



We design for quiet.

Acoustic solutions for air conditioners and heat pumps.
Designed around your equipment and your space.

HEAT PUMPS

HeatBox



FINISH SHOWN / ANTHRACITE

Thermal comfort. Acoustic care.

Acoustic enclosures for air-to-water heat pumps, specified according to the equipment, ventilation and installation requirements. A solution combining noise protection and architectural integration, with attention to maintenance access.

Configurations

For equipment with one or two front-facing fans. Heat pumps with upward airflow require a dedicated configuration.

Design

Dimensions, air intake, discharge and manufacturer-specified clearances are assessed for each project.

 SINGLE-SPLIT AND MULTI-SPLIT AIR CONDITIONERS

ClimaBox



 FINISH SHOWN / IVORY

A discreet presence outdoors.

Sound-insulating enclosures for outdoor units of single-split and multi-split air conditioners. Selection is based on the equipment and available space, regardless of brand. The system type alone does not determine enclosure dimensions.

Existing installations

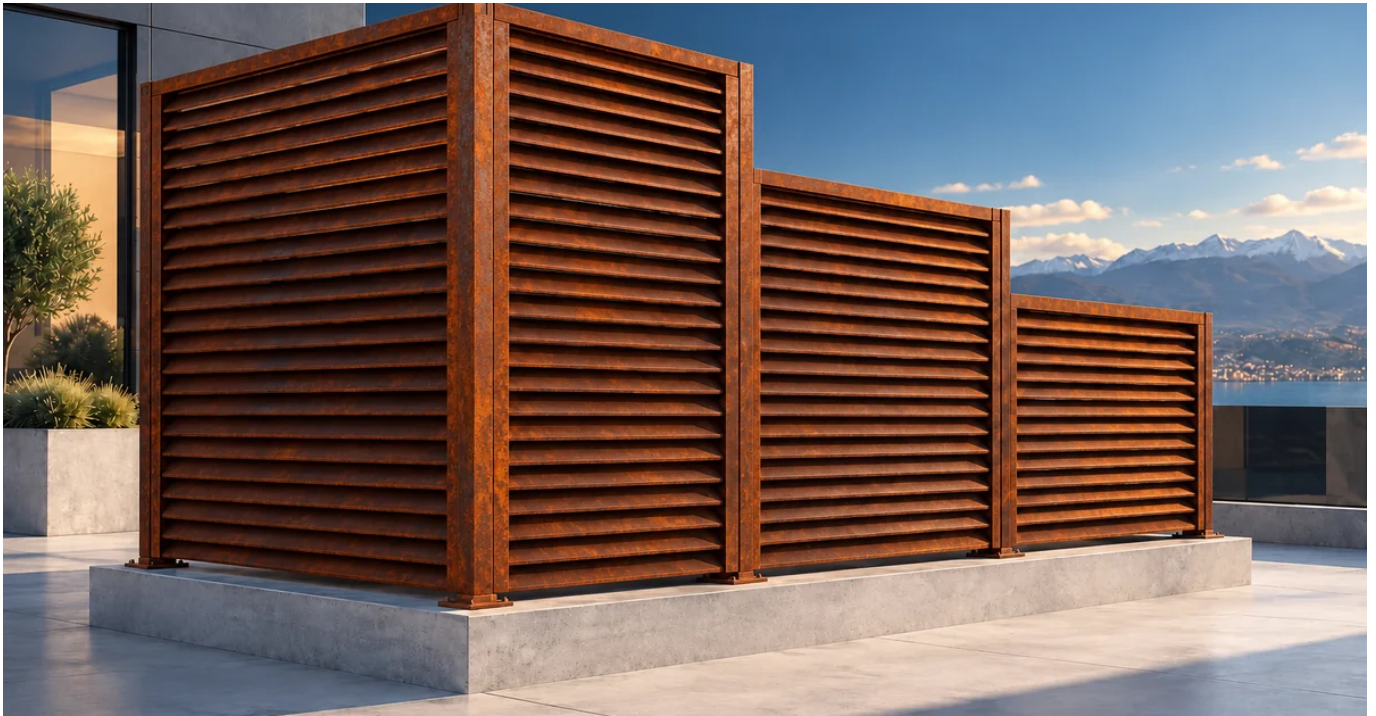
Existing equipment can also be assessed for treatment, subject to available space and operating conditions.

