

INDUSTRIAL GRADE SILENCERS

Exhaust Silencer for Diesel and Natural Gas Generators

Cylindrical Body | Axial Inlet – Axial Outlet (AA) | 12 – 18 dBA | Model: AA-1-DD-A1HF / A1HD

DESCRIPTION

AXON Industrial Grade Silencers are designed for open-field and industrial-site installations where noise regulations are low. The fully reactive structure delivers 12–18 dBA insertion loss (IL) at minimum back-pressure.

FEATURES & BENEFITS

- Fully reactive design — no absorptive material/fiber required, lifetime performance
- Sizing compliant with ASHRAE TC 2.6 and HVAC Applications Handbook Ch. 48
- Low back-pressure (< 25 mbar, below the ISO 6798 limit)
- Fully welded construction — leak-tight, integral drain port
- Horizontal/vertical mounting brackets and lifting lugs

CONFIGURATION VARIANTS

Orientation: V (Vertical) — H (Horizontal)

End type: F (Flat) — D (Dished)

TYPICAL ATTENUATION CURVE

[ATTENUATION CURVE]

63 Hz – 8000 Hz octave band

Y: Sound Attenuation (dB) 0–60 / X: Frequency (Hz)

MATERIAL & MANUFACTURING STANDARD

- All carbon steels used are selected from high-temperature-resistant P235-265GH grade plates.
- All flanges are DIN 86044 grade. Standards other than this are optional.
- All silencers are coated with fire-resistant (high-temperature) paint.
- Stainless option: SS201, SS304 or SS316L (on request).

OPTIONAL ACCESSORIES

- Flexible connector (single/double-ply)
- Rain cap (carbon or stainless steel)
- 90° / 45° elbow (smooth/mitered)
- Exhaust stack and conical transitions
- Wall/roof thimble
- Wye connector (exhaust line merging)
- Hardware kit (bolts + graphite gasket)
- Thermal insulation blanket
- Spark arrestor

PRODUCT DIMENSIONS (MINIMUM DESIGN VALUES)

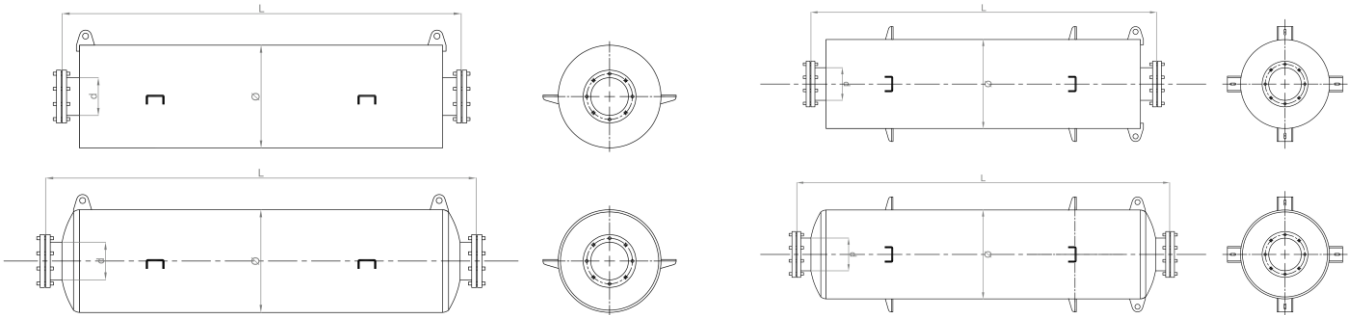
Model Code	Inlet Diameter (A)	Min. Body Diameter (Ø)	Min. Overall Length (L)	Typical Exhaust Flow	IL (dBA)
AA-1-04-A1HF	4" / DN100	6" / DN150	450 mm	0.45 m³/s	12 – 18
AA-1-05-A1HF	5" / DN125	8" / DN200	550 mm	0.70 m³/s	12 – 18
AA-1-06-A1HF	6" / DN150	10" / DN250	650 mm	1.00 m³/s	12 – 18
AA-1-08-A1HF	8" / DN200	12" / DN300	850 mm	1.60 m³/s	12 – 18
AA-1-10-A1HF	10" / DN250	16" / DN400	1050 mm	2.50 m³/s	12 – 18
AA-1-12-A1HF	12" / DN300	18" / DN450	1250 mm	3.60 m³/s	12 – 18
AA-1-14-A1HF	14" / DN350	22" / DN550	1450 mm	5.00 m³/s	12 – 18
AA-1-16-A1HF	16" / DN400	24" / DN600	1650 mm	6.50 m³/s	12 – 18
AA-1-18-A1HF	18" / DN450	28" / DN700	1850 mm	8.20 m³/s	12 – 18
AA-1-20-A1HF	20" / DN500	30" / DN750	2050 mm	10.20 m³/s	12 – 18
AA-1-22-A1HF	22" / DN550	34" / DN850	2250 mm	12.40 m³/s	12 – 18
AA-1-24-A1HF	24" / DN600	36" / DN900	2450 mm	14.80 m³/s	12 – 18

