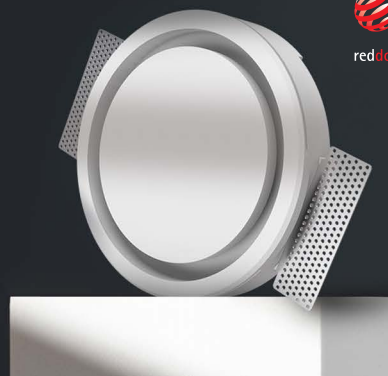


RONDO 125

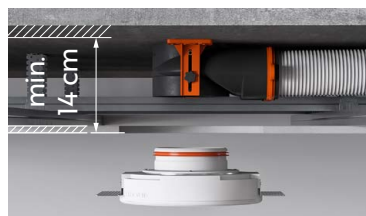
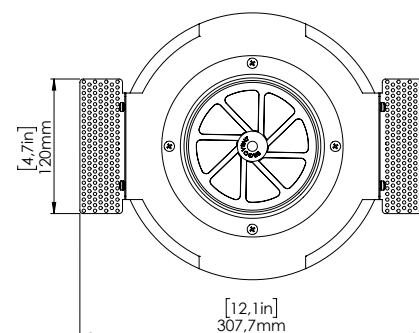
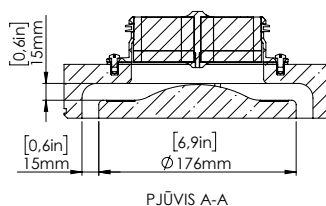
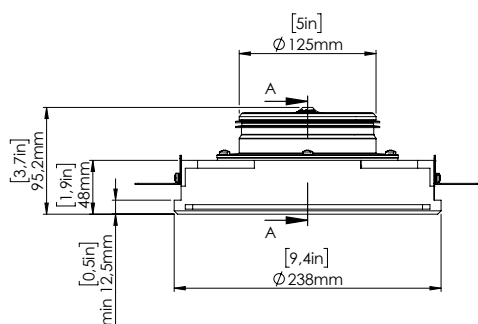
Hidden ventilation diffusers for ceilings and walls



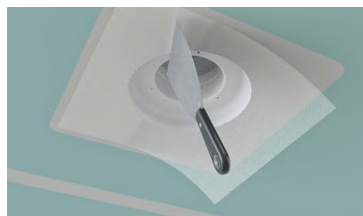
Aerodynamic convex cap shape to reduce air vortices.

125 mm connection / with damper

- ✓ Can be painted with the same paint as walls / ceilings.
- ✓ 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: 140 mm
≈ 5,51"



We recommend reinforcing the entire diffuser area with thin fiberglass mesh

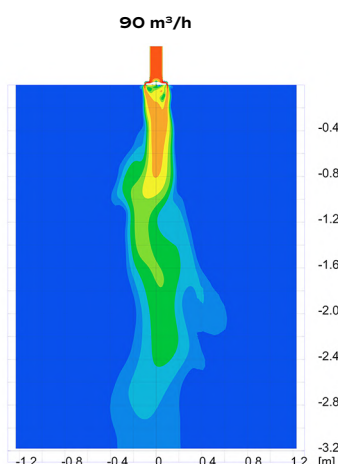
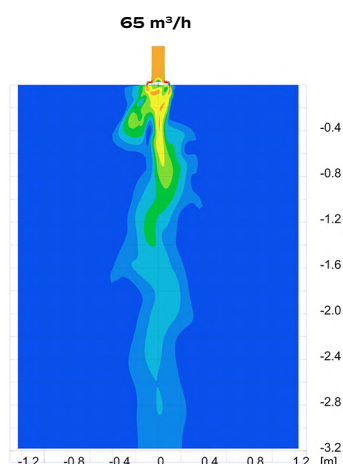
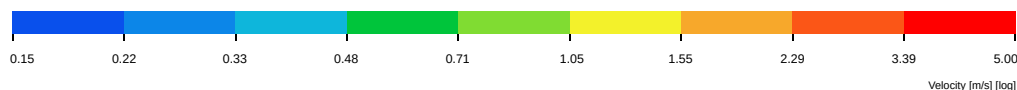


