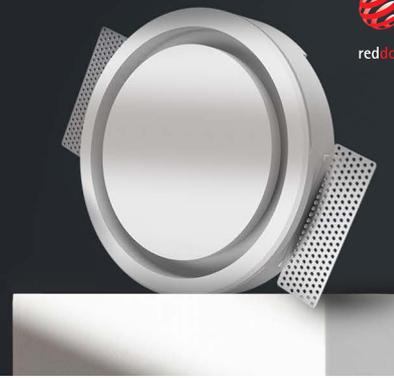


# RONDO 125

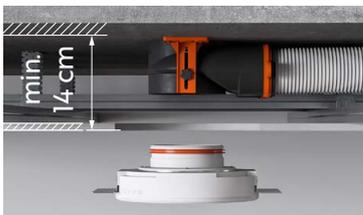
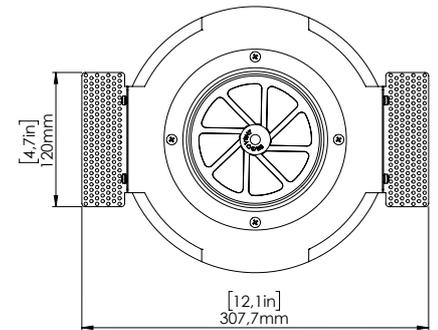
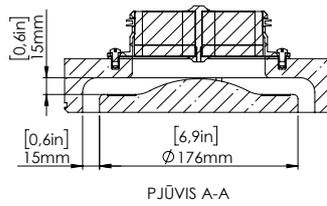
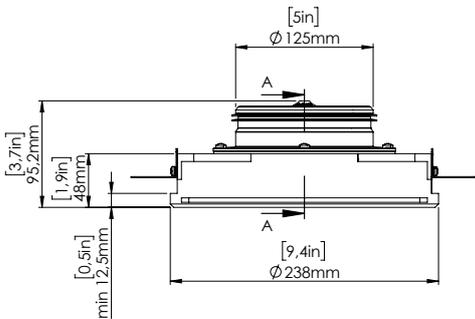
Hidden ventilation diffusers for ceilings and walls



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

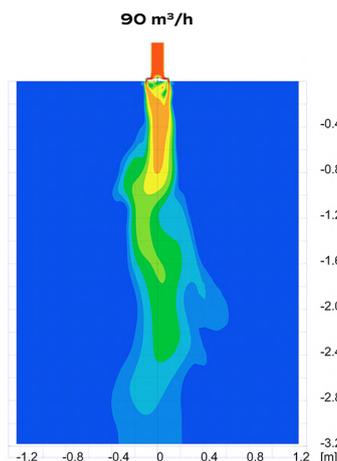
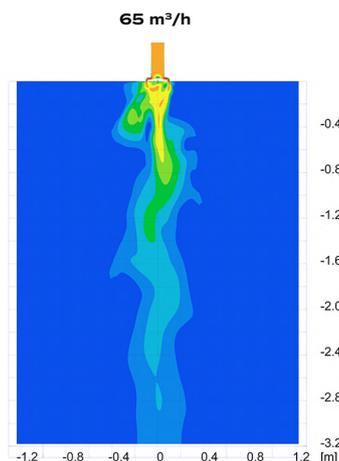


