



AQUON One

3 cabins layout*

TECHNICAL SPECIFICATION

* AQUON One is available also as 2- and 4 cabins layout.
Differences to these are marked in italics in this specification

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Specifications

Type of vessel

Luxurious and sustainable ocean-going motor catamaran with PV (Photovoltaic) / Hydrogen propulsion

Living space

107 sqm / 1152 sq ft interior area, 144 sqm / 1550 sq ft exterior area, plus technical spaces, storage and service spaces.

Maximum overnight capacity

6 + 3 (3-cabin layout)

4 + 4 (2-cabin layout)

8 + 2 (4-cabin layout)

Hull construction

Composite, E glass/Carbon infused Vinilester resin

Paint

Awlgrip system, choice of 4 AQUON standard pearlescent colours or individual colour in consultation with AQUON designer

Length over all (LOA)

19.48 m / 64 ft

Beam

9.49 m / 31.1 ft

Draft (loaded condition)

0.75 m / 2.5 ft

Height above waterline (Air draft)

7.54 m / 24.8 ft

Displacement

30 metric tons

Electric motors

2 x 100 kW

Cruising speed / top speed / Eco-mode

8 knots / 16 knots / 6 knots

Cruising range

Depending on type of journey, please consult dedicated "AQUON One Use Cases brochure"

Area of photovoltaic cells

70 m²

Freshwater capacity

2 x 400 liters in stainless steel tanks combined with 160 liters hourly generating capacity

Grey-/Blackwater capacity

700 + 700 liters in holding tanks combined with 2000 liters daily sewage treatment capacity

Classification

EC-certification according Directive 2013/53/EU (Module B, Design Category A), full Ocean-going capacity, survey and certification by DNV-GL

Getting on board

Passerelles

- Aft teak and stainless steel passerelle plus fwd carbon passerelle
- Two passerelles provided so that AQUON One can also be docked either "stern to pier" or "bow to pier" for more privacy in aft cockpit area
- Both passerelles designed for safe and comfortable use

Tendergarage

- Hidden garage with appropriate deployment / retrieval system for RIB-type battery operated tender max. 2.95 m / 9.7 ft long (tender not included)

Mooring

- 6 fairleads, 6 retractable cleats, 4 capstans, 10 fenders 80 x 20 cm
- Loose line ends are stored invisibly behind dedicated hatches

Anchor

- Integrated self-stowing anchor with appropriate chain, rope and electric windlass
- Controlled from Main Deck wheelhouse and Fly Deck helm station

Cruising to destination

Wheelhouse

- Helm seat, console, storage cabinet
- Sliding privacy doors to dining area
- Direct access* to Captain's cabin (*only in 2- and 3 cabin version)
- Direct access to foredeck via pantograph door
- Red night lighting
- Steering wheel, joystick, full set of instrumentation and control elements
- Navigation system including Raymarine multifunction displays, radar, AIS, Autopilot, VHF radio
- Raymarine Docksense docking system
- Steiner Commander Global 7x50 marine binoculars

Fly Deck Helm Station

- Large Helm bench, 2-part angled full custom console, red night lighting
- Steering wheel, instrumentation and control elements

Propulsion system

- 2 x 75 cm dia propellers with shafts, struts, stern tubes, shaft seals, thrust bearings and CV joints
- 2 x liquid cooled electric motors rated 100 kW @ 2400 rpm, controlled from Wheelhouse and Fly Deck Helm station

Bowthruster

- Twin bowthruster system, controlled from Wheelhouse and Flydeck Helm Station

Steering system

- Electro-hydraulic twin disc system, controlled from Wheelhouse and Flydeck Helm Station
- Redundant with manual Emergency System

Navigation lighting etc

- Side lights port and starboard, stern light and mast head light
- Anchor ball 12 x deck lights
- 1 x portable searchlight
- Stern docking lights, ship's horn
- Set of signalisation flags

First night on board, interior areas

LOWER DECK IN PORT SIDE (LEFT SIDE) HULL

Aft Guest Cabin

- Double bed with bedside tables. 2 wardrobes. Desk with soft closing vanity/mirror and stool
- Built-in safe
- En suite bath with shower