Integration

Finishes and proportions are considered alongside ventilation and access for servicing and maintenance.

SCREENS AND BESPOKE PROJECTS

Custom



FINISH SHOWN / CORTEN

When standard solutions fall short.

Solutions designed around the technical and architectural constraints of your installation. Bespoke screens and configurations address complex settings, considering sound propagation paths and integration into the surroundings.

A dedicated design

Geometry, module layout and access are defined according to the site and system requirements.

Finishes

Anthracite, ivory, brown and corten. Availability, specifications and finish conditions are defined in the proposal.

HEATBOX / CLIMABOX / CUSTOM

Design beyond the enclosure.

Acoustics and ventilation are assessed together to define the solution.

01 Acoustic objective

Sizing starts with equipment noise and the attenuation required. The frequency-band spectrum identifies the components to be treated: a single dB value cannot fully describe the solution's behaviour.

02 Airflow and pressure drop

Airflow Q and pressure drop Δp must be assessed together. Check with the equipment manufacturer that the fans provide the pressure reserve required to operate with the acoustic enclosure.

03 Air intake and discharge

Air paths are arranged to limit recirculation between intake and discharge. Opening positions, nearby obstacles and floor or wall installation influence the configuration.

04 Dimensions and maintenance

Equipment dimensions are not the external dimensions of the enclosure. Required clearances, connection space, service access, supports and condensate drainage must be considered.

05 A configuration for each installation

HeatBox and ClimaBox are assessed against the actual equipment; Custom addresses specific geometric or architectural constraints. Refrigerant type, operating conditions and manufacturer requirements form part of preliminary checks.

Materials, dimensions, weights, reaction-to-fire classes and performance must be specified for the proposed KlimaSilent solution.

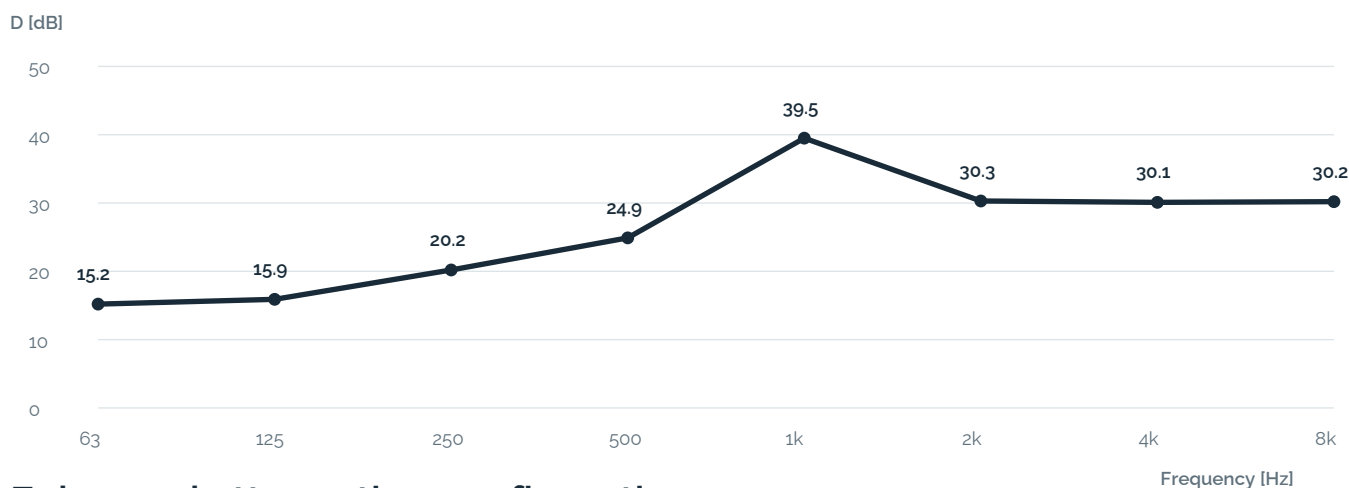
HEATBOX / CLIMABOX / CUSTOM

Floor installation.