ASHRAE REFERENCE: According to ASHRAE Handbook — HVAC Applications, Chapter 48 (Noise and Vibration Control) and ASHRAE TC 2.6, for a silencer to qualify as Industrial grade, the body diameter must be at least at least 1.5 × the inlet diameter, the overall length at least at least 4 × the inlet diameter, and the insertion loss within the 12 – 18 dBA range. The body diameter and length values in the table are the minimum design values that satisfy these criteria.

MODEL CODE: AA Axial Inlet–Axial Outlet • 1 Single inlet (always 1 for axial inlet) • DD Inlet diameter (inch) • A Industrial grade • 1 Cylindrical body • H/V Horizontal/Vertical • F/D Flat/Dished end

NOTE: The values in the table are minimum design values; nominal tolerances ±2%. Design exhaust temperature 520 °C. Complies with ISO 6798 and ASHRAE TC 2.6. Custom sizes and configurations are manufactured on request.

CONFIGURATION DRAWINGS



RESIDENTIAL GRADE SILENCERS

Exhaust Silencer for Diesel and Natural Gas Generators

Cylindrical Body | Axial Inlet – Axial Outlet (AA) | 18 – 25 dBA | Model: AA-1-DD-B1HF / B1HD

DESCRIPTION

AXON Residential Grade Silencers are designed for diesel and natural-gas generator installations near light residential areas. The fully reactive structure delivers 18–25 dBA insertion loss (IL) at minimum back-pressure.

FEATURES & BENEFITS

- Fully reactive design — no absorptive material/fiber required, lifetime performance
- Sizing compliant with ASHRAE TC 2.6 and HVAC Applications Handbook Ch. 48
- Low back-pressure (< 25 mbar, below the ISO 6798 limit)
- Fully welded construction — leak-tight, integral drain port
- Horizontal/vertical mounting brackets and lifting lugs

CONFIGURATION VARIANTS

Orientation: V (Vertical) — H (Horizontal)

End type: F (Flat) — D (Dished)

TYPICAL ATTENUATION CURVE

[ATTENUATION CURVE]

63 Hz – 8000 Hz octave band

Y: Sound Attenuation (dB) 0–60 / X: Frequency (Hz)

MATERIAL & MANUFACTURING STANDARD

- All carbon steels used are selected from high-temperature-resistant P235-265GH grade plates.
- All flanges are DIN 86044 grade. Standards other than this are optional.
- All silencers are coated with fire-resistant (high-temperature) paint.
- Stainless option: SS201, SS304 or SS316L (on request).

OPTIONAL ACCESSORIES

- Flexible connector (single/double-ply)
- Rain cap (carbon or stainless steel)
- 90° / 45° elbow (smooth/mitered)
- Exhaust stack and conical transitions
- Wall/roof thimble
- Wye connector (exhaust line merging)
- Hardware kit (bolts + graphite gasket)
- Thermal insulation blanket
- Spark arrestor

PRODUCT DIMENSIONS (MINIMUM DESIGN VALUES)

