



# SEABOATS

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## NEW BUILD - 31.18m Superyacht L101



### Listing ID - 3682

**Description** NEW BUILD - 31.18m Superyacht L101

**Date Launched** Built to Order

**Length** 31.18m (102ft 529in)

**Beam** 6.85m (7.15m) / 22ft 47in (23ft 45in)

**Draft** 1.95m (6ft 39in)

**Note** 95.00 T (209,430 Lbs)

**Location** Thailand

**Broker** Clive Bennett  
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**Price** POA

### Ladenstein 101 - Main Characteristics

Model: Ladenstein 101

Builder: Ladenstein Shipyard Co. Ltd

Exterior Styling & Concept: Ing. Markus Ladenstein

Interior Designer: Ing. Markus Ladenstein

Length O. A.: 31.18m (102ft 529in)

Beam O. A. 6.85m (7.15m) 22ft 47in (23ft 45in)

Draft: 1.95m (6ft 39in)

Displacement Lightship: 95.00 T (209,430 Lbs)

Construction: GRP

Fuel Tank: 10,000 L + 3,000 L Long Range (2,642 Us Gallon + 792 Us Gallon Long Range)

Fresh Water Tank: 2,000 L (528 Us Gallon)

Black Water Tank: 600 L (158 Us Gallon)

Owner and Guests Accommodation: 10 Persons In 5 Cabins

Crew Accommodation: 1 Captain and 4 Crew in 3 Cabins and 2 Bathrooms

### **Main Machinery and Performance**

Main Engines: 2x CAT C32 Acert– 1925 Hp (2x MTU 16 V V2000 M96 – 2434 Hp)

Max Speed: 21 - 23 Kts (23 - 26 Kts)

Cruising Speed: 18 - 20 Kts (20 - 23 Kts)

Long Range Cruise: 10 Kts Up To 1,400 Nm

Generator Standard: 2x Genset 35 Kw

### **PRELIMINARY MAIN SPECIFICATION - 2021.08.19**

#### **DETAILS OF THE HULL**

VINYLESTER RESIN is used for the first coats of the hand laid-up lamination below the water line. This kind of resin is extremely effective in preventing osmosis thanks to its chemical and physical characteristics.

Worldwide acknowledged quality Isophtalic resin is used for all the stages of the hand laid-up lamination process.

High quality PVC with outstanding mechanical peculiarities is used for hull sides, main deck and superstructure lamination with sandwich. Engine room and collision bulkheads are laminated in sandwich.

All other internal bulkheads are built using advanced composite materials.

#### **MAIN ENGINES**

2 X CAT C32 Acert – 1,925 mHP @ 2,300 rpm

#### **GEARBOXES**

2 x ZF 3060, reduction rate 3:1, installed on resilient mountings.

#### **SHAFTS**

Marinox 17, Ø 110 mm, supported by brass stands and tubes.

Fluiten shaft seals, or equivalent

#### **PROPELLERS**

Number of blades: 5 Diameter: 1150 mm, Material: NiBrAl

#### **STEERING RUDDERS**

BCS (hydraulic steering) Rudders in Aisi 316

Rudder holes in brass and pole of the rudders in Marinox 17

Bar and yoke in carbon steel

#### **FLAPS**

BCS (hydraulic) Tab size: 980 X 600 mm.

#### **BOW THRUSTER & STERN THRUSTER**

Bow Thruster: Side Power Hydraulic thruster SH 550 (Thrust 550 kg)

Stern Thruster: Side Power Hydraulic thruster SH 420 (Thrust 420 kg)

#### **MOORING**

Two 125 Kg high holding power anchors in galvanized steel.

Two 100m stud less chains in galvanized steel (13mm of diameter)

Built-in stainless-steel bow protections (Anchor/chain)

Bow - Two anchor winches 4000 W – 230V/50-60HZ/three phase  
Aft cockpit – Two mooring winches 2000 W - 230V/50-60HZ/three phase  
Six cleats (two on aft, four on bow).  
Six fairleads (two on aft, four on bow).  
Two fairleads with integrated cleats amidships  
Two pop-up cleats on the swim platform

## **SUN ROOF**

GRP Sun Roof with electric sliding hatch  
GRP Mast (aft)