Central Corridor with Bath

- Cabinets and wardrobes, built-in glass-door wine cooler, bath with shower

Fwd Guest Cabin

- Double bed with bedside tables
- Wardrobe and cabinet
- Desk with soft closing vanity/mirror and stool
- Built-in safe

Bow Crew Cabin

- Single bed, wardrobe, integral washstand and toilet

(In 2-cabin layout, the Port side hull will be the mirrored layout of the below described Starboard side hull)

LOWER DECK IN STARBOARD SIDE (RIGHT SIDE) HULL

Master Cabin

- Double bed with bedside tables
- Occasional sofa
- Large walk-in wardrobe with sliding doors
- Large cabinet
- Large desk with soft closing vanity/mirror and stool
- Built in file-size safe
- Private stair to Main Deck

Ensuite Master Bath

- Large shower, double washstand, separate toilet and bidet

Fwd Crew Cabin

- Single bed (optional second bunk bed), wardrobe and cabinet, en suite washstand and toilet
- Direct stair to wheelhouse

(In 4-cabin layout, the Starboard side hull will be the mirrored layout of the above described Port Side hull)

LOWER DECK INTERIOR - GENERAL ITEMS

- Soft-mounted interior to insure maximum acoustical comfort- and privacy levels
- Custom-fitted Roviva Swiss premium mattresses, 3Dmesh ventilation underlay
- Wardrobes with hanging space, drawers and shelves, inner lighting, ventilation slots
- Wardrobe upon request possible in untreated cedar wood
- Integrated holder for glass of water at bedsides
- USB charging sockets, reading lights, courtesy night lights, hairdryer
- State-of-the-art large TV screens
- Sinks, taps, shower separations etc. as shown in renderings
- Showers include rainfall plus handheld
- Bath mirrors include illuminated magnifying mirror and shelves behind
- Toilets are full size

MAIN DECK INTERIOR

Living Area

- Large 3- and 2 seater sofas, low table, 2 poufs, 2 armchairs, coffee table
- 2 sideboards at windows plus large central sideboard containing bottle storage
- Built in "home-office cabinet" (lockable) under starboard Fly Deck stair
- Aft sliding doors, stainless steel framed
- Wood/glass division to stairs

Dining Area

- Dining table and chairs for eight
- Large 2-seater low sofa, large sideboard
- Skylight over table
- Sliding doors to kitchen / wheelhouse
- Large TV screen on forward separation wall

LOWER -/MAIN DECK INTERIOR GENERAL DETAILS

General

- Motorized curtains
- Lower Deck Cabins feature additional integrated opening portholes

- Illumination by company "Apure" that achieves the most aesthetic appearance for each individual space. Glare-free almost invisible ceiling downlights create the perfect mood, which (either automatically or manually) adapts to time of day, ambient light, specific situation,...
- Decorative sofa-/lounge cushions as shown in renderings
- All stairs designed for safe and comfortable use and including linear LED orientation lighting
- Usable space is made accessible for storage

Furniture details

- All furniture/cladding etc. panels in plywood composite or comparable, with appropriate edging/reinforcements for low weight construction
- All doors, drawers equipped against unintentional opening
- All hinges and hardware anti-rattle
- Dampened/self-closing operation wherever possible
- Flush compression locks on revision panels
- Custom made upholstery with premium foam with varying densities according use

Materials

- Floors in recycled leather (possibly vegan alternative, under investigation) or cork (baths) and with high quality carpets in living area
- Walls in bamboo, cork, recycled leather, various lacquers, smoked glass
- Furniture in lacquer, cork, metal, wooden veneer
- Upholstery and curtains in fabric
- Various special surfaces
- Ceilings lacquered
- All materials as shown in Designer's renderings
- All materials chosen for best sustainability
- All materials according to actual samples signed free for production by the Owner
- Fabrics (upholstery, cushions, curtains) as per selection shown in renderings or choice of alternative fabrics in consultation with AQUON designer

Entertainment, communication, connectivity

- Bose entertainment center and speakers, i70s Instruments with anemometer, GPS antenna, Compass, Satellite TV, State-of-the-art communication
- Internet access, WLAN, custom AQUON Sm@rt home system

