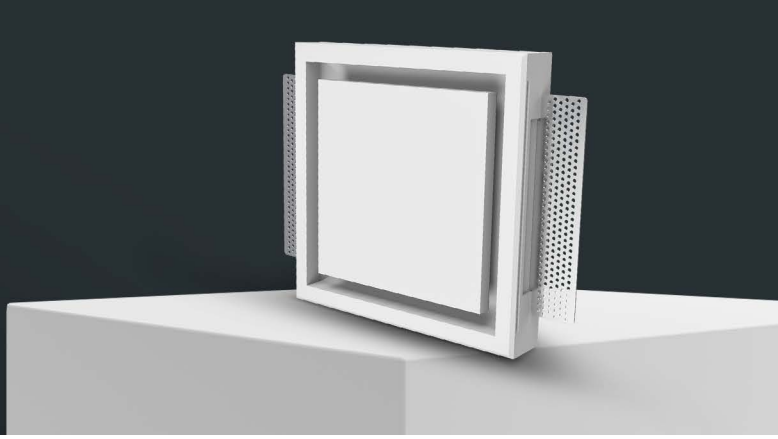
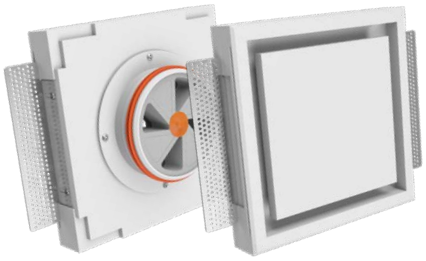
ERGOVENT

KVADRO 125

Hidden ventilation diffusers for ceilings and walls

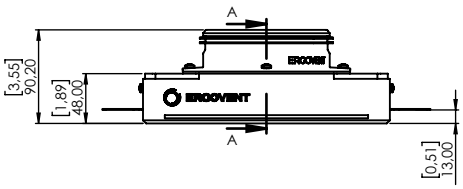


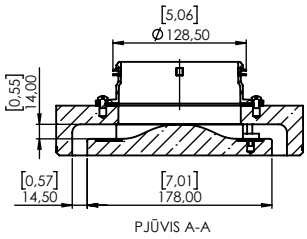


The airflow damper is included

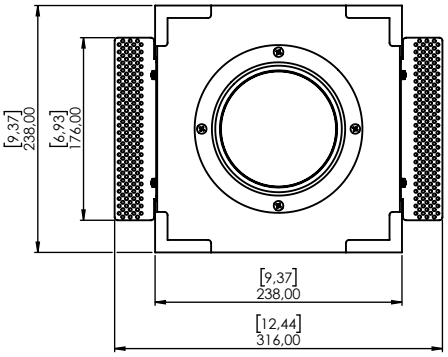
125 mm connection / with damper

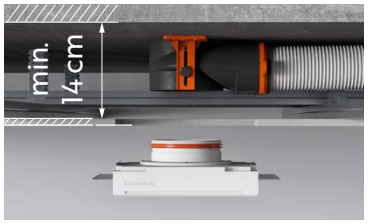
- Can be painted with the same paint as walls / ceilings.
- Dirt rings do not form around the diffusers.
- Easy, fast, simple installation.
- Suitable for single layer, double layer or custom thickness of plasterboard.
- Universal - A/C, ventilation, recuperation. suitable for both supply & exhaust.
- Safely packed (never gets damaged during transportation).





PJŪVIS A-A





Minimum installation height: 140 mm ≈ 5,51"

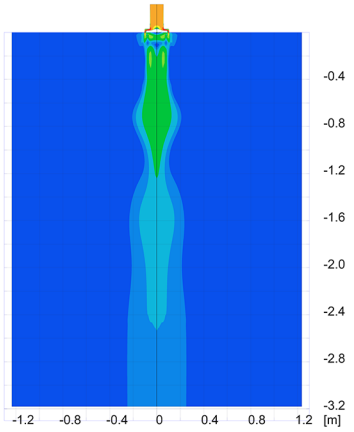
We recommend reinforcing the entire diffuser area with thin fiberglass mesh

Quick and easy installation

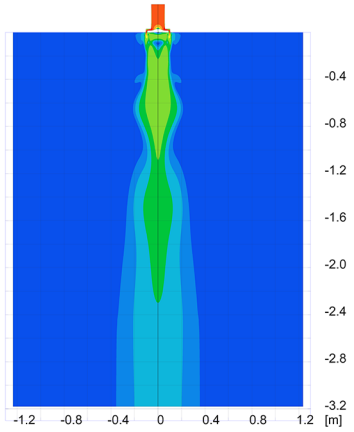
Airflow damper is included

THROW DISTANCE

70 m³/h



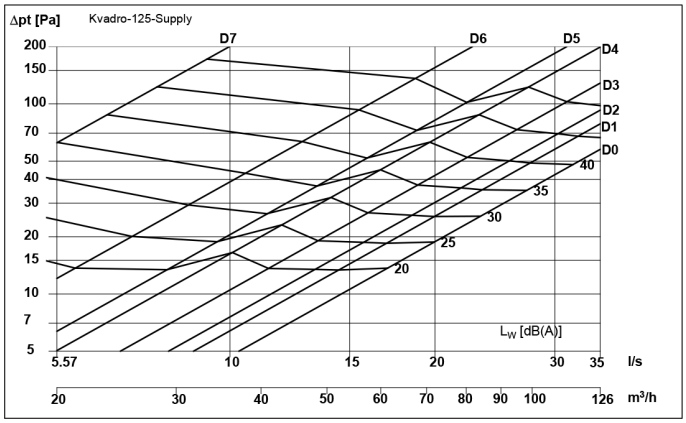
95 m³/h



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}	-4	1	1	-1	-6	-9	-17	-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: $L_{W(oct\ or\ A)} = k \cdot \log(q) + L_0$

