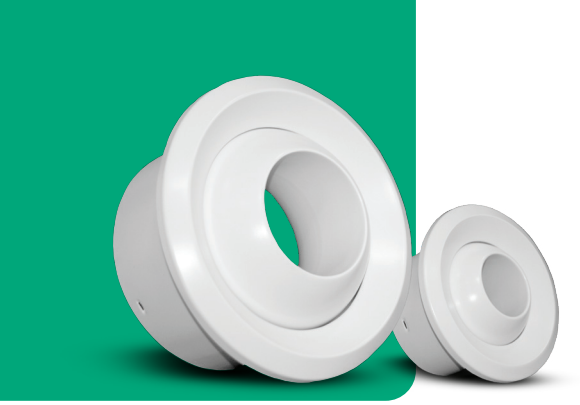


Jet nozzle diffuser
JN-S

Adjustable angle of inclination

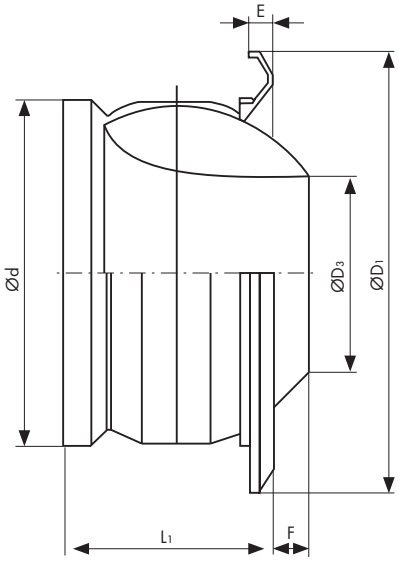
Made of aluminium

Powder-coated in white color RAL 9016

Description

Jet nozzle diffusers "JN-S" are used in high, large-size spaces such as theatres, cinemas, industrial halls, shopping centres etc. Low sound pressure level with high volumetric airflow quantity provides a very wide airflow range. For horizontal and vertical air supply.
The ball jet nozzle can be adjusted in any direction every 30° from the centreline; it does not affect airflow resistance or the sound pressure level.
The nozzle and decorative collar are made of aluminium, powder coated, finished in colour RAL 9016.

Technical drawing



Dimensions [mm]

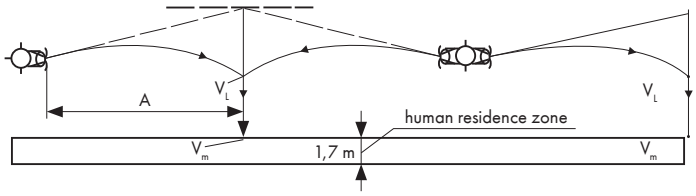
Model	ØD1	Ød	ØD3	E	F	L1
JN-S 125	185	123	64	10	4	89
JN-S 160	216	158	82	11	10	106
JN-S 200	273	198	108	16	14	127
JN-S 250	318	248	136	16	23	159
JN-S 315	380	315	180	25	30	180
JN-S 400	495	400	210	24	47	218
JN-S 500	625	500	255	47	50	270

Characteristics

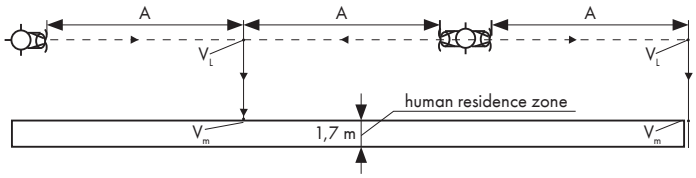
Model	Jet range									Final air speed [m/s]
	10 m			20 m			30 m			
	Air volume [m³/h]	Pressure loss [Pa]	Noise level [db(A)]	Air volume [m³/h]	Pressure loss [Pa]	Noise level [db(A)]	Air volume [m³/h]	Pressure loss [Pa]	Noise level [db(A)]	
JN-S 125	-	-	-	122	71	25	180	136	36	
JN-S 160	82.8	11	<20	165	26	<20	250	98	35	
JN-S 200	104	-	<20	220	29	<20	306	67	27	
JN-S 250	133	-	<20	272	8,3	<20	382	34	22	0,25
JN-S 315	180	-	<20	352	11	<20	540	39	20	
JN-S 400	234	-	<20	468	8	<20	702	13	<20	
JN-S 125	122	71	25	245	265	46	-	-	-	
JN-S 160	165	26	<20	330	113	44	497	200	55	
JN-S 200	220	29	<20	435	123	38	655	218	50	
JN-S 250	274	8,3	<20	548	63	34	825	112	45	0,5
JN-S 315	350	11	<20	682	55	28	1055	104	40	
JN-S 400	460	8	<20	914	32	20	1394	69	33	
JN-S 125	245	265	46	-	-	-	-	-	-	
JN-S 160	330	113	44	-	-	-	-	-	-	
JN-S 200	435	123	38	870	312	-	-	-	-	
JN-S 250	548	63	34	1100	160	53	-	-	-	1,0
JN-S 315	700	57	28	1400	150	48	2100	243	-	
JN-S 400	930	32	20	1860	123	42	2796	265	50	

Air diffusers

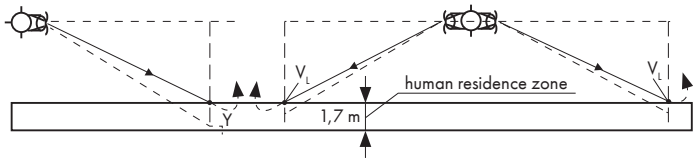
supply with cold air



constant temperature supply



supply with warm air



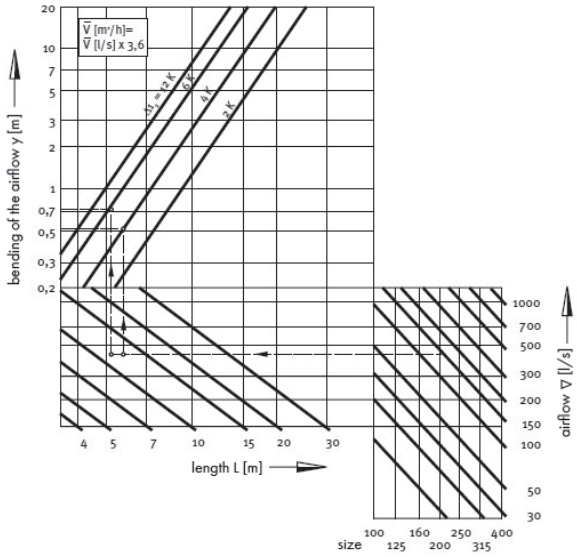
A - horizontal distance from the nozzle to the point where two streams meet

VL - the axial speed at the end of the jet

Vm - average air speed in the residence zone

Y - the deflection of the air stream due to temperature differences, relative to the constant temperature air stream

Bending of the airflow



Δ12 at warm air supply, is positive, and at cold air supply, is negative.

The deflection of the stream Y is directed upwards for a warm supply air and downwards for a cold supply air.