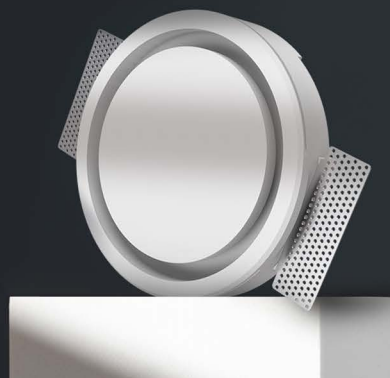


RONDO 100

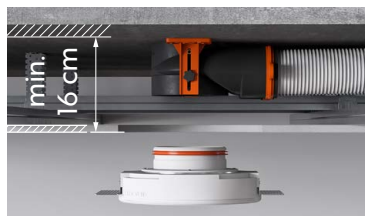
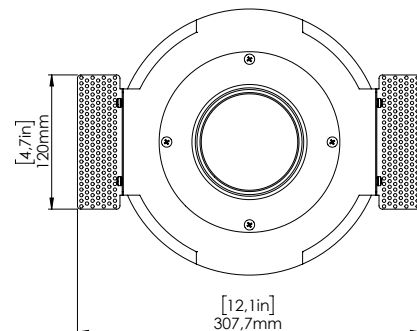
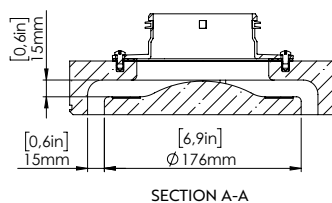
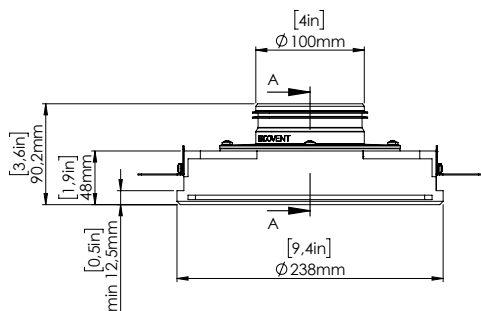
Hidden ventilation diffusers for ceilings and walls



Aerodynamic convex cap shape to reduce air vortices.

100 mm connection / with damper

- ✓ Completely painted in the same color and paint as the ceilings/walls.
- ✓ Dirt rings do not form around the diffusers.
- ✓ Easy, fast, simple installation.
- ✓ Suitable for single layer, double layer or custom thickness of plasterboard.
- ✓ Universal - A/C, ventilation, recuperation. suitable for both supply & exhaust.
- ✓ Safely packed (never gets damaged during transportation).



Minimum installation height: 160 mm
≈ 6.3"



We recommend reinforcing the entire diffuser area with thin fiberglass mesh

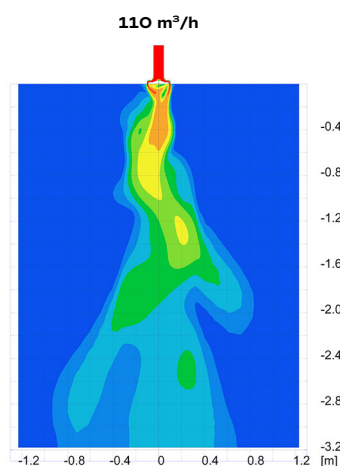
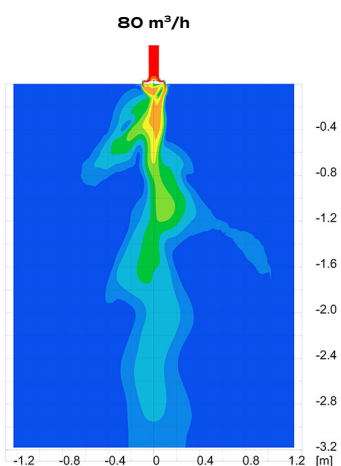
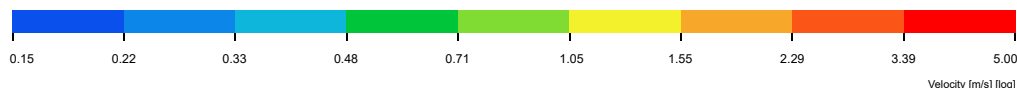