## **SUN DECK**

Staircase to Wheelhouse with GRP sliding door  
Direct access to Fore Deck Lounge (port and Starboard)  
L-shaped sofa with cushions. (port forward)  
Sun lounge with cushions and storage trays underneath (starboard forward)  
Japanese Galley (port center) equipped with

- Sink & faucet
- Cooler/Freezer
- Japanese Teppanyaki grill
- Storage cabinets
- Trash bin
- 2 breakfast benches

Cabinet for storage (port forward behind L-shaped sofa)  
Big Dining Table for 10 persons (starboard center)  
Staircase to Cockpit with GRP hatch and stainless hand rails  
Two L-shaped sofa with cushions. (aft port and starboard)  
Storage (aft port and starboard)  
Stainless hand rails/glass balustrade  
Courtesy lights  
Two Freeing ports with overflow system  
Teak-laid decking (12 mm)  
Covers for sofas, tables and console

## **SUN DECK - HELM STATION**

Steering place windscreen  
Helm Station:

- Big GRP instrument hatch (instrument console fully close able)
- Steering wheel
- Main engines controls
- Main engines and gear boxes gauges
- Navigational equipment (For details please refer to Electronics - Sun Deck Helm Station)
- Bow and stern thruster control
- Anchor winches control
- Navigation lights control
- Horn control
- Search light control
- Fire extinguisher pump control (chain wash)
- Maneuvering intercom

Steering platform with 2 Pilot seats (fully turn able)

Steering platform height adjustable

(a) 20 cm elevated electrically for perfect view (Operation mode)

(b) Flush with floor (Living mode)

Wing station (port and starboard) for easy maneuvering

## **FORE DECK**

Direct accesses from Sun Deck (Port and Starboard)

Integrated staircase from Main Deck (Port and Starboard)

Sun lounge with cushions (center aft)

Two Sun lounges with cushions (Port and Starboard)

Center table

Sofa/Alfresco Dining Table (Forward)

Emergency escape hatch from Owner cabin

Teak-laid decking (12 mm)

Stainless hand rails

Courtesy lights

Covers for sun lounges

Chain locker with drainage.

Chain washer

Storage area for fenders integrated in the forward area of the chain locker

Fresh water connection.

Intercom

Cable controls for anchor winch and chain washer.

Lights in the mooring area.

Teak-laid decking (12 mm)

Drainage holes

## **WHEELHOUSE**

Three window wipers for forward windscreen.

Black mesh covers for the wheelhouse forward/side windscreen windows

Sofa (middle aft)

Charts surface on starboard

Staircase to Sun Deck

Reading light

Lights and upholstery

Wheelhouse console equipped with:

- Main engines controls,
- Main engines and gear boxes gauges,
- Navigational equipment (For details please refer to Electronics Wheelhouse)
- Bow/Stern thruster controls.
- Intercom controls,

12" touch-screen monitoring system for:

220Vac – 24Vdc System: Window wipers, engine room fans, hydraulic steering

Navigation: Navigation lights, horn

Tanks: Fuel transfer pump, daily fuel tank level, storage fuel tank level,

Fresh water tank level, sewage/grey water pump, sewage/greywater tank

Bilge system: Bilge pump display and controls, main bilge pump control

220 Vac sources: on/off switch and overload alarm for generator 1,

on/off switch and overload alarm for generator 2, on/off switch for the shore power connection, gauges (tension, Amp, kW and

frequency) for diesel generators, gauges (tension, Amp, kW and frequency) for shore power  
24Vdc sources: gauges (tension, charging and discharging Amp) for service batteries, gauge (tension) for main engines starter batteries, gauge (tension) for generator starter batteries safety systems: fire alarm panel with smoke detectors placed as follows: saloon, dining area, galley, wheelhouse house, owner cabin, lower deck lobby, crew corridor, engine room.