Technical reference curves for design. Values by frequency band.

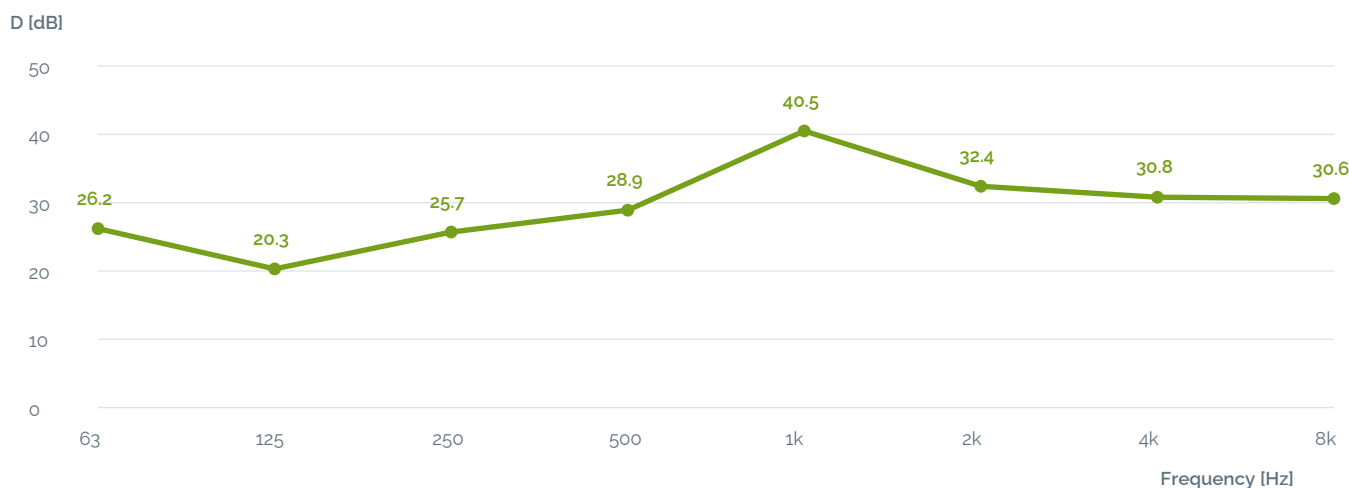
Standard configuration

Frequency [Hz]	63	125	250	500	1000	2000	4000	8000
Attenuation [dB]	15.2	15.9	20.2	24.9	39.5	30.3	30.1	30.2



Enhanced attenuation configuration

Frequency [Hz]	63	125	250	500	1000	2000	4000	8000
Attenuation [dB]	26.2	20.3	25.7	28.9	40.5	32.4	30.8	30.6



Reference data, not declared performance of the KlimaSilent range. Overall reduction in dB(A) and compliance with noise limits require assessment of the individual installation.

