JDK

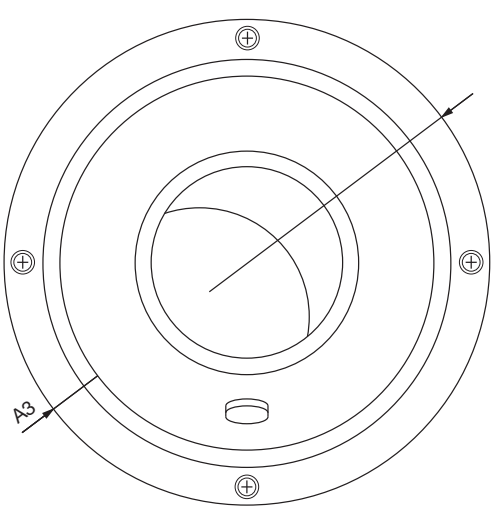
- JET nozzles
- Circular
- Aluminium
- Anodized natural finish

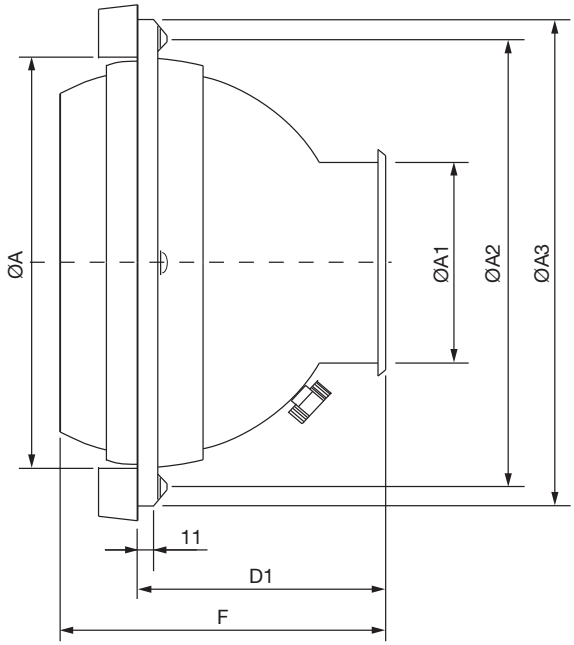
Jet diffusers type JDK

Spherical diffusers

Application

- The **JDK** diffusers allow long throws with an acceptable noise level. The diffuser releases an occasional air jet with a throw of over 30 metres. They can be used for spot cooling and are especially appropriate for sport centres, industrial warehouses, clean rooms, recording studios, discotheques and large premises, as well as any area requiring precisely targeted air jets. The configuration allows the diffuser to be swiveled in any direction up to a maximum of ±35° in the horizontal or vertical direction





Dimensions

	ØA [mm]	ØA1 [mm]	ØA2 [mm]	ØA3 [mm]	D1 [mm]	F [mm]	R [mm]
JDK 3	80	40	107	133	44	50	3
JDK 5	142	65	162	184	91	115	4
JDK 8	209	100	232	253	129	169	4
JDK 12	318	165	336	358	201	265	6
JDK 16	425	230	444	474	249	353	8
JDK 20	500	300	526	554	296	421	8

Selection

Q [m³/h]	Type Aeff [m²]	JDK3 0.0013	JDK5 0.0033	JDK8 0.0079	JDK12 0.0214	JDK16 0.0415	JDK20 0.0707
60	Veff [m/s]	12.8	5.1	2.1			
	X5 / X3 [m]	4.8 / 8.0	3.0 / 5.0	2.0 / 3.0			
	Pt [Pa]	98.6	15.3	2.7			
	Lw [dB]	28	3				
100	Veff [m/s]	21.4	8.4	3.5			
	X5 / X3 [m]	8.0 / 13.4	5.0 / 8.4	3.3 / 5.4			
	Pt [Pa]	273.9	42.5	7.4			
	Lw [dB]	43	19				
150	Veff [m/s]		12.6	5.3	1.9		
	X5 / X3 [m]		7.5 / 12.6	4.9 / 8.1	3.0 / 4.9		
	Pt [Pa]		95.7	16.7	2.3		
	Lw [dB]		31	9			
200	Veff [m/s]		16.8	7.0	2.6	1.3	
	X5 / X3 [m]		10.1 / 16.8	6.5 / 10.8	3.9 / 6.6	2.8 / 4.7	
	Pt [Pa]		170.1	29.7	4.0	1.1	
	Lw [dB]		40	17			
300	Veff [m/s]		25.3	10.5	3.9	2.0	
	X5 / X3 [m]		15.1 / 25.1	9.8 / 16.3	5.9 / 9.9	4.3 / 7.1	
	Pt [Pa]		382.6	66.8	9.1	2.4	
	Lw [dB]		52	30	4		
400	Veff [m/s]			14.1	5.2	2.7	1.6
	X5 / X3 [m]			13.0 / 21.7	7.9 / 13.2	5.7 / 9.5	4.3 / 7.2
	Pt [Pa]			118.7	16.2	4.3	1.5
	Lw [dB]			38	12		
500	Veff [m/s]			17.6	6.5	3.3	2.0
	X5 / X3 [m]			16.3 / 27.1	9.9 / 16.5	7.1 / 11.8	5.4 / 9.1
	Pt [Pa]			185.5	25.3	6.7	2.3
	Lw [dB]			45	19		
600	Veff [m/s]			21.1	7.8	4.0	2.4
	X5 / X3 [m]			19.5 / 32.5	11.8 / 19.7	8.5 / 14.2	6.5 / 10.9
	Pt [Pa]			267.1	36.4	9.7	3.3
	Lw [dB]			51	25	7	
800	Veff [m/s]				10.4	5.4	3.1
	X5 / X3 [m]				15.8 / 26.3	11.3 / 18.9	8.7 / 14.5
	Pt [Pa]				64.7	17.2	5.9
	Lw [dB]				33	16	
1000	Veff [m/s]				13.0	6.7	3.9
	X5 / X3 [m]				19.7 / 32.9	14.2 / 23.6	10.9 / 18.1
	Pt [Pa]				101.1	26.9	9.3
	Lw [dB]				40	23	9
1500	Veff [m/s]				19.5	10.0	5.9
	X5 / X3 [m]				29.6 / 49.4	21.3 / 35.5	16.3 / 27.2
	Pt [Pa]				227.5	60.5	20.8
	Lw [dB]				53	35	21
2000	Veff [m/s]					13.4	7.9
	X5 / X3 [m]					28.4 / 47.3	21.7 / 36.2
	Pt [Pa]					107.5	37.0
	Lw [dB]					44	30
2500	Veff [m/s]					16.7	9.8
	X5 / X3 [m]					35.5 / 59.1	27.2 / 45.3
	Pt [Pa]					168.0	57.9
	Lw [dB]					51	37
3000	Veff [m/s]					20.1	11.8
	X5 / X3 [m]					42.5 / 70.9	32.6 / 54.3
	Pt [Pa]					241.9	83.4
	Lw [dB]					56	42

Symbols and specifications

- Q: Air flow
- Vk: Effective velocity
- Ak: Effective area
- Δ Pt: Total pressure drop
- Lwa: Sound Power
- X0.3 - X0.5 - X1.0: Throw for a terminal air velocity of 0.3, 0.5 and 1.0m/s, respectively