ERGOVENT

LINEO PRO 150 CONDI

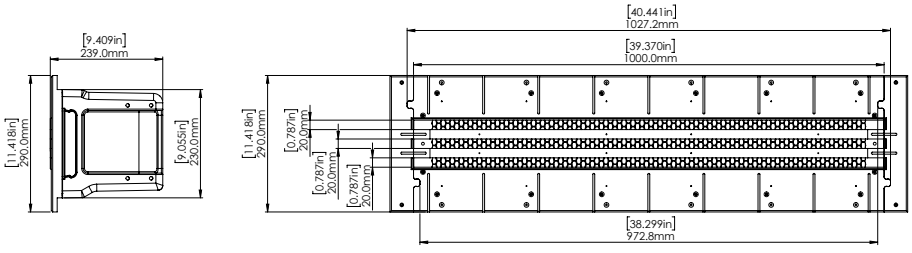
Hidden ventilation diffusers for air conditioning

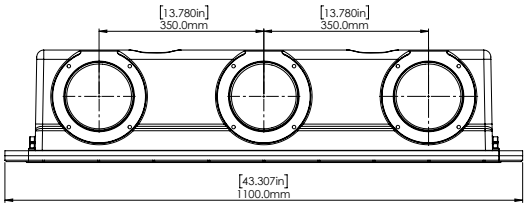
POSSIBLE TOP DUCT CONNECTION

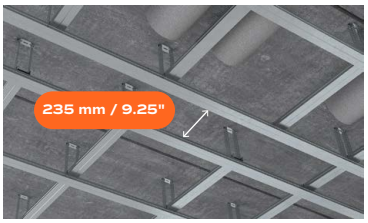
150 mm connection / 3 slot x 1000 mm x 20 mm / insulated

A recessed linear (slot) air diffuser designed for installation in plasterboard ceilings or walls. It is suitable for duct systems with a diameter of **150 mm**. The three diffuser slots are designed to allow **very high airflows**, typical of **cooling systems.** Plenum box is produced from EPP (ExpandedPolypropylene) ensuring optimal insulation.

After installation, the diffuser is plastered over and fully painted in the same color as the ceiling or wall. Only three minimalist slots remain visible, becoming a subtle and stylish interior design feature.



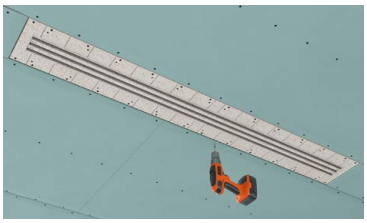




Installation width between profiles: 235 mm / 9.25"

Minimum installation height: 230 mm / 9.05"

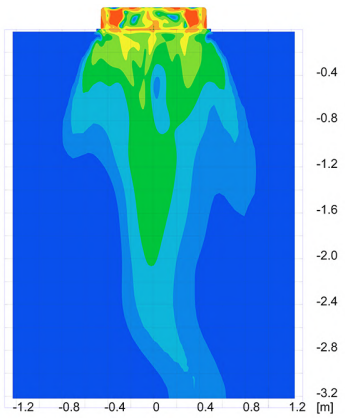
Patented technical solution: the PUZZLE LOCK system allows diffusers to be connected.



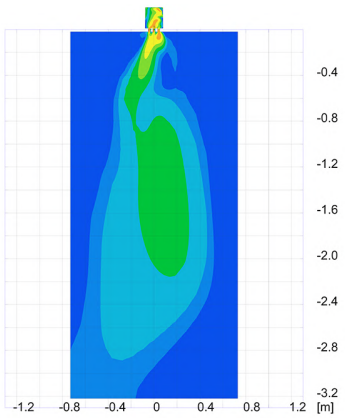
Important: During installation, **all fixing screws** must be fully tightened.