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]

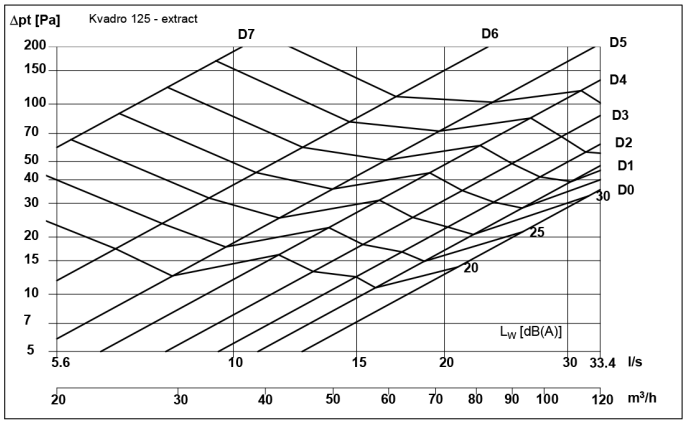
	Total p c_{ptot}	Balancing K-factor		LwA	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
D0	0.0471	Not measured	**k**	73.4	54.1	36.6	69.3	72.0	81.9	99.1	58.4	59.1
			Lo	-70.5	-42.5	-14.0	-61.6	-69.5	-90.5	-118.6	-68.8	-70.3
D1	0.0640	Not measured	**k**	71.0	42.0	45.8	68.2	73.4	67.0	83.5	81.1	81.5
			Lo	-62.3	-26.5	-24.6	-57.6	-67.2	-62.5	-89.2	-95.1	-99.6
D2	0.0757	Not measured	**k**	70.0	62.2	48.2	39.5	65.7	76.9	92.2	78.1	79.2
			Lo	-58.7	-56.6	-28.3	-16.8	-54.4	-73.9	-97.8	-87.6	-93.9
D3	0.1049	Not measured	**k**	68.4	41.6	49.6	49.5	61.0	75.0	89.2	76.1	77.6
			Lo	-52.3	-24.9	-28.3	-27.1	-44.4	-66.5	-87.7	-79.7	-84.7
D4	0.1624	Not measured	**k**	69.0	41.0	32.2	70.0	64.6	71.4	79.7	59.9	60.0
			Lo	-49.2	-15.9	-6.2	-51.7	-45.7	-57.2	-70.6	-55.0	-56.5
D5	0.2051	Not measured	**k**	68.2	14.6	37.2	49.6	63.4	74.5	76.0	83.1	84.3
			Lo	-41.9	12.3	-7.6	-20.7	-38.2	-54.1	-59.5	-75.6	-83.0
D6	0.3885	Not measured	**k**	60.0	66.7	30.8	50.1	59.4	60.6	71.6	78.3	79.2
			Lo	-26.4	-45.5	3.3	-15.0	-27.4	-32.7	-47.5	-62.0	-66.8
D7	2.0090	Not measured	**k**	68.4	65.3	43.4	67.7	60.6	68.2	74.8	81.4	82.3
			Lo	-16.1	-14.5	-3.4	-18.3	-13.1	-20.6	-27.9	-39.3	-44.6

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_t [Pa]	L_{WA} [dBA]			63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
-	-	33		K_{oct}	-2	-1	-1	-3	-5	-7	-15	-20

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

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
D0	0.0318	Not measured	**k**	53.2	34.6	54.4	44.5	53.9	54.3	87.1	49.9	50.3
			Lo	-50.1	-21.4	-51.4	-33.2	-52.6	-58.3	-116.1	-63.4	-63.1
D1	0.0425	Not measured	**k**	71.6	65.6	65.7	48.7	70.6	71.9	78.2	87.2	88.0
			Lo	-66.2	-64.1	-58.2	-34.0	-67.6	-71.7	-82.5	-104.2	-111.8
D2	0.0551	Not measured	**k**	76.3	112.3	50.6	79.7	54.9	78.4	84.6	86.2	87.2
			Lo	-69.6	-123.6	-36.1	-76.6	-43.6	-77.5	-87.4	-98.0	-106.5
D3	0.0779	Not measured	**k**	70.6	66.8	44.4	56.7	56.8	67.8	79.4	90.4	90.9
			Lo	-58.6	-55.2	-25.7	-43.4	-45.0	-59.8	-76.2	-98.4	-107.1
D4	0.1195	Not measured	**k**	69.5	59.9	24.5	46.5	69.4	74.2	73.7	79.4	80.1
			Lo	-54.0	-40.5	3.6	-26.4	-58.4	-65.1	-65.3	-80.7	-86.1
D5	0.1862	Not measured	**k**	65.6	56.5	58.9	62.6	57.9	61.3	74.3	82.3	83.3
			Lo	-39.9	-36.2	-35.0	-39.4	-34.6	-38.9	-56.9	-73.4	-81.3
D6	0.3755	Not measured	**k**	74.9	35.7	38.2	49.9	64.2	72.6	83.7	101.3	102.2
			Lo	-42.3	-2.8	-6.9	-19.7	-35.1	-44.2	-58.1	-83.4	-91.1
D7	1.8901	Not measured	**k**	72.5	101.3	98.9	58.5	73.3	71.1	72.5	78.3	78.3
			Lo	-25.7	-47.8	-52.6	-19.2	-31.4	-29.0	-31.3	-43.0	-48.9

no damper | 1 segment | 2 segments | 3 segments | 4 segments / full open | 4 segments / 75% open | 4 segments / 50% open | 4 segments / 25% open