Quick and easy installation



Airflow damper is included

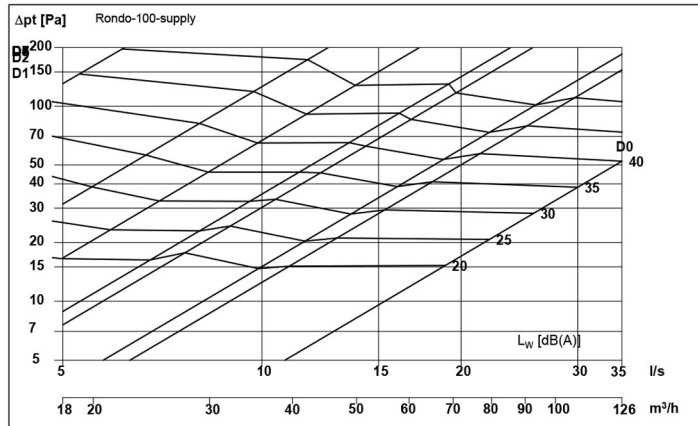
THROW DISTANCE



FLOW NOISE (in accordance with ISO 3741) and PRESSURE DROP test report

SUPPLY

Diagram for pressure and flow noise:



$$L_{Woct} [dB] = L_{WA} + K_{oct}$$

q [l/s]	Δp _t [Pa]	L _{WA} [dBA]		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
-	-	33	K _{oct}	1	2	0	-3	-4	-10	-17	-20

Octave correction factors to the diagram are calculated at the listed value of either q, Δp_t or L_{WA}/L_{WA}

Calculation of pressure and sound effect according to flow:

Sound effect: $L_{W(oct \text{ or } A)} = k \cdot \log(q) + L_0$

L_W - sound effect [dB]

q - flow [l/s]

k - factor, sound effect [-]

K_{factor} - factor, balancing [l/(s·√Pa)]

Total pressuredrop: $\Delta p_t = c_{pt} \cdot q^2$

L₀ - addend, sound effect [-]

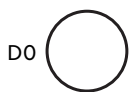
p_i - pressuredifference, balancing [Pa]

Δp_t - total pressuredrop [Pa]

Balancing: $q = K_{factor} \cdot \sqrt{p_i}$

c_{pt} - factor, total pressuredrop [Pa·s²/l²]

	Total p c _{ptot}	Balancing K-factor		L _{WA}	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
D0	0.0427	Not measured	k Lo	74.9 -75.6	51.0 -33.5	36.1 -14.9	74.2 -72.2	74.5 -76.4	84.8 -97.1	95.5 -117.1	57.7 -69.8	58.2 -68.8
D1	0.1253	Not measured	k Lo	69.4 -52.3	42.7 -14.3	58.5 -34.2	71.2 -53.9	61.7 -45.4	69.3 -57.1	87.1 -83.5	72.4 -73.5	72.8 -76.9
D2	0.1512	Not measured	k Lo	71.7 -51.3	131.4 -126.7	68.2 -43.0	51.4 -25.6	75.7 -59.2	74.4 -59.1	85.9 -78.1	83.9 -84.7	84.3 -89.4
D3	0.3036	Not measured	k Lo	73.2 -44.6	40.7 -13.7	58.1 -24.0	80.8 -53.3	69.9 -45.0	67.2 -42.0	85.6 -66.8	87.1 -76.7	87.7 -82.9
D4	0.3551	Not measured	k Lo	66.4 -35.2	57.7 -27.5	40.8 -8.2	66.7 -34.8	50.4 -21.5	67.4 -39.8	85.5 -65.4	74.0 -60.5	74.9 -65.9
D5	0.6687	Not measured	k Lo	67.6 -27.1	40.3 -1.4	39.0 1.0	63.4 -23.1	65.1 -29.0	69.5 -31.9	81.4 -51.0	70.7 -47.5	71.2 -51.4
D6	1.2624	Not measured	k Lo	61.3 -15.6	55.3 -9.0	55.8 -12.5	60.5 -16.3	58.2 -17.8	56.7 -14.4	85.5 -45.3	62.0 -32.7	62.9 -35.0
D7	5.2126	Not measured	k Lo	77.3 -11.0	40.0 11.5	41.5 3.2	62.5 -8.7	48.0 0.3	75.3 -11.9	111.4 -39.9	77.6 -27.5	78.2 -30.2