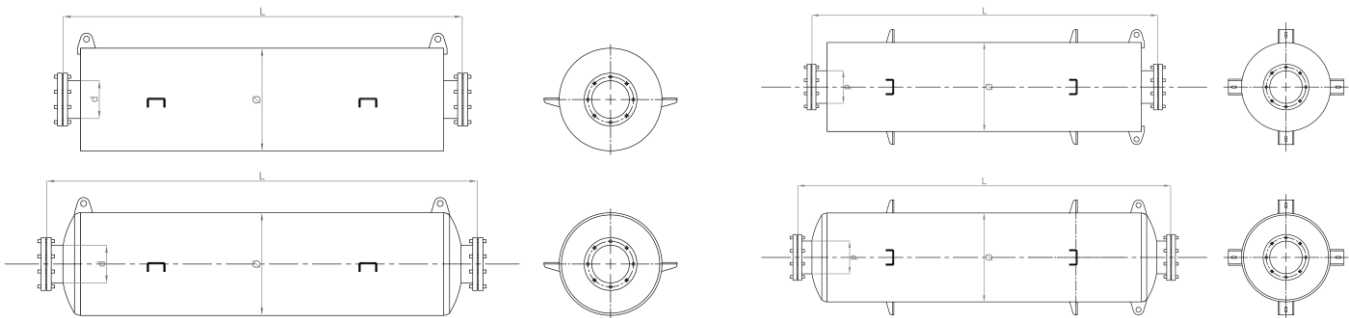
Model Code	Inlet Diameter (A)	Min. Body Diameter (Ø)	Min. Overall Length (L)	Typical Exhaust Flow	IL (dBA)
AA-1-04-B1HF	4" / DN100	8" / DN200	650 mm	0.45 m³/s	18 – 25
AA-1-05-B1HF	5" / DN125	10" / DN250	800 mm	0.70 m³/s	18 – 25
AA-1-06-B1HF	6" / DN150	12" / DN300	950 mm	1.00 m³/s	18 – 25
AA-1-08-B1HF	8" / DN200	16" / DN400	1250 mm	1.60 m³/s	18 – 25
AA-1-10-B1HF	10" / DN250	20" / DN500	1550 mm	2.50 m³/s	18 – 25
AA-1-12-B1HF	12" / DN300	24" / DN600	1850 mm	3.60 m³/s	18 – 25
AA-1-14-B1HF	14" / DN350	28" / DN700	2150 mm	5.00 m³/s	18 – 25
AA-1-16-B1HF	16" / DN400	32" / DN800	2450 mm	6.50 m³/s	18 – 25
AA-1-18-B1HF	18" / DN450	36" / DN900	2750 mm	8.20 m³/s	18 – 25
AA-1-20-B1HF	20" / DN500	40" / DN1000	3050 mm	10.20 m³/s	18 – 25
AA-1-22-B1HF	22" / DN550	44" / DN1100	3400 mm	12.40 m³/s	18 – 25
AA-1-24-B1HF	24" / DN600	48" / DN1200	3700 mm	14.80 m³/s	18 – 25

ASHRAE REFERENCE: According to ASHRAE Handbook — HVAC Applications, Chapter 48 (Noise and Vibration Control) and ASHRAE TC 2.6, for a silencer to qualify as Residential grade, the body diameter must be at least at least 2 × the inlet diameter, the overall length at least at least 6 × the inlet diameter, and the insertion loss within the 18 – 25 dBA range. The body diameter and length values in the table are the minimum design values that satisfy these criteria.

MODEL CODE: AA Axial Inlet–Axial Outlet • 1 Single inlet (always 1 for axial inlet) • DD Inlet diameter (inch) • B Residential grade • 1 Cylindrical body • H/V Horizontal/Vertical • F/D Flat/Dished end

NOTE: The values in the table are minimum design values; nominal tolerances ±2%. Design exhaust temperature 520 °C. Complies with ISO 6798 and ASHRAE TC 2.6. Custom sizes and configurations are manufactured on request.

CONFIGURATION DRAWINGS



CRITICAL GRADE SILENCERS

Exhaust Silencer for Diesel and Natural Gas Generators

Cylindrical Body | Axial Inlet – Axial Outlet (AA) | 25 – 35 dBA | Model: AA-Y-DD-C1HF / C1HD

DESCRIPTION

AXON Critical Grade Silencers are designed for diesel and natural-gas generator installations near hospitals, schools, hotels and urban residential areas. The fully reactive structure (expansion chamber + extended inlet) delivers 25–35 dBA insertion loss (IL) at minimum back-pressure.

