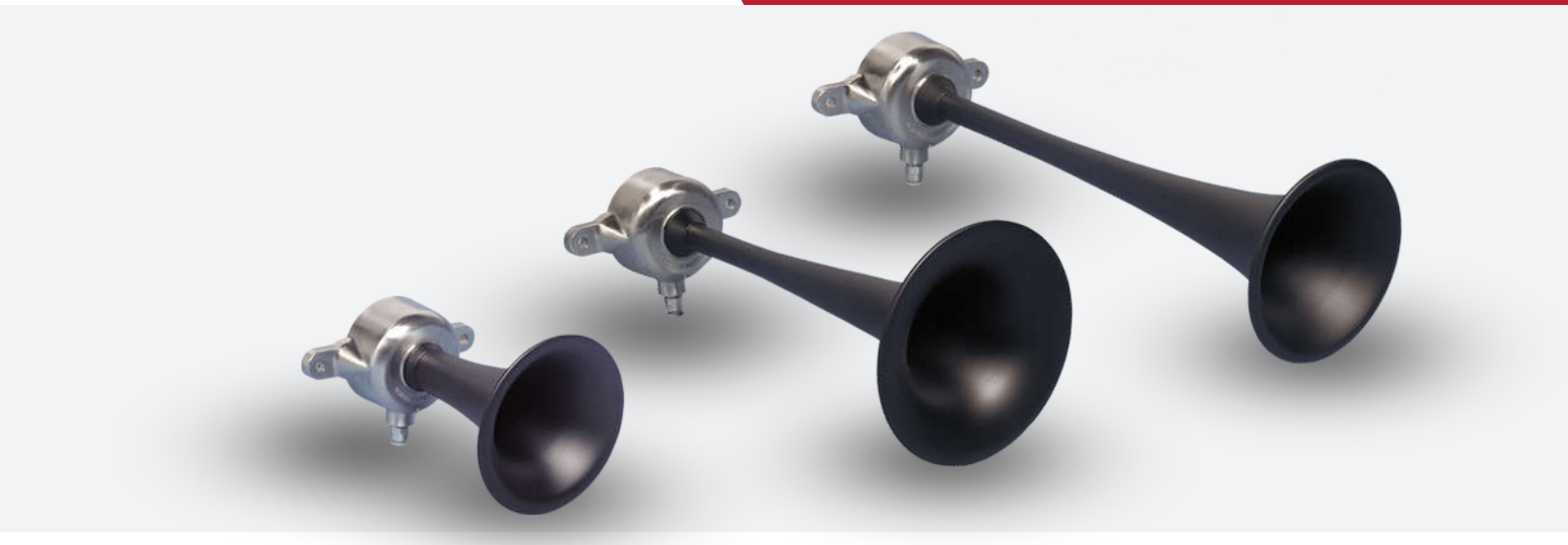
MOFLASH SIGNALLING

TDE Ex Airhorns



Overview

ACOUSTIC SIGNALS - HAZARDOUS AREA - PNEUMATIC AIR DRIVEN HORNS

The TDE Ex Series is a pneumatic (Non-electrical) device that needs to be powered via a compressed air supply. Designed for industrial and marine hazardous environments and approved for explosive atmospheres in Group II (Above Ground) applications. Designed to meet strict safety standards, it provides an acoustic warning where traditional non-electrical air-horns cannot be used safely.

Fully certified for areas with flammable gases, dust, or vapours, the TDE Ex Series ensures safety and compliance with international standards. Its Group II approval suits for above-ground industrial/marine sectors like oil, gas, and chemical plants.

The units produce the classic 'Foghorn' sound, delivering a very high sound and very low frequency output, making it ideal for signalling across medium to large areas. The length of the trumpet will dictate the wavelength of the sound waves produced, and therefore, the frequency of the note produced. In general, the lower the frequency of the note produced, the further the sound will travel.

