

Leading the way in quieter work environments

Exhaust Control Industries Air and noise pollution control specialists



Exhaust Control Industries (ECI) has become the recognised leader in noise pollution control in Australia.

ECI has been developing innovative noise control technology for over 30 years. Designed using world-class engineering and CAD facilities, our products are not only manufactured in Australia, but we are a 100% Australian-owned company. Our product range is comprehensive and we customise solutions for any condition where sound levels are critical. ECI is committed to continuously improving our technology to improve working and urban environments. **Talk to the experts.**



Silencers Overview

Providing quieter work and urban environments

ECI Silencers

Intake and exhaust silencers are designed and manufactured to suit all types of engines including stationary generators, pumping sets, compressors, ships, mining equipment, diesel and gas powered transport and construction equipment, and gas turbines. ECI's comprehensive product range includes both reactive and absorptive designs suitable for industrial, residential and super critical levels of sound attenuation.

Spiral Silencers

Spiral high performance, compact exhaust systems reduce exhaust noise from diesel and gas engines where space is limited. They are suitable for marine, mining equipment, engines in confined spaces and, in particular, forklifts. Silencers have a spiral chamber configuration that allows free flow of gas through a uniform cross section partially lined with stainless steel wool and mesh. Noise is diffused and progressively attenuated as exhaust gas passes through the spiral silencer.

ECI Acoustic Products

Acoustic products include enclosures, ventilation silencers, acoustic panels, acoustic doors and noise attenuating louvers. They are used for the reduction of unacceptable noise levels from diesel and gas engines and other critical acoustic applications. ECI design, manufacture and install acoustic products for a wide cross section of applications. Dropover or containerized acoustic enclosures can be customized to any requirement, and in any material.

All ECI silencers have the following features:

- All welded construction of HRCQ mild steel
- Option for construction in stainless steel
- Domed ends as standard, for additional structural strength
- Coated in heat-resistant paint
- Can be mounted either vertically or horizontally without affecting performance.

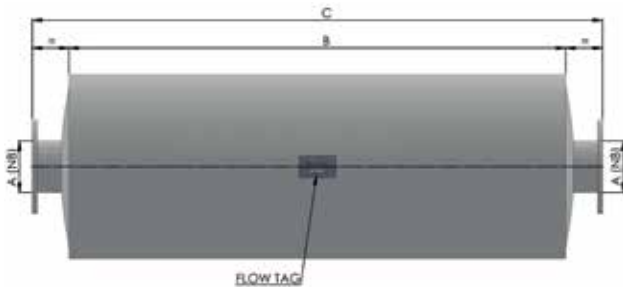
In addition, all ECI silencers have the following options:

- Factory customisation available
- Spark arrestor
- Inlet/Outlet configurations
- 316L stainless steel construction
- A variety of different flange connections
- Explosion resistant for AS3814 for gas engines
- Exterior finishes
- Complete line of accessories and mounting brackets.



ECI Silencers

Specifications

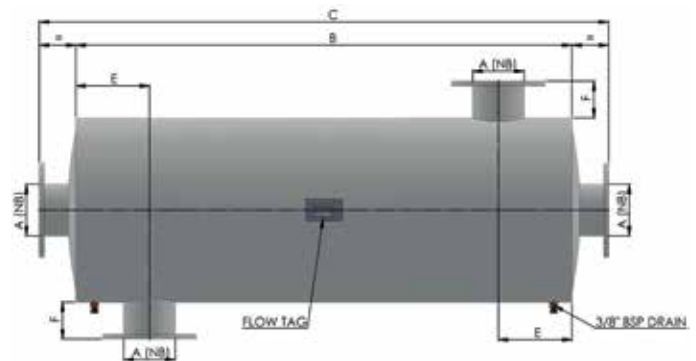
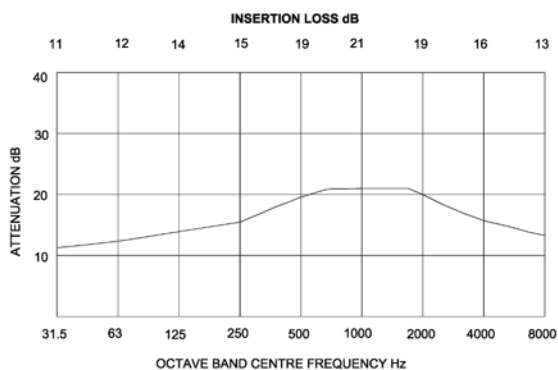


ECI Absorptive Silencer – Model SAE

20 dB(A) reduction

The ECI Absorptive Silencer is a medium straight through absorption type silencer for all applications where low pressure drop is essential, and also for applications as secondary silencers where noise criterion is important.