### **MAIN DECK SIDES**

Ladenstein logo on each side of superstructure  
Stainless steel handrail on bulwark  
Two fuel fillers, one on each side of the superstructure, inside adequate cabinet  
Two fresh water intakes, one on each side of the superstructure, inside adequate cabinet  
Watertight halogen lights on the ceiling  
Courtesy lights  
Windows in high thickness tempered glass bonded to the superstructure without metal frames  
Two water mist separators (Munters) installed in way of the engine room ventilation air grids  
Weathertight door on portside of the superstructure for direct access to the galley  
Weathertight sliding doors on starboard and port side of the superstructure for direct access to the Main Deck Salon  
Drainage holes  
Teak-laid decking (12 mm)

### **TRANSOM**

Hydraulic transom door with Teak laid flooring  
Integrated garage designed to host tender and jet ski.  
Launching and recovering system for tender in the garage  
Structural staircases to access the swim platform  
Stainless steel handrail on the external side of each staircase  
Electro-hydraulic retractable gangway in stainless steel and teak on transom  
Manual swim ladder in stainless steel and teak  
Shore power connection and TV/telephone inlets placed inside cabinet on transom  
Fresh water shore connection, shower, fresh water outlet inside cabinet on transom  
Black water shore discharge system inside cabinet on transom.  
Two pop-up cleats on the swim platform.  
Teak-laid decking (12 mm)  
Name of the yacht and port of registry in stainless steel letters on transom

### **BEACH CLUB**

Optional: Tender  
Storage for diving equipment  
Jet Ski  
Scuba compressor (Bauer or similar)

### **COCKPIT**

Integrated staircase to Sun Deck,  
Sofa transformable with moving backrest (a) Dining area (b) Sun Lounge  
Dining table for 10 persons  
6 folding chairs  
Control panel for the gangway, garage door and the launching/recovering system  
Salon door in tempered glass and stainless steel.

Two stainless steel gates to access the swim platform/Beach Club  
Watertight halogen lights in the ceiling  
Courtesy lights  
Storage for fenders and robes  
2 Fear leads  
4 Cleats  
2 Robe winches  
Stainless-steel handrail/glass balustrade  
Teak-laid decking (12 mm)  
Covers for the settee and the table

### **MAIN DECK SALON/DINING AREA**

Two L sofas in leather/fabric  
Two Coffee tables  
One cabinet with shelves, storage and A/V equipment  
Retractable TV in the middle with electric mechanism to lift up from the cabinet.  
Cabinet with storage on each side.  
One storage cabinet in the middle of the bow bulkhead.  
Two doors on the bow bulkhead to access the galley and the owners cabin.  
Dining table with 10 dining chairs.  
Weathertight sliding doors on starboard and port side  
Light and curtains

### **MAIN DECK FOYER**

Main deck foyer leads to:

- Pantry/Galley
- Wheelhouse
- Lower Deck accommodation
- Owner cabin
- Day head

### **PANTRY**

Dinette with two seats and table foldable for access to storage room)  
Storage cabinets on portside  
Lights, curtains and upholstery

### **GALLEY**

Weathertight door on portside for direct access to the Main Deck  
Storage room (center under wheelhouse)  
Galley lower/hanging cabinets with drawers and shelves  
Staircase to the crew quarters  
Lights  
Galley top in Granite, Silestone or similar  
Galley appliances

- Cooler/Freezer
- Induction oven
- BBQ/Microwave
- Dish washer
- Sink in stainless steel and faucets
- Waste bin

## **DAY HEAD**

Cabinets  
Mirror  
Electric WC  
Sink and faucet  
Toilet accessories  
Lights

## **OWNER'S FOYER**

Shoe cabinet with mirror, (port)  
Closet with hanging bars and shelves (star board under stair)  
Lights, curtains and upholstery.

## **OWNER'S PRIVATE LIVING ROOM**

Closets with drawers, hanging bars and shelves (starboard and port)  
L- Sofa  
32" TV  
Safe  
Lights, curtains and upholstery.

## **OWNER CABIN**

Double bed with storage underneath  
Two nightstands with drawer  
Two Chairs with coffee table (starboard)  
Lounge chair with coffee table (port)  
Two large windows (port and starboard)  
32" TV  
Lights, curtains and upholstery

## **OWNER BATH**

Simultaneous double Sliding door  
Mirror  
Double sink with faucets  
Shower unit with column and central rain shower.  
Bath tub  
Air extraction.  
Opening porthole.  
Lights, curtains and upholstery

## **OWNER TOILET**

WC  
Toilet accessories.

## **LOWER DECK LOBBY**

Lower deck lobby leads to:  
- VIP Cabin 1  
- Guest Cabin 1 and 2  
- VIP Cabin 2

### **GUEST CABINS 1**

Two single beds with drawers and storage underneath

Single beds are transformable to 1 double bed

Nightstand with drawers

Wardrobe with hanging bar, shelves and drawers

Big window

22" TV

Lights, curtains and upholstery.