Main Kitchen

- L-shaped quartz worktop, with full-height rear cabinet
- Access to dining area via sliding door, access to Foredeck via pantograph door
- Beautiful view while cooking
- Full set of top-of-the-range appliances, all in full household-size
- Induction hob KM 7897 FL, 90 cm wide, free-zone induction with custom removable potholders
- Retracting Miele DA 6890 exhaust system
- Steamer oven Miele DGC 7860, auto-opening door, mounted at waist height

- Coffeemaker Miele CVA 7440
- Side-by-side fridge/freezer with icemaker Miele FNS 28463/KS 28463 full height /width
- Dishwasher Miele G 7965 SCVi XXL with auto-opening door
- Large and deep Franke stainless steel sink and tap
- Under-sink macerator Insinkerator Evolution 200
- Drinking water tap Sprudelux (adjustable cooling and carbonation)
- Sensor activated integrated dual Hailo trashbin
- Drawers and storage

(Type indications are indicative, respective follow-up models may be installed. Individual preferences will be considered)

At destination

Main Deck aft Lounge Area

- 2 soft chaises longues, 2 poufs

Main Deck aft Dining Area

- Table and chairs for 6

Main Deck forward Sitting Area

- 2 L-shaped sofas, 2 low tables

Fly Deck aft Sitting Area

- Aft seating for 12+ persons for sit-down dinner
- Table tops adaptable in size (folding tops) and adjustable in height to allow variety of uses.

Fly Deck AI Fresco Cooking Station

- Straight extra deep quartz counter
- Induction Teppanyaki surface 58 cm wide, Induplus 580, full outdoor rating
- Cook's side refrigerator "door type" with shelves, Bull 13700, full outdoor rating
- Guest side bottled drinks refrigerator "2 drawers type" Bull 1370, full outdoor rating
- Large and deep Franke stainless steel sink and tap
- Under-sink macerator Insinkerator Evolution 200
- Drinking water tap Sprudelux (adjustable cooling and carbonation)
- Sensor activated integrated dual Hailo trashbin
- Drawers and storage

(Type indications are indicative, respective follow-up models may be installed. Individual preferences can be considered)

(Fly-Deck Helm Station is described earlier in this Specification)

Fly Deck forward Relaxing Area

- 4 upholstered sun pads

Exterior general details

- Structure in painted composite
- Sustainable synthetic teak, still under investigation
- Glass/stainless steel handrails, railings, balustrades
- Stairs and steps with linear LED orientation lighting
- Fixed furniture in stainless steel, composite, sustainable synthetic teak
- All upholstery (including cushions as shown in renderings) custom made with quality foam in varying densities depending use
- All foam cores encapsulated watertight
- All fabrics high quality suitable for marine outdoor use
- Fabrics (upholstery, cushions, curtains) as per selection shown in renderings or choice of alternative fabrics in consultation with AQUON designer
- Illumination by company "Apure" that achieves the most aesthetic appearance for each individual space. Glare-free almost invisible ceiling downlights create the perfect mood, which (either automatically or manually) adapts to time of day, ambient light, specific situation,...
- Usable space is made accessible for storage

Leisure details

- 1 x dismountable exterior shower, bathing ladder, steward-call system integrated in AQUON sm@rt home system

Utilities

Energy system

- 70 m² photovoltaic cells adapted to curved structure
- Short term storage in Li Ion batteries (see below in electrical system)
- Long term storage via electrolyser with compressor generating hydrogen
- Hydrogen upon demand is converted back into electricity by Fuel cell
- Generated thermal heat is used for on-board hot water supply

Electrical system

- HV batteries
- 24 V batteries
- 12 V batteries
- Shore power chargers, system management unit, MPP tracker
- DC/DC converter 2,8 kW, DC/AC inverter 15 kW, solar charger 10 kW
- 230 V 50 Hz power in accomodation area, earth leakage safety trips
- All required power and signal cabling and cable trays, junction boxes,...