no damper



1 segment



2 segments



3 segments



4 segments /
full open



4 segments /
75% open



4 segments /
50% open

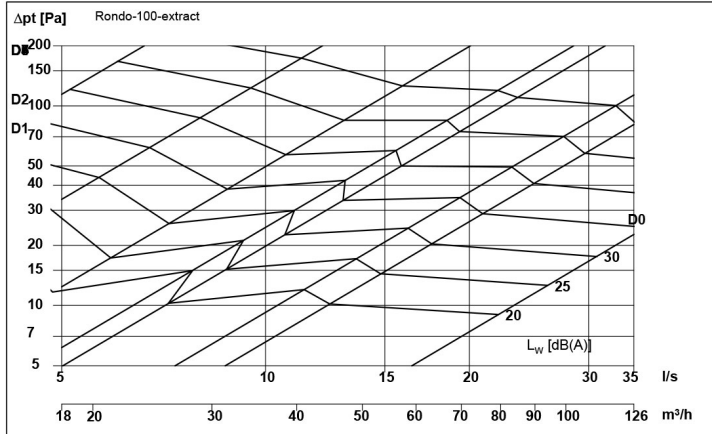


4 segments /
25% open

FLOW NOISE (in accordance with ISO 3741) and PRESSURE DROP test report

EXTRACT

Diagram for pressure and flow noise:



$$L_{Woct} [dB] = L_{WA} + K_{oct}$$

q [l/s]	Dp _t [Pa]	L _{WA} [dBA]		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
-	-	33	K _{oct}	1	0	-3	-2	-4	-9	-17	-22

Octave correction factors to the diagram are calculated at the listed value of either q, Δp_t or L_{WA}/L_{DA}

Calculation of pressure and sound effect according to flow:

Sound effect: $L_{W(oct \text{ or } A)} = k \cdot \log(q) + L_0$

L_W - sound effect [dB]

q - flow [l/s]

k - factor, sound effect [-]

K_{factor} - factor, balancing [l/(s·√Pa)]

Total pressuredrop: $\Delta p_t = c_{pt} \cdot q^2$

L₀ - addend, sound effect [-]

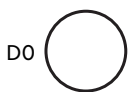
p_i - pressuredifference, balancing [Pa]

Δp_t - total pressuredrop [Pa]

Balancing: $q = K_{factor} \cdot \sqrt{p_i}$

c_{pt} - factor, total pressuredrop [Pa·s²/l²]

	Total p c _{ptot}	Balancing K-factor		L _{WA}	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
D0	0.0185	Not measured	k Lo	68.6 -72.2	46.1 -31.8	46.5 -30.1	91.8 -105.2	60.3 -61.3	74.2 -88.4	84.0 -108.6	66.6 -87.3	66.9 -89.1
D1	0.0659	Not measured	k Lo	66.3 -52.6	55.3 -38.5	65.2 -51.7	57.2 -43.4	55.6 -41.1	67.0 -58.3	73.2 -68.3	82.2 -89.5	83.1 -98.1
D2	0.0926	Not measured	k Lo	65.2 -48.9	40.7 -18.2	59.6 -41.2	53.2 -36.9	51.9 -35.0	67.6 -56.5	71.9 -64.3	80.0 -83.5	80.9 -92.7
D3	0.1987	Not measured	k Lo	58.1 -29.8	41.4 -7.1	33.4 -3.5	44.9 -17.3	51.1 -24.7	59.0 -34.2	67.5 -49.2	77.3 -69.2	78.0 -77.5
D4	0.2464	Not measured	k Lo	66.5 -39.3	40.3 -12.4	32.2 -4.4	41.3 -15.2	51.9 -25.2	72.8 -50.0	80.3 -63.5	72.0 -61.9	72.5 -66.9
D5	0.4967	Not measured	k Lo	58.1 -19.8	41.6 -6.3	41.8 -6.0	56.6 -21.6	54.1 -19.0	57.3 -21.6	67.6 -39.9	73.7 -52.8	74.3 -58.3
D6	1.3594	Not measured	k Lo	67.0 -20.5	40.8 -0.6	72.4 -28.8	61.9 -20.2	61.3 -19.3	68.5 -24.7	69.0 -31.4	80.1 -46.6	80.6 -51.7
D7	4.5747	Not measured	k Lo	71.5 -10.8	50.1 3.8	53.8 -6.1	65.4 -15.6	50.7 -0.9	80.5 -18.9	73.9 -22.6	61.3 -21.2	61.9 -22.9



no damper



1 segment



2 segments



3 segments



4 segments /
full open



4 segments /
75% open



4 segments /
50% open



4 segments /
25% open