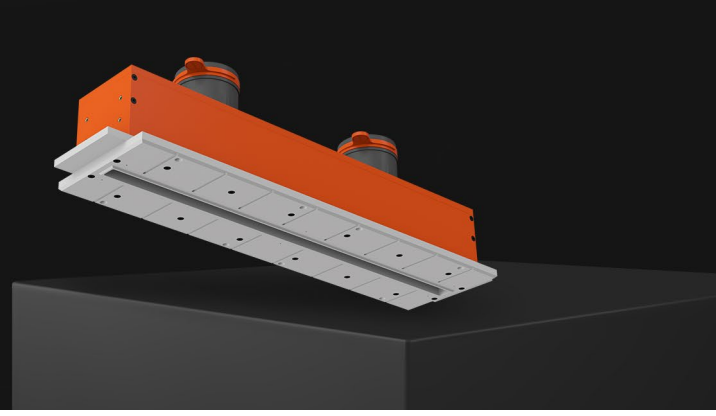


# ERGOVENT LINEO-600 PROFILE VERTICAL

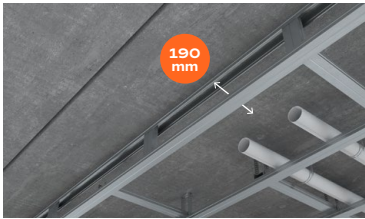
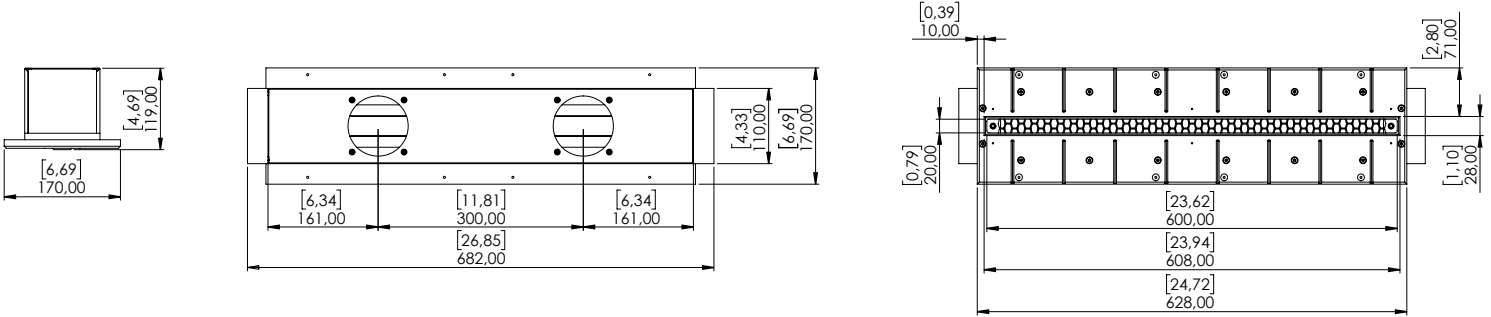
Hidden linear ventilation diffuser



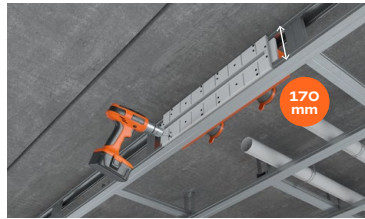
75 mm connections × 2 vnt / 1 slot × 600 mm × 20 mm / with damper

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.



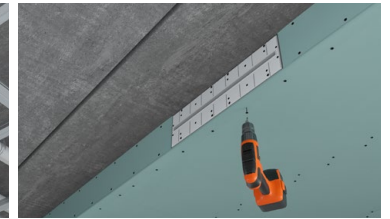
**Installation width between profiles:**  
190 mm / ≈ 7,48".



**Minimum installation height:**  
170 mm / ≈ 6,69".

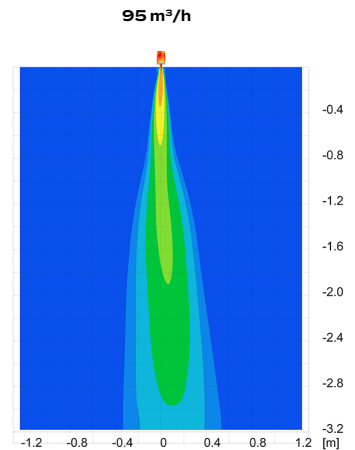
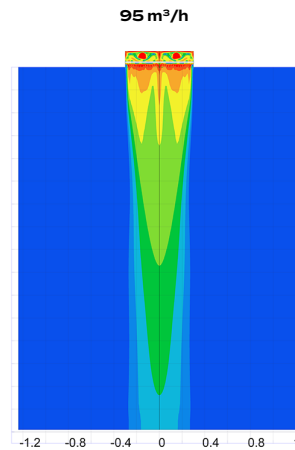
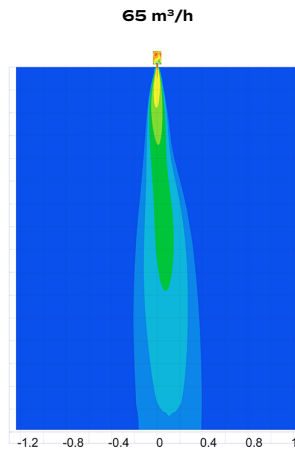
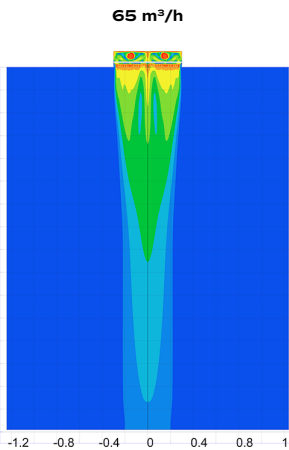
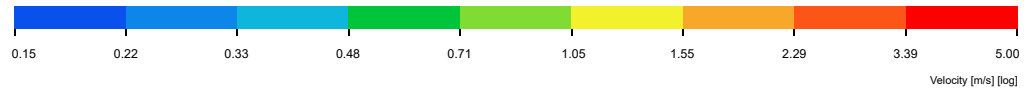