A (NB)	B	C	ØD	Est. weight (kg)
50	700	860	150	6
65	850	1060	230	16
80	824	1090	250	18
100	1134	1420	250	27
125	1340	1570	300	36
150	1434	1730	380	57
200	1408	1730	450	82
250	1718	2030	550	113
300	2018	2340	650	181
350	2374	2720	750	241
400	2688	3000	850	300
450	3064	2400	950	350
500	3438	2800	1050	400
550	3738	4100	1150	450
600	4138	4500	1130	500

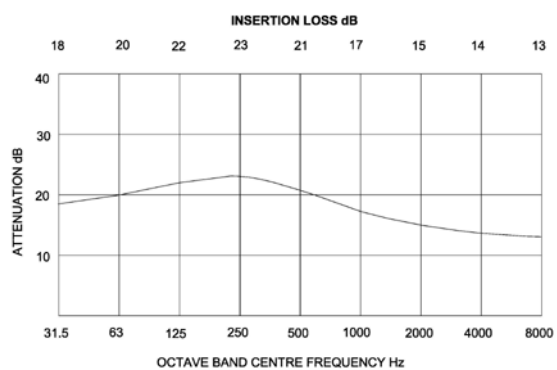


ECI Industrial Silencer – Model SIE

25 dB(A) reduction

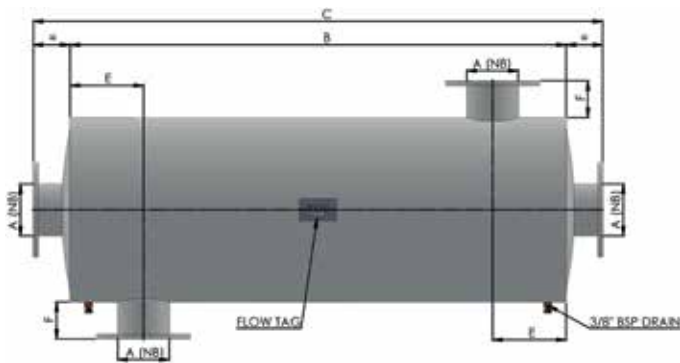
The ECI Industrial series of silencers is a medium degree reactive silencer for use in environments where background noise is relatively high. Can be used with two and four cycle diesel engines.

A (NB)	B	C	ØD	E	F	Est. weight (kg)
80	450	660	300	95	75	30
100	586	810	350	193	75	33
125	724	960	400	187	75	51
150	798	1060	450	194	75	68
200	1088	1400	560	244	100	115
250	1158	1470	660	294	100	172
300	1364	1700	760	332	100	233
350	1544	1880	910	382	100	330
400	1674	2010	1020	432	100	500
450	1978	2340	1170	479	100	680
500	2198	2560	1270	529	100	775
550	2428	2790	1370	579	100	985
600	2678	3040	1520	629	100	1130
650	2888	3250	1630	679	100	1350
700	3268	3630	1730	729	100	1640



ECI Silencers

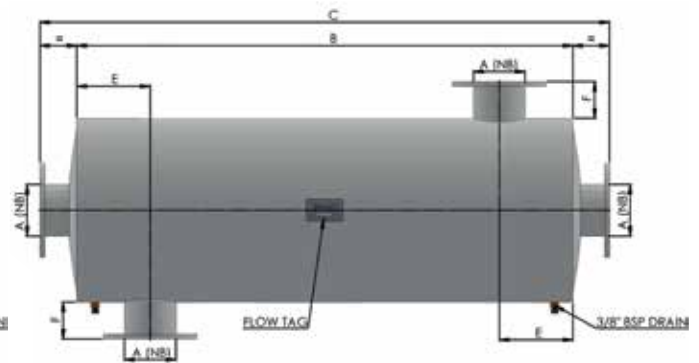
Specifications



ECI Residential Silencer – Model SRE

30 dB(A) reduction

The ECI Residential Silencer series is a high performance reactive silencer, recommended for those conditions where the ambient noise level in the environment is low. For use with two and four cycle diesel engines.



