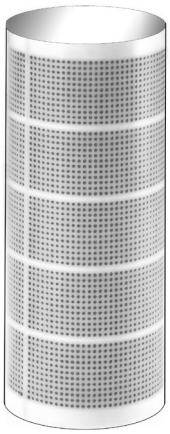
DISPLATEK ADU01

Classification:

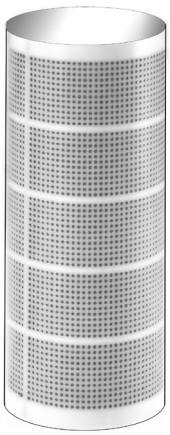
DISPLATEK ADU01 is a circular air distribution unit for displacement ventilation. The armature has a circular duct connection with sleeve dimension.

The unit is fitted with diffusion nozzles which make it possible to change the geometry of the near zone.

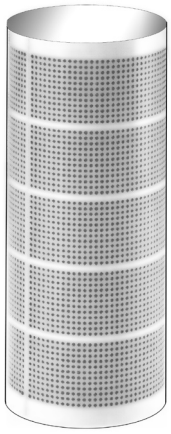
The unit is maintainance free and there is no risk of clogging.



DISPLATEK ADU01



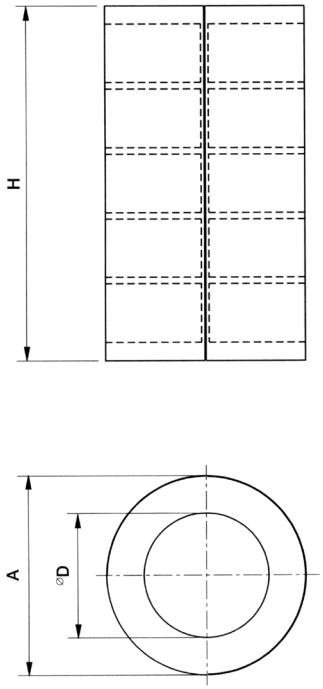
DISPLATEK ADU01



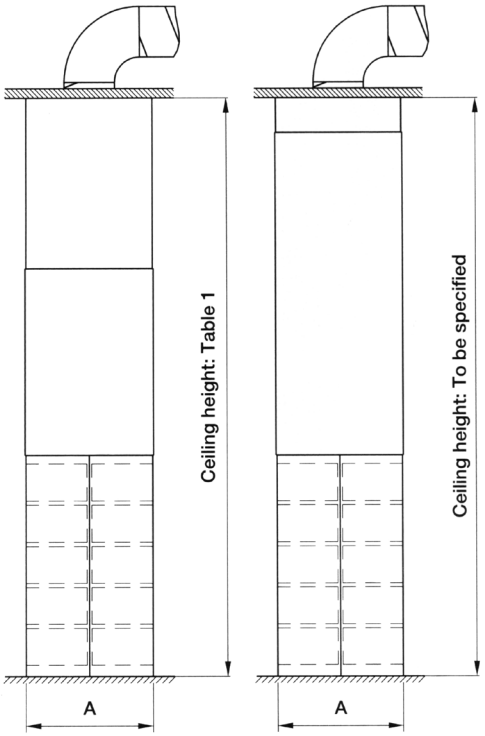
DISPLATEK ADU01

DISPLATEK ADU01
Technical Specification

Dimensions

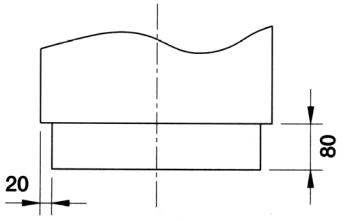


Accessories

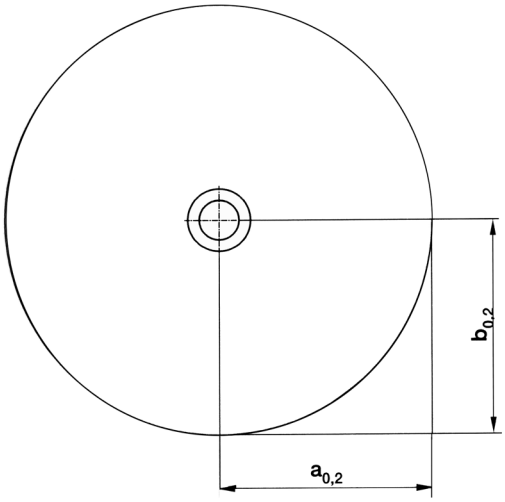


Dimensions				
Size	**A**	**D**	**H**	**Weight kg**
1207	250	125	710	5.0
1607	300	160	710	7.5
2010	360	200	970	13
2510	400	250	970	18
3115	520	315	1490	35
4020	630	400	2010	58
5020	730	500	2010	78
6320	830	630	2010	106

Dimensions				
Size	**A**	**Max. Ceiling Height**	**Min. Ceiling Height**	**Weight kg/m**
1207	250	3300	2400	4.7
1607	300	3300	2400	6.0
2010	330	3300	2400	7.5
2510	400	3300	2400	10
3115	520	3200	2400	13
4020	630	3200	2700	16
5020	730	3200	2700	20
6320	830	3200	2700	25



DISPLATEK ADU01
Technical Specification



Sound Power Level							
K OK	Mean Frequency HZ						
Size	125	250	500	1000	2000	4000	8000
1207	5	4	3	-1	-7	-18	-19
1607	3	4	4	-2	-9	-16	-19
2010	5	5	3	-1	-8	-17	-18
2510	5	7	4	-3	-11	-14	-9
3115	7	6	2	-4	-6	-11	-7
4020	7	6	32	-1	-10	-15	-10
5020	7	6	4	-2	-12	-15	-13
6320	7	6	4	-2	-12	-16	-13

a0,2 and B0,2 are the horizontal distances from the centre of the unit to where the maximum velocity has decreased to 0.2 m/s.