FEATURES & BENEFITS

- Fully reactive design — no absorptive material/fiber required, lifetime performance
- Sizing compliant with ASHRAE TC 2.6 and HVAC Applications Handbook Ch. 48
- Low back-pressure (< 25 mbar, below the ISO 6798 limit)
- Fully welded construction — leak-tight, integral drain port
- Horizontal/vertical mounting brackets and lifting lugs

CONFIGURATION VARIANTS

Orientation: V (Vertical) — H (Horizontal)

End type: F (Flat) — D (Domed)

Inlet count: 1 or 2 for 4–8" • 1, 2 or 3 for 10–24"

MULTIPLE INLET VARIANTS

[DIAGRAM] Two Inlets — Same Axis	[DIAGRAM] Three Inlets — Same Axis	[DIAGRAM] Two Inlets — Perpendicular	[DIAGRAM] Two Inlets — Eccentric
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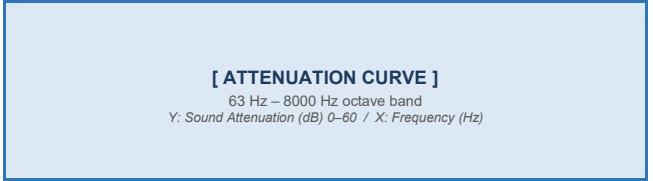
EQUIVALENT INLET DIAMETER

For configurations with two or more inlets, the equivalent inlet diameter is calculated as the square root of the sum of the squares of each inlet diameter:

$$D_{eq} = \sqrt{(D_1^2 + D_2^2 + \dots + D_n^2)}$$

Example: for 2 × 10" inlets → $D_{eq} = \sqrt{(2 \times 10^2)} = \sqrt{200} \approx 14.14"$; the next size up, a **16" inlet silencer**, is selected.

TYPICAL ATTENUATION CURVE



MATERIAL & MANUFACTURING STANDARD

- All carbon steels used are selected from high-temperature-resistant P235-265GH grade plates.
- All flanges are DIN 86044 grade. Standards other than this are optional.
- All silencers are coated with fire-resistant (high-temperature) paint.
- Stainless option: SS201, SS304 or SS316L (on request).

OPTIONAL ACCESSORIES

- Flexible connector (single/double-ply)
- Rain cap (carbon or stainless steel)
- 90° / 45° elbow (smooth/mitered)
- Exhaust stack and conical transitions
- Wall/roof thimble
- Wye connector (for dual/triple-inlet systems)
- Hardware kit (bolts + graphite gasket)
- Thermal insulation blanket
- Spark arrester

TYPICAL CONFIGURATIONS

[DIAGRAM] Horizontal — Flat End (AA-Y-DD-C1HF)	[DIAGRAM] Horizontal — Domed End (AA-Y-DD-C1HD)	[DIAGRAM] Vertical — Flat End (AA-Y-DD-C1VF)	[DIAGRAM] Vertical — Domed End (AA-Y-DD-C1VD)
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PRODUCT DIMENSIONS (MINIMUM DESIGN VALUES)

Model Code	Inlet Diameter (A)	Min. Body Diameter (Ø)	Min. Overall Length (L)	Typical Exhaust Flow	IL (dBA)
AA-1/2-04-C1HF	4" / DN100	10" / DN250	950 mm	0.45 m³/s	25–30
AA-1/2-05-C1HF	5" / DN125	14" / DN350	1200 mm	0.70 m³/s	25–31
AA-1/2-06-C1HF	6" / DN150	16" / DN400	1400 mm	1.00 m³/s	26–32
AA-1/2-08-C1HF	8" / DN200	20" / DN500	1850 mm	1.60 m³/s	27–33
AA-1/2/3-10-C1HF	10" / DN250	26" / DN650	2300 mm	2.50 m³/s	28–33
AA-1/2/3-12-C1HF	12" / DN300	30" / DN750	2750 mm	3.60 m³/s	28–34
AA-1/2/3-14-C1HF	14" / DN350	36" / DN900	3200 mm	5.00 m³/s	29–34
AA-1/2/3-16-C1HF	16" / DN400	40" / DN1000	3700 mm	6.50 m³/s	29–34
AA-1/2/3-18-C1HF	18" / DN450	46" / DN1150	4150 mm	8.20 m³/s	30–35
AA-1/2/3-20-C1HF	20" / DN500	50" / DN1250	4600 mm	10.20 m³/s	30–35
AA-1/2/3-22-C1HF	22" / DN550	56" / DN1400	5050 mm	12.40 m³/s	30–35
AA-1/2/3-24-C1HF	24" / DN600	60" / DN1500	5500 mm	14.80 m³/s	30–35

ASHRAE REFERENCE: According to ASHRAE Handbook — HVAC Applications, Chapter 48 (Noise and Vibration Control) and ASHRAE TC 2.6, for a silencer to qualify as **Critical grade**, the body diameter must be at least **2.5 × the inlet diameter**, the overall length at least **9 × the inlet diameter**, and the insertion loss within the **25–35 dBA** range. The body diameter and length values in the table are the minimum design values that satisfy these criteria.

