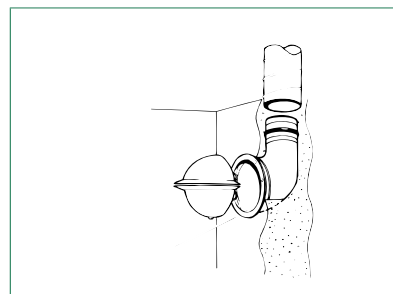


CTVK Supply air diffuser



The CTVK is a very quiet supply air diffuser designed for wall mounting. The diffuser is suitable for use in small premises, such as offices, houses and hotel rooms. The air discharged from the valve is mixed thoroughly with the room air thus providing a draught-free air supply. The air flow is adjustable.

The design of the CTVK minimizes the risk of dust deposits forming on the wall surface. The valve is easy to install and easy to keep clean since it has large, smooth surfaces.

Quick Selection

fully open slot

Diffuser	Air flow range l/s at sound level		
	25 dB	30 dB	35 dB
CTVK-100	14	-	-

- = outside working area

Specifications

- Adjustable flow
- Easy to install
- Easy to clean

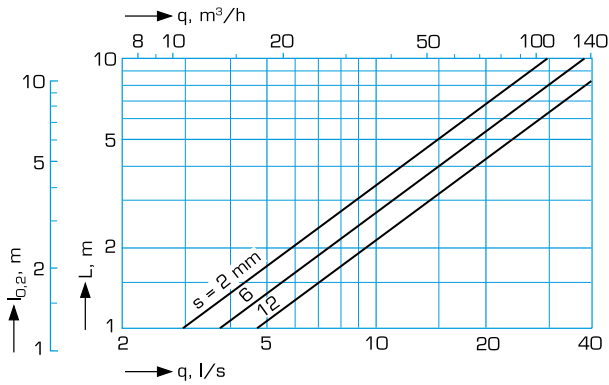
Product code example

Supply air diffuser CTVK-100

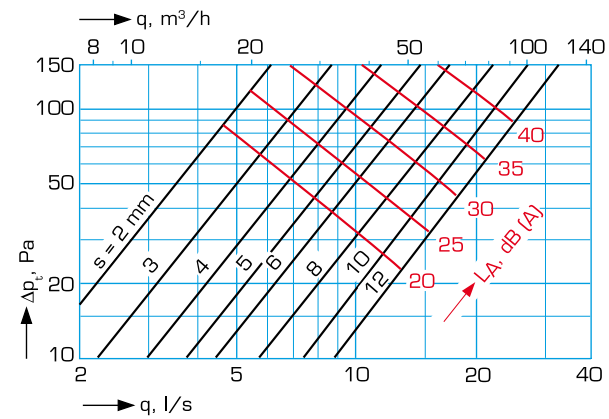
Mounting ring KGEZ-01-100

Selection diagrams

Throw, zone length



Air flow



Sound power level

CTVK	Correction of sound level in dB at octave bands, middle frequency, Hz							
	63	125	250	500	1000	2000	4000	8000
100	2	-3	-3	0	0	-3	-6	-10

Sound power levels by octave bands are obtained by adding to total sound pressure level L_{p10A} , dB(A) the corrections K_{oct} presented in the table according to the following formula:

$$L_{Woct} = L_{p10A} + K_{oct}$$

Correction K_{oct} is average value in range of use of CTVK unit.

Note! In installations where CTVK is mounted together with KGEZ-43 angle duct, the sound power level will increase by 3 dB(A).

Sound attenuation

CTVK	Sound attenuation in dB at octave bands, middle frequency, Hz							
	63	125	250	500	1000	2000	4000	8000
100	24	20	18	12	10	10	10	10

The average sound attenuation ΔL from duct to room including the end reflection of the connecting duct in wall installation, is obtained in the table above.

Air stream diffusion

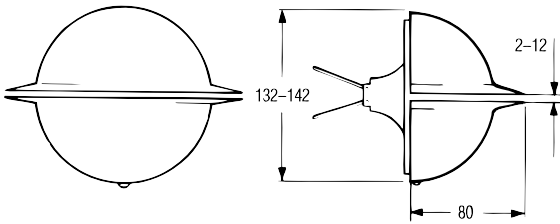
$$b_v = 0,1 \times l_{0,2}$$

$$b_h = 0,6 \times l_{0,2}$$

where $l_{0,2} = 1,2 \times$ zone length

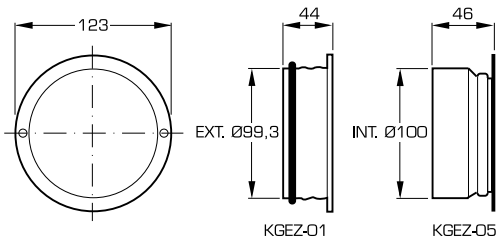
Dimensions and weights

Supply air valve CTVK-100



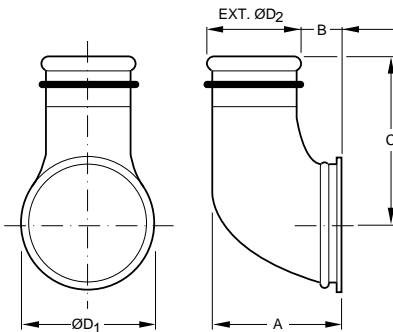
Weight: 0.4 kg

Mounting ring KGEZ-01-100, fit-in connection/ Mounting ring KGEZ-05-100, fit-on connection