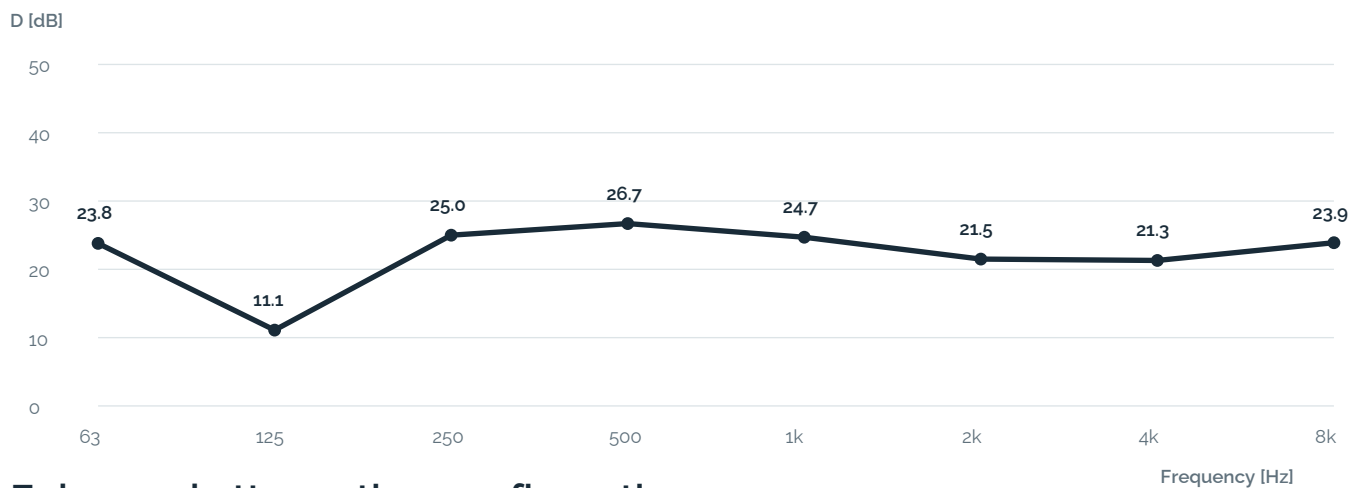
HEATBOX / CLIMABOX / CUSTOM

Wall installation.

Technical reference curves for design. Values by frequency band.

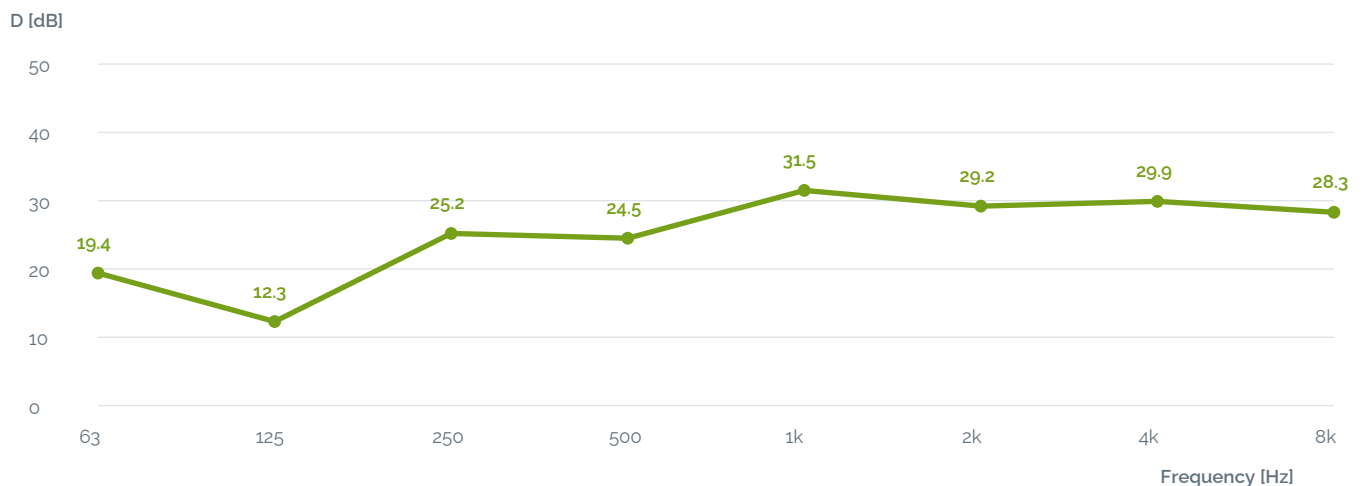
Standard configuration

Frequency [Hz]	63	125	250	500	1000	2000	4000	8000
Attenuation [dB]	23.8	11.1	25.0	26.7	24.7	21.5	21.3	23.9