### **GUEST BATH 1**

Wash dish with sink, faucets and drawers

Mirror

WC

Shower unit with column and central rain shower on ceiling,

Storage with shelves and fiddles

Air extraction.

Big Window with opening porthole

Lights and curtains

Towel bar and accessories

### **GUEST CABINS 2**

Two single beds with drawers and storage underneath

Single beds are transformable to 1 double bed

Nightstand with drawers

Wardrobe with hanging bar, shelves and drawers

Large window with opening porthole

22" TV

Lights, curtains and upholstery

### **GUEST BATH 2**

Wash dish with sink, faucets and drawers

Mirror

WC

Shower unit with column and central rain shower on ceiling,

Storage with shelves and fiddles

Air extraction.

Large Window with opening porthole

Lights and curtains

Towel bar and accessories

### **VIP CABIN 1**

Double bed with drawers and storage underneath,

Nightstand with drawers

2 Chairs with coffee table (port)

Large window with opening porthole

26" TV

Lights, curtains and upholstery

### **VIP BATH 1**

Wardrobe with hanging bar, shelves and drawers



Double wash dish with sink, faucets and drawers

Mirror

Vanity desk with mirror and chair

Shower unit with column and central rain shower on ceiling,

Bath tub

WC (in separate room)

Storage with shelves and fiddles

Air extraction

Large Window with opening porthole

Lights and curtains

Towel bar and accessories

## **VIP CABIN 2**

Double bed with drawers and storage underneath,

Nightstand with drawers

Wardrobe with hanging bar, shelves and drawers

1 Sofa (starboard)

Large window with opening porthole

26" TV

Lights, curtains and upholstery

## **VIP BATH 2**

Wardrobe with hanging bar, shelves and drawers

Wash dish with sink, faucets and drawers

Mirror

Shower unit with column and central rain shower on ceiling,

WC

Storage with shelves and fiddles

Air extraction

Large Window with opening porthole

Lights and curtains

Towel bar and accessories

## **LOWER DECK – CREW QUARTERS**

Access from the galley corridor staircase (center)

- Crew corridor

- Crew cabin 1 & 2

- Captain's Cabin

- Crew mess

- Crew Bath 1 & 2

### **CREW CABIN 1 (aft port)**

Two single beds with storage underneath

Night stand

Wardrobe

Porthole

Lights, curtains and upholstery

### **CREW CABIN 2 (aft starboard)**

Two single beds with storage underneath

Night stand  
Wardrobe  
Porthole  
Lights, curtains and upholstery

#### **CAPTAIN'S CABIN (starboard)**

Big single bed with storage underneath  
Night stand  
Wardrobe  
Porthole  
Lights, curtains and upholstery

#### **CREW MESS (port)**

L-Sofa with storage underneath  
Porthole  
Lights, curtains and upholstery

#### **CREW BATH 1 (port)**

Sink  
Mirror and cabinet with shelves  
WC  
Shower  
Porthole  
Lights, curtains and upholstery

#### **CREW BATH 2 (starboard)**

Sink  
Mirror and cabinet with shelves  
WC  
Shower  
Porthole  
Lights, curtains and upholstery

#### **ELECTRICAL SYSTEM**

The whole system has been carried out according to the I.E.C. and C.E.I. rules.

The voltages on board are the following:

- 220 V a.c. triphase, 50 Hz, for power circuits
- 220 V a.c. single phase, 50 Hz, for: lights in the engines room, lights in the technical areas, sockets
- 24 V a.c. single phase, 50 Hz, for: external lights, internal lights;
- 24 V c.c. with grounded negative for: emergency circuits, spotlights, headboards and courtesy lights small users, navigation lights, navigation electronics

Electrical wiring is housed in metal or self-extinguishing closed PVC conduits

Electrical wiring is constructed with no flammable materials and with proper cross section related to the use

Additional empty conduits (40mm of diameter) in the following areas:

- One conduit from the roll bar (starboard side) to the A/V rack cabinet in salon;
- One conduit from roll bar (portside) to the technical area under the wheelhouse console;
- One conduit from the A/V rack cabinet in salon to lower deck accommodation.

The main electrical panel is installed in the engine room.

Secondary electrical panels are installed in all areas of the yacht.

