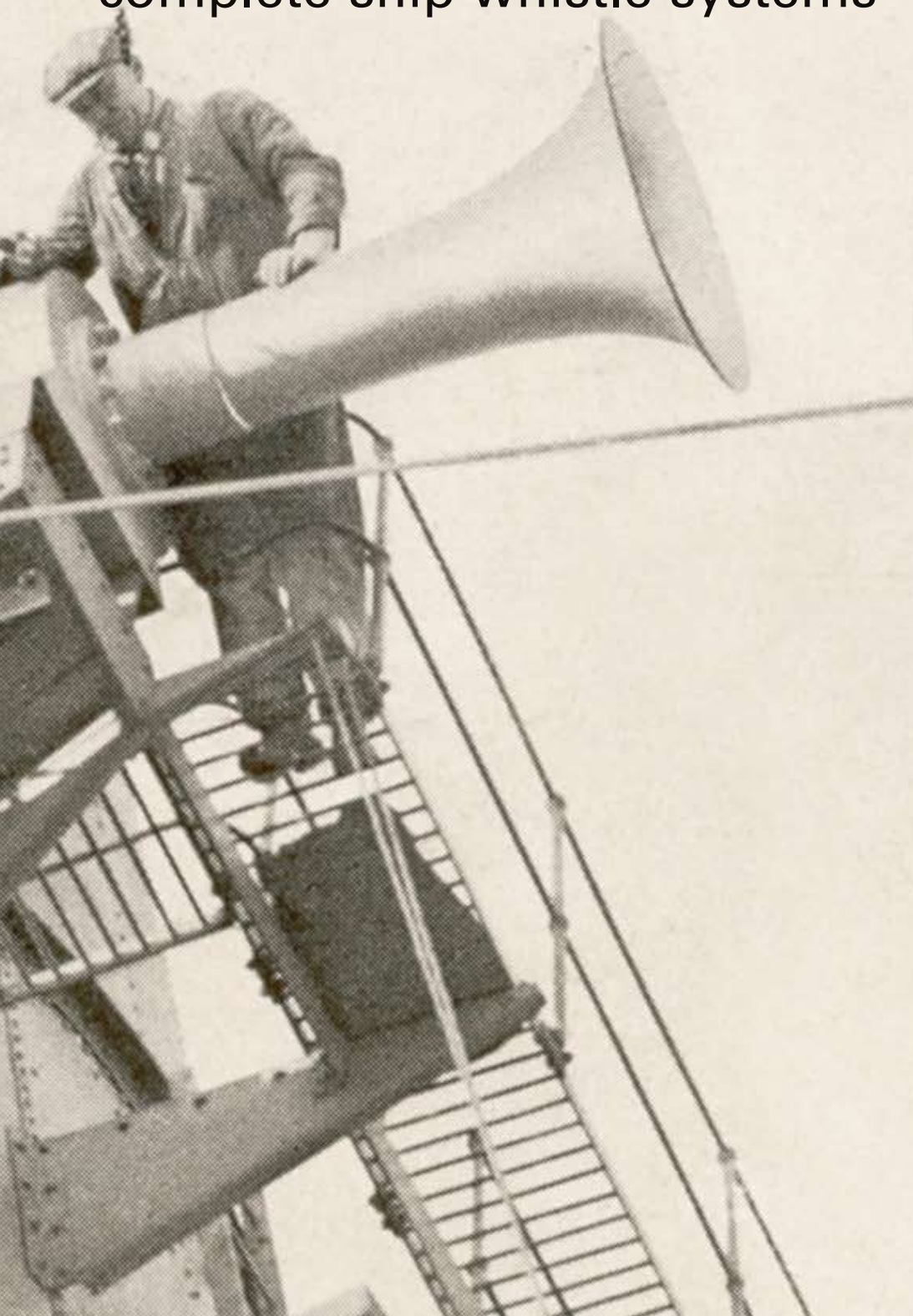


# **TYFON®**

## **The original!**

From classic “honks” to  
complete ship whistle systems



# TYFON®

## The acoustic signalling system - for every ship and requirement

A Kockum Sonics whistle is high-quality design, it contains the experience of more than 1 million TYFON® installations!

Audibility is determined not simply by the strength of sound emanating from the whistle – much more is entailed to overcome absorption, distortion and ambient noise. This quality is the result of more than 80 years of development.

The TYFON® fulfils all current IMO and national authority regulations.

