

Jet diffuser

JDT



Specifications

Jet nozzle with simple wall and adjustable nozzle.

The conical section of the central nozzle causes the air jet to be introduced at a high speed over long distance.

Used mainly for supply, in ventilation systems.

Material

Aluminium nozzle.
Steel frame.

Finish

Standard finish: white RAL9016.

Optional finishing: different RAL (extra cost).

Mounting / Fixing

Mounting directly in circular ducts.

Screw fixing from duct side.
(there are no other fixing systems available)

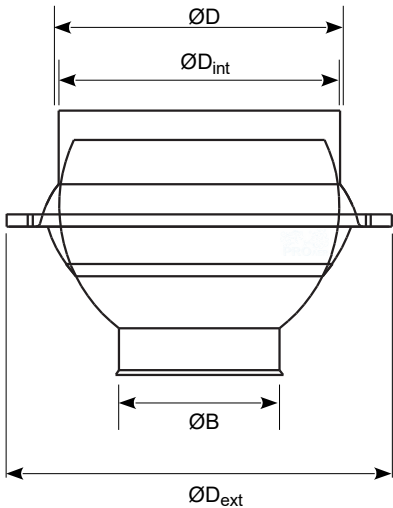
Order code: **JDT**

Product code

diameter ØD(mm)

not specified - white RAL9016 (standard)
RALxxxx - optional RAL code

Technical data



Standard sizes

ØD	ØD _{int}	ØD _{ext}	ØB
80	76	115	40
125	115	160	65
160	145	195	80
200	190	250	100
250	240	305	125
315	295	360	165
400	375	435	205

There are no other sizes available.

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Selection table

		JDT						
		80	125	160	200	250	315	400
Q(m³/h)	A _{ef} (m²)	0.001	0.003	0.005	0.008	0.012	0.021	0.032
40	V _{ef} (m/s)	8.5	-	-	-	-	-	-
	Lt _{0.5-0.3} (m)	5.2-8.6	-	-	-	-	-	-
	ΔP _t (Pa)	44	-	-	-	-	-	-
	Lw(dB(A))	20	-	-	-	-	-	-
100	V _{ef} (m/s)	-	8.4	5.6	3.5	-	-	-
	Lt _{0.5-0.3} (m)	-	5.0-8.4	4.2-6.9	3.3-5.4	-	-	-
	ΔP _t (Pa)	-	43	25	8	-	-	-
	Lw(dB(A))	-	19	17	15	-	-	-
150	V _{ef} (m/s)	-	12.6	8.3	5.3	3.5	2.0	-
	Lt _{0.5-0.3} (m)	-	7.5-12.6	6.2-10.4	4.9-8.1	3.9-6.5	3.0-4.9	-
	ΔP _t (Pa)	-	96	57	17	10	3	-
	Lw(dB(A))	-	31	20	9	8	6	-
200	V _{ef} (m/s)	-	-	11.1	7.0	4.6	2.6	1.7
	Lt _{0.5-0.3} (m)	-	-	8.3-13.8	6.5-10.8	5.2-8.7	3.9-6.6	3.4-5.6
	ΔP _t (Pa)	-	-	98	30	17	4	3
	Lw(dB(A))	-	-	29	17	14	13	3
300	V _{ef} (m/s)	-	-	-	10.5	6.9	4.0	2.6
	Lt _{0.5-0.3} (m)	-	-	-	9.8-16.3	7.9-13.1	5.9-9.9	5.1-8.5
	ΔP _t (Pa)	-	-	-	67	38	9	6
	Lw(dB(A))	-	-	-	30	17	4	4
400	V _{ef} (m/s)	-	-	-	14.1	9.3	5.3	3.5
	Lt _{0.5-0.3} (m)	-	-	-	13.0-21.7	10.5-17.5	7.9-13.2	6.8-11.4
	ΔP _t (Pa)	-	-	-	109	68	16	10
	Lw(dB(A))	-	-	-	38	25	12	10
500	V _{ef} (m/s)	-	-	-	-	11.6	6.6	4.3
	Lt _{0.5-0.3} (m)	-	-	-	-	13.1-21.8	9.9-16.5	8.5-14.2
	ΔP _t (Pa)	-	-	-	-	106	25	16
	Lw(dB(A))	-	-	-	-	32	19	14

