

ERGOVENT LINEO-600

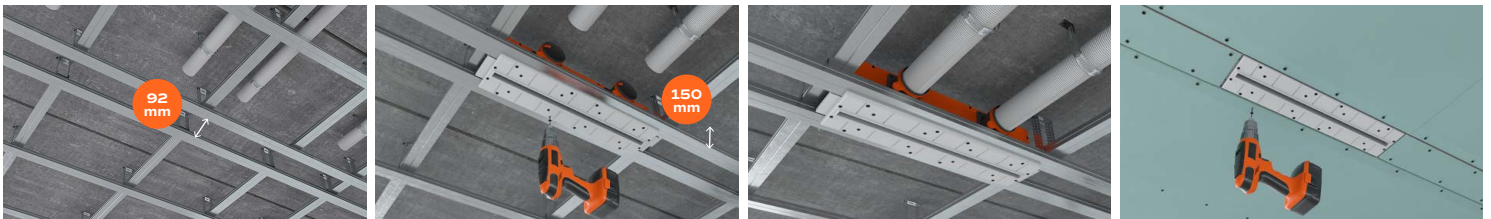
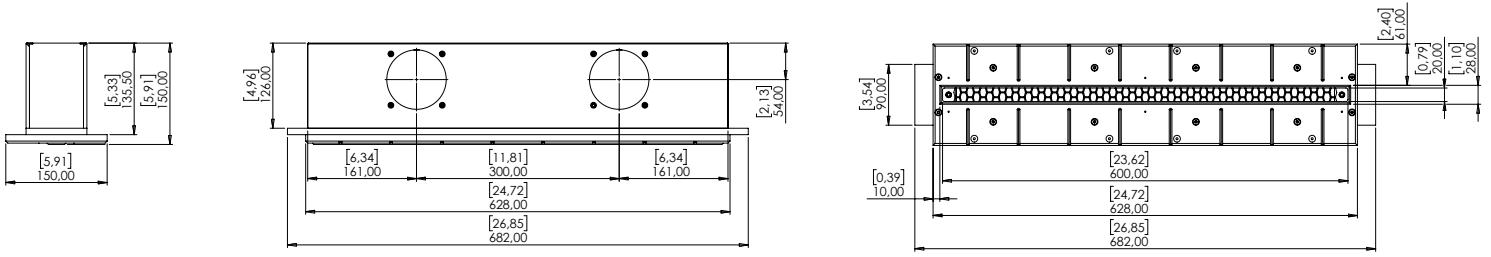
Hidden linear ventilation diffuser



75 mm connections × 2 vnt / 1 slot × 600 mm × 20 mm / with damper

The hidden ventilation diffuser is designed for installation in plasterboard ceilings and walls. It connects to flexible 75 mm plastic air ducts, while the included adapters ensure a fast and airtight connection. After installation, the diffuser is finished and painted in the same color as the ceiling or wall, leaving only a minimalist slot visible - a subtle interior detail.

- Slot length: 600 mm (fixed length, non-connectable).
- Rigid lower finishing section, ready for painting - easily integrated into plasterboard surfaces.
- Aerodynamic airflow balancing damper - adjustable externally through the slot.
- Includes a damper position gauge and duct adapters for quick connection.
- Requires 17 cm installation depth; installation can be completed by one person in just a few minutes.



