

ORC

BY MARSAUDON COMPOSITES

TRUE SAILING ADVENTURE®

STANDARD TECHNICAL DESCRIPTION



ORC 57

SEPTEMBRE 2021 - SEPTEMBRE 2022
INDEX B - APRIL 2022

MAIN CHARACTERISTICS



Hull length:	17.56 m
Length overall (with the crossbeam):	18.39 m
Deck beam:	9.05 m
Overall beam (incl. the two helmsman seats):	9.40 m
Empty weight (ISO standard):	11.5 T
Light weight (ISO standard):	11.9 T
Maximum weight (ISO Standard):	14.9 T



Standard draft:	1.65 / 3.30 m
Bridgedeck clearance:	1.07 m
Air draft:	25.80 m



Mast length :	22.85 m
Mainsail area (developed):	107.00 m ²
Genoa (J1) area (developed):	84.00 m ²



Diesel engines :	2 x 57 hp, saildrives
Diesel tank:	2 x 200 L
Freshwater tank:	2 x 200 L



Design category:	CE A : 12 pax / B : 12 pax / C : 16 pax / D : 16 pax
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Architect:	Marc Lombard Yacht Design
Interior design:	Marsaudon Composites



1

STRUCTURE

Fiberglass/vinylester resin sandwich construction on PVC foam core. Laminated carbon ribbands and composite bulkhead structure

All the composite parts are vacuum infused and bonded by contact lamination

Hulls, deck and roof in a white gelcoat finish

Non-slip white gelcoat on the deck, the cockpit floor, the saloon floor and under the nacelle

High performance epoxy primer layer applied below the waterline

One carbon mast post + 2 carbon saloon roof posts. Two stainless-steel, black thermo-lacquered cockpit posts

2

APPENDAGES

Two composite daggerboards, vinylester/glass, infused, with carbon reinforcements

Two suspended composite rudders on stainless-steel rudder stocks, JP3 self-aligning rudder bearings

Two carbon tillers with a white gelcoat finish. Transmission by two carbon tubes in the aft beam. JP3 track and ball-bearing car system for guidance in the aft beam

3

COCKPIT

Area: 15 m²

Two external hinged helm seats with textile windguards

One white gelcoat control console at each steering position

Three fixed 3-person cockpit seats with cushions and Spradling "Silvertex carbon" type grey covers. Open cell foam

Two storage lockers of 500 L each, under the side seats. The starboard one is divided in two to fit a gaz bottle. One 6 Kg "Le Cube" Butagaz bottle included

Indirect LED lighting along the ceiling, under a light grey fabric covered board.

Access to the engine rooms through 2 Lewmar "LP70" opening hatches (62 x 62 cm)

One Sparcraft aluminium fixed mast, anodized in grey. One-level spreaders for the double 1x19 stainless-steel diamond cables

One Dyneema® Ø 20 mm forestay, one pair of Ø 19 mm 1x19 stainless-steel shrouds, one pair of Ø 14 mm 1x19 stainless-steel lower shrouds and two pairs of Ø 12/14 mm 1x19 stainless-steel diamond cables

On the mast : one 2:1 mainsail halyard with one Antal clutch, one solent halyard with one Antal clutch, one bosun halyard with one Lewmar clutch and two Lewmar clutches for the lazy-jacks

Three Ronstan "Stand-up" blocks at the mast foot (for the 3 halyards). The three reefing lines on friction rings

One Facnor "Facslide+" mast track with six ball-bearing cars for the batten receptacles, plus a double car for the headboard

One Sparcraft aluminium boom, anodized in grey. Three Lewmar clutches for the reefing lines.

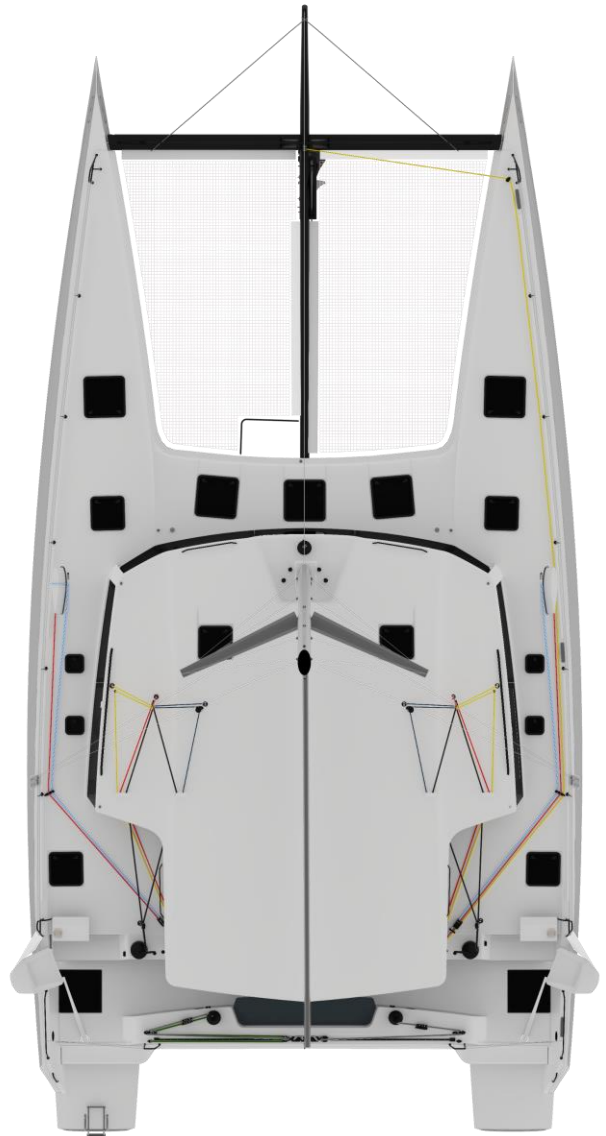
Mainsail clew attached by a Dyneema® lashing. Three Karver "KHR" reef hooks

One masthead Windex wind vane

One one-piece carbon crossbeam (bowsprit/compression beam/martingale). One stainless-steel, 1x19, Ø28 mm, martingale cable with one stainless-steel turnbuckle

One full batten, "ZZ Ultra", square top, 3-reef mainsail from Incidence Sails. Six round fiberglass battens, three trim stripes, pennons, one bag.

Karver "Gaff Lock" system for the headboard



One genoa (J1) on its Karver "KFX" stayfurler, in "ZZ Ultra" sailcloth, UV stripe, luff in a zipped sleeve, from Incidence Sails. Three trim stripes, pennons, one bag

One lazy-jack set, adjustable from both sides