MODEL CODE: **AA** Axial Inlet–Axial Outlet • **Y** Inlet count (1/2 → ≤8" inlet ; 1/2/3 → ≥10" inlet) • **DD** Inlet diameter (inch) • **C** Critical grade • **1** Cylindrical body • **H/V** Horizontal/Vertical • **F/D** Flat/Domed end

NOTE: The values in the table are minimum design values; nominal tolerances ±2%. Design exhaust temperature 520 °C. Complies with ISO 6798 and ASHRAE TC 2.6. Custom sizes and configurations are manufactured on request.

CRITICAL GRADE SILENCERS

Exhaust Silencer for Diesel and Natural Gas Generators

Cylindrical Body | Axial Inlet – Axial Outlet (AA) | 25 – 35 dBA | Model: AA-1-DD-C1HF / C1HD

DESCRIPTION

AXON Critical Grade Silencers are designed for diesel and natural-gas generator installations near hospitals, schools, hotels and urban residential areas. The fully reactive structure (expansion chamber + extended inlet) delivers 25–35 dBA insertion loss (IL) at minimum back-pressure.

FEATURES & BENEFITS

- Fully reactive design — no absorptive material/fiber required, lifetime performance
- Sizing compliant with ASHRAE TC 2.6 and HVAC Applications Handbook Ch. 48
- Low back-pressure (< 25 mbar, below the ISO 6798 limit)
- Fully welded construction — leak-tight, integral drain port
- Horizontal/vertical mounting brackets and lifting lugs

CONFIGURATION VARIANTS

Orientation: V (Vertical) — H (Horizontal)

End type: F (Flat) — D (Dished)

TYPICAL ATTENUATION CURVE

[ATTENUATION CURVE]

63 Hz – 8000 Hz octave band
Y: Sound Attenuation (dB) 0–60 / X: Frequency (Hz)

MATERIAL & MANUFACTURING STANDARD

- All carbon steels used are selected from high-temperature-resistant P235-265GH grade plates.
- All flanges are DIN 86044 grade. Standards other than this are optional.
- All silencers are coated with fire-resistant (high-temperature) paint.
- Stainless option: SS201, SS304 or SS316L (on request).

OPTIONAL ACCESSORIES

- Flexible connector (single/double-ply)
- Rain cap (carbon or stainless steel)
- 90° / 45° elbow (smooth/mitered)
- Exhaust stack and conical transitions
- Wall/roof thimble
- Wye connector (exhaust line merging)
- Hardware kit (bolts + graphite gasket)
- Thermal insulation blanket
- Spark arrestor

PRODUCT DIMENSIONS (MINIMUM DESIGN VALUES)

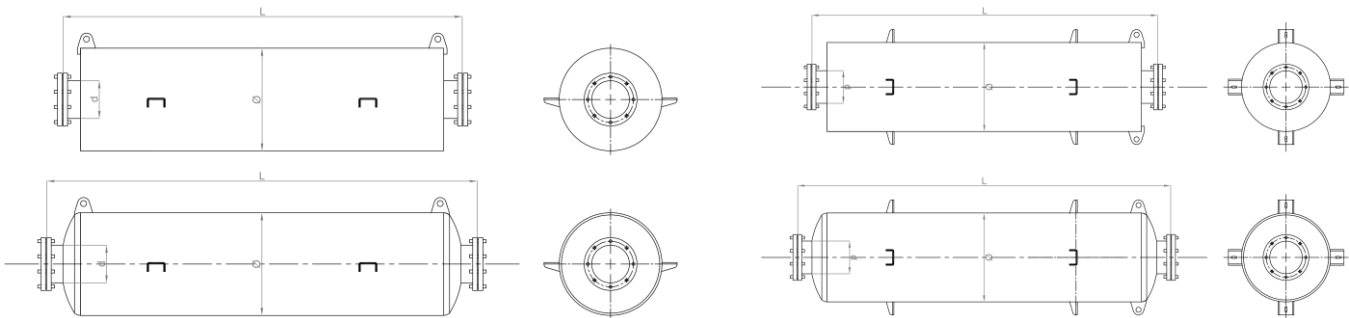
Model Code	Inlet Diameter (A)	Min. Body Diameter (Ø)	Min. Overall Length (L)	Typical Exhaust Flow	IL (dBA)
AA-1-04-C1HF	4" / DN100	10" / DN250	950 mm	0.45 m³/s	25 – 35
AA-1-05-C1HF	5" / DN125	14" / DN350	1150 mm	0.70 m³/s	25 – 35
AA-1-06-C1HF	6" / DN150	16" / DN400	1400 mm	1.00 m³/s	25 – 35
AA-1-08-C1HF	8" / DN200	20" / DN500	1850 mm	1.60 m³/s	25 – 35
AA-1-10-C1HF	10" / DN250	26" / DN650	2300 mm	2.50 m³/s	25 – 35
AA-1-12-C1HF	12" / DN300	30" / DN750	2750 mm	3.60 m³/s	25 – 35
AA-1-14-C1HF	14" / DN350	36" / DN900	3250 mm	5.00 m³/s	25 – 35
AA-1-16-C1HF	16" / DN400	40" / DN1000	3700 mm	6.50 m³/s	25 – 35
AA-1-18-C1HF	18" / DN450	46" / DN1150	4150 mm	8.20 m³/s	25 – 35
AA-1-20-C1HF	20" / DN500	50" / DN1250	4600 mm	10.20 m³/s	25 – 35
AA-1-22-C1HF	22" / DN550	56" / DN1400	5050 mm	12.40 m³/s	25 – 35
AA-1-24-C1HF	24" / DN600	60" / DN1500	5500 mm	14.80 m³/s	25 – 35