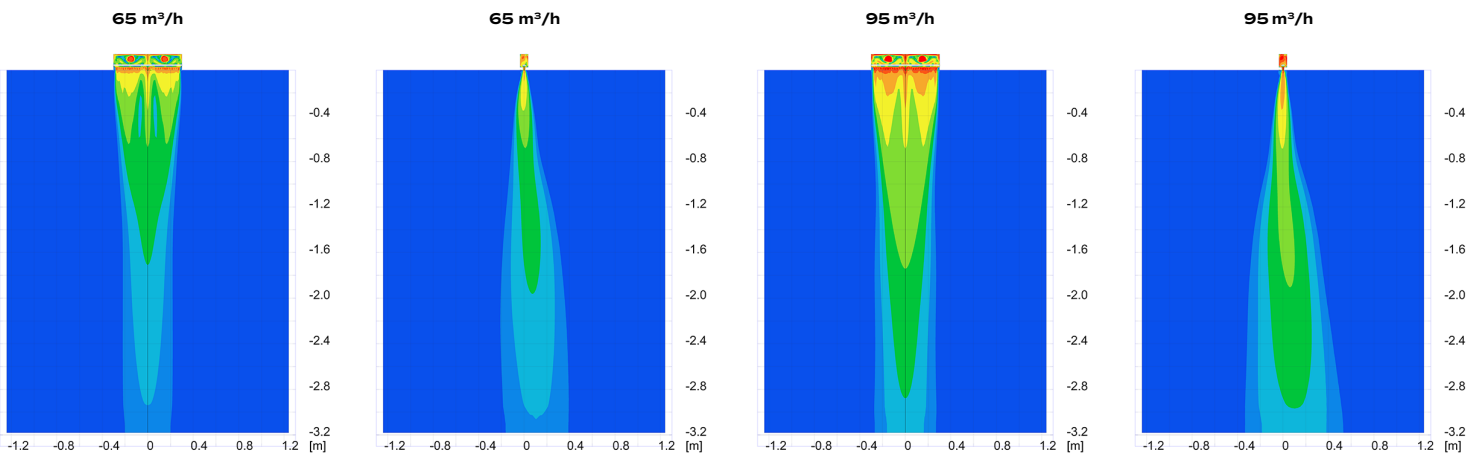
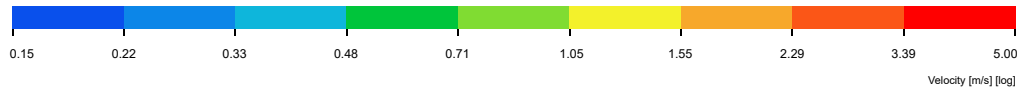
Installation width between profiles:
92 mm / ≈ 3,62".

Minimum installation height:
150 mm / ≈ 5,91".

Installation: requires 17 cm clearance;
one-person installation in minutes.

Important: During installation, all fixing screws must be fully tightened.

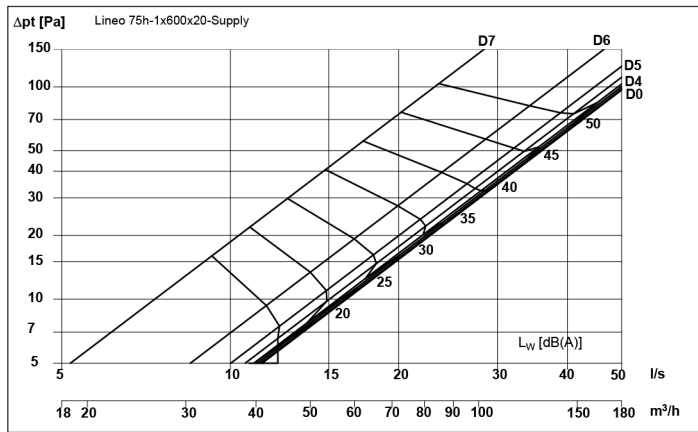
THROW DISTANCE



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

AIR SUPPLY

Diagram for pressure and flow noise:



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

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}	-7	-1	5	0	-12	-20	-22	-23

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_t - pressuredifference, balancing [Pa]

Δp_t - total pressuredrop [Pa]