Quick and easy installation



Airflow damper is included

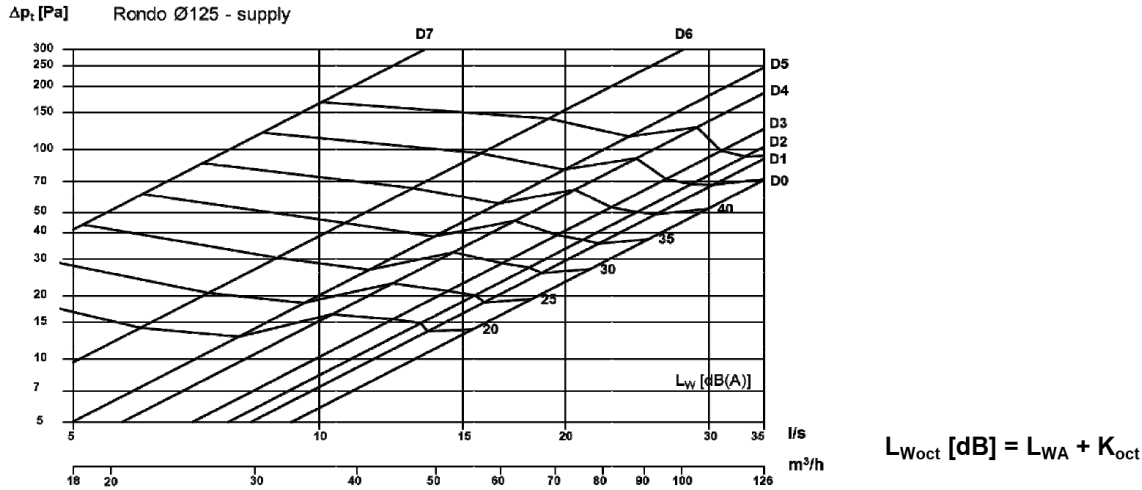
THROW DISTANCE



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

SUPPLY

Diagram for pressure and flow noise:



q [l/s]	Δp_t [Pa]	L_{WA} [dBA]		K_{oct}	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
-	-	33			-2	-1	0	-2	-5	-9	-17	-23

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

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

L_0 - 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	0.0584	Not measured	k Lo	69.5 -62.5	67.8 -58.9	58.1 -43.0	73.8 -66.4	62.4 -53.5	71.9 -72.9	98.5 -114.9	48.6 -52.0	49.1 -53.4
D1	0.0735	Not measured	k Lo	71.5 -61.0	44.8 -28.1	48.7 -29.3	59.8 -43.9	63.9 -52.0	78.5 -76.2	85.2 -88.8	97.2 -114.6	98.6 -121.6
D2	0.0837	Not measured	k Lo	75.4 -64.8	58.3 -44.8	40.5 -17.8	71.1 -58.7	61.3 -47.2	83.2 -81.0	91.4 -94.7	88.9 -99.7	89.3 -106.0
D3	0.1023	Not measured	k Lo	74.6 -61.3	41.9 -21.0	48.6 -28.4	48.6 -27.5	71.0 -58.6	78.6 -71.9	89.5 -88.6	84.0 -89.8	84.8 -95.4
D4	0.1520	Not measured	k Lo	67.0 -48.0	54.7 -31.7	42.1 -20.6	50.3 -28.4	53.9 -34.6	70.1 -56.7	73.6 -62.9	92.4 -95.8	92.5 -104.9
D5	0.2014	Not measured	k Lo	62.8 -36.6	70.8 -53.8	45.8 -20.9	50.2 -24.1	51.7 -26.8	64.4 -43.0	71.6 -53.7	76.6 -67.8	76.6 -74.3
D6	0.3848	Not measured	k Lo	60.0 -26.9	42.0 -11.6	41.3 -9.3	53.7 -20.6	45.8 -14.0	63.6 -35.6	76.6 -52.6	79.5 -63.3	79.6 -68.9
D7	1.6575	Not measured	k Lo	68.3 -18.5	58.8 -11.2	38.7 -4.2	50.2 -8.0	49.2 -7.9	71.6 -24.6	71.7 -28.2	84.4 -44.9	85.1 -52.9



