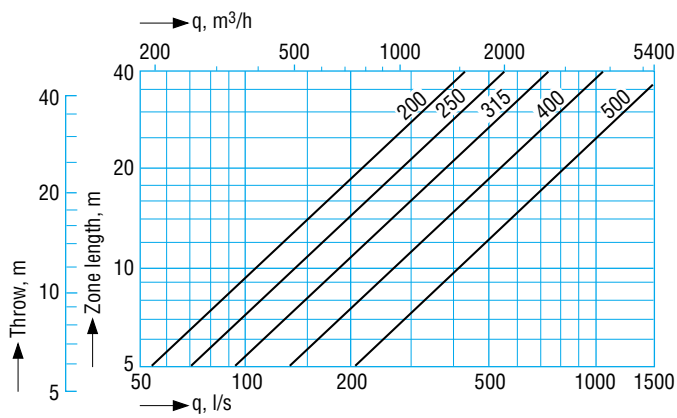


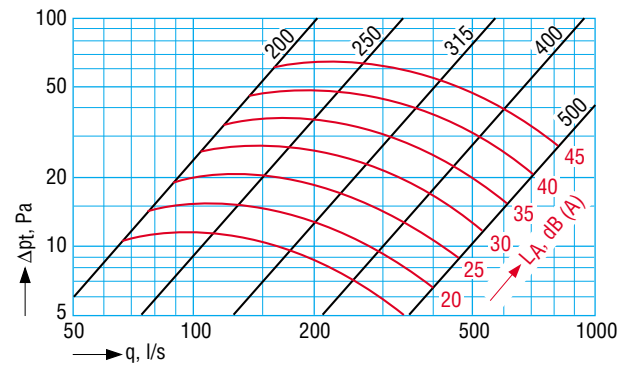
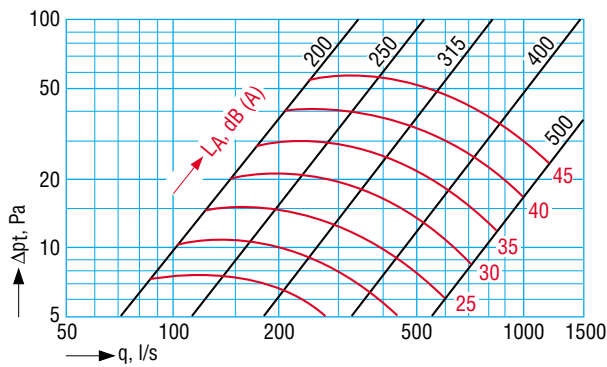
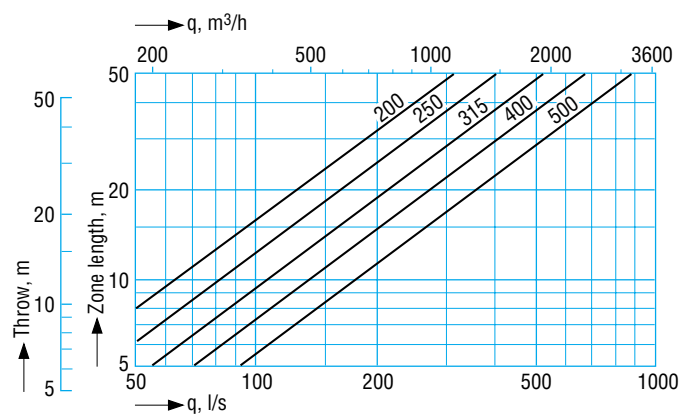
Air diffuser KHD is suitable for use as a supply air terminal device for large and high areas, such as industrial buildings and sports halls. KHD is manufactured in a range of five sizes.

It is mounted in a duct for a horizontal or vertical air direction. The jet of air can be set from a narrow to a wide diffusion pattern.

BROAD DIFFUSION PATTERN



NARROW DIFFUSION PATTERN



SPREAD PATTERN

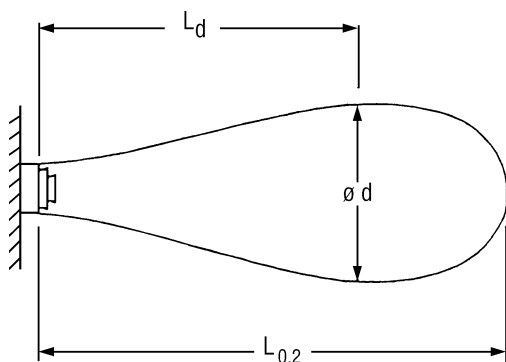
The throws shown in the diagrams apply to isothermal supply air for free installation. Throws with a terminal velocity of 0.3 m/s or 0.4 m/s are as follows:

$$L_{0,3} \approx 0,67 \times L_{0,2}$$

$$L_{0,4} \approx 0,50 \times L_{0,2}$$

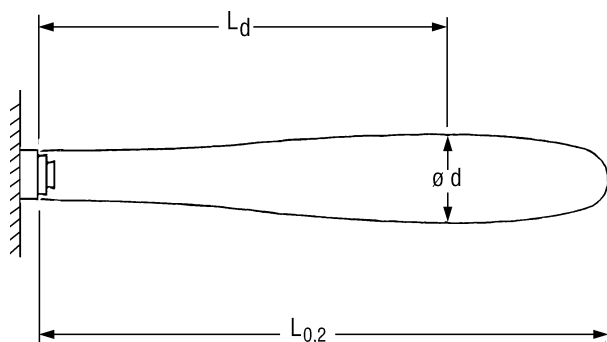
The maximum deviation of the jet from the basic position is $\pm 20^\circ\text{C}$ for a narrow spread and $\pm 15^\circ\text{C}$ for a broad spread.

With a parallel diffuser fitted, the throws are increased by a factor of 1.0–1.4 if the distance between the diffusers is less than the diameter d of the jet.



$$d = 0,4 \times L_{0,2}$$

$$L_d = 0,7 \times L_{0,2}$$



$$d = 0,14 \times L_{0,2}$$

$$L_d = 0,7 \times L_{0,2}$$

SOUND POWER LEVEL

Broad diffusion pattern

SIZE	CORRECTION OF SOUND LEVEL IN dB AT						
	125	250	500	1000	2000	4000	8000Hz
200	3	2	-1	0	-3	-12	-29
250	1	2	-1	1	-4	-12	-26
315	3	1	-1	2	-6	-15	-28
400	7	1	1	1	-8	-17	-29
500	12	2	3	-2	-10	-17	-31

Narrow diffusion pattern

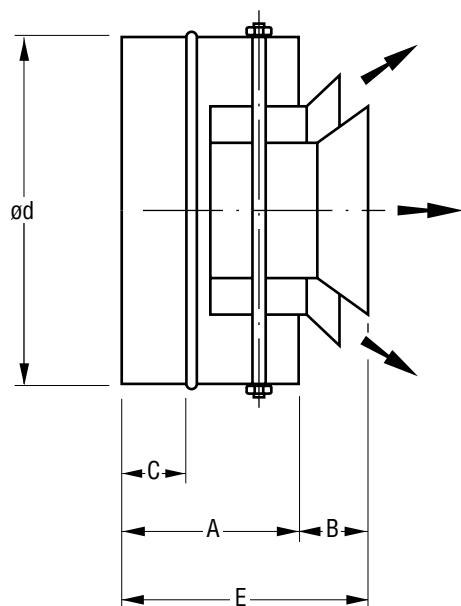
SIZE	CORRECTION OF SOUND LEVEL IN dB AT						
	125	250	500	1000	2000	4000	8000Hz
200	2	-1	-2	1	-3	-17	-32
250	0	-1	-3	2	-5	-19	-32
315	2	-1	-2	3	-10	-20	-31
400	4	-1	2	2	-10	-18	-32
500	8	-1	3	1	-13	-22	-34

SOUND ATTENUATION

SIZE	SOUND ATTENUATION IN dB AT						
	125	250	500	1000	2000	4000	8000Hz
200	12	7	3	1	-	-	-
250	10	6	2	-	-	-	-
315	9	4	2	-	-	-	-
400	7	3	1	-	-	-	-
500	6	2	-	-	-	-	-

DIMENSIONS AND WEIGHTS

Air diffuser KHD



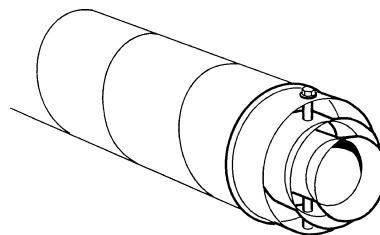
Size	ød	A	B	C	E	W
200	199	100	45	25	145	1,1
250	249	120	55	30	175	1,4
315	314	120	70	30	190	2,0
400	399	140	95	30	235	2,9
500	499	245	115	40	360	6,6

W = Weight, kg

ADJUSTMENT

If necessary, the measurement damper should be located $\geq 5D$ ahead of the device. A suitable measurement damper is the IRIS damper or BDEQ-2.

INSTALLATION



SPECIFICATION

KHD is suitable for use as a supply air terminal device for large and high areas, such as industrial buildings and sports halls. KHD is manufactured in a range of five sizes, in diameters from 250 to 500.

It is mounted in a duct for a horizontal or vertical air direction. The jet of air can be set from a narrow to a wide diffusion pattern. KHD is made from sheet steel with a white paint finish. Its previous designation was UKD.

DESCRIPTIVE TEXT

Air diffuser KHD, round air canon type, e.g. in size 315.

ORDERING KEY

Air diffuser KHD-aaa

Size _____

Connection, mm

200, 250, 315, 400, 500