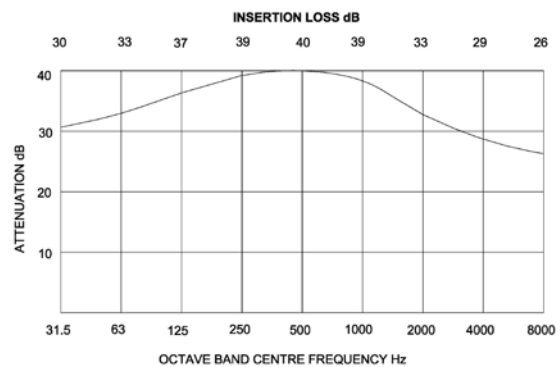
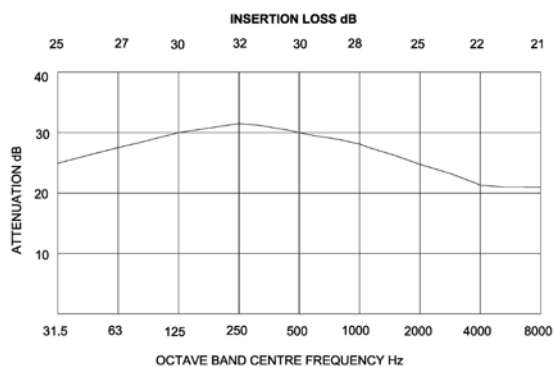
ECI Critical Silencer – Model SCE

35 dB(A) reduction

The ECI Critical series of silencers is a high-performing reactive absorptive silencer recommended for those conditions where the ambient noise level in the environment is very low. It offers excellent broad band attenuation and is particularly effective where stringent noise criterion is demanded. For use with two and four cycle engines. *Customised sizing also available.*

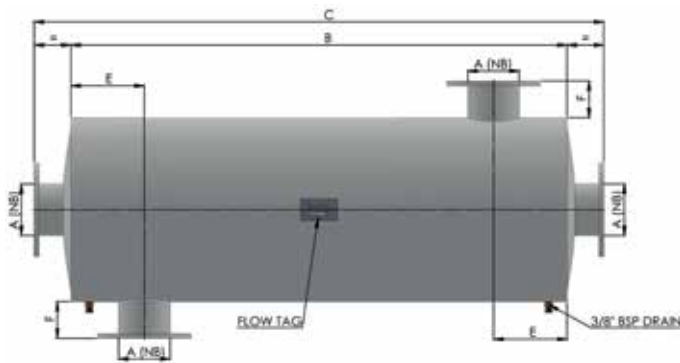
A (NB)	B	C	ØD	E	F	Est. weight (kg)
40	690	900	200	95	75	25
50	829	1065	250	107	75	31
65	960	1170	300	120	75	35
80	996	1220	350	138	75	43
100	1054	1290	400	187	75	56
125	1288	1550	450	174	75	82
150	1413	1675	550	194	75	123
200	1718	2005	660	244	100	189
250	2204	2515	760	282	100	320
300	2604	2920	915	332	100	465
350	3164	3475	1020	382	100	640
400	3698	4060	1220	419	100	1030
450	4468	4870	1470	469	120	1250
500	5388	5840	1720	519	145	1794
550	6498	7015	2060	579	180	2070
600	77828	8420	2450	629	215	3025

A (NB)	B	C	ØD	E	F	Est. weight (kg)
40	690	900	250	95	75	33
50	855	1065	300	120	75	38
65	946	1170	350	113	75	43
80	984	1220	400	132	75	53
100	1028	1290	450	174	75	68
125	1288	1550	500	174	75	95
150	1413	1675	600	194	75	140
200	1718	2005	750	244	100	215
250	2204	2515	850	282	100	363
300	2604	2920	1020	332	100	530
350	3164	3475	1120	382	100	715
400	3698	4060	1320	419	100	1030
450	4108	4470	1470	469	100	1250
500	4508	4870	1570	519	100	1794
550	4918	5280	1720	579	100	2070
600	5338	5700	1830	629	100	3025