### Typical Shipset for overall length of more than 200 meters

SUPERTYFON MKT 150/110

ELECTRO TYFON MTX 150/130

Signal Controller: TLG2000 or Ti98

Push Buttons: TL80 Panel or Box mounted



Optional: Manoeuvring Light AM760 — Bell & Gong KB30 & KG50 —

## Typical Shipset for overall length of 75-200 meters

SUPERTYFON AT 150/200

ELECTRO TYFON MT 150/130

Signal Controller: TLG2000 or Ti98

Push Button: TL80 Panel or Box mounted



## Typical Shipset for overall length of 20-75 meters



Air driven: TYFON MKT 75/350E



Electronic: TYFON ETD100/350



Electric: TYFON LP75

Signal Controller: Ti98 Push Buttons: TL80 Panel or Box mounted

Signal Surveillance S900 — Morse Keys TL70; Panel or Box mounted

## TYFON® - Air driven



**SUPERTYFON MKT 150/90 and 150/110**  
LOA>200 m  
incl. valve unit TV 784



**SUPERTYFON AT 150/130**  
75<LOA<200 m  
incl. valve unit TV 784



**SUPERTYFON AT 150/165**  
75<LOA<200 m  
incl. valve unit TV 784



**SUPERTYFON AT 150/200**  
75<LOA<200 m  
incl. valve unit TV 784



**SUPERTYFON AT 150/330**  
75<LOA<200 m  
incl. valve unit TV 784



**TYFON MKT 75/260 E**  
LOA<75 m  
incl. valve unit TV 784



**TYFON MKT 75/-series**  
LOA<75 m  
MKT 75/350 and MKT 75/440  
incl. valve unit TV 784



**TYFON KT 75/400**  
LOA<20 m



**TYFON MLT 75/345**  
LOA<20 m  
incl. compressor CK30  
and pushbutton TL80



**TYFON MKT 75/660 and 800**  
for onboard alarm purposes  
Valve unit TV 88 optional

## TYFON® - Electrical



**ELECTRO-TYFON MTX 150/130**  
LOA>200 m  
incl. contractor box TK 80/90



**ELECTRO-TYFON MT 150/130 and 150/140**  
75<LOA<200 m  
incl. contractor box TK 75/85



**TYFON ETD 150/350**  
LOA<75 m  
incl. power amplifier MTK 250  
Electronic



**TYFON LP 75**  
LOA <75 m  
Electrical



## TYFON® - Mechanical Bell and Gong

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**Bell KB 30**  
Electro-mechanical



**Gong KG 50**  
Electro-mechanical

## TYFON® - Electrical Bell and Gong

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**Bell and Gong B and G 500**  
Electronic



**Bell and Gong BG 300**  
Electronic

## TYFON® - Signal Controller

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**TLG 2000 Signal Controller**  
For one/two whistles, manoeuvring light, Bell and Gong and GEA



**TI 98 Signal Controller**  
For one/two whistles, and manoeuvring light

## TYFON® - Valves

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**Valve unit TV 784**

## TYFON® - Sound Signal Surveillance

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**S900 Sound System Surveillance System**  
Incl. 4 microphones

## TYFON® - Push-buttons and Manoeuvre light



**Morse Key TL 70**  
Box or panel mounting



**TL 80 GEA (General Emergency Alarm)**  
**TL 80 AS (Abandon ship)**



**TL 80 and TL 85 (with lamp)**  
Box or panel mounting



**Manoeuvring light AM 760**

## ALARM - Onboard

TYPE	POWER SOURCE	FREQUENCY, HZ
MKT 75/460	Air-driven	460
MKT 75/660	Air-driven	660
MKT 75/800	Air-driven	800
KTV 75/ 400	Air-driven	400
MKEV 75/460-660	Air-driven	460-660 (CO <sub>2</sub> Alarm)

## ACCESSORIES

TYPE	EQUIPMENT
AM 760 and RWT 16 M	Manoeuvring/Signalling Light
TL 80, TL 85	Push-button
TL 70	Morse Signal Key
TV 88 or TV 89	Solenoid Valves
TI 66	Signal Controller for Bell and Gong, KB 30 and KG 50 (electro mechanical)
TI 65	Signal Controller for Bell and Gong, B and G 500 (electronic)
GEA	General Emergency Alarm

## TYFON® - Signalling: Vessels > 200 m

TYPE	POWER SOURCE	FUNDAMENTAL FREQUENCY, Hz	IMO MINIMUM REQUIRED 1/3 RD OCTAVE BAND LEVEL AT 1 M, dB	IMO REQUIRED FUNDAMENTAL FREQUENCY, Hz
MKT 150/90	Air-driven	90	143	70-200
MKT 150/110	Air-driven	110	143	70-200
MTX 150-120 <sup>2)</sup>	Electrically driven	120	143	70-200
MTX 150-130	Electrically driven	130	143	70-200