Enhanced attenuation configuration

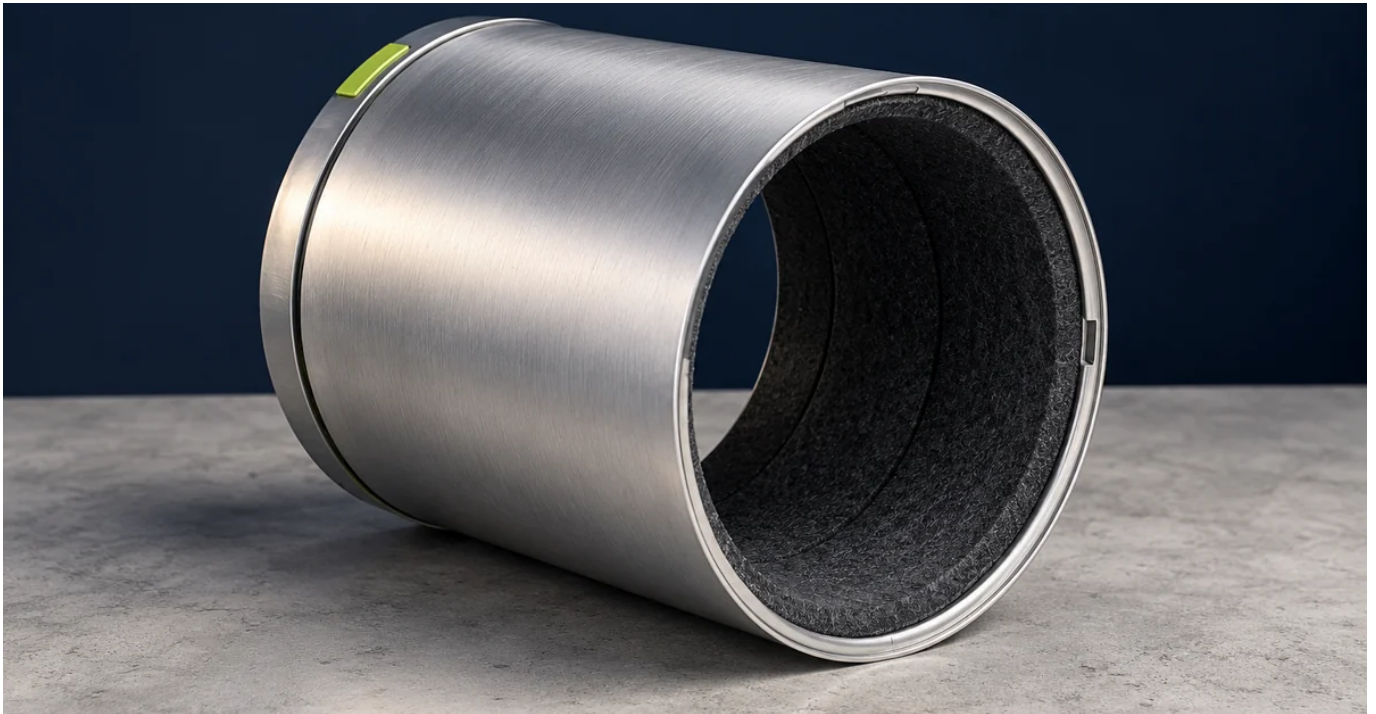
Frequency [Hz]	63	125	250	500	1000	2000	4000	8000
Attenuation [dB]	19.4	12.3	25.2	24.5	31.5	29.2	29.9	28.3



Reference data, not declared performance of the KlimaSilent range. Overall reduction in dB(A) and compliance with noise limits require assessment of the individual installation.

CIRCULAR SILENCERS FOR MONOBLOC UNITS

Silentube



APPLICATION / MONOBLOC AIR CONDITIONERS

A new approach. Inside the duct.

Removable acoustic cartridges for wall ducts of monobloc air conditioners without an outdoor unit. Designed to treat the air path, with particular attention to compatibility with existing ducts and grilles.

Ø162 / Ø202 mm

Variants for nominal 162 and 202 mm core drillings. These values identify the wall opening, not the internal duct diameter.

