Behrens PUMPS
KRAL screw PUMPS K series
PF AFG Eccentric helical rotor pump
Operation and Maintenance Manual with Spare Parts List.

The following PUMPS are included in SET:

**Behrens VRF 9/320SD G Double suction inline centrifugal pump** (Main sea cooling water pump) – Data sheet, Installation drawings, Operating instructions, Sectional drawing of the pump and parts list.
FLENDER Arpex Steel couplings Series K430 Sizes 80 to 820 – Operating Instructions with parts list.

**Behrens SFN 61 G Centrifugal pump with axial inlet** (Sea water pump for evaporator) - Data sheet, Installation drawings, Operating instructions, Sectional drawing of the pump and parts list.

**Behrens VRF 5/350 G Vertical inline centrifugal pump** (ME Cylinder cooling water pump) - Data sheet, Installation drawings, Operating instructions, Sectional drawing of the pump and parts list.

**Behrens VRF 9/350 G Vertical inline centrifugal pump** (LT fresh water pump main operation) - Data sheet, Installation drawings, Operating instructions, Sectional drawing of the pump and parts list.

**Behrens VKR 441 WW G Horizontal selfpriming side channel pump** (Filling up fresh water pump) - Data sheet, Installation drawings, Operating instructions, Sectional drawing of the pump and parts list.

**Behrens VKR 334 WW G Horizontal selfpriming side channel pump** (Boiler feed water pump) - Data sheet, Installation drawings, Operating instructions (VKO/VKR 110-550 W(W)), Sectional drawing of the pump and parts list.

**Behrens SOH 331 W G Side channel pump** (Feed water filling up pump) - Data sheet, Installation drawings.

**Behrens VRW 7/290 G Centrifugal pump with axial inlet** (Ballast/Spare Bilge pump) - Data sheet, Installation drawings, Operating instructions, Sectional drawing of the pump and parts list.

**Compressed air ejector VATEC (TYPE AELG 35/45/55/65)** - Maintenance and repair, Disassembly and assembly of the compressed air ejector, Disassembly and assembly of the jet system, Disassembly and assembly of the shut-off system, Dimensions, Spare parts, Circuit Diagramm.

**Behrens VRW 3/350 G Centrifugal pump with axial inlet** (Fire pump) - Data sheet, Installation drawings, Operating instructions, Sectional drawing of the pump and parts list.
Behrens VRW 5/420 G Centrifugal pump with axial inlet (Emergency fire pump forward quarter) - Data sheet, Installation drawings, Operating instructions, Sectional drawing of the pump and parts list.

Vacuum pump VATEC (TYPE ASED-C) – Installation, Maintenance and repair, Spare parts, Disassembly and assembly of the vacuum pump, Dimensions, Installation example, Disturbances, Circuit diagram, Fittings.

Vacuum controlled Shut-Off Valve VATEC (Type VEP) – data sheet.

KRAL KV 851 + 160 3 spindle screw pump foot mounted (Fuel transfer pump) - Data sheet, Installation drawings, Operating instructions, Sectional drawing of the pump and parts list for K screw pumps series (from K 5 to K 1701 pumps).

PF AFG 1063 B Eccentric helical rotor pump - Progressive cavity pump (Oil residue pump) - Data sheet, Installation drawings, Operating instructions, Sectional drawing of the pump and parts list.

KRAL KF 118 + 100 M 3 spindle screw pump flange mounted (Fuel supply pump ME and AEs) - Data sheet, Installation drawings, Operating and maintenance instructions with good photos, Sectional drawing of the pump and parts list for screw pumps K series with magnetic coupling (from K 5 to K 1701 pumps).

KRAL KF 160 + 132 M 3 spindle screw pump flange mounted (Fuel circulating pump) - Data sheet, Installation drawings, Operating and maintenance instruction the same as above.

KRAL AEs KF 55 + 100 M 3 spindle screw pump flange mounted (Fuel circulating pump) - Data sheet, Installation drawings, Operating and maintenance instruction the same as above.

KRAL AEs KF 55 + 90 3 spindle screw pump flange mounted (MDO supply pump) - Data sheet, Installation drawings, Operating and maintenance instruction the same as above.

AUDOLI & BERTOLA Division of GRUPPO ATURIA VAL 250/2R Vertical deepwell centrifugal pump (Main lube oil pump) - Data sheet, Installation drawings. Operating and maintenance instructions with Parts list for the following type of pumps:

- pump type VAL 152 without bearing bracket
- pump type VAL 152 with bearing bracket
- pump type VAL 200
- pump type VAL 250
- pump type VAL 302 with centring sleeve
- pump type VAL 302 with keyed impeller
- pump type VAL 349 with centring sleeve
- pump type VAL 349 with keyed impeller
- pump type VAL 351

PF AFG 40.1 B Eccentric helical rotor pump - Progressive cavity pump (Oil residue pump) - Data sheet, Installation drawings, Operating instructions, Sectional drawing of the pump and parts list.
KRAL KF 20 + 71 3 spindle screw pump flange mounted (Cylinder oil pump) - Data sheet, Installation drawings, Operating and maintenance instruction the same as above.

KRAL Hand pump K2 1" (Drain pump bow thruster, Cylinder oil hand pump) - Data sheet, Installation drawings - BONUS

KRAL KF 5 + 71 3 spindle screw pump flange mounted (MDO transfer pump for incinerator plant) - Data sheet, Installation drawings, Operating and maintenance instruction the same as above.

Herborner Pumpenfabrik UNISELB 45-131/0222 SH self-priming pumps (Greywaterpump) - Data sheet, Installation drawings, Operating instructions with parts list - BONUS