

RONDO-COANDA 100

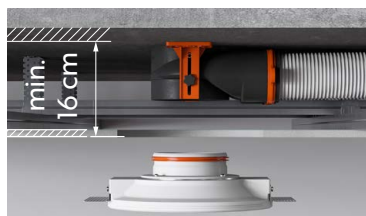
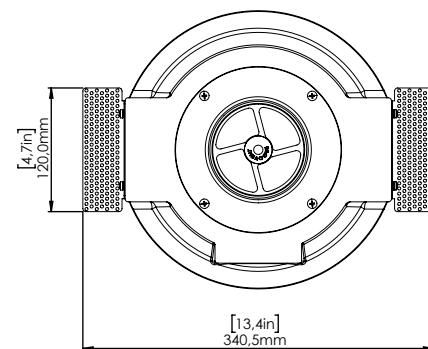
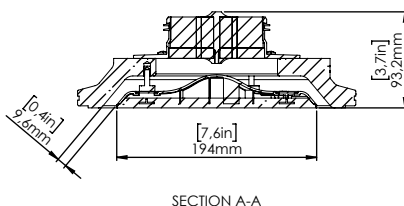
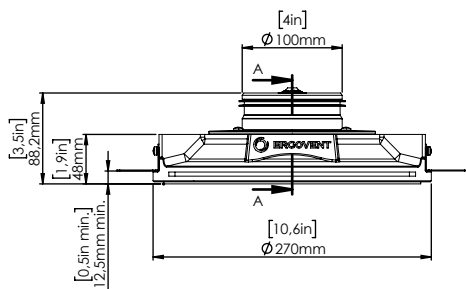
Hidden ventilation diffusers
for ceilings and walls



The gypsum cover "armor" is a patented solution that protects against damage.

100mm connection / with damper

Round-shaped diffuser is a recessed ventilation diffuser designed to deliver air along the ceiling surface using the **COANDA effect** that is ideal for modern interiors where airflow comfort and discretion are key. Ideally suited for spaces where people are often directly beneath the diffuser—air movement is virtually imperceptible while the room's microclimate remains balanced. High-quality gypsum body: robust, bubble-free casting with integrated mounting elements. Smooth, paint-ready surface finish.



Minimum installation height: 160 mm
≈ 6,3"



A fiberglass liner is included with the product



Easy and fast installation

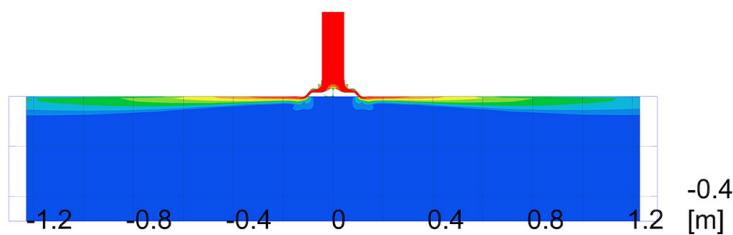


Airflow damper is included with the product

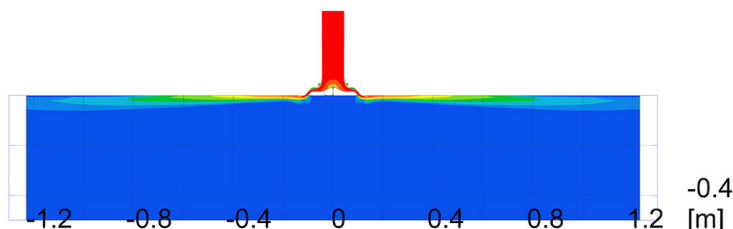
THROW DISTANCE



85 m³/h



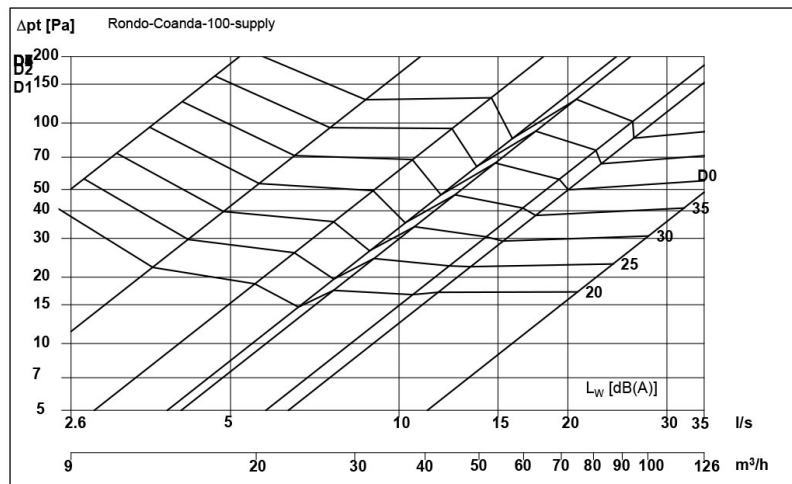
115 m³/h



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]	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	-1	-4	-4	-8	-17	-19

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)]

L₀ - addend, sound effect [-]

p_i - pressuredifference, balancing [Pa]