ECI Silencers

Specifications

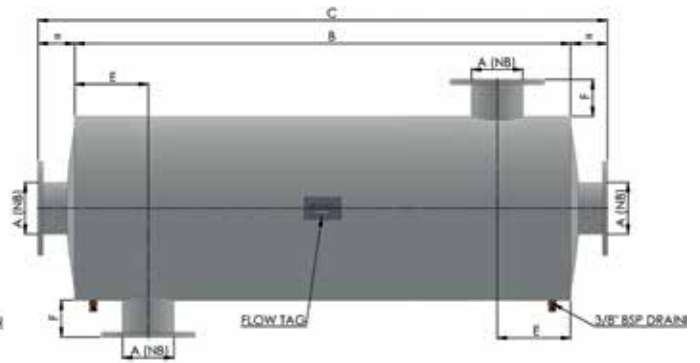


ECI Critical Fully Lined Silencer

– Model SCE/A

38 dB(A) reduction

The addition of acoustic lining, a fiberglass-based noise-absorbing substance, to both chambers inlet and outlet and inner tubes of this silencer ensures a higher level of sound attenuation can be reached.



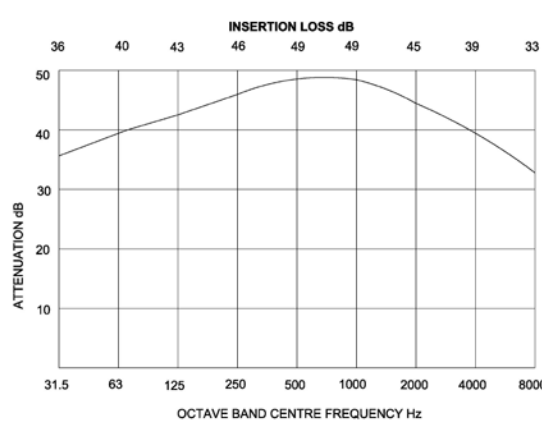
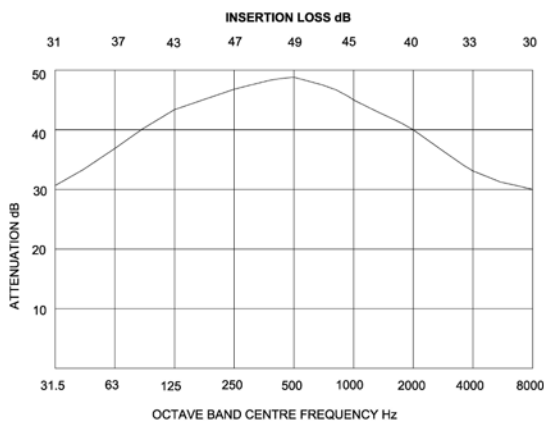
ECI Critical Fully Lined – Model SCE/A-LP with Lined Tubes

42 dB(A) reduction

The application of acoustic lining to both chambers, inlet and outlet and inner tubes of this silencer ensures a premium level of sound attenuation can be attained.

A (NB)	B	C	ØD	E	F	Est. weight (kg)
40	690	900	250	95	75	38
50	855	1065	300	120	75	44
65	946	1170	350	113	75	50
80	984	1220	400	132	75	61
100	1028	1290	450	174	75	78
125	1288	1550	500	174	75	110
150	1413	1675	600	194	75	160
200	1718	2005	750	244	100	248
250	2204	2515	850	282	100	418
300	2604	2920	1020	332	100	610
350	3164	3475	1120	382	100	822
400	3698	4060	1320	419	100	1185
450	4108	4470	1470	469	100	1438
500	4508	4870	1570	519	100	2064
550	4918	5280	1720	579	100	2380
600	5338	5700	1830	629	100	3480

A (NB)	B	C	ØD	E	F	Est. weight (kg)
40	690	900	250	95	75	42
50	855	1065	300	120	75	48
65	946	1170	350	113	75	54
80	984	1220	400	132	75	66
100	1028	1290	450	174	75	85
125	1288	1550	500	174	75	118
150	1413	1675	600	194	75	175
200	1718	2005	750	244	100	270
250	2204	2515	850	282	100	454
300	2604	2920	1020	332	100	663
350	3164	3475	1120	382	100	894
400	3698	4060	1320	419	100	1288
450	4108	4470	1470	469	100	1562
500	4508	4870	1570	519	100	2242
550	4918	5280	1720	579	100	2588
600	5338	5700	1830	629	100	2780



Spiral Silencer Overview

Providing quieter work and urban environments through a compact design

Spiral Silencers

Their compact design allows them to fit into limited spaces such as marine environments and in cranes, or anywhere where size and weight is an issue.