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

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

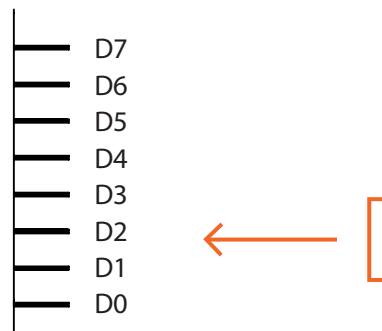
	Total p c _{plot}	Balancing K-factor		L _{WA}	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
D0	0.0385	Not measured	k Lo	67.1 -58.8	44.1 -35.3	57.6 -46.0	58.1 -42.2	71.1 -64.1	75.0 -81.2	93.3 -114.1	57.6 -67.3	58.4 -69.0
D1	0.0391	Not measured	k Lo	57.5 -44.1	69.9 -70.0	66.9 -59.0	51.8 -32.2	57.5 -43.6	71.5 -76.1	94.3 -115.4	58.0 -68.0	58.7 -69.6
D2	0.0400	Not measured	k Lo	65.6 -55.5	38.9 -26.1	59.7 -46.8	51.7 -30.8	72.4 -65.1	79.2 -87.2	101.6 -125.8	63.1 -75.0	64.1 -77.5
D3	0.0412	Not measured	k Lo	48.2 -29.8	65.8 -64.9	62.5 -49.8	44.3 -20.3	45.0 -24.7	69.9 -72.7	91.9 -110.5	49.5 -55.0	50.8 -55.9
D4	0.0443	Not measured	k Lo	56.8 -41.6	46.1 -36.5	61.6 -48.5	51.8 -30.4	55.1 -38.8	78.8 -84.5	99.4 -120.2	52.8 -58.7	53.2 -58.9
D5	0.0499	Not measured	k Lo	59.7 -45.0	38.4 -18.1	67.6 -56.1	48.1 -24.6	63.3 -49.6	69.9 -70.8	96.7 -114.4	58.4 -65.6	59.1 -66.8
D6	0.0695	Not measured	k Lo	63.9 -48.0	36.0 -19.7	36.5 -11.3	60.3 -39.4	63.0 -46.5	76.5 -75.8	91.0 -100.6	74.6 -83.6	75.0 -84.7
D7	0.1862	Not measured	k Lo	74.1 -51.6	42.9 -22.9	59.0 -36.5	51.8 -22.6	75.9 -54.7	76.4 -61.9	99.4 -92.8	96.2 -92.8	96.9 -100.3

AIRFLOW BALANCING

The diffuser is equipped with an airflow balancing damper. The **aerodynamic damper** is located inside the diffuser and is conveniently adjustable from the outside.

Setting the damper position with the gauge*:

- ✓ Insert the gauge through the diffuser grille until it contacts the balancing damper.
- ✓ Take the reading relative to the ceiling line.
- ✓ Damper positions are indicated on the gauge.



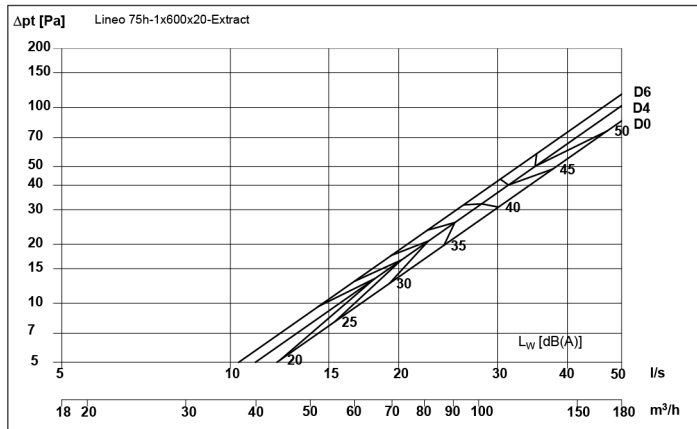
* The damper-position gauge is supplied with the diffuser.

D0 – damper fully open.
D7 – damper fully closed.

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

AIR EXHAUST

Diagram for pressure and flow noise:



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

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		-4	-10	7	-2	-16	-23	-21	-17

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: $L_{W(Oct\ or\ A)} = k \cdot \log(q) + L_0$

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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	0.0341	Not measured	k Lo	51.4 -36.0	5.4 22.6	247.2 -323.8	42.7 -15.8	68.5 -66.0	78.6 -92.8	102.2 -130.6	4.9 6.9	5.2 11.2
D4	0.0407	Not measured	k Lo	104.7 -111.7	50.0 -41.6	71.4 -68.4	135.6 -150.9	64.8 -54.7	91.8 -106.6	110.4 -140.8	32.5 -32.3	32.7 -29.7
D6	0.0466	Not measured	k Lo	76.9 -69.0	36.4 -20.0	53.7 -40.9	66.6 -48.7	86.5 -83.2	93.3 -105.4	97.0 -118.2	53.8 -61.4	54.4 -59.4

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