300 mm / Bespoke

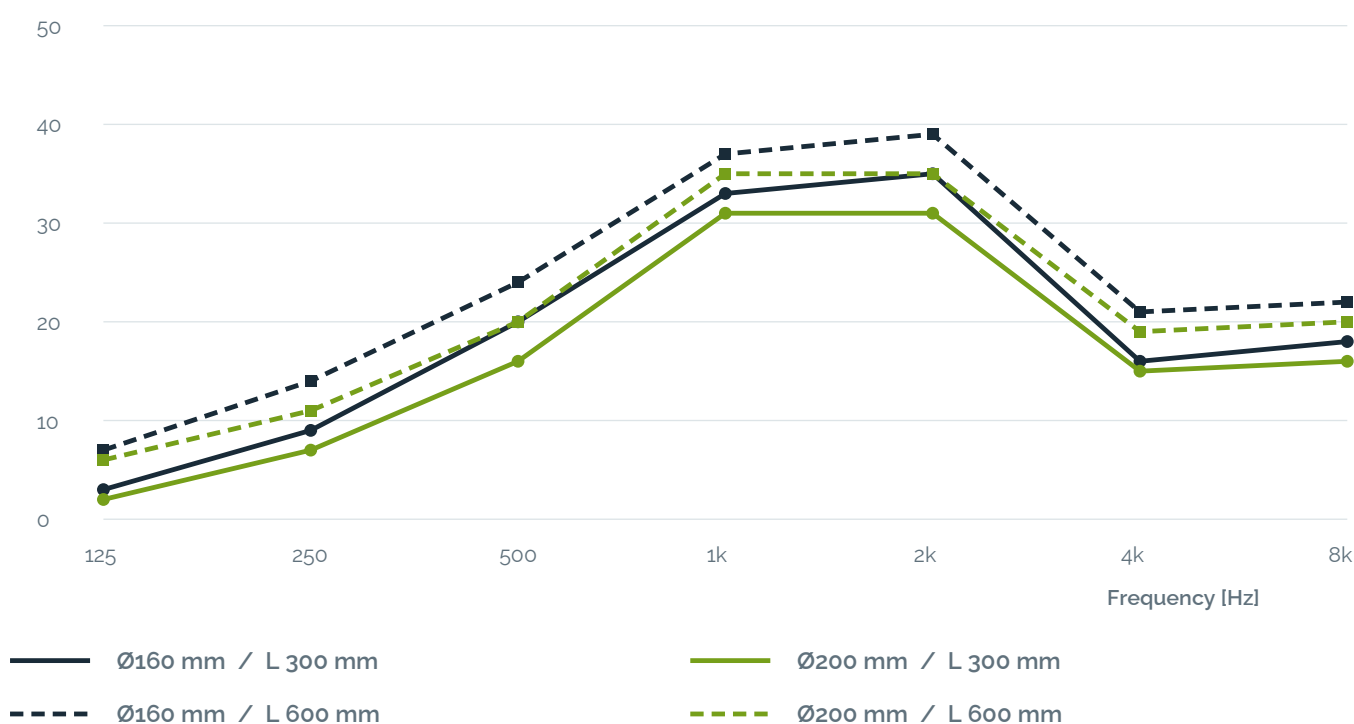
Standard length of 300 mm, with custom lengths available. Compatibility is checked before supply.

SILENTUBE / ACOUSTIC DATA

Attenuation by frequency.

Sizes Ø160 and Ø200 mm. Comparison of 300 mm and 600 mm lengths.

Attenuation [dB]



Attenuation values [dB]

Size / length	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Ø160 / L 300	3	9	20	33	35	16	18
Ø200 / L 300	2	7	16	31	31	15	16
Ø160 / L 600	7	14	24	37	39	21	22
Ø200 / L 600	6	11	20	35	35	19	20