Features

- Continuously rated
- Suitable for wall or pole mounting
- Robust construction
- Easy installation & Maintenance friendly
- Very high sound output
- Very low frequency tone
- Designed for wide area signalling applications
- Group II (Above Ground)
- Zone: Gas 1, 2 & Dust 21, 22

Material

- Brass horn with mat black finish
- Stainless steel 316 membrane housing

IP66

Up to 138dB (A) @ 1m

Continuous

ATEX & IECEx

>95% at 40°C (Humidity)

-30 to +70°C (Ambient)

ISSUE 1

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APPROVALS & CONFORMITIES

UKCA CE RoHS ATEX

TDE Ex Airhorns

Ordering Information

Ordering Information		Additional Technical Information			
Model	Product Code	Air Pressure	Air Consumption	Frequency	Sound Level
TDE 198 EX	TDE198EX	2-10 bar	2 to 3.5 l/s*	660Hz	116-138 dB(A)
TDE 360 EX	TDE360EX	1.5-10 bar	1.5 to 3.5 l/s*	377Hz	116-132 dB(A)
TDE 450 EX	TDE450EX	1.5-10 bar	1.5 to 3.5 l/s*	307Hz	116-132 dB(A)

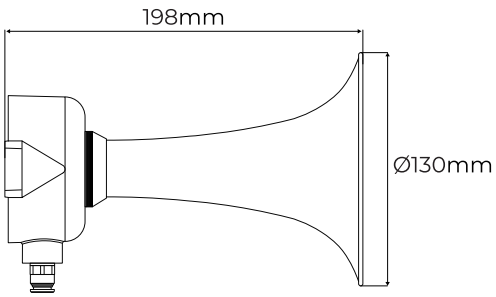
*l/s : Litres Per Second

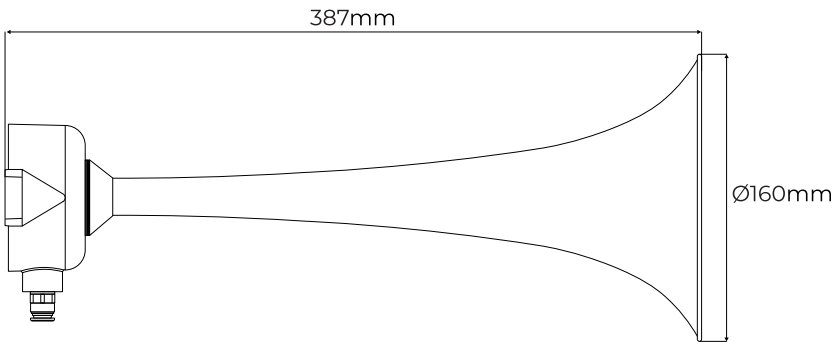
Certification Information

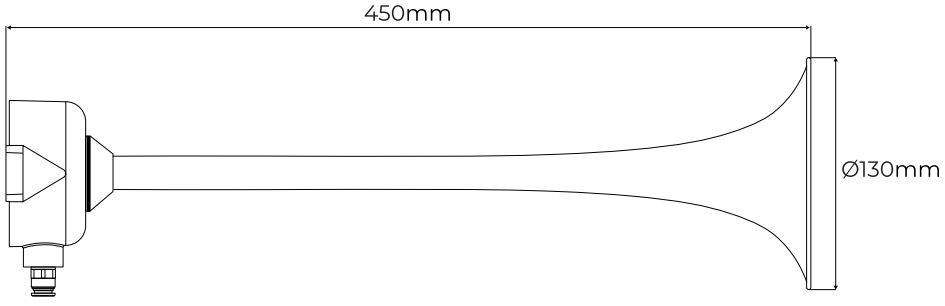
Certification | Approvals for Hazardous Area					
Certificates	·	ERO24ATEX0013X **(ATEX)**, EMT 24.0008X **(IECEx)**			
Groups	·	Group II : Above Ground			
EX Codes	·	II 2G Ex h IIB + H_2 T6 Gb · II 2D Ex h IIIC T85°C Db			
Standards	·	IEC 60079-0:2018	· ISO 80079-36:2016	·	ISO 80079-37:2016
Zones	·	Gas Zone : 1 & 2	· Dust Zone : 21 & 22		

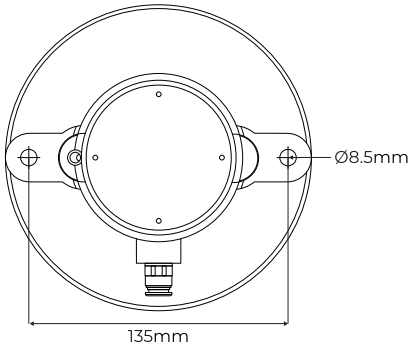
Weights & Dimensional Drawings

Kg	TDE 198 Ex	TDE 360 Ex	TDE 450 Ex
Net Weight	1.160	1.420	1.390
Gross Weight	1.335	1.900	1.880









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