THROW DISTANCE

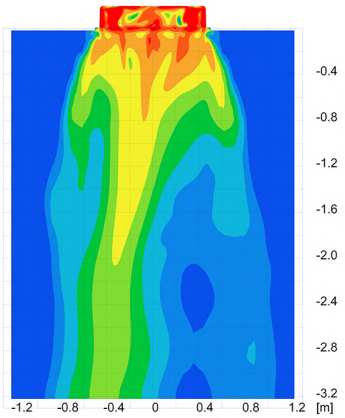
300 m³/h



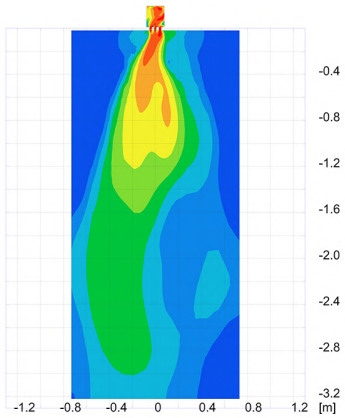
300 m³/h



650 m³/h



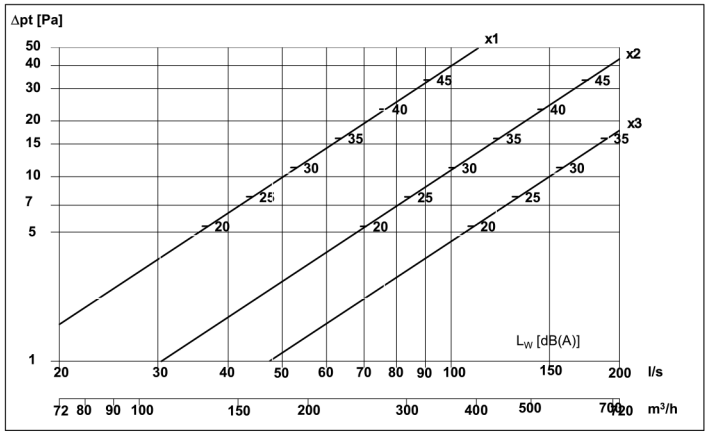
650 m³/h



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}	-37	-1	-2	0	-5	-13	-20	-25

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

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

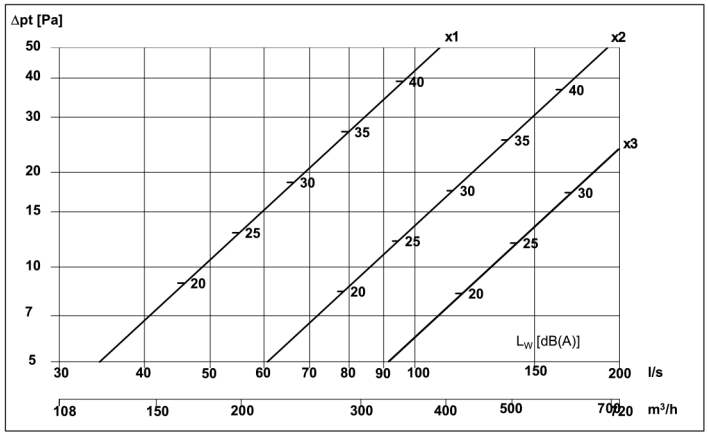
Balancing: $q = K_{factor} \cdot \sqrt{p_i}$

L_W - sound effect [dB]
k - factor, sound effect [-]
L_0 - addend, sound effect [-]
Δp_t - total pressuredrop [Pa]
c_{pt} - factor, total pressuredrop [Pa·s²/l²]
q - flow [l/s]
K_{factor} - factor, balancing [l/(s·√Pa)]
p_i - pressuredifference, balancing [Pa]

	Total p c_{ptot}	Balancing K-factor		LwA	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	0.0011	Not measured	k	63.1	78.4	52.8	55.5	55.0	80.2	105.7	87.6	88.1
			Lo	-96.7	-124.9	-73.4	-76.7	-80.5	-140.9	-200.2	-167.7	-170.9

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}	8	6	6	-3	-12	-16	-19	-20

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

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

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

L_W - sound effect [dB]
k - factor, sound effect [-]
L_0 - addend, sound effect [-]
Δp_t - total pressuredrop [Pa]
c_{pt} - factor, total pressuredrop [Pa·s²/l²]
q - flow [l/s]
K_{factor} - factor, balancing [l/(s·√Pa)]
p_i - pressuredifference, balancing [Pa]

	Total p c_{ptot}	Balancing K-factor		LwA	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
	0.0014	Not measured	k	62.3	50.8	51.9	66.4	54.2	66.7	77.0	58.9	59.4
			Lo	-98.0	-66.4	-70.2	-101.2	-83.8	-119.0	-144.5	-109.9	-111.9