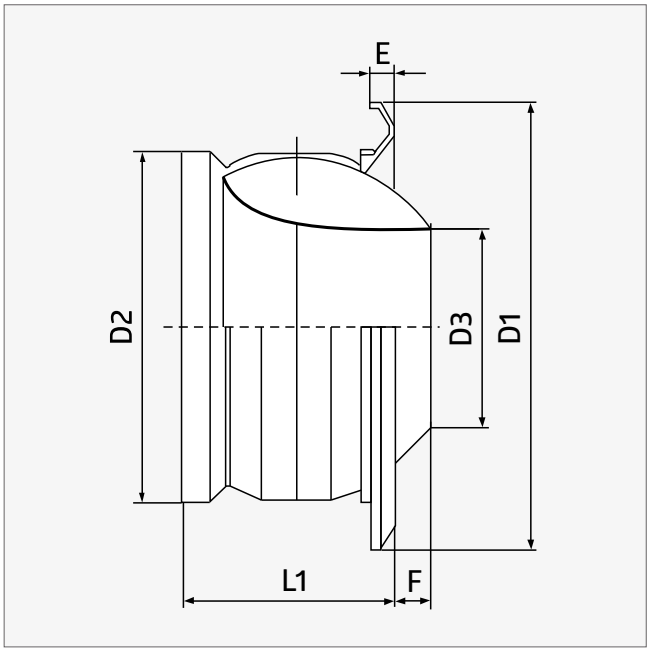
Jet diffuser **JNS**



PRODUCT CHARACTERISTICS:

- application: industrial and public buildings
- range up to 30 m
- low noise level and high efficiency
- adjustable air flow direction
- painted

MATERIAL AND COLOURS:

- aluminum
- galvanized steel
- RAL 9003

APPLICABLE DUCT DIAMETER:

Packaging [pcs]

	D1 [mm]	D2 [mm]	D3 [mm]	E [mm]	F [mm]	L1 [mm]	
JNS 100	139,4	97,4	45,0	15,4	3,5	72,0	4
JNS 125	170,4	123,3	60,2	17,9	8,1	90,8	4
JNS 160	210,0	157,9	80,0	21,0	9,7	110,5	4
JNS 200	264,2	197,5	104,7	23,7	11,2	131,4	4
JNS 250	315,4	247,0	128,1	28,9	17,1	182,5	4
JNS 315	388,0	313,0	163,3	30,4	28,5	200,0	2
JNS 400	495,0	397,0	210,3	35,0	30,7	250,0	1
JNS 500	617,0	496,0	255,9	44,8	50,3	350,0	1

200	250	315	500	630	800	1000
•						
	•					
		•	•	•	•	
			•	•	•	
			•	•	•	
			•	•	•	
				•	•	
					•	•

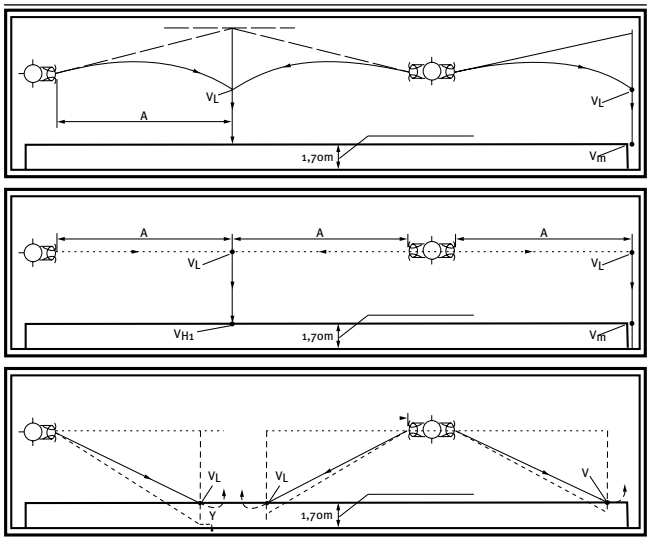
	D1 [mm]	D2 [mm]	D3 [mm]	E [mm]	F [mm]	L1 [mm]	
JNS 100	139,4	97,4	45,0	15,4	3,5	72,0	4
JNS 125	170,4	123,3	60,2	17,9	8,1	90,8	4
JNS 160	210,0	157,9	80,0	21,0	9,7	110,5	4
JNS 200	264,2	197,5	104,7	23,7	11,2	131,4	4
JNS 250	315,4	247,0	128,1	28,9	17,1	182,5	4
JNS 315	388,0	313,0	163,3	30,4	28,5	200,0	2
JNS 400	495,0	397,0	210,3	35,0	30,7	250,0	1
JNS 500	617,0	496,0	255,9	44,8	50,3	350,0	1