no damper



1 segment



2 segments



3 segments



4 segments /
full open



4 segments /
75% open



4 segments /
50% open



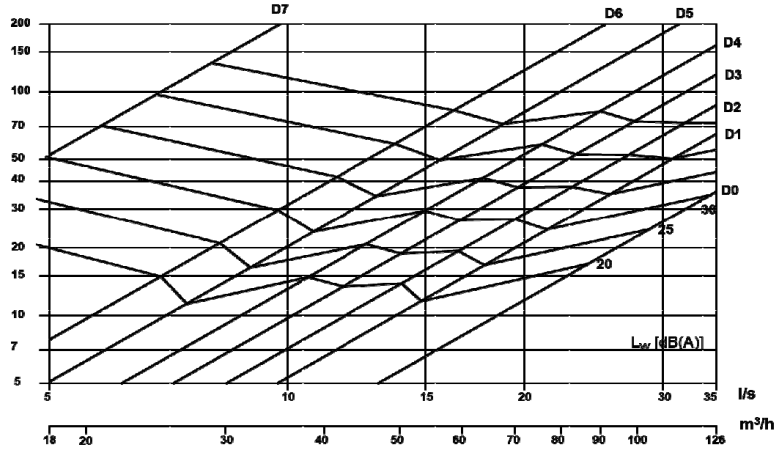
4 segments /
25% open

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

EXTRACT

Diagram for pressure and flow noise:

Δp_t [Pa] Rondo Ø125 - extract



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

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}	-3	-1	-3	-3	-5	-7	-15	-23

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

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

L_0 - 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	0.0293	Not measured	k Lo	64.7 -69.3	49.1 -42.1	69.7 -78.4	66.0 -70.8	41.8 -32.5	71.5 -86.5	82.8 -108.5	84.1 -116.5	86.0 -125.6
D1	0.0529	Not measured	k Lo	62.7 -53.4	54.8 -48.6	49.2 -31.8	51.1 -39.1	63.5 -57.7	58.0 -53.2	65.9 -63.5	78.0 -88.7	78.0 -97.9
D2	0.0712	Not measured	k Lo	69.7 -59.8	45.0 -24.9	54.8 -39.9	56.4 -45.8	62.7 -54.9	65.1 -60.3	73.8 -70.1	87.5 -96.6	88.2 -108.2
D3	0.0971	Not measured	k Lo	67.7 -52.5	70.6 -63.0	46.3 -26.7	57.3 -44.6	48.2 -32.1	55.0 -41.8	77.9 -70.4	80.4 -82.2	81.0 -93.3
D4	0.1312	Not measured	k Lo	67.3 -49.1	66.6 -52.4	35.8 -9.6	60.0 -43.0	56.2 -38.4	67.3 -54.8	74.0 -63.2	81.9 -81.4	82.1 -89.2
D5	0.2028	Not measured	k Lo	62.2 -34.2	38.1 -14.7	43.0 -16.6	45.7 -18.1	53.2 -27.0	58.5 -34.2	70.3 -50.5	83.4 -73.0	83.6 -81.5
D6	0.3115	Not measured	k Lo	67.2 -36.5	40.0 -11.6	45.0 -16.8	59.7 -32.4	63.3 -35.6	62.3 -35.3	75.5 -52.4	90.4 -75.7	90.7 -83.9
D7	2.0921	Not measured	k Lo	71.7 -19.8	41.4 1.4	40.4 -2.6	46.2 -4.3	73.2 -23.7	70.0 -23.0	75.0 -29.1	89.2 -46.7	90.2 -56.7



no damper



1 segment



2 segments



3 segments



4 segments /
full open



4 segments /
75% open



4 segments /
50% open



4 segments /
25% open