



## Guideline for replacing SARACOM whistle with ZÖLLNER whistle

### 1. Introduction

This is a guideline in order to replace SARACOM whistles with ZÖLLNER whistles.

In many cases the existing control unit, push buttons, morse keys and manoeuvring lamps etc can be kept.

Generally a ship is equipped with two different horn types, an air driven and an electrical horn. This guideline shall assist you if the replacement of an old SARACOM unit is considered or required. To suggest you the correct replacement horn, we need certain information about the old SARACOM unit.

### 2. AIR HORN Replacement guide

For the replacement of an air horn we need the following information:

#### Air supply pressure:

- Service air system (6-9 bar)
- Starting air system (16-30 bar)

#### Voltage for solenoid valve to operate horn:

- 230VAC (50 or 60Hz)
- 115 (50 or 60Hz)
- 24VDC

#### Voltage for heating element:

- 230 V AC (50 or 60Hz)
- 115 V AC (50 or 60Hz)
- 24 V DC

#### Voltage for emergency solenoid if connected:

- 230 V AC (50 or 60Hz)
- 115 V AC (50 or 60Hz)
- 24 V DC

#### LOA (length overall) of ship:

Just to double check that the correct type of horns is picked.

SARACOM Whistle:	LOA of Ship	Whistle ZÖLLNER
WA-11/143	>200m	MAKROFON ZM200/90b, or MAKROFON ZM200/110b
WA-21/138 WA-26/138	<200m <200m	MAKROFON M125/130B, MAKROFON M125/160B, or MAKROFON M75F/260
WA-31/130	20-75m	MAKROFON M75F/260 or MAKROFON M75F/370
WA-4100	<20m	MAKROFON M75F/260 or MAKROFON M75F/370



### 3. ELECTRICAL HORN Replacement Guide

For the replacement of an electrical horn we need the following information:

**Supply voltage for ships with LOA from 75m and upwards:**

- 690VAC 3phase (50 or 60Hz)
- 440VAC 3phase (50 or 60Hz)
- 380VAC 3phase (50 or 60Hz)
- 230VAC 3phase (50 or 60Hz)

**Supply voltage for ships with LOA <75m:**

- 230 VAC
- 24 VDC

**Control voltage for big whistle:**

- 230 V AC 1 phase (50 or 60Hz)
- 115 V AC 1 phase (50 or 60Hz)
- 24VDC

**LOA (length overall) of ship:** *(Just to double check that the correct type of horns is picked.)*

SARACOM Whistle:	LOA of Ship	Whistle ZÖLLNER
WA-12/143	>200m	ZET-Horn 70AC, ZET-Horn 90AC, or ZET-Horn 110AC
WA-22/138 WA-22A/138	75-200m	ZET-Horn 131AC, or ZET-Horn 141AC
WA-34/130	20-75m	ZETFON 400/310 AC/DC, or ZETFON 300/310 DC

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