadelMedia Octava band centre frequency in Hz.



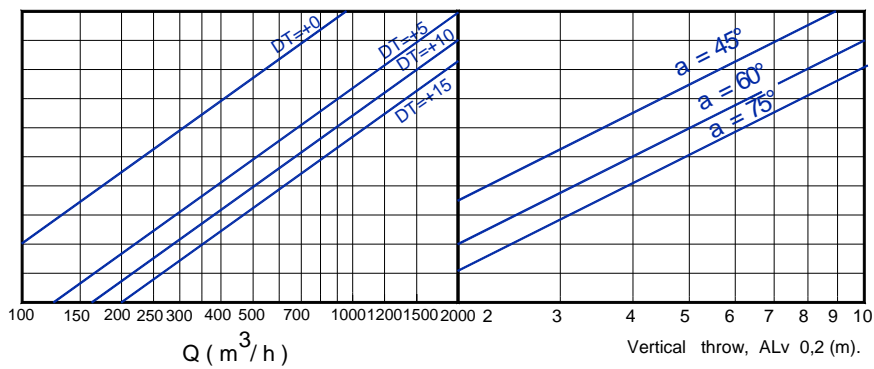
ISOTHERM TRHOW.

AX6 250

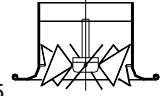


MAXIMUM VERTICAL DEPTH IN HEATING.

AX6 250

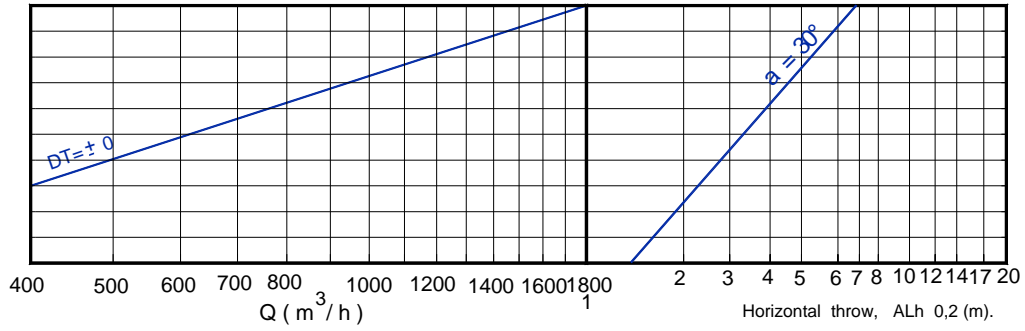






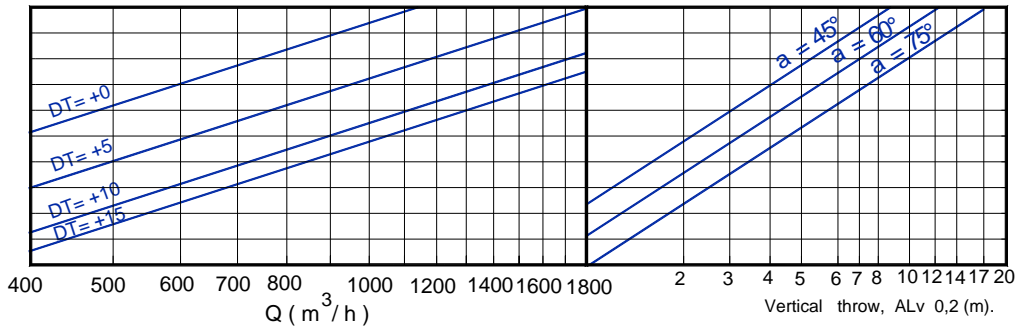
ISOTHERM TRHOW.

AX6 315



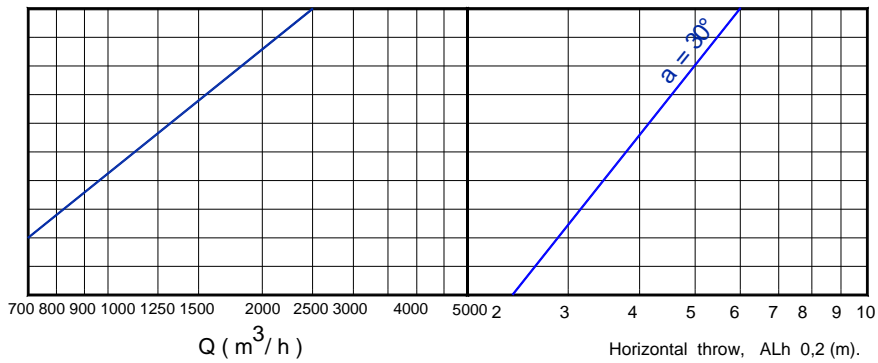
MAXIMUM VERTICAL DEPTH IN HEATING.

AX6 315



ISOTHERM TRHOW.

AX6 400



MAXIMUM VERTICAL DEPTH IN HEATING.

DCG 400