**Installation:** requires 17 cm clearance;  
one-person installation in minutes.



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

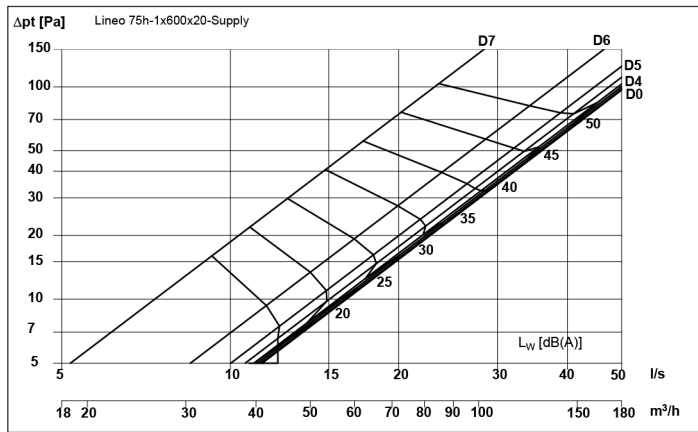
## THROW DISTANCE



# 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]	D <sub>pt</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>	-7	-1	5	0	-12	-20	-22	-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>DA</sub>

Calculation of pressure and sound effect according to flow:

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

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>t</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>]

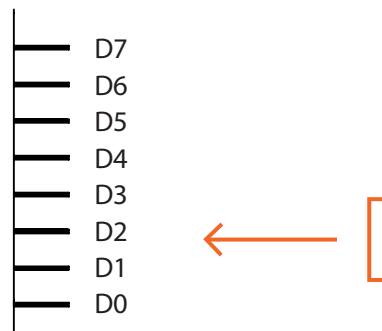
	Total p C <sub>plot</sub>	Balancing K-factor		L <sub>WA</sub>	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
D0	0.0385	Not measured	k Lo	67.1 -58.8	44.1 -35.3	57.6 -46.0	58.1 -42.2	71.1 -64.1	75.0 -81.2	93.3 -114.1	57.6 -67.3	58.4 -69.0
D1	0.0391	Not measured	k Lo	57.5 -44.1	69.9 -70.0	66.9 -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.



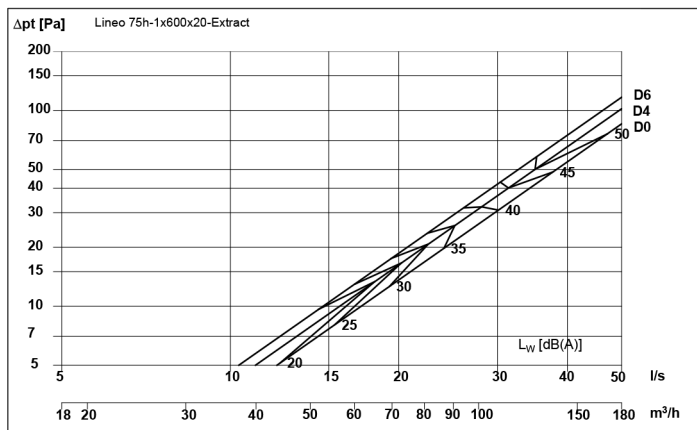
\* The damper-position gauge is supplied with the diffuser.

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 <sub>t</sub> [Pa]	L <sub>WA</sub> [dBA]	K <sub>oct</sub>	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<sub>t</sub> or L<sub>WA</sub>/L<sub>DA</sub>

Calculation of pressure and sound effect according to flow:

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

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>]

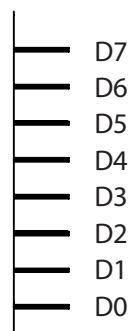
	Total p c <sub>ptot</sub>	Balancing K-factor		L <sub>WA</sub>	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
<b>D0</b>	0.0341	Not measured	k Lo	51.4 -36.0	5.4 22.6	247.2 -323.8	42.7 -15.8	68.5 -66.0	78.6 -92.8	102.2 -130.6	4.9 6.9	5.2 11.2
<b>D4</b>	0.0407	Not measured	k Lo	104.7 -111.7	50.0 -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
<b>D6</b>	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

## AIRFLOW BALANCING

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

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