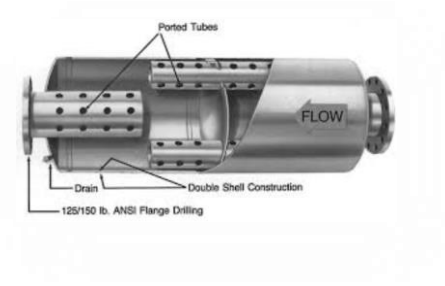
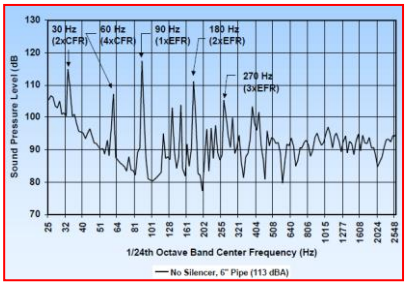
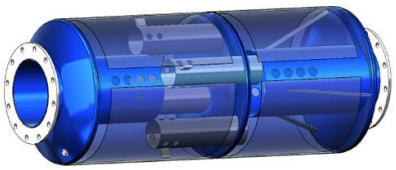
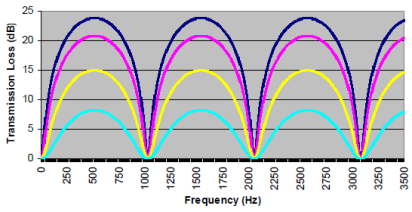
Najah Engineering Consultants LLC

Design of Reactive and Dissipative Exhaust Mufflers

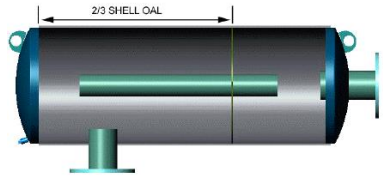






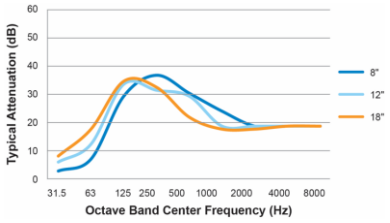




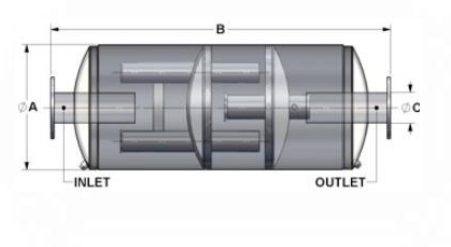


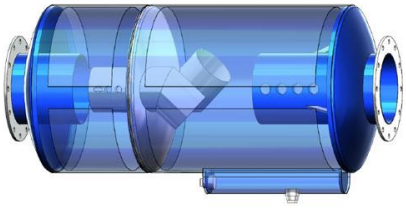
ExTune™

ISO 6798 / ISO 8528-10
ISO 14163 / ISO 7235
ASTM E477
ASHRAE / EGSA



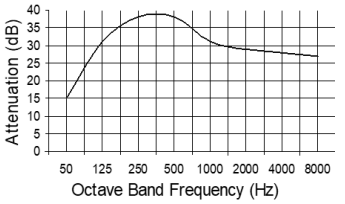


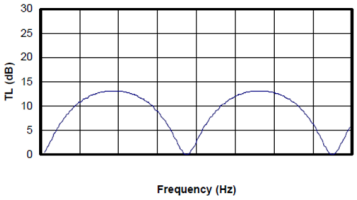


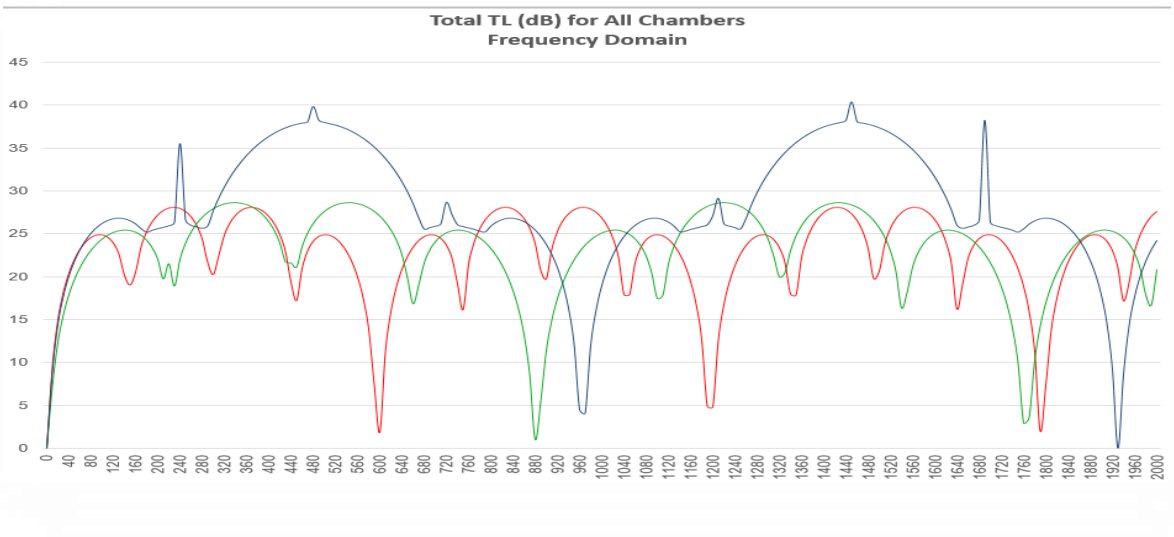


COURSE CONTENTS

- Sound physics
- SWL/SPL, dB and dBA
- Fundamentals of acoustics
- Sound propagation
- Engine exhaust sound measurements
- Exhaust sound characteristics
- Expansion chamber TL
- Extended pipes tuning
- Multi-chambers effect
- Design of reactive mufflers
- Cancelling troughs in sound waves
- Tuning of reactive mufflers
- Selection of chamber lengths
- ASHRAE / EGSA standards
- Resonators in mufflers design
- Design of dissipative mufflers
- Design of combination mufflers
- Muffler pressure drop
- Using ExTuner ™ for mufflers design
- Muffler testing and certification
- Exhaust muffler design workshop







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