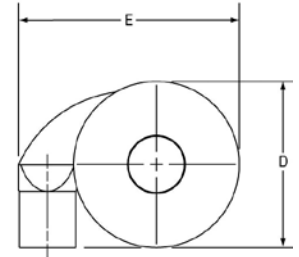
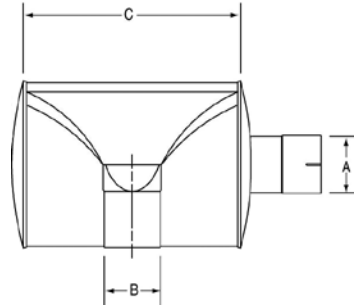
Features:

- Compact spiral chamber design
- Low back pressure
- Low weight
- Aluminised steel construction to 650°C
- Standard high temperature finish
- All MIG welded construction
- Steel wool and mesh liner
- Slip-fit connections standard
- Available in stainless steel as an option.



Spiral Silencers

Specifications



Residential Spiral Silencer

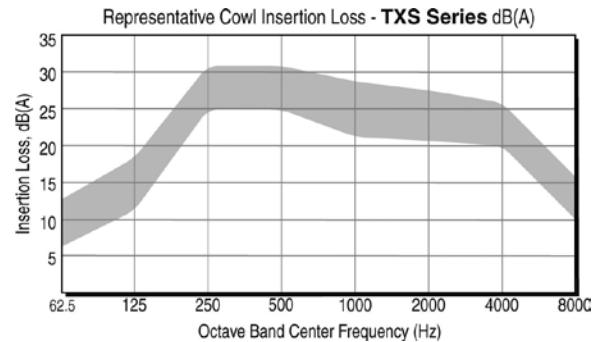
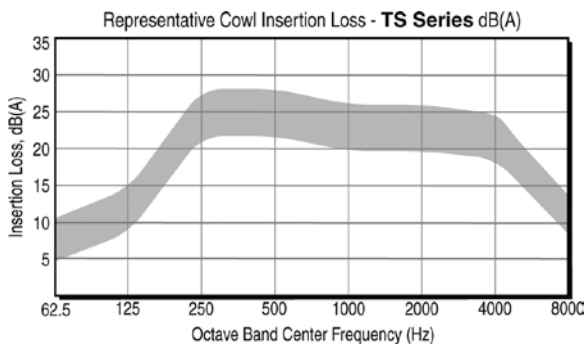
22-28 dB(A) reduction

Inlet A dia. (I.D.)	Outlet B dia. (O.D.)	C	D	E	Est. weight (kg)
38	38	133	182	217	5
51	51	184	182	230	7
64	64	209	224	283	9
76	76	235	300	369	14
89	89	292	300	379	18
102	102	393	300	400	21
114	114	317	408	518	30
127	127	419	408	529	33
152	152	571	408	552	42
203	203	390	559	755	46
203	203	616	559	755	70
254	254	764	711	944	114
305	305	916	838	1122	166

Critical Spiral Silencer

28-33 dB(A) reduction

Inlet A dia. (I.D.)	Outlet B dia. (O.D.)	C	D	E	Est. weight (kg)
38	38	133	224	255	6
51	51	184	224	266	8
64	64	209	300	347	14
76	76	235	408	462	24
89	89	292	408	473	28
102	102	393	408	494	34
114	114	317	492	592	37
127	127	419	492	604	44
152	152	571	492	628	57
203	203	391	673	867	64
203	203	618	673	867	98
254	254	764	864	1101	159
305	305	916	1016	1289	232



Pictured Telstra Exchange Exhibition Telephone Project Melbourne Australia.

ECI worked with Telstra to achieve reductions in noise and exhaust pollution at their flagship exchange building in Melbourne, Australia. ECI designed, engineered, manufactured and installed a complex range of product solutions and provided auditing and project management expertise.



Exhaust Control Industries

Air and noise pollution control specialists

ECI is the leader in Co-generation and SCR technology in Australia.

Our air and noise pollution control products include Silencers, Diesel Particulate Filters, Diesel Particulate Catalyst, Catalytic Purifiers, Waste Heat Recovery Systems and Acoustic Enclosure Products.



Exhaust Control Industries Pty Ltd Air and noise pollution control specialists

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