Sound Attenuation							
Mean Frequency HZ							
Size	125	250	500	1000	2000	4000	8000
1207	14	5	3	2	1	2	1
1607	12	4	1	2	1	2	2
2010	8	4	2	3	2	2	2
2510	8	5	2	1	1	1	1
3115	8	3	2	1	1	2	2
4020	6	1	1	1	1	1	1
5020	4	1	1	1	1	1	1
6320	3	1	1	0	0	0	1

Sound LevelA' dB(A)

The sound level is specified at room damping of 4 dB, corresponding to the damping in a room with a room constant of 10 m2 SABINE measured in the reverberation field.

Example of Calculation:

Air Flow: 500l/s (1800m3/h)

Size 4020 lies within the recommended field of application.

Near zone at -3K: a0,2 = 3.2m

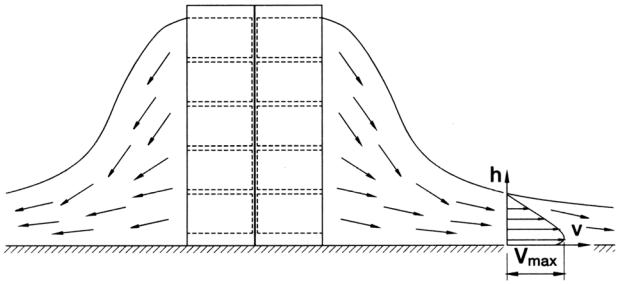
b0,2 = 5.4m

Pressure Loss: Pt = 9Pa

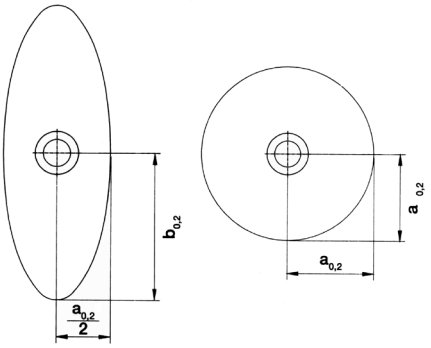
Sound Level: LA = 28dB(A)

The distance to where the maximum velocity is 0.30 is:
a = 0.7 x 3.2 = 2.2m
b = 0.7 x 5.4 = 3.8 m

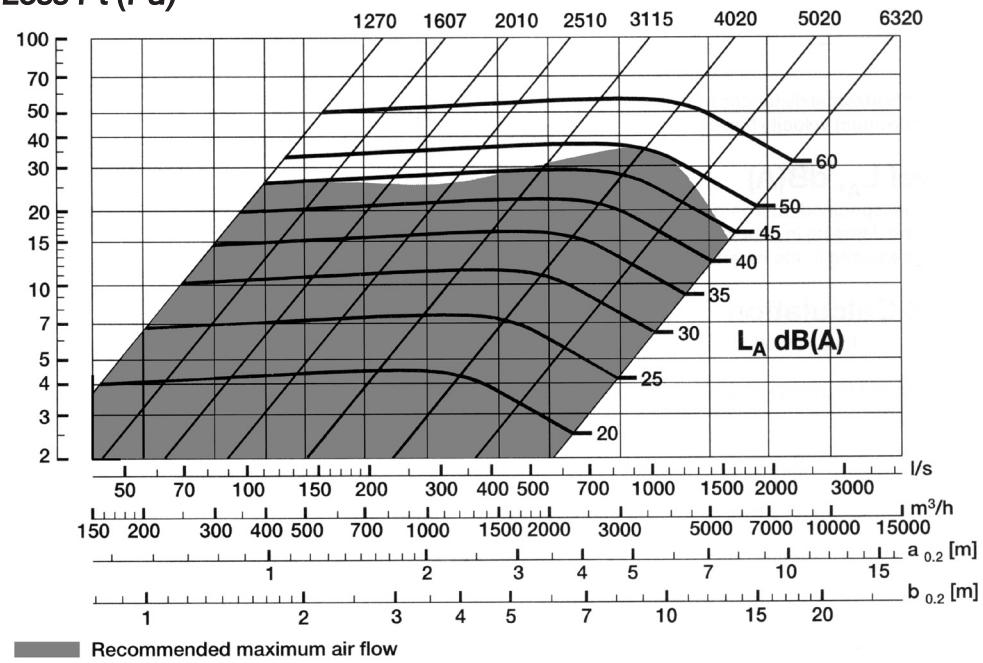
DISPLATEK ADU01
Technical Specification



Oval Diffusion *Circular Diffusion (factory setting)*



Pressure Loss Pt (Pa)



Correction Of Near Zone (a0,2' b0,2)										
Undertemperature Ti - Tr	**-3 K**					**-6 K**				
Maximum Velocity (m/s)	0,20	0,25	0,30	0,35	0,40	0,20	0,25	0,30	0,35	0,40
Mean Velocity (m/s)	0,10	0,12	0,15	0,17	0,20	0,10	0,12	0,15	0,17	0,20
Correction Factor	1,0	0,8	0,7	0,6	0,5	1,2	1,0	0,8	0,7	0,6