

DIAMOND TRIPLE YM125

The ZÖLLNER DIAMOND TRIPLE YM125 is a diaphragm sound transmitter of three Makrofons operating on compressed air. The signal is released by three electrovalves or manually using a hand pull-rope. To avoid the costly laying of a pull-rope, an additional electromagnet for emergency voltage can be provided. A thermostat controlled anticondensation heating keeps the sound horn and the operating valves free from condensed water and thus from ice.

Essentials

- » full compliance with COLREG 1972 Annex III
- » entirely made of best non-corrosion, seawaterresistant materials (mainly stainless steel 1.4404 / AISI 316L)
- » extraordinary design

Application:

- » yachts of 20 meters up to 200 meters

Sound Characteristics

- » broad frequency spectrum with many higher harmonics
- » signals with strong overtones for best penetration of background noise level - two or three harmonics are sufficient for the hearing to perceive the basic frequency
- » sound pressure level >138 dB in 1/3rd octave band level at 1 m distance for class II (from 20 bar)
- » sound pressure level >130 dB in 1/3rd octave band level at 1 m distance for class III (from 10 bar)

Advantages

- » available as polished finish or customized painting
- » decades of experience
- » best material and workmanship - made in Germany
- » low weight
- » easy installation
- » maintenance free

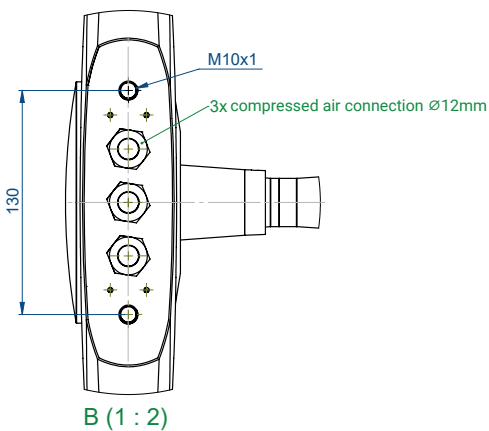
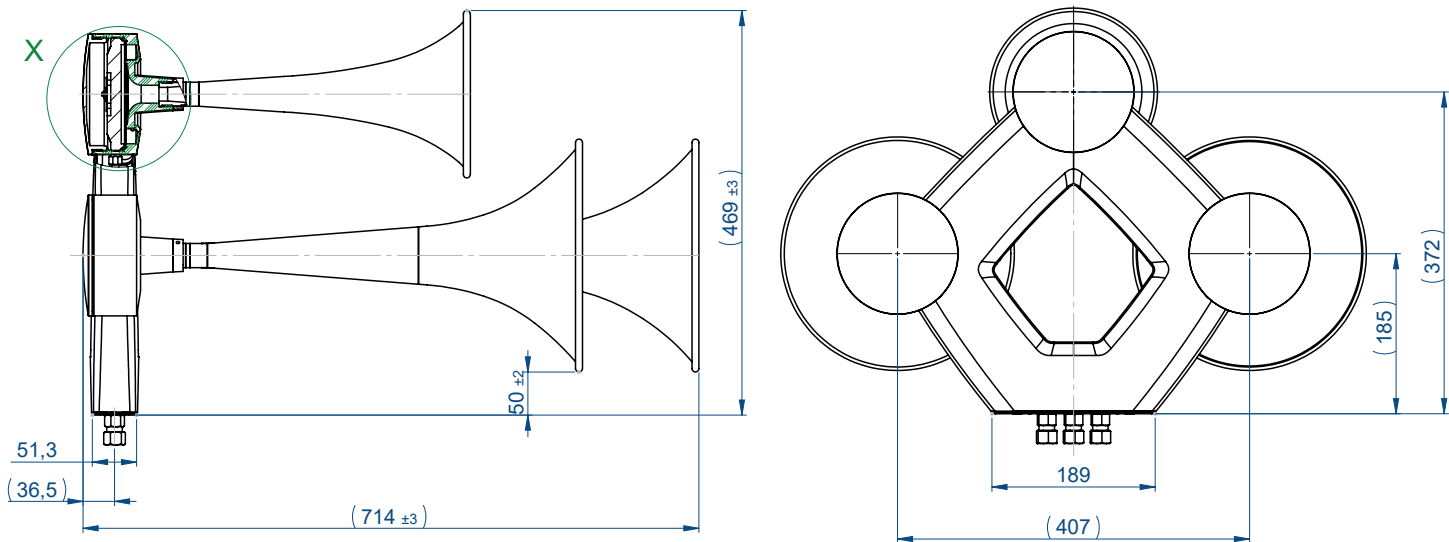


Technical information

Positioning and installation

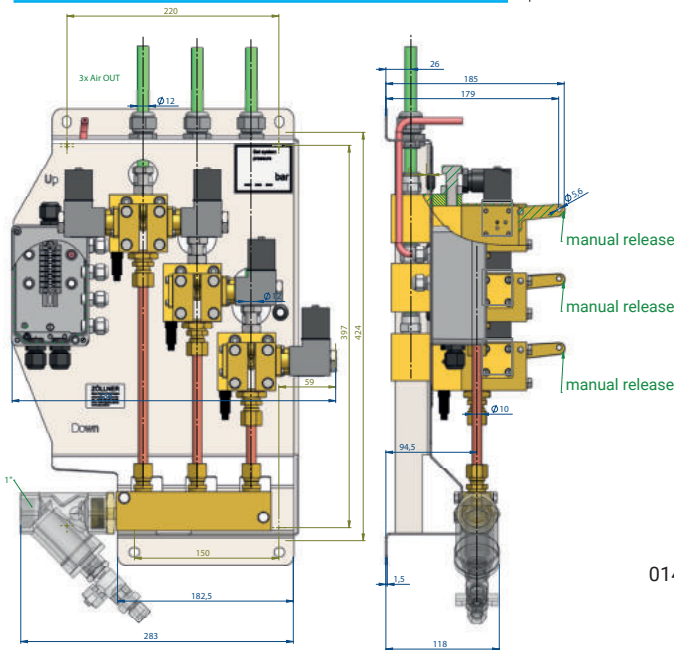
Position as high as practicable on the vessel to reduce interception of the emitted sound by obstructions and to avoid hearing damage risk to the personnel. The sound pressure level of a vessel's own signal at listening posts must not exceed 110 dB(A).

Installation - compressed air supply pipe preferably of copper with a filter (type F2) preceding the Makrofon operating valve. Supply pipe must be free from any dirt particles and moisture.



01416139 DIAMOND TRIPLE YM125

Valve Unit DIAMOND TRIPLE YM125



01416280 Valve Unit

TYPE	SHIP LENGTH	FUNDAMENTAL FREQUENCY	SOUND INTENSITY IN 1/3RD-OCT. BAND LEVEL AT 1 M (MIN. 120 DB ACC. TO IMO)	TYPE APPROVAL	SYSTEM VOLTAGE	AIR PRESSURE	AIR CONSUMPTION
CLASS II	75~200 m	220 Hz 277 Hz 330 Hz	138 dB	pending	24 V DC 115 V AC 230 V AC	20-25 bar	80 l/sec at 20 bar
CLASS III	20~75 m	220 Hz 277 Hz 330 Hz	130 dB	pending	24 V DC 115 V AC 230 V AC	10-25 bar	50 l/sec at 10 bar