Parratech Attenuators & Ventilation Fans

Product Overview

Parratech Attenuators and Ventilation Fans are designed, engineered and manufactured to meet the strident requirements of modern industrial and commercial projects.

Parratech Attenuators are ultimately designed to reduce the noise level between two areas while still allowing required air flow.

Parratech's particular attention to details, including: airflow requirements, pressure drop levels, room layouts, insertion losses and velocities result in a proven engineering methodology.

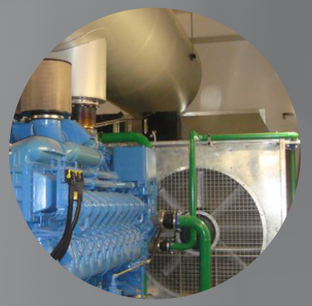
Providing flexible, pragmatic solutions enables Parratech Attenuators and Ventilation Fans to be custom designed and built to almost any size or configuration which in turn gives our clients superior control of their operation and piece of mind in any project.

PARRATECH
ENVIRONMENTAL CONTROL

PARRATECH
ATTENUATORS & VENTILATION

Typical Applications

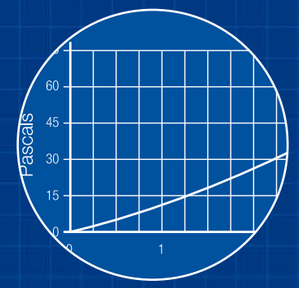
- Plant Room Ventilation
- HVAC Rooms
- Generator / Compressor Enclosures
- Power Stations
- Data Centres
- Base Building
- Substations



Typical Insertion Loss / Pressure Drop

Project specific details of Insertion Loss / Pressure Drop available – please contact Parratech Technical Division.

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Intake (dB)	6	14	28	46	43	41	33	21
Discharge (dB)	7	16	32	50	47	44	38	24



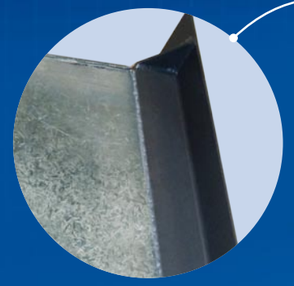
Parratech Attenuators

Design and Construction Features

Flanges

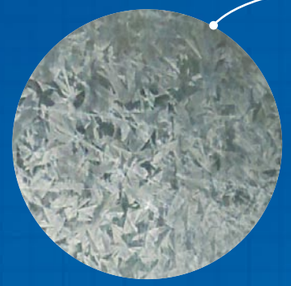
Mild steel flanges are welded to longitudinal seams and painted with zinc rich primer.

Flanges are pre-drilled to mount on to discharge or fan plenum.



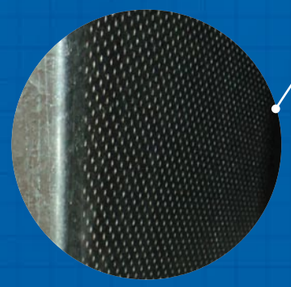
Heavy Duty Casing

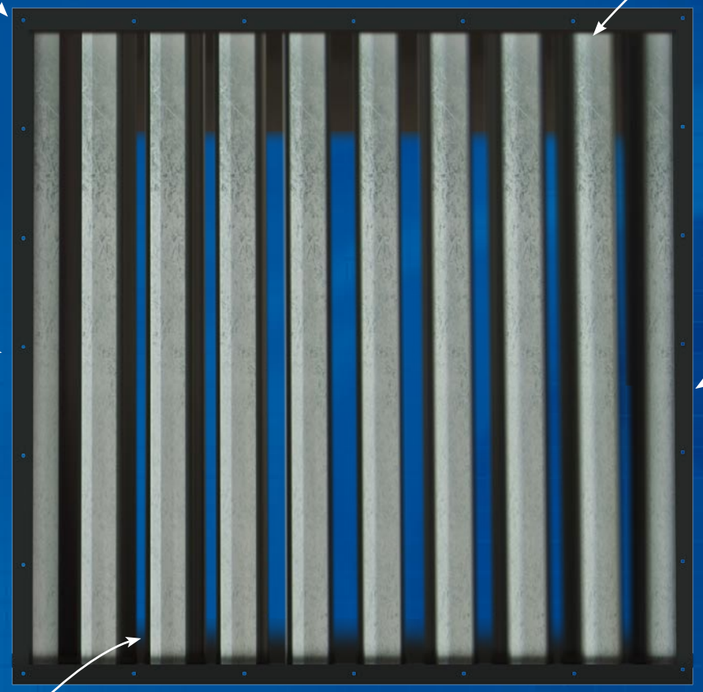
Manufactured from stainless or galvanised steal, the heavy duty, rigid design minimises break-out noise transmission.



Internal Surfaces

Heavy density mineral wool covered in fibreglass scrim and firmly held in place with acoustic grade perforated zinc anneal sheet, providing the ultimate sound absorption.