ASHRAE REFERENCE: According to ASHRAE Handbook — HVAC Applications, Chapter 48 (Noise and Vibration Control) and ASHRAE TC 2.6, for a silencer to qualify as Critical grade, the body diameter must be at least **at least 2.5 × the inlet diameter**, the overall length at least **at least 9 × the inlet diameter**, and the insertion loss within the **25 – 35 dBA** range. The body diameter and length values in the table are the minimum design values that satisfy these criteria.

MODEL CODE: AA Axial Inlet–Axial Outlet • 1 Single inlet (always 1 for axial inlet) • DD Inlet diameter (inch) • C Critical grade • 1 Cylindrical body • H/V Horizontal/Vertical • F/D Flat/Dished end

NOTE: The values in the table are minimum design values; nominal tolerances ±2%. Design exhaust temperature 520 °C. Complies with ISO 6798 and ASHRAE TC 2.6. Custom sizes and configurations are manufactured on request.

CONFIGURATION DRAWINGS



EXTRA CRITICAL GRADE SILENCERS

Exhaust Silencer for Diesel and Natural Gas Generators

Cylindrical Body | Axial Inlet – Axial Outlet (AA) | 45 – 55 dBA | Model: AA-1-DD-E1HF / E1HD

DESCRIPTION

AXON Extra Critical Grade Silencers are designed for studios, near night-residential and the most noise-sensitive installations. The combined reactive + absorptive structure delivers 45–55 dBA insertion loss (IL) at minimum back-pressure.

FEATURES & BENEFITS

- Combined reactive + absorptive design — maximum broadband attenuation
- Sizing compliant with ASHRAE TC 2.6 and HVAC Applications Handbook Ch. 48
- Low back-pressure (< 25 mbar, below the ISO 6798 limit)
- Fully welded construction — leak-tight, integral drain port
- Horizontal/vertical mounting brackets and lifting lugs

CONFIGURATION VARIANTS

Orientation: V (Vertical) — H (Horizontal)

End type: F (Flat) — D (Dished)

TYPICAL ATTENUATION CURVE

[ATTENUATION CURVE]

63 Hz – 8000 Hz octave band

Y: Sound Attenuation (dB) 0–60 / X: Frequency (Hz)

MATERIAL & MANUFACTURING STANDARD

- All carbon steels used are selected from high-temperature-resistant P235-265GH grade plates.
- All flanges are DIN 86044 grade. Standards other than this are optional.
- All silencers are coated with fire-resistant (high-temperature) paint.
- Stainless option: SS201, SS304 or SS316L (on request).