200	250	315	500	630	800	1000
•						
	•					
		•	•	•	•	
			•	•	•	
			•	•	•	
			•	•	•	
				•	•	
					•	•

	z = 10 m			z = 20 m			z = 30 m			v_k [m/s]
	V [m³/h]	Ps [Pa]	NC [db(A)]	V [m³/h]	Ps [Pa]	NC [db(A)]	V [m³/h]	Ps [Pa]	NC [db(A)]	
JNS 100	-	-	-	93.6	86	29	140	175	41	0,25
JNS 125	-	-	-	122	71	25	180	136	36	
JNS 160	82.8	11	<20	165	26	<20	250	98	35	
JNS 200	104	-	<20	220	29	<20	306	67	27	
JNS 250	133	-	<20	272	8.3	<20	382	34	22	
JNS 315	180	-	<20	350	11	<20	540	36	20	
JNS 400	234	-	<20	465	8.0	<20	702	13	<20	
JNS 500	275	-	<20	525	6.5	<20	865	8	<20	
JNS 100	93.6	86	29	187	300	50	-	-	-	0,50
JNS 125	122	71	25	245	265	46	-	-	-	
JNS 160	165	26	<20	330	113	44	497	200	55	
JNS 200	220	29	<20	435	123	38	655	218	50	
JNS 250	274	8.3	<20	548	63	34	825	112	45	
JNS 315	350	11	<20	690	57	28	1055	104	40	
JNS 400	464	8	<20	930	32	20	1394	69	33	
JNS 500	545	6	<20	1252	24	15	1650	45	28	
JNS 100	187	300	50	-	-	-	-	-	-	1,00
JNS 125	245	265	46	-	-	-	-	-	-	
JNS 160	330	113	44	-	-	-	-	-	-	
JNS 200	435	123	38	870	312	-	-	-	-	
JNS 250	548	63	34	1100	160	53	-	-	-	
JNS 315	700	57	28	1400	150	48	2106	243	-	
JNS 400	930	32	20	1860	123	42	2783	273	53	
JNS 500	1151	26	14	2245	95	37	3280	296	49	

z: silencing range **V:** volume air stream **Ps:** pressure loss **NC:** noise level **v_k:** final air speed

SUPPLY:



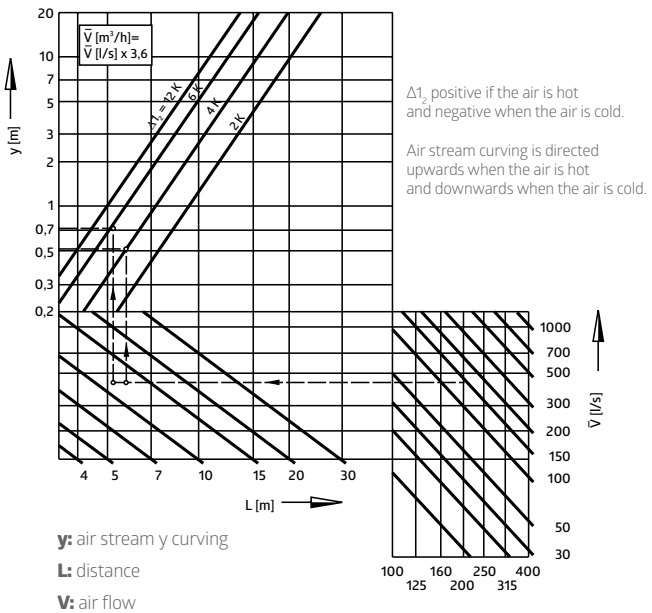
A: horizontal distance between the nozzle and the point where two air streams meet

VL: axial velocity at the end of the jet

Vm: time average air velocity in the occupied zone

Y: deflection of jet due to temperature difference, relative to constant-temperature jet

AIR STREAM CURVING:



$\Delta 1_2$ positive if the air is hot and negative when the air is cold.

Air stream curving is directed upwards when the air is hot and downwards when the air is cold.

y: air stream y curving

L: distance

V: air flow