Hydraulic system

- Hydraulic unit, 3 hydraulic pistons (2 x Lazarette hull, 1 x tender garage), all required accessories and piping

A/C system

- Webasto chiller 77.000 BTU/h for cooling and reverse-cycle heating, with 11 dedicated scaled Webasto air handlers with individual local touchscreen control units.
- Air handlers positioned to insure easy access / servicing

- Fresh air supply and exhaust included
- Customised expansion boxes and custom made ventilation slots integrated discretely and carefully in the interior outfitting. Positioning and dimensions optimised to insure high level of comfort
- "Off-time"-function in combination with integrated sm@rthome system to maintain interior climatic conditions within set limits to insure longevity of interior outfitting

Freshwater system

- Portside and Starboard side filling plugs, 2 x 400 liter tanks (Stainless steel grade 316)
- Reverse-osmosis type watermaker with 160 liters hourly capacity
- Water heater 200 liters capacity, warm water circulation
- Full set of filters (calcite, carbon) plus UV-sterilization unit for reliable drinking water quality
- All required piping, valves, ventilated loops, through-hull fittings, pumps, strainer, water pressure unit, surge damper, etc.

Grey-/Black water system

- 2 x 350 liters grey water tanks with carbon no-smell filters, local shower sumps with extraction pumps, transfer pump
- 2 x 350 liters black water tanks with carbon no-smell filters, toilet macerator pumps, macerator transfer pump
- Biological sewage treatment plant 2000 liters/day capacity
- All required piping, valves, ventilation plugs, trough-hull fittings, pump-out deck plugs, etc.

Bilge system

- 6 x el. Bilge pumps (3028 liters/hour), 6 x manual bilge pumps (45 liters/min), 2 x drain, 6 x bilge level alarm
- All required piping, hoses, valves, ventilated loops, bilge strainers, trough-hull fittings

Household and Tableware

- Top-of-the-range appliances, all in full household-size
- Washing machine Miele WWV 980 WPS Passion, 7 kg capacity
- Dryer Miele TWV 680 WP Passion 9 kg capacity
- Swiss premium steam ironing station Laurastar with auto-off timer
- Miele vacuum cleaner
- Brooms, brushes
- Additional washing-basin near washing machine
- Motorized trash compactor system with refrigeration
- Set of custom made lashings for loose furniture during rough passage
- Starter-set of consumables for household appliances, selected with priority placed on best ecological/sustainability values

Various

- Set of waterproof breathable textile covers for all exterior furniture that cannot be otherwise stowed
- Set of textile shading covers with Tenax fixation for front windows on Main Deck
- Flag post and flag

(A list of possible options is available from us upon request)

Safety

- The hydrogen energy system and its components are certified by DNV GL both individually and combined as a system
- AQUON One is constructed and built to fulfil EC-certification according Directive 2013/53/EU (Module B, Design Category A), full Ocean going capacity.
- Survey and certification is performed by DNV-GL **This certification includes the Lithium battery set**
- All required certificates will be handed to the Owner at delivery
- Full set of safety equipment according to full satisfaction of certification requirements is included and appropriately installed/ stored on board. (Details available upon request)
- Full custom lightning protection system installed
- No gasoline or diesel is stored on board

General instructions

- The Owner (or their Representative) will receive a detailed and personal hands-on instruction-session and manual on proper use, care and maintenance of the Yacht.
- The Owner will receive a full set of dedicated and detailed manuals, plans (as-built-documentation) and instructions, this will also include a full list of all required service / maintenance points / dealerships for appliances, equipment etc.
- The boat will be equipped with a set of quality tools and a starter set of consumables matched to enable routine standard adjustments, care and maintenance work