Quick and easy installation



Airflow damper is included

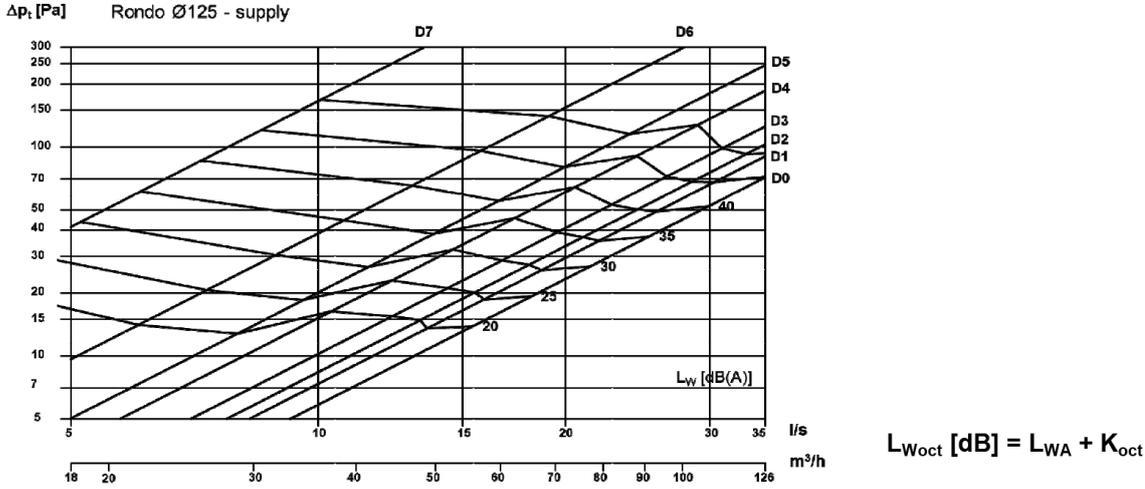
## THROW DISTANCE



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

## SUPPLY

Diagram for pressure and flow noise:



q [l/s]	$\Delta p_t$ [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,  $\Delta p_t$  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 [-]

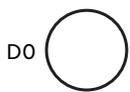
$p_i$  - pressuredifference, balancing [Pa]

$\Delta p_t$  - total pressuredrop [Pa]

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

$c_{pt}$  - factor, total pressuredrop [Pa·s<sup>2</sup>/l<sup>2</sup>]

	Total p $c_{ptot}$	Balancing K-factor		LwA	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
<b>D0</b>	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
<b>D1</b>	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
<b>D2</b>	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
<b>D3</b>	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
<b>D4</b>	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
<b>D5</b>	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
<b>D6</b>	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
<b>D7</b>	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

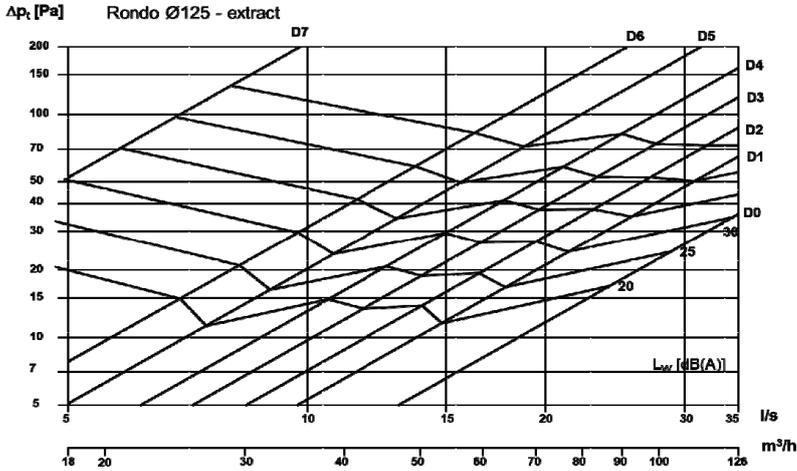


4 segments /  
25% open

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

## EXTRACT

Diagram for pressure and flow noise:



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

q [l/s]	Dp <sub>t</sub> [Pa]	L <sub>WA</sub> [dBA]		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
-	-	33	K <sub>oct</sub>	-3	-1	-3	-3	-5	-7	-15	-23

Octave correction factors to the diagram are calculated at the listed value of either q, Δp<sub>t</sub> or L<sub>WA</sub>/L<sub>pA</sub>

Calculation of pressure and sound effect according to flow:

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

L<sub>W</sub> - sound effect [dB]

q - flow [l/s]

k - factor, sound effect [-]

K<sub>factor</sub> - factor, balancing [l/(s·√Pa)]

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

L<sub>0</sub> - addend, sound effect [-]

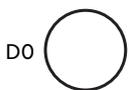
p<sub>i</sub> - pressuredifference, balancing [Pa]

Δp<sub>t</sub> - total pressuredrop [Pa]

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

c<sub>pt</sub> - factor, total pressuredrop [Pa·s<sup>2</sup>/l<sup>2</sup>]

	Total p c <sub>ptot</sub>	Balancing K-factor		L <sub>WA</sub>	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
<b>D0</b>	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
<b>D1</b>	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
<b>D2</b>	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
<b>D3</b>	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
<b>D4</b>	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
<b>D5</b>	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
<b>D6</b>	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
<b>D7</b>	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