<sup>2)</sup> Option

## TYFON® - Signalling: Vessels > 75-200 m

TYPE	POWER SOURCE	FUNDAMENTAL FREQUENCY, Hz	IMO MINIMUM REQUIRED 1/3 RD OCTAVE BAND LEVEL AT 1 M, dB	IMO REQUIRED FUNDAMENTAL FREQUENCY, Hz
AT 150/130	Air-driven	130	138	130-350
AT 150/165	Air-driven	165	138	130-350
MT 150/130	Electrically driven	130	138	130-350
MT 150/140 <sup>2)</sup>	Electrically driven	140	138	130-350
AT 150/200	Air-driven	200	138	130-350
AT 150/330	Air-driven	330	138	130-350

<sup>2)</sup> Option

## TYFON® - Signalling: Vessels < 75 m

TYPE	POWER SOURCE	FUNDAMENTAL FREQUENCY, Hz	IMO MINIMUM REQUIRED 1/3 RD OCTAVE BAND LEVEL AT 1 M, dB	IMO REQUIRED FUNDAMENTAL FREQUENCY, Hz
AT 150/330	Air-driven	330	130	250-700
MKT 75/260	Air-driven	260	130	250-700
MKT 75/350	Air-driven	350	130	250-700
MKT 75/440	Air-driven	440	130	250-700
ETD 100/350*	Electronic	350	130	250-700
LP 75	Electrial	350	130	250-700

### Only for vessels < 20 m

KTV 75/400	Air-driven	400	120	250-700
MLT 75/345	Electrically driven (compressor)	345	120	250-700

(\*can be used on river tonnage)



TYFON® takes its heritage from the world renowned Kockums Shipyard in Malmo. The air driven ship's whistle was invented at the Kockum shipyard almost one hundred years ago (1918) and has since been continuously developed and improved to meet the demanding and dynamic needs of the world wide shipping industry.

## Delivery as a success factor

To ensure prompt and reliable customer support our products and spare parts can be dispatched from any of our wholly-owned subsidiaries within the Kockumation group dependent on the location of the customer. Key factors such as quick delivery and good customer support are heavily focused upon and this is reflected by our brand new Asian hub that has been established to supply our complete product range of Kockum Sonics and Kockumation Group products within the Asian territories.

## Type approved

TYFON® is type approved by all of the major classification societies and by many of the regional societies where required.

All production sites within the Kockumation group are subject to the same exacting quality assurance procedures and consequently Kockum Sonics and Polarmarine are accredited by DNV to the rigorous ISO 9001-2008 QA-system approval standard.





## SERVICE AND SUPPORT THE COVERAGE YOU DESERVE

The Kockumation Group has a world-wide network of fully owned subsidiary companies that spans the globe with branch offices in Switzerland, Great Britain, Russia, China and The Philippines. In addition to these, the Group has a global network of local agents many of which are capable of providing local service and support for the TYFON® range of marine signalling equipment. Through this extensive combination the Kockumation Group aims to provide as much local assistance where and when it is needed most.

For a complete list of all companies and agents with full contact details please see our main webpage and then 'Search Representatives'.



- KOCKUMATION GROUP OFFICES
- TYFON SERVICE REPRESENTATIVE

**KOCKUMATION** GROUP



Kockum Sonics

Texon



POLARMARINE

# KOCKUMATION GROUP

let us add value to your onboard operation

Markets and designs high-quality niche products revolving around our core knowledge in software automation, acoustics and mechatronics.

The group focuses on meeting demanding needs in the world wide marine and industrial markets with a strong commitment to customer satisfaction.



Has built up an outstanding knowledge base and is always keen on new innovations. The marine product line consists of ship automation, loading computer, level gauging, ship whistle system and on board boiler sonic cleaning method.



Polarmarine has since the beginning developed tank cleaning machines for all type of vessels with the onboard operation in focus. Polarmarine can supply the ship owner a complete product range including full cleaning pattern but with a reduced time cycle and less slop.



Provides turn-key LNG automation solution packages. Combustion control system, burner management as well as boil of gas control is core knowledge. Texon Automation has over 30 years experience in newbuildings and retrofit projects.

**Our strength - your benefit!**







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**KOCKUMATION** GROUP



**Kockum Sonics**

*Texon*



**POLARMARINE**

[www.kockumation.se](http://www.kockumation.se)