



CRYSTAL MOON

Super Yacht

290' (88.5m)

Alarnia LLC design and construction

2020

With a gross tonnage of 3,642, **CRYSTAL MOON – Luxury explorer super-yacht** - has an unparalleled sense of space across her six decks. The yacht offers the finest in luxury and enhancing the onboard experience, including a double-level atrium, a devoted spa, a beauty salon, a well-equipped gym, and an four-levels elevator. Additionally, for easy access to the yacht regardless of its location is a garage parked four helipads with up-to-four helicopters on board.

The decks could be elevated and lowered depending on the weather conditions to adjust the gravity center in a bad storm – makes the yacht super-stable.

Weight distribution system would move the weight of the yacht forward when the ice needs to be broken or in a big wave has to be punched through.

Sophisticated and modern, the superyacht's interior is to be designed by Zaha Hadid styled Design Company and fit-out by Alarnia LLC team of designers. Floor-to-ceiling windows throughout the interior flood the space with natural light and provide endless vistas. Four spacious lounges and a double-level atrium.

Across ILLUSION PLUS' decks are a number of options for outdoor living, including large sociable areas for hosting guests and more secluded areas for privacy. The superyacht showcases numerous alfresco dining possibilities, copious lounging spaces, two Jacuzzis, and an ocean lounge with a bar right by the water's edge. Maximizing deck space for guests use the yacht's three tenders are housed in special lower deck tender garage.

General Specifications

8 Cabins
16 Guests
25 Crew
Price
TBA

Features

- Interior design by Zaha Hadid Company with interior fit-out by Alarnia LLC
- Naval architecture by Alarnia LLC
- Gross tonnage of 3,642 across six expansive decks
- Large spa with a sauna, steam room, massage room and lobby
- 860-square-feet (80 sq. meters) owner's suite with a private deck
- Main salon showcases a double-level atrium
- Rolls Royce diesel electric propulsion
- Beauty salon and gym
- Elevator to four decks
- Four garaged helipads for the helicopter of choice

Details

Length 290 FT (88.5 M)
Beam 50 FT (15.24 M)
Draft 13 FT (3.96 M)
Gross Tonnage 3642 Ton
Guests 16
Crew 25

Builders: **Alarnia LLC with its Partners:**

Nobiskrug, Germany
Amels/Damen, The Netherlands
Feadship, The Netherlands
Fincantieri, Italy
Abeking Rasmussen, Germany
Italian Sea Group, Italy
Perini Navi, Italy
Meyer Werft, Germany
Chantiers de L'Atlantique, France
Heesen Yachts, The Netherlands

Year Built 2022-2023

Construction Steel (Nippon)

Cruising Speed 15 knots (max speed 19 knots)

Details

LOA 290 FT (88.5 M)

Beam 50 FT (15.24 M)

Max Draft 13 FT (3.96 M)

Details

Cruising Speed 15

Max Speed 17

Gross Tonnage 3642 Ton

Water Capacity 148,994 Liters

Fuel Capacity 260,985 Liters

Details

Hull Material: Steel – Nippon Industries, Japan (spacecraft grade)

Full Specifications Design

-
- Wartsila or better hydrogen electric custom-built energy system
 - Diesel-electric Rolls Royce propulsion package including 2 x 1700 Kw Azipull thruster pods
 - 2 x Rolls Royce 2,225 Kw generators, Rolls Royce 540 Kw Bow thruster
 - Rolls Royce SAR retractable fin stabilizers
 - Heinen & Hopman HVAC system

- Dynamic Positioning System – DPO system provided by marine systems
- Touch-and-go helipad for EC 135 (uncertified)
- 5,000 nautical mile range

Engineering

- Wartsila or better hydrogen electric custom-built energy system
- Diesel-electric Rolls Royce propulsion package including 2 x 1700 Kw Azipull thruster pods
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General Specifications

- Delivery: 2022-2023 – depending on the construction start date; total time is 2.5-3 yrs to fully build, test, register and deliver
- Builder: Alarnia LLC with the partner of choice
- Type: Full displacement twin-Azipull, hydrogen/electric and diesel/electric powered motor yacht
- Classification: ABS A1, Commercial Yachting Service, E, AMS, ABCU, DPS-0, UWILD
- Construction: Hull Steel, Superstructure Aluminium with Titanium elements
- Exterior Designer: Alarnia LLC design team
- Interior Designer: Zaha Hadid Company with interior fit-out by Alarnia LLC
- Guests: 12 in 8 cabins (180 sq. meter Master Stateroom, 2 VIP and 5 Guest)
- Crew: 25 in 15 cabins

Mechanical Equipment

- Wartsila or better hydrogen electric custom-built energy system – all the details at a later stage
- Main Engines: 2 x Rolls Royce – Hydrogen and Diesel electric propulsion
- Engine & Generator Hours:
- AG1 409 / AG2 462 - MG1 990 / MG2 1220
- Fuel: Liquid hydrogen and diesel - MDO ISO 8217 DMX-DMA
- Propulsion: 2 x 1700kW Azipull Thruster pods
- Propellers: 2 x Rolls Royce
- Stabilisers: Rolls Royce Aquarius 100, zero speed retractable fins
- Bow Thruster: Rolls Royce – approx. 535kW
- Generators: Rolls Royce - 2 x 2225kW