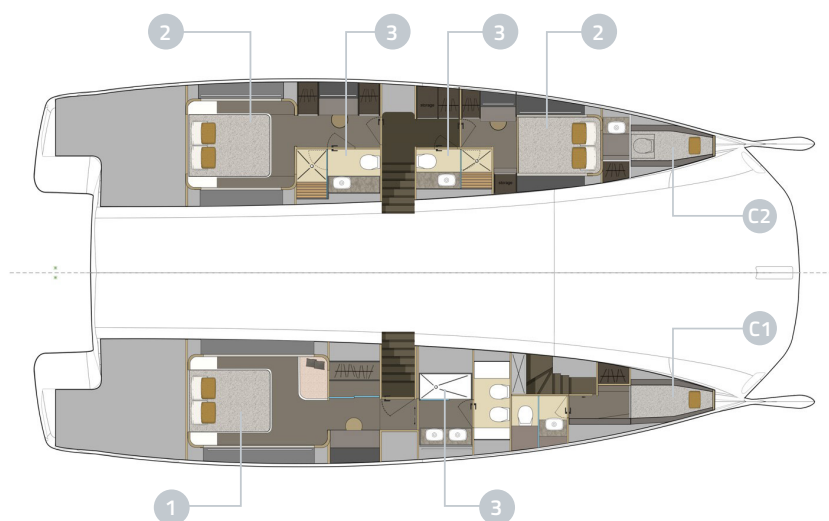
Support / Helpline

- The Builder will be available 24/7 to answer any specific questions and assist when the Yacht is operation

Eco-/Sustainability highlights

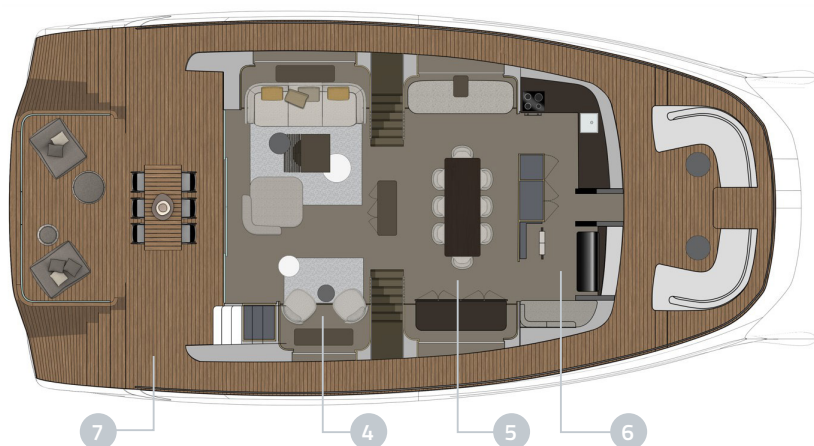
- Generation and storage of green hydrogen on board
- Fully energy-autonomous cruising is possible (see "AQUON One - use cases")
- Only clean water vapour as exhaust
- No combustion engine installed
- No fossil fuel stored on board
- Interior and exterior materials sustainable wherever possible
- Hull and structural composite with maximum possible proportion of sustainable materials
- No sewage pumped overboard in harbour or underway
- Installation of additional microplastic-filter under investigation
- Non-toxic underwater paint. Only minimal noise pollution in accordance with UN guidelines for lowest possible disturbance of marine underwater life

Floorplans



LOWER DECK - THREE CABINS

- 1 Owner Bedroom
- 2 Guest Bedrooms
- 3 Bathrooms
- C1 Captain Cabin
- C2 Crew Cabin



MAIN DECK - THREE CABINS

- 4 Living Area
- 5 Dining Area
- 6 Kitchen+Console
- 7 Main deck



FLYBRIDGE

- 8 Flybridge deck

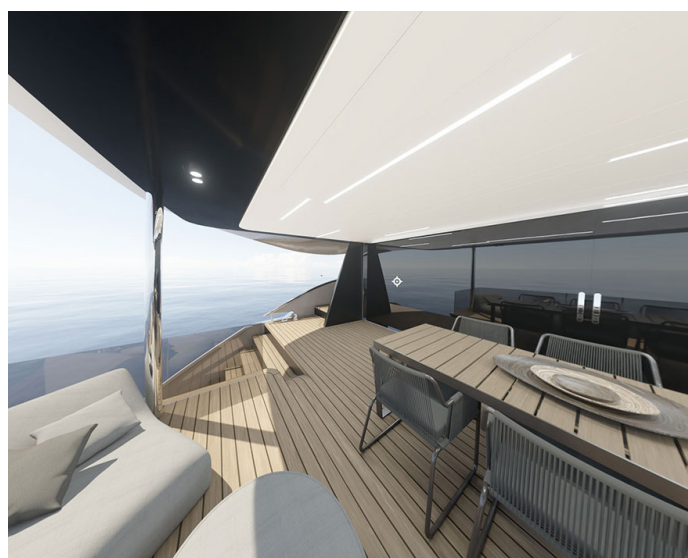
Exterior



Interior



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