All equipment have ground junctions with adequate cords and braiding of copper or aluminum with proper cross section.

The ground system is integrated to the cathodic protection system and is made up by a ring of copper straps going all around the yacht, connected to two zincs on transom.

The ground system is the following:

- ground system for machinery, sea water intakes, etc.
- ground system for electrical circuits, which joins all control panel grounds and electrical equipment grounds.

### **POWER SOURCES - GENERATORS**

Two 35 kw generators, 220V, 50Hz, three phase in engine room, installed on silent blocks

Sound shield box, control panel and 12V c.c starter.

Remote starter

### **SHORE POWER**

One 125A shore power connector on transom, connected to an insulation transformer 40kVA three phase with 400Vac input

### **BATTERIES AND CHARGERS**

Group of 24V gel batteries 1000Ah, for service/emergency

Two Groups of 24V batteries of 2 x 240 Ah for engine starter

Two groups of 24V batteries of 240 Ah for engine electronics.

Two groups of 12 V batteries of 2 x 120 Ah for generator starter.

One 75A 24V DC Master Volt automatic battery charger for service batteries

One 75A 24V DC Master Volt automatic battery charger for emergency batteries

One 75A 24V DC backup Master Volt battery charger for service batteries (switch to use it for the emergency batteries)

One 50A 24V DC Master Volt automatic battery charger for engine starter batteries

One 35A 12V DC Master Volt automatic battery chargers for generator starter batteries.

During the navigation, main engines' alternators will charge their own batteries

During the navigation gen sets' alternators will charge their own batteries

### **LIGHTING SYSTEM AND OUTLETS**

The engine room lighting is made by IP 65 lamps and neon lights

Lighting of cabins is done through LED spot lights. Each cabin is provided with the following:

- lights on ceiling: LED spotlights. All controls are close to entrance door and at the nightstand
- reading lights (LED lights) with controls at the nightstand
- LED lights on ceiling in the head with controls close to the door
- 220V outlets; Lighting of the internal main deck is defined as follows:
- ceiling lights (LED spotlights) with controls in various places;
- ceiling lights (LED spotlights) in the head compartments with controls close to the door;
- 220V outlets.

Lighting of the galley and crew quarters is defined as follows:

- Ceiling lights (LED spotlights) with controls in various places;
- 220V outlets.

Dimmer controls for all internal ceiling lights

(excluding galley, corridor, lobby, crew area, wheelhouse -red light -, and bath)

### **ELECTRONICS**

Due to continuous updating on the electronics field, the above electronic package may change at any time.

### **WHEELHOUSE**

Two AXIOM XL Glass Bridge Raymarine 16" displays  
Two Multifunction Raymarine I40 for speed and depth  
One Raymarine P70Rs autopilot display  
One Multifunction Raymarine I70 for compass  
One VHF Raymarine RAY 90  
One White Star BW3/3-142 Compass

#### **SUN DECK – HELM STATION**

One AXIOM XL Glass Bridge Raymarine 16" displays  
Two Multifunction Raymarine I40 for speed and depth  
One Raymarine P70Rs autopilot display  
One Multifunction Raymarine I70 for compass  
One VHF Raymarine RAY 90 repeater  
One White Star BW3/3-142 Compass

#### **ROLL BAR**

One Raymarine Magnum open array antenna HD digital 48" 4kw  
One Raymarine VHF Antenna  
One Raystar GPS antenna rs130  
Navigation lights  
Antennas  
Horn  
One Jabsco searchlight

#### **COMMUNICATION SYSTEM**

Phone system with phone outlets in the following areas (PABX central unit and telephones are not included):  
Wheelhouse, Salon, Master cabin, VIP cabins, Guest cabins, Captain's cabin  
Manoeuvring Intercom system with five stations:  
- control unit in wheelhouse  
- control unit on the sun deck  
- loudspeaker in the manoeuvring area on bow  
- loudspeaker in aft cockpit  
- loudspeaker and earphones in engine room

#### **ENTERTAINMENT SYSTEM**

(Due to the continuous updating on the TVs and hi-fi field, the following entertainment system package may change at any time)

##### **SALON:**

One 46" LED TV – Samsung or similar  
Blue Ray player/DVD player  
Bose Lifestyle 650  
One sub-woofer  
Four load speakers