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

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		LwA	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
D0	0.0397	Not measured	k Lo	78.8 -83.9	59.0 -53.0	46.0 -33.3	50.4 -39.1	89.0 -99.6	86.2 -102.0	94.0 -119.0	67.6 -85.2	68.9 -88.8
D1	0.1242	Not measured	k Lo	85.8 -71.7	53.0 -33.4	84.0 -67.9	77.0 -63.3	63.1 -48.6	79.6 -69.3	98.9 -93.1	85.9 -91.0	86.9 -93.5
D2	0.1493	Not measured	k Lo	76.5 -58.4	42.5 -13.6	60.6 -33.7	75.9 -56.7	67.1 -50.3	82.4 -70.3	89.0 -83.2	81.5 -81.1	82.0 -85.5
D3	0.2992	Not measured	k Lo	69.3 -41.1	45.7 -12.5	51.7 -19.5	50.0 -21.0	53.2 -27.5	71.7 -48.0	84.2 -64.9	85.1 -74.8	85.7 -78.6
D4	0.3354	Not measured	k Lo	78.6 -44.4	41.6 -12.6	45.4 -12.1	60.4 -27.4	61.7 -32.6	77.2 -48.1	89.1 -60.2	90.4 -75.6	91.0 -81.1
D5	0.6120	Not measured	k Lo	71.1 -32.8	39.7 -4.2	49.6 -11.7	69.2 -31.7	68.9 -35.4	74.3 -38.8	68.5 -40.0	76.5 -54.2	77.2 -57.9
D6	1.6808	Not measured	k Lo	79.0 -24.3	38.9 4.9	49.6 -7.6	60.3 -15.5	59.7 -16.1	78.4 -27.2	89.6 -38.2	62.3 -28.9	63.8 -31.6
D7	7.4162	Not measured	k Lo	85.8 -12.6	48.8 10.6	36.8 5.8	54.0 -1.6	64.0 -5.8	83.9 -14.6	107.6 -32.2	85.2 -25.3	85.9 -28.1



D0 no damper



D1 1 segment



D2 2 segments



D3 3 segments



D4 4 segments /
full open



D5 4 segments /
75% open



D6 4 segments /
50% open

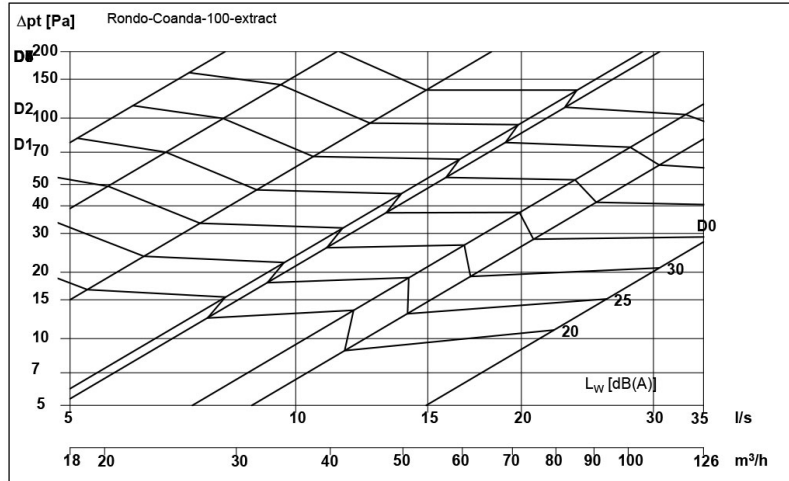


D7 4 segments /
25% open

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	-1	-2	-2	-4	-9	-16	-21

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		LwA	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
D0	0.0224	Not measured	k Lo	71.1 -75.5	40.5 -27.6	38.5 -24.0	89.0 -103.3	62.0 -64.3	75.0 -87.9	66.7 -75.0	86.5 -115.2	87.3 -124.6
D1	0.0655	Not measured	k Lo	59.5 -43.4	49.5 -32.5	57.7 -41.7	62.3 -48.1	62.8 -50.0	54.2 -41.2	60.3 -51.7	67.5 -69.7	68.7 -76.1
D2	0.0944	Not measured	k Lo	67.7 -52.9	55.1 -33.2	54.8 -37.8	55.1 -38.5	54.0 -37.0	81.3 -75.6	69.8 -63.5	73.0 -75.1	74.0 -82.5
D3	0.2137	Not measured	k Lo	62.9 -35.5	41.5 -17.9	35.9 -5.5	41.4 -13.6	62.7 -38.4	64.2 -40.6	74.9 -57.1	79.1 -69.7	80.2 -77.5
D4	0.2379	Not measured	k Lo	64.0 -38.0	52.2 -26.4	42.6 -16.9	43.8 -18.3	54.0 -28.9	71.5 -49.9	73.0 -58.2	56.0 -45.1	56.3 -48.3
D5	0.6006	Not measured	k Lo	66.3 -27.9	40.6 -5.0	44.3 -6.2	65.5 -28.6	60.0 -23.9	70.6 -35.2	69.2 -43.0	66.5 -44.4	67.1 -50.0
D6	1.5533	Not measured	k Lo	65.3 -19.0	41.8 5.8	46.7 -3.4	57.2 -14.9	56.2 -13.8	73.1 -28.7	63.0 -28.8	64.5 -33.7	65.2 -39.0
D7	3.0936	Not measured	k Lo	67.2 -12.6	42.2 8.1	42.0 -1.4	41.9 -1.4	58.9 -9.5	74.4 -20.0	62.1 -21.6	49.9 -16.6	50.6 -19.2



no damper



1 segment



2 segments



3 segments



4 segments /
full open



4 segments /
75% open



4 segments /
50% open



4 segments /
25% open