Absorption Splitters

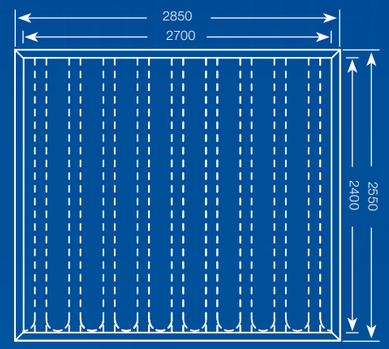
Splitters incorporate aerodynamic design ensuring minimal dynamic losses

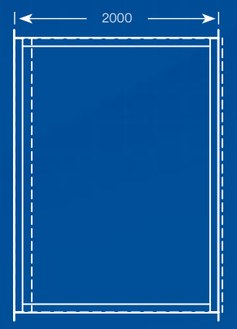
Labelling

Clear labelling with airflow direction ensures accurate insulation.

Drawings

Fully dimensional drawings available – please contact Parratech Technical Division.





High range attenuation insertion loss also available (10dB - 50dB)

Suggested Specification

Attenuators should be manufactured from galvanised mild steel outer casing, featuring aerodynamically designed absorption splitters with higher density mineral wool and covered acoustic grade zinc anneal sheets. Attenuators should be designed and supplied by Parratech Environmental Control Pty Ltd

PARRATECH
ATTENUATORS & VENTILATION

Parratech Ventilation Fans

Design and Construction Features

Mounting

Pre-drilled flanges for mounting reduces installation time & ensures accurate fixing arrangement.

Impellers

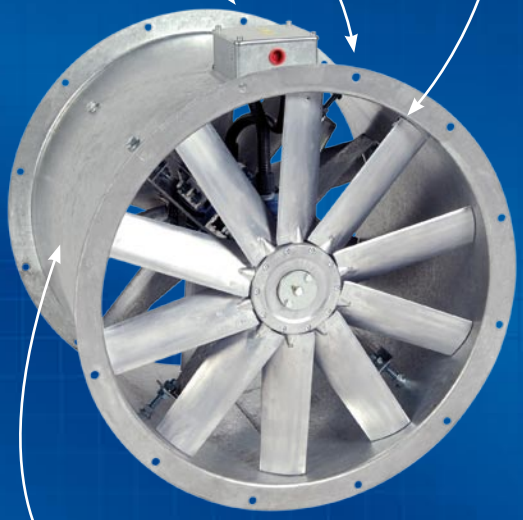
Pressure Die-cast aluminium impellers designed for optimal performance, incorporating aerodynamic requirements.

Options

Special coatings & alternate materials (i.e stainless steel) available for corrosive fume and/or explosion fume applications.

Motor / Type

Squirrel cage induction motor to suit various applications. Available in single or three phase. 2 Pole -10 Pole with optional Variable Speed Drive (VSD).



Labelling

Clear labelling with rotation & airflow direction ensures accurate installation & functionality.

Testing

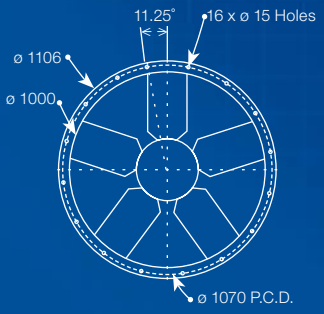
Fans noise tested to BS848: Part 2, 1985

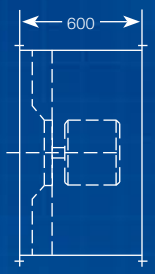
Heavy Duty Casing

Fully enclosing cylindrical type, manufactured from (unless otherwise specified) hot-dipped Galvanised Mild Steel casing, suitable for rugged applications and harsh environments.

Drawings

For fully dimensional drawings & project specific details available – please contact Parratech Technical Division.





Suggested Specification

Ventilation Fans shall be of the Axial type design as supplied by Parratech Environmental Control Pty Ltd. Heavy duty casing shall be manufactured from hot-dipped Galvanised Mild Steel with pre-drilled flanges. Impellers shall be pressure die-cast aluminium, balanced statically and dynamically. Motor shall be VSD type.

Project Technical Details

Attenuator & Ventilation Fan Sizing & Cost Sheet

Please complete the form below and return Parratech Technical Division for complete Attenuator & Ventilation Fan Sizing and costing for your projects.
Return by fax on 02 9890 9743 or email to: technical@parratech.com.au

Design Noise Level Intake _____ dB(A) @ _____ mtr

Design Noise Level Discharge _____ dB(A) @ _____ mtr

Engine Type & Details .....

.....

.....

Raw Engine Data (Sound Power Level)

Hz	63	125	250	500	1000	2000	4000	8000
dB								

Is the Engine Radiator Cooled? ☐ YES ☐ NO

If Yes, what is the Maximum Allowable External Restriction _____ Pa

What is the Ventilation Airflow Requirement? _____ m^3/sec.

What is the Combustion Airflow Requirement? _____ m^3/sec.

What is the Engine Heat Rejection? _____ Kw

What is the Allowable Plant Room Temperature Rise? _____ °C

Are Achitectural Louvres being used? ☐ YES ☐ NO

If Yes, specify the Type & Pressure Drop per mtr^2 of Louvre Face _____ Pa

What is the Maximum Allowable Pressure Drop through the Fan? _____ Pa

Other Parratech Products

- Exhaust Gas Silencers
- Emission Control (CO, NMHC, HC, NOx, 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.

PARRATECH ENVIRONMENTAL CONTROL

Parratech Environmental Control Pty Ltd | 7 Bourke St, North Parramatta NSW 2151
Tel: +61 2 9630 5600 | Fax: +61 2 9890 9743 | Email: info@parratech.com.au | www.parratech.com.au