



Parratech Exhaust Gas Silencers

Product Overview

Parratech Exhaust Gas Silencers are designed, engineered and manufactured to meet the stringent requirements of today's increasingly sensitive sound pollution environment.

Parratech's particular attention to details, including engine types, design constraints attenuation requirements, physical layouts along with allowable system back pressure, gas velocities, insertion losses ect result in proven engineering methodology.

Parratech places very high emphasis on its 'solution based' philosophy. Our engineers and consultants work with clients, specialist industry engineers, planning departments and Environmental Regulators to ensure pragmatic solutions are achieved in a vast cross section of applications.

Our attention to detail and quality has earned us a formidable reputation abroad. We offer consistently proven, tailored solutions to provide our clients superior control of their operation and peace of mind in any project.



Typical Applications

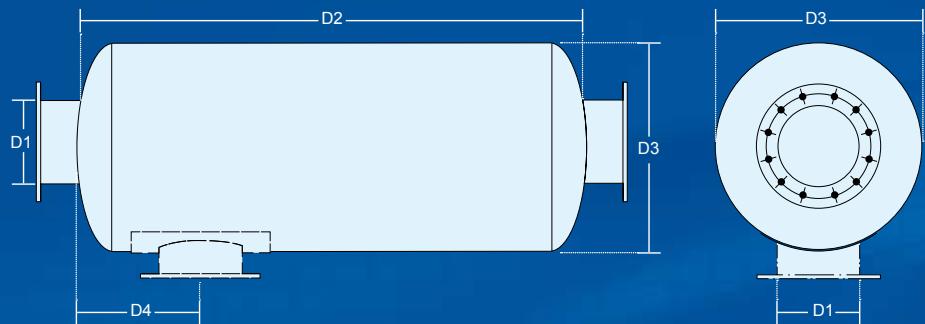
- Power Generation
- Co Generation
- Tri Generation
- Gas Compression
- Gas Turbines
- Marine
- Machinery & Mining
- Locomotives

Parratech Silencer Range

Parratech manufacture four standard exhaust silencer models as below:

Silencer model	
ASSS (25dB)	Absorptive Style Silencer (25dB Reduction)
NLCS (35dB)	Reactive/Absorptive Silencer (35dB Reduction)
PLCS (40dB)	Reactive/Absorptive Silencer (40dB Reduction)
FLCS (45dB)	Reactive/Absorptive Silencer (45dB Reduction)

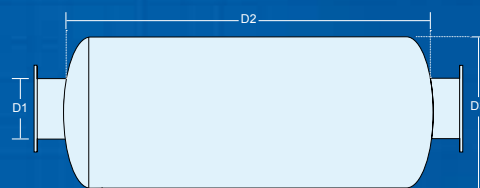
The following gives a general outline of standard silencer footprints, attenuation and weight. Please note that optional connections are available. For any further information please contact your Parratech consultant.



Typical Dimensions and Weights for Parratech Silencer models. NLCS35, PLCS40 & FLCS45

Dia of Inlet (NB)	Dimensions (All dimensions in mm)				Weight (Kg)		
	D1	D2	D3	D4	NLCS (35dB)	PLCS (40dB)	FLCS (45dB)
100	100	1200	450	200	58	72	77
125	125	1400	500	250	85	100	110
150	150	1600	600	275	125	155	163
200	200	1800	800	325	200	230	245
250	250	2400	925	375	348	382	402
300	300	2800	1000	425	456	548	570
350	350	3300	1130	475	650	756	788
400	400	3800	1300	550	948	1082	1120
450	450	4300	1500	600	1180	1340	1420
500	500	4800	1600	650	1620	1910	1976
550	550	5200	1750	700	1700	2180	2340
600	600	5500	1850	750	2520	3186	3258

