

### 1.3 Main components

|   |   |
|---|---|
| Main engines  | 2 x MTU 16 V 4000 M 90 2750 kW at 2100 rpm                |
| Marine gears  | 2 x ZF BW 7550 (ratio = 2.241:1)                          |
| Propulsion system   | 2 x KAMEWA 71 S II  |
| Generators  | 2 x KOHLER 70EFOZ 400 V 50 Hz 70 kW                       |
| Bilge/firefighting/washdown pump (AC)                                     | GIANNESCHI ACM 501 BT 400 V 3-phase                       |
| Bilge/firefighting/washdown pump (DC)                                     | GIANNESCHI ACM 501 BT 24 V DC                             |
| Automatic bilge pumps   | 2 x GIANNESCHI MINISUB 24 V DC                            |
| Fuel cleaning system  | ALFA LAVAL MAB 104 400 V 3-phase                          |
| ALFA LAVAL tank drain pump  | GIANNESCHI ACB 61 230 V 1-phase                           |
| Oil change pump   | GIANNESCHI FQ 25 230 V 1-phase                            |
| Fuel transfer pump  | GIANNESCHI ACB 80 400 V triple-phase                      |
| Black/grey water treatment system   | HAMANN MINICOMPACT 400 V 3-phase                          |
| Engine room blowers/extractors  | 6 x GIANNESCHI ELL/R 560 400 V 3-phase reversible         |
| Freshwater pressure pumps   | 2 x GIANNESCHI JET 518 400 V 3-phase                      |
| Hot water circulation pump  | GIANNESCHI Z 25 230 V 1-phase                             |
| Silver-ion sterilizer   | IDROMAR   |
| Portable pump   | GIANNESCHI BMA 40   |
| Blackwater tank drain pump  | GIANNESCHI ECO MV 44 400 V 3-phase                        |
| Air conditioning system   | FRIG IT 400 V 3-phase                                     |
| Desalinators  | 2 x IDROMAR MC5 DX 230 L/h 400 V 3-phase                  |
| Sterilizer  | IDROMAR SH 6000 230 V 1-phase                             |
| Toilets   | TECMA   |
| Water heaters   | 3 x GIANNESCHI 120 litres 400 V 3-phase                   |
| Battery charger   | DOLPHIN 24 V 50/100 A                                     |
| Generator battery charger   | DOLPHIN 24 V 20 A   |
| Emergency battery charger   | DOLPHIN 24 V 30 A   |
| Main engine starter battery capacity                                      | 2 x 24 V 220 Ah   |
| Generator starter battery capacity  | 2 x 24 V 60 Ah  |
| MTU battery capacity (normal power supply)                                | 24 V 110 Ah   |
| MTU battery capacity (emergency power supply)                             | 24 V 110 Ah   |
| Emergency battery capacity  | 24 V 156 Ah   |
| Anchors   | 2 x SEC SHHP 212 kg (galvanized)                          |
| Anchor chains   | 2 x D 16 mm POSIDONIA 140 metres with spring              |
| Windlasses  | 2 x MAXWELL VWC 600 4.4 kW 400 V 3-phase                  |
| Warping winches   | 2 x MAXWELL VC 3 kW 400 V 3-phase                         |
| Main engine fuel separator filters  | SEPAR SWK/2000/40/UMS                                     |
| Generator fuel separator filters  | SEPAR SWK/2000/5/MK                                       |
| Hydraulic module for steering and autopilot                               | KAMEWA  |
| Multifunction hydraulic module for aft hatch, gangway and swimming ladder | SANGUINETI CHIAVARI 400 V 3-phase 5 kW                    |
| Hydraulic modules for waterbike hoists                                    | 2 x BESENZONI 400 V 3-phase 3 kW                          |
| Bow thruster  | AMERICAN BOW THRUSTER 400 V 3-phase 45 kW 16" TRAC SERIES |