OPTIONAL ACCESSORIES

- Flexible connector (single/double-ply)
- Rain cap (carbon or stainless steel)
- 90° / 45° elbow (smooth/mitered)
- Exhaust stack and conical transitions
- Wall/roof thimble
- Wye connector (exhaust line merging)
- Hardware kit (bolts + graphite gasket)
- Thermal insulation blanket
- Spark arrestor

PRODUCT DIMENSIONS (MINIMUM DESIGN VALUES)

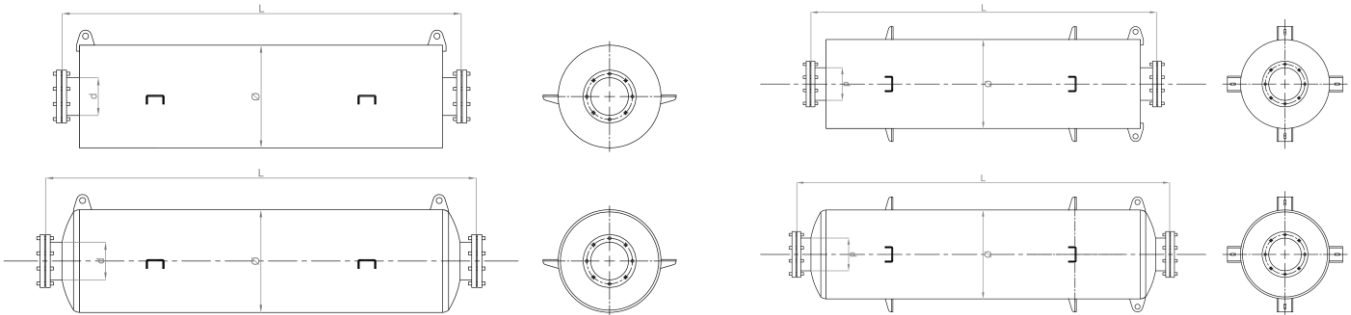
Model Code	Inlet Diameter (A)	Min. Body Diameter (Ø)	Min. Overall Length (L)	Typical Exhaust Flow	IL (dBA)
AA-1-04-E1HF	4" / DN100	12" / DN300	1650 mm	0.45 m³/s	45 – 55
AA-1-05-E1HF	5" / DN125	16" / DN400	2050 mm	0.70 m³/s	45 – 55
AA-1-06-E1HF	6" / DN150	18" / DN450	2450 mm	1.00 m³/s	45 – 55
AA-1-08-E1HF	8" / DN200	24" / DN600	3300 mm	1.60 m³/s	45 – 55
AA-1-10-E1HF	10" / DN250	30" / DN750	4100 mm	2.50 m³/s	45 – 55
AA-1-12-E1HF	12" / DN300	36" / DN900	4900 mm	3.60 m³/s	45 – 55
AA-1-14-E1HF	14" / DN350	42" / DN1050	5700 mm	5.00 m³/s	45 – 55
AA-1-16-E1HF	16" / DN400	48" / DN1200	6550 mm	6.50 m³/s	45 – 55
AA-1-18-E1HF	18" / DN450	54" / DN1350	7350 mm	8.20 m³/s	45 – 55
AA-1-20-E1HF	20" / DN500	60" / DN1500	8150 mm	10.20 m³/s	45 – 55
AA-1-22-E1HF	22" / DN550	66" / DN1650	8950 mm	12.40 m³/s	45 – 55
AA-1-24-E1HF	24" / DN600	72" / DN1800	9800 mm	14.80 m³/s	45 – 55

ASHRAE REFERENCE: According to ASHRAE Handbook — HVAC Applications, Chapter 48 (Noise and Vibration Control) and ASHRAE TC 2.6, for a silencer to qualify as Extra Critical grade, the body diameter must be at least **at least 3 × the inlet diameter**, the overall length at least **at least 16 × the inlet diameter**, and the insertion loss within the **45 – 55 dBA** range. The body diameter and length values in the table are the minimum design values that satisfy these criteria.

MODEL CODE: AA Axial Inlet–Axial Outlet • 1 Single inlet (always 1 for axial inlet) • DD Inlet diameter (inch) • E Extra Critical grade • 1 Cylindrical body • H/V Horizontal/Vertical • F/D Flat/Dished end

NOTE: The values in the table are minimum design values; nominal tolerances ±2%. Design exhaust temperature 520 °C. Complies with ISO 6798 and ASHRAE TC 2.6. Custom sizes and configurations are manufactured on request.

CONFIGURATION DRAWINGS



SUPER CRITICAL GRADE SILENCERS

Exhaust Silencer for Diesel and Natural Gas Generators

Cylindrical Body | Axial Inlet – Axial Outlet (AA) | 35 – 45 dBA | Model: AA-1-DD-D1HF / D1HD

DESCRIPTION

AXON Super Critical Grade Silencers are designed for hospitals, data centers and highly noise-sensitive urban installations. The fully reactive structure delivers 35–45 dBA insertion loss (IL) at minimum back-pressure.

FEATURES & BENEFITS

- Fully reactive design — no absorptive material/fiber required, lifetime performance
- Sizing compliant with ASHRAE TC 2.6 and HVAC Applications Handbook Ch. 48
- Low back-pressure (< 25 mbar, below the ISO 6798 limit)
- Fully welded construction — leak-tight, integral drain port
- Horizontal/vertical mounting brackets and lifting lugs

CONFIGURATION VARIANTS

Orientation: V (Vertical) — H (Horizontal)

End type: F (Flat) — D (Dished)

TYPICAL ATTENUATION CURVE

[ATTENUATION CURVE]

63 Hz – 8000 Hz octave band

Y: Sound Attenuation (dB) 0–60 / X: Frequency (Hz)

MATERIAL & MANUFACTURING STANDARD

- All carbon steels used are selected from high-temperature-resistant P235-265GH grade plates.
- All flanges are DIN 86044 grade. Standards other than this are optional.
- All silencers are coated with fire-resistant (high-temperature) paint.
- Stainless option: SS201, SS304 or SS316L (on request).

OPTIONAL ACCESSORIES

- Flexible connector (single/double-ply)
- Rain cap (carbon or stainless steel)
- 90° / 45° elbow (smooth/mitered)
- Exhaust stack and conical transitions
- Wall/roof thimble
- Wye connector (exhaust line merging)
- Hardware kit (bolts + graphite gasket)
- Thermal insulation blanket
- Spark arrestor

PRODUCT DIMENSIONS (MINIMUM DESIGN VALUES)

Model Code	Inlet Diameter (A)	Min. Body Diameter (Ø)	Min. Overall Length (L)	Typical Exhaust Flow	IL (dBA)
AA-1-04-D1HF	4" / DN100	12" / DN300	1050 mm	0.45 m³/s	35 – 45
AA-1-05-D1HF	5" / DN125	16" / DN400	1300 mm	0.70 m³/s	35 – 45
AA-1-06-D1HF	6" / DN150	18" / DN450	1550 mm	1.00 m³/s	35 – 45
AA-1-08-D1HF	8" / DN200	24" / DN600	2050 mm	1.60 m³/s	35 – 45
AA-1-10-D1HF	10" / DN250	30" / DN750	2550 mm	2.50 m³/s	35 – 45
AA-1-12-D1HF	12" / DN300	36" / DN900	3050 mm	3.60 m³/s	35 – 45
AA-1-14-D1HF	14" / DN350	42" / DN1050	3600 mm	5.00 m³/s	35 – 45
AA-1-16-D1HF	16" / DN400	48" / DN1200	4100 mm	6.50 m³/s	35 – 45
AA-1-18-D1HF	18" / DN450	54" / DN1350	4600 mm	8.20 m³/s	35 – 45
AA-1-20-D1HF	20" / DN500	60" / DN1500	5100 mm	10.20 m³/s	35 – 45
AA-1-22-D1HF	22" / DN550	66" / DN1650	5600 mm	12.40 m³/s	35 – 45
AA-1-24-D1HF	24" / DN600	72" / DN1800	6100 mm	14.80 m³/s	35 – 45

ASHRAE REFERENCE: According to ASHRAE Handbook — HVAC Applications, Chapter 48 (Noise and Vibration Control) and ASHRAE TC 2.6, for a silencer to qualify as Super Critical grade, the body diameter must be at least at least 3 × the inlet diameter, the overall length at least at least 10 × the inlet diameter, and the insertion loss within the 35 – 45 dBA range. The body diameter and length values in the table are the minimum design values that satisfy these criteria.

MODEL CODE: AA Axial Inlet–Axial Outlet • 1 Single inlet (always 1 for axial inlet) • DD Inlet diameter (inch) • D Super Critical grade • 1 Cylindrical body • H/V Horizontal/Vertical • F/D Flat/Dished end

NOTE: The values in the table are minimum design values; nominal tolerances ±2%. Design exhaust temperature 520 °C. Complies with ISO 6798 and ASHRAE TC 2.6. Custom sizes and configurations are manufactured on request.

CONFIGURATION DRAWINGS