- Emergency Generator: CAT - approx. 238kW
- Harbour Generator: 2 x CAT – approx. 550kW
- Electricity: Main 2 x 2225kW + Harbour 2 x 550kW + Emergency 238kW
- Shore Power: 2 x 1250A shore connection box
- Main Engine Start 2 x 27M3/H 30Bar 1175rpm 5.9kW SPERRE
- Service TMC Chargers 2 x (2x80) A
- Emergency: CAT 238kW
- Hydraulics: Ocean Stainless / CIMC
- Air Conditioning: Heinen & Hopman HVAC
- Water Maker 2 x Idromar Reverse Osmosis fresh water makers
- Water System: 2 x Deck wash pump set and 3 x fresh water supply pump set
Gianneschi
- Toilet System: EVAC Sewage System Technicomar / ECOMER
- Fuel Centrifuge: 2 x Max Flow 1950l/h ALFA-LAVAL
- Bilge Oil Separator: Facet International

Tank Capacities

- Diesel Fuel: 261000 l / 68945 g
- Water / Hot Water: 149000 l / 39360 g
- Lube Oil: 4600 l / 1215 g
- Dirty Oil: 9000 l / 2375 g
- Grey Water: 27000 l / 7130 g
- Black Water: 16300 l / 4305 g
- Hydrogen Fuel – to be determined

Navigation Equipment

- Magnetic Compass: Sperry Magnetic Compass JUPITER
- Gyro Compass: Sperry NAVIGAT X MK 1
- Automatic Pilot: Sperry Navipilot 4000
- Echo Sounder: Skipper GDS102
- Radar: Sperry Chart Radar X-band 25kW + S-band 30kW
- AIS: SAAB R5 Supreme AIS
- GPS: SAAB R5 Supreme DGPS
- Chart Plotter: Sperry Vision Master FT ECDIS
- Navtex: Sailor Navtex 6391
- Searchlights: Carlisle & Finch xenon
- Camera(s): VITECK PTZ / Dome

Communication Equipment

- Satcom: Sailor 6110 Mini-C
- VHF: Sailor 6222 VHF / DSC

- SSB: Sailor 6320 MF / HF 250W DSC
- Landline / Intercom: LTE / iPhone & UHF

Deck Equipment

- Anchor windlasses: 2 x combined reversible electrically driven vertical anchor winches/capstans installed on main deck forward
- Capstans: 2 x capstans are installed, one on each side of the swim platform, for handling of the mooring lines
- Anchors: 2 x hot-dip galvanizing HHP anchor
- Anchor chains: 2 x 247.5m of 36mm stud link chain, grade 3
- Boat crane and davits: 4 x Electric-hydraulic driven Twin Swing Arm Crane for tender operation; 1 x Electric driven Rescue Boat Crane
- Passerelle: Hydraulically operated telescopic passerelle
- Side boarding ladder: 2 x hydraulically operated boarding ladders
- Jacuzzi: 2 x luxury Jacuzzi pools
- Jacuzzi with waterfall on the aft main deck - dimension approx. 5m x 4m x 0.9m
- Jacuzzi on forward sun deck - dimension approx. 2.9m x 1.9m x 0.97m
- Spa Luxury spa area on the bottom deck including a sauna room, a steam room, a massage room and a lobby with a TV
- Swimming platform: Hydraulically Operated Marina
- Awnings: Multiplex awning system on upper deck forward and aft, bridge deck aft, and sun deck aft
- Covers: for fixed exterior furniture items

Entertainment

A high-quality integrated entertainment, lighting and blinds system will be provided throughout the vessel. For luxury areas, Crestron equipment will be used to manage the user interface via iPads and/or iPhones. The system includes dome antennas for high speed satellite broadband internet connection and satellite multimedia broadcasting.

Domestic Equipment

Galley

- Hood
- 2 x Undercounter dishwashers MIELE G7860, 1 x tall dishwasher METOS WD-7
- 2 x Combine steamer stacking together METOS MCMP61
- 1 x Salamander Metos OS2000, 1 x deep fryer EVO-600
- 1 x Bratt pan METOS Futura 85D, 1 x Range Futura PR6 + convection Chef 240
- Undercounter equipment: 1 x Ice maker METOS CB425A, 2 x cold drawers METOS Proff2NT1200-GN4-MGH
- 2 x Microwave METOS MDC182

- 2 x Full height fridge METOS MBC600 and 1 x full height freezer METOS MBF600

Laundry

- 4 x Sets of MIELE washing machines and dryer's, load capacity 6.5kg
- 1 x MIELE washing machine, load capacity 13kg
- 1 x MIELE dryer, load capacity 13 - 16kg

Crew Accommodations

- 1 x Captain cabin on bridge deck including office
- 10 x Crew cabins with bunk beds for 20 crew on lower deck
- 4 x Cabins with double bed for chief engineer, staff, purser and chief officer on lower deck
- Officer mess and hospital on lower deck and crew mess on bottom deck

Security, Safety, and Firefighting Equipment

- Safety Doors: hatches giving access to the yacht have sensors for monitoring open/close status through the alarm, monitoring and control system
- Security: A Maritron Marine security system is designed around four levels of security supplied by Telemar.
- Fire Fighting: Seawater firefighting equipment, SEMCO High-pressure water mist

Tender and Toys

- 1 x PASCOE SY9 Beachlander
- 1 x Cockwells 9.5m Limousine
- 1 x Fassmeer RIR 625

All final planning is to be confirmed by the shipyard – partner of choice – Alarnia LLC is a project manager

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