##### **OWNER CABIN & OWNER'S PRIVATE LIVING ROOM:**

One 46" LED TV Samsung or similar  
Blue Ray player  
Bose Lifestyle 600  
One sub-woofer

Four loud speakers

**VIP CABIN (1 & 2):**

32" LED TV Samsung or similar

Blue Ray/DVD player

Two loud speakers

**GUEST CABIN (1 & 2):**

22" LED TV Samsung or similar

Blue Ray/DVD player

Two loud speakers

**CREW MESS:**

19" LED TV Samsung or similar

DVD player

Two loud speakers

**CREW CABINS (1, 2 AND CAPTAINS CABIN):**

CD/DVD player

Two loud speakers

**WHEELHOUSE:**

CD player

Two loud speakers

**AFT COCKPIT:**

Two JL 7" loudspeakers linked to salon stereo system

**BOW AREA:**

Two JL 7" loudspeakers linked to salon stereo system

**SUN DECK:**

Four JL 7" loudspeakers linked to salon stereo system

**FIRE ALARM AND SAFETY SYSTEM**

Fifteen portable extinguishers in all the areas of the yacht as follows:

- Three 2kg CO2 extinguishers
- One 2kg powder extinguishers
- Eleven 1kg powder extinguishers

Fire extinguisher system for the main engines:

- Manual control station, placed inside a cabinet located on aft port side of superstructure
- Shut off of the ventilation and extraction ducts in engines room.
- Shut off of the fuel valve at the day tanks.
- Connection to the electrical system for emergency stop of engines and generators and emergency switch-off of engine room fans/extractors and electrical pump for fuel transfer

Fire extinguisher system: smoke detectors are placed in the following areas:

- Engine room area (2)
- Lower deck lobby
- Salon/dining area (2)
- Galley

- Crew corridor
- Main deck foyer
- Wheelhouse

## **FUEL SYSTEM**

One GRP day tank and two GRP storage tanks. Each tank is provided with breather pipe and electric sensor for level monitoring.

Fuel levels and their alarms are visible in wheelhouse and on the main electrical panel

Fuel filling operation is carried through fuel fillers positioned on each side of the superstructure

Reversible electric pump (Gianneschi CP30 C1) with a capacity of 105 l/min (27,7 gals/min), to transfer fuel among fuel tanks. Controls on main electrical panel and on monitoring system in raised pilot house.

Manual fuel pump (Gianneschi Excelsior 2) with a capacity of 24 l/min (6.3 gals/min), to transfer fuel among fuel tanks in emergency.

Duplex Separ filters on engines

Single Separ filters on generators

## **BLACK AND GREY WATER TANKS**

One GRP gray/black water tank to collect water from showers and sinks, galley, washer/dryer, WCs and fan coil drip trays.

Four secondary collecting tanks (Johnson Pump cod. J09-13384) to collect the grey waters from heads and fan coil drip trays.

Electrical pump 220V with 42 lt./min. (11 gals/min) max. flow rate.

Copper piping in engine room and PVC piping in the other areas of the yacht.

## **BILGE SYSTEM**

The bilge system is made up by two parts: the main system, centralized with an automatic electric pump and a manifold, and a secondary one, with dedicated suctions in each compartment.

### **MAIN BILGE SYSTEM**

Centralized system with suction in each compartment connected to the main manifold positioned in engine room.

220 V electrical pump (Gianneschi ACM331-B), maximum capacity 140 lt/min (37 gals/min)

Emergency suction in engine room connected to one of the main engines sea water intakes

Copper piping in engine room and PVC piping in the other areas of the yacht

### **SECONDARY BILGE SYSTEM**

24 V electrical pumps in engine room and in the bilges under the accommodation, maximum capacity 57 lt/min (14.5 gals/min)

High level sensors in each compartment with alarms in the wheelhouse

## **FRESH WATER SYSTEM**

System can be fed via a structural tank, via a shore connection or via a water maker with nominal capacity of 180 lt./h. (Idromar MCJ3)

Plug for the shore connection in the aft

Two electrical pumps (one 220V and one 24V, model Gianneschi Jet4, capacity: 80 l/min – 21 gals/min) positioned in engine room pump water from tank to all users: washbasins, sinks, showers, electrical appliances, aft platform shower and washing deck hose.

Two Water heaters with 80 lt (21 gals) maximum capacity.