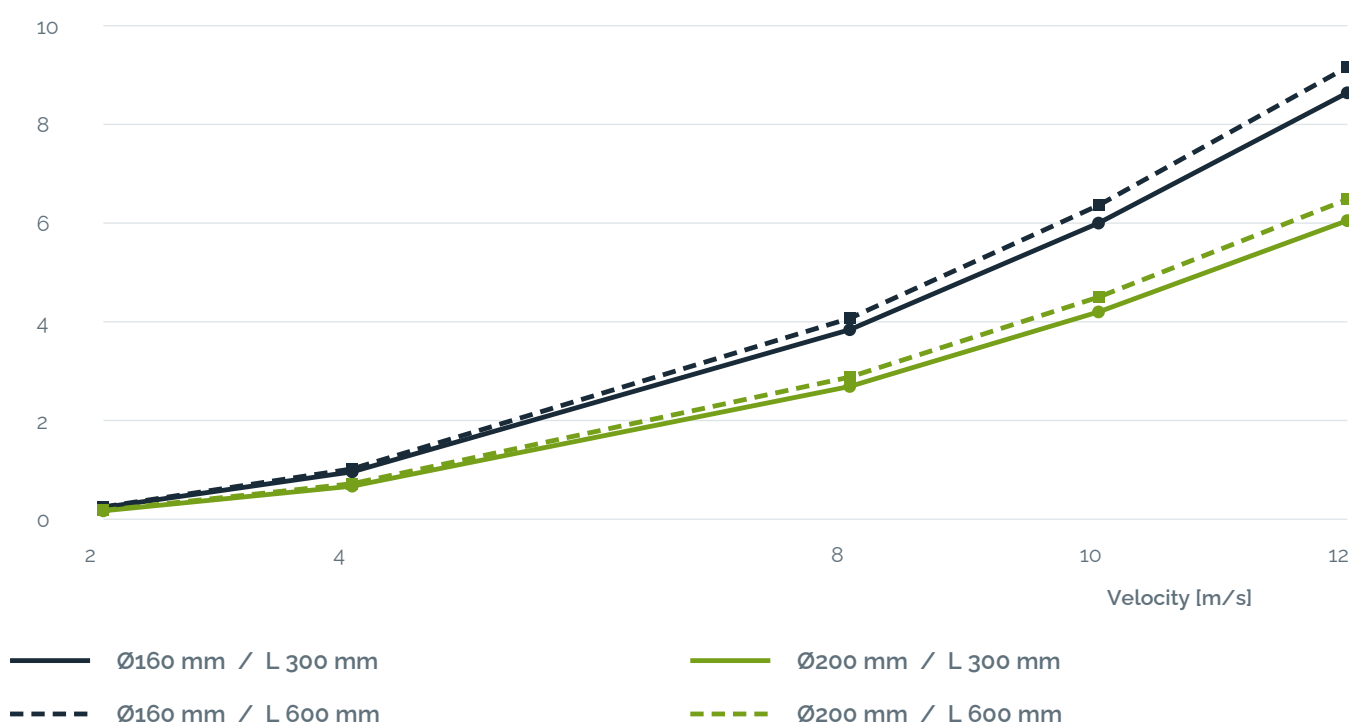
Values refer to individual frequencies and do not represent overall reduction in dB(A). Performance on the installation depends on the source spectrum and installation conditions.

SILENTUBE / AIRFLOW DATA

Pressure drop.

Pressure drop as a function of air velocity, for sizes Ø160 and Ø200 mm.

Pressure drop [Pa]



Pressure drop [Pa]

Size / length	2 m/s	4 m/s	8 m/s	10 m/s	12 m/s
Ø160 / L 300	0.24	0.96	3.84	6.00	8.64
Ø200 / L 300	0.17	0.67	2.69	4.20	6.05
Ø160 / L 600	0.25	1.02	4.07	6.36	9.16
Ø200 / L 600	0.18	0.72	2.88	4.50	6.48

Data taken from the supplied technical documentation, not from a test on the installation. The original chart for L 600 mm specifies a 50 mm insulation layer. The Ø160/Ø200 sizes in the data sheet differ from Ø162/Ø202 core drillings: compatibility must be checked.

— LET'S START WITH YOUR PROJECT

Make room for quiet.

01 Understand the context

Equipment, location and the needs of people living or working nearby.

02 Assess the solution

Ventilation, space, maintenance and acoustic objectives guide the configuration.

03 Define the proposal

Supply only or supply and installation, subject to feasibility and service coverage.

info@klimasilent.ch

klimasilent.ch

KlimaSilent is a commercial brand of Ferrari Group 77 Sagl.
Via A. Maspoli 11 · 6850 Mendrisio · Switzerland

Illustrative images. Compatibility, performance and supply conditions are defined for each project. Price also depends on the required sound attenuation. Site visits and any technical or acoustic surveys are quoted separately.