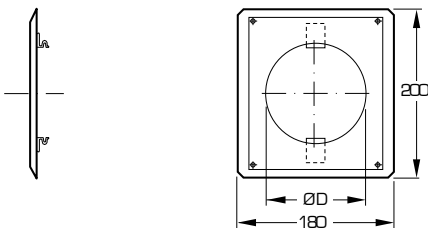
Weight: 0.1 kg

Angle duct KGEZ-43



Size	A [mm]	B [mm]	C [mm]	D1 [mm]	D2 [mm]	Weight [kg]
100 - 080	120	39	148	125	79.3	0.4
100 - 100	140	39	98	125	99.3	0.4

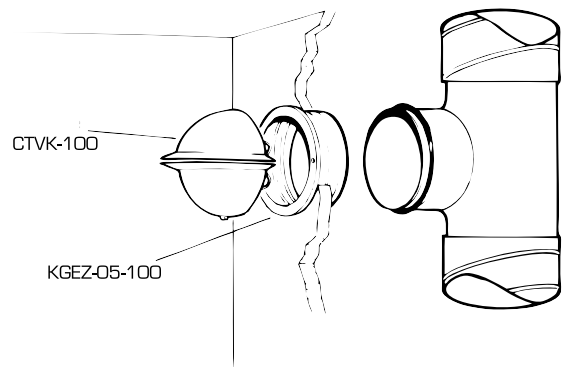
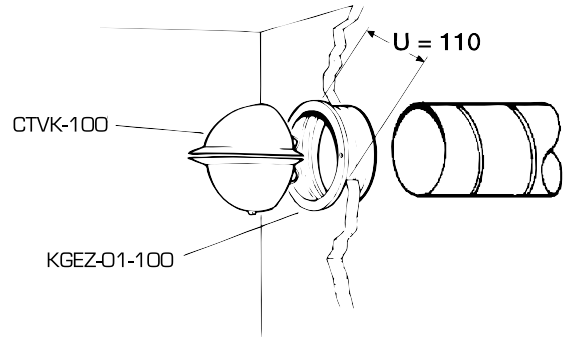
Mounting frame KGEZ-12-100



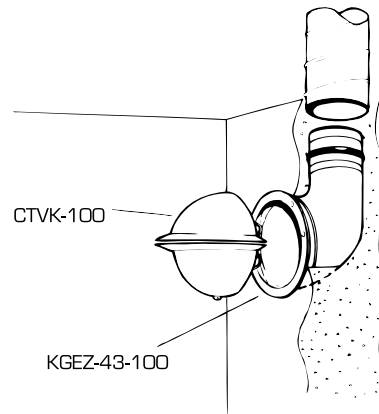
Weight: 0.2 kg

Installation

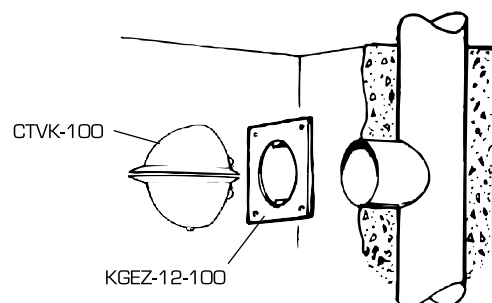
Supply air valve connected to a mounting ring



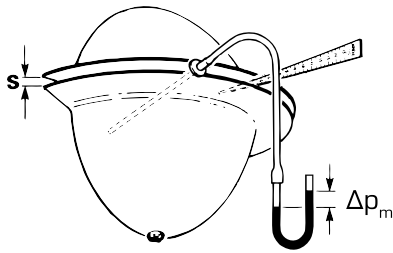
Supply air valve connected to an angle duct



Supply air valve connected to a mounting frame



Adjustment



$$q = k \sqrt{\Delta p_m}$$

(l/s) (Pa)

Opening	2	3	4	5	6	8	10	12
k	0.48	0.71	0.94	1.2	1.4	1.8	2.2	2.7

General

Application and function

The CTVK is a very quiet supply air diffuser designed for wall mounting. The diffuser is suitable for use in small premises, such as offices, houses and hotel rooms.

The air discharged from the diffuser is mixed thoroughly with the room air thus providing a draught free air supply. The air flow is adjustable.

The design of the CTVK minimizes the risk of dust deposits forming on the wall surface. The diffuser is easy to install and easy to keep clean since it has large, smooth surfaces.

Material and surface finish

Air diffuser CTVK is made of hot-dip galvanized steel sheet.

The diffusers are powder coated for a high surface finish and good impact and scratch resistance. Standard colour white RAL 9010. Other colours on request.

Instructions

Directions for installation, adjustment and care are set out in detail in our technical instruction which accompanies each product. The instruction is also accessible on www.flaktgroup.com.

Technical data and dimensioning

For complete dimensioning details, please see FläktGroup product selection program. Contact our nearest sales office for further information.

Packaging

The air diffuser is supplied as standard in a cardboard box containing 20 pieces. Weight: 8 kg, volume: 0,04 m³

Descriptive text

Supply air diffuser CTVK manufactured by FläktGroup, with mounting ring or angle duct.

Product code

Supply air valve
Supply air valve, special colour

Size (aaa)
100

CTVK-aaa
CTVK-aaa-E

Accessories and spare parts

Accessories

Mounting ring - insertion connection KGEZ-01-bbb

Mounting ring - fit-on connection KGEZ-05-bbb

Size (bbb)
100

Angle duct for CTVK-100 KGEZ-43-bbb-ccc

Size (bbb-ccc)
Connection diameter in mm
to valve – to duct:
100-080, 100-100

Spare parts

Seal COGZ-100-6

Spring COSZ-100-1