Typical Dimensions and Weights for Parratech Silencer model. ASSS25



Dia of Inlet (NB)	D1	D2	D3	Weight (Kg)
100	100	1000	250	34
125	125	1100	300	45
150	150	1300	350	63
200	200	1650	450	103
250	250	1900	550	172
300	300	2150	650	240
350	350	2500	750	365
400	400	3000	900	530
450	450	3500	1000	763
500	500	4000	1150	1036
550	550	4500	1250	1190
600	600	4700	1350	1580

Attenuation & Models

Typical Attenuation (dB)

Silencer model	Frequency (Hz)							
	63	125	250	500	1K	2K	4K	8K
ASSS (25dB)	14	21	27	25	23	22	19	16
NLCS (35dB)	27	30	32	30	26	24	22	20
PLCS (40dB)	33	36	38	40	38	33	30	28
FLCS (45dB)	34	38	43	45	40	37	35	33

Construction

Parratech Silencers are constructed using Heavy Duty Carbon Steel or Stainless Steel. Depending on type and design, Silencers are made with torrispherical end plates, domed end plates or flat end plates to ensure engineering conformance, maximum rigidity and long life.

All internal components are braced and supported to ensure minimal resonance and vibration. Inlet and outlet flanges are supplied standard to BS Table D drilling however alternative flange patterns are available upon request.

Silencers are supplied with drain plugs for the periodic drainage of condensation build up in base of silencer.

The external surfaces of all Heavy Duty Carbon Steel Silencers are finished in high quality heat resistant paint. Heavy Duty Carbon Steel Silencers can be externally treated with an aluminium metal spray for added protection in corrosive and/or exposed environments.

Stainless Steel Silencers are supplied in natural finish with all welds passivated and buffed for exceptional surface finish. Optional special materials such as Stainless Steel T316 or T321 grade are also available upon request.

Did you know?

Silencers for Gas Fuelled Engine applications must be Explosion Resistant, designed to Australian Gas Code AS3814-2009. Parratech have extensive experience in the design, engineering & manufacture of Explosion Resistant Silencers and include a certificate of compliance to this Standard in our comprehensive QA Package with every project.



Silencer Accessories

- Exhaust Stacks / Flue Arrangements / EPA Cowls
- Complete System Pipework
- Structural Silencer Stands / Frames
- Flexible Bellows

Other Parratech Products

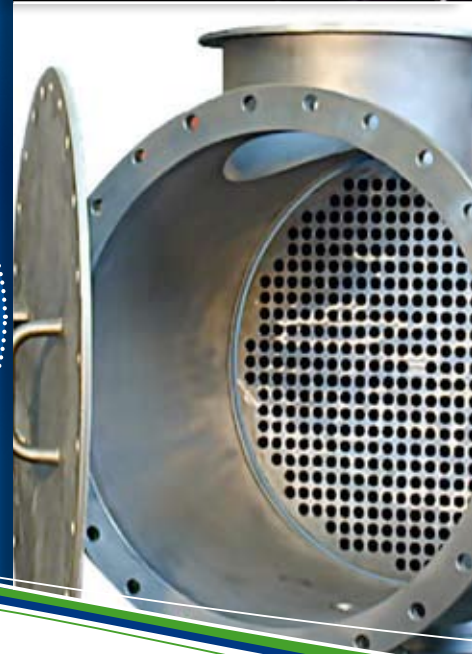
- Attenuators (intake and discharge)
- Emission Control (CO, NMHC, HC, NO_x, R-CHO, PM, VOC's etc)
- Acoustic Enclosures (stand alone, dropover and panel form)
- Acoustic Doors (30-50 dB reduction, single and double leaf)
- Acoustic Wall Lining
- Thermal Lagging Control
- Exhaust Heat Recovery Systems (Hot Water and Low Pressure Steam)
- Complete System Design and Supply

Parratech Guarantee

Comprehensive QA Package with every project

Our commitment to excellence sets our premier product range apart

We provide a comprehensive Quality Assurance Package with every project including specific project criteria & data; GA Drawings, As-built Drawings, Release Certificates, Warranties, Material Certificates, Inspection Reports ect.



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