WC system is working with fresh water.

One 24V fresh water spare pump (not installed) is supplied.

One 220V fresh water spare pump (not installed) is supplied.

Press fitting piping in engines room and multilayer/press fitting piping in the other areas of the yacht.

### **SEA WATER SYSTEM**

Four seawater intakes in bronze and two seawater intakes in fiberglass with valves and filters: two for general utilities, one (in fiberglass) for each main engine and one for each generator

Fire main pump, air conditioning cooling pump and water maker are connected to the two sea water intakes for general utilities.

Part of main engines cooling water is used to cool the gear box and the raisers for gas discharge.

Sea water fire system with electric pump (Gianneschi ACM331-B), 220V, 140 lt./min., (37 gals/min.) max. flow rate, placed in engine room, and emergency manual pump (Gianneschi Excelsior 5), 60 lt./min max. flow rate. The pumps are connected to two fire hoses located on main deck, bow and aft.

The fire pump is also used for chain wash down.

CuNi 90/10 or Cunipress piping.

### **AIR CONDITIONING, VENTING AND EXTRACTOR SYSTEM**

Air-conditioning 192.000 BTU – water recirculation Fan coils spread in all the following areas with separate control:

- Salon: 2 x 17,000 BTU
- Dining area: 2 x 17,000 BTU
- Galley: 1 x 17,000 BTU
- Wheelhouse: 1 x 24,000 BTU + 1 x 9,000 BTU
- Owner cabin: 2 x 13,000 BTU
- Owner Bath: 1 x 9,000 BTU
- Guest cabin 1: 1 x 9,000 BTU
- Guest bath 1: duct from the cabin
- Guest cabin2: 1 x 9,000 BTU
- Guest bath 2: duct from the cabin
- VIP cabin 1: 1 x 13,000 BTU
- VIP bath 1: duct from the cabin
- VIP cabin 2: 1 x 13,000 BTU
- VIP Bath 2: duct from the cabin
- Crew cabin 1: 1 x 4,500 BTU
- Crew cabin 2: 1 x 3,000 BTU
- Captain cabin: 1 x 4,500 BTU

Centralized air extraction system for all the heads through two extractors.

Engine room venting system through two electric fans (220V) and two electric extractors (220 V) in order to guarantee good air circulation.

Air extractor for the technical area on aft

Air extractor for the batteries area

Galley hood and galley extractor

### **MAIN ENGINES AND GENERATORS EXHAUST SYSTEM**

Main engines exhaust ducts are made in AISI 316 for the wet part and AISI 304 for the dry part, and are insulated with proper composite material.

Raisers in AISI 316 for the engines exhaust cooling.

Generators exhausts ducts in rubber.

Each diesel generator exhaust system will have a muffler and a gas/water separator.

### **ELECTRO-HYDRAULIC SYSTEM**

One electro-hydraulic unit in the aft technical area for rudders, working at 24V and 220V.

One electro-hydraulic unit in the aft technical area for trim tabs, working at 24V.

One electro-hydraulic unit in the aft technical area for gangway, garage door and launching/recovering system for tender, working at 24V and 220V.

### SAFETY EQUIPMENT (NOT SUPPLIED IN US MARKET)

Two auto-inflatable life rafts for eight people on sun deck  
Two life rings, with emergency light  
Fourteen life jackets  
Portable extinguishers

### MISCELLANEOUS

Two mooring hooks.  
Two 27,5m (90'2") mooring lines (diam.: 30mm.)  
Two 2m (6'6") chains (diam.: 10mm)  
One 70m (229'8") towing line (diam.: 30mm.)  
Eight fenders with line (diam.: 14 mm.)  
One box of emergency rockets  
Two 15m. (50') floating lines  
Two stainless steel redance (diam.: 32mm.)  
Two buoys with 10m floating line  
English labelling in engine room and technical areas  
Owner's manual

### APPLIANCES (SEE INTERIOR ALLOWANCE FOR APPLIANCES)

Hob: Miele, Gaggenau,,...  
Hood: Miele, Gaggenau,...  
Dish washer: Miele, Gaggenau,...  
Oven: Miele, Gaggenau,...  
Fridge/freezer: Miele, Gaggenau, Liebherr,...  
Washing machine Miele  
Dryer: Miele  
Icemaker: Isotherm (or similar)