- A_{ef}(m²) = effective area
- V_{ef}(m/s) = effective air velocity
- Lt_{0.5}(m) = throw length in 0.5 m/s area
- Lt_{0.3}(m) = throw length in 0.3 m/s area
- ΔP_t(Pa) = pressure loss
- Lw(dB(A)) = incl. room attenuation 5dB(A)

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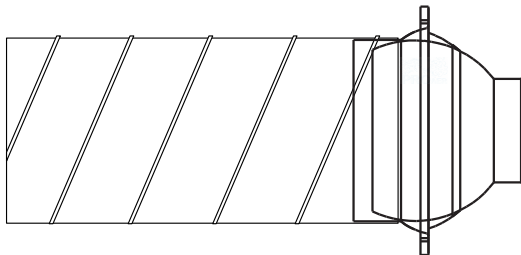
		JDT						
		80	125	160	200	250	315	400
Q(m³/h)	A _{ef} (m²)	0.001	0.003	0.005	0.008	0.012	0.021	0.032
600	V _{ef} (m/s)	-	-	-	-	-	7.9	5.2
	L _{t0.5-0.3} (m)	-	-	-	-	-	11.8-19.7	10.2-16.9
	ΔP _t (Pa)	-	-	-	-	-	36	23
	L _w (dB(A))	-	-	-	-	-	25	16
800	V _{ef} (m/s)	-	-	-	-	-	10.6	6.9
	L _{t0.5-0.3} (m)	-	-	-	-	-	15.8	26.3
	ΔP _t (Pa)	-	-	-	-	-	65	41
	L _w (dB(A))	-	-	-	-	-	33	25
1000	V _{ef} (m/s)	-	-	-	-	-	13.2	8.7
	L _{t0.5-0.3} (m)	-	-	-	-	-	19.7-32.9	16.9-28.3
	ΔP _t (Pa)	-	-	-	-	-	101	64
	L _w (dB(A))	-	-	-	-	-	40	32
1200	V _{ef} (m/s)	-	-	-	-	-	-	9.5
	L _{t0.5-0.3} (m)	-	-	-	-	-	-	19.1-33.9
	ΔP _t (Pa)	-	-	-	-	-	-	102
	L _w (dB(A))	-	-	-	-	-	-	41

- A_{ef}(m²) = effective area
- V_{ef}(m/s) = effective air velocity
- L_{t0.5}(m) = throw length in 0.5 m/s area
- L_{t0.3}(m) = throw length in 0.3 m/s area
- ΔP_t(Pa) = pressure loss
- L_w(dB(A)) = incl. room attenuation 5dB(A)

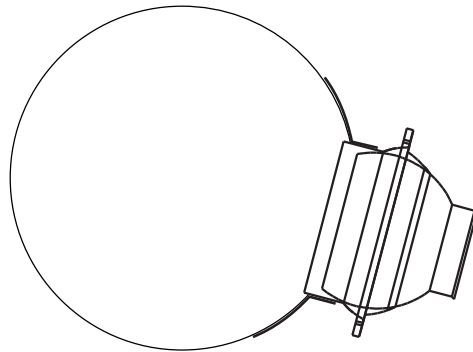
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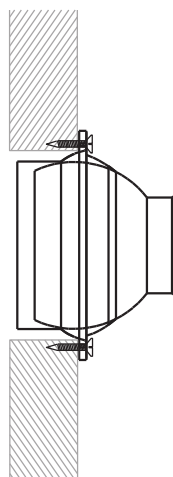
Mounting / Fixing



Mounting in circular duct.
Screw fixing from duct side.



Mounting on the side of circular ducts.
Screw fixing from fitting side.



Mounting on flat surface.
Screw fixing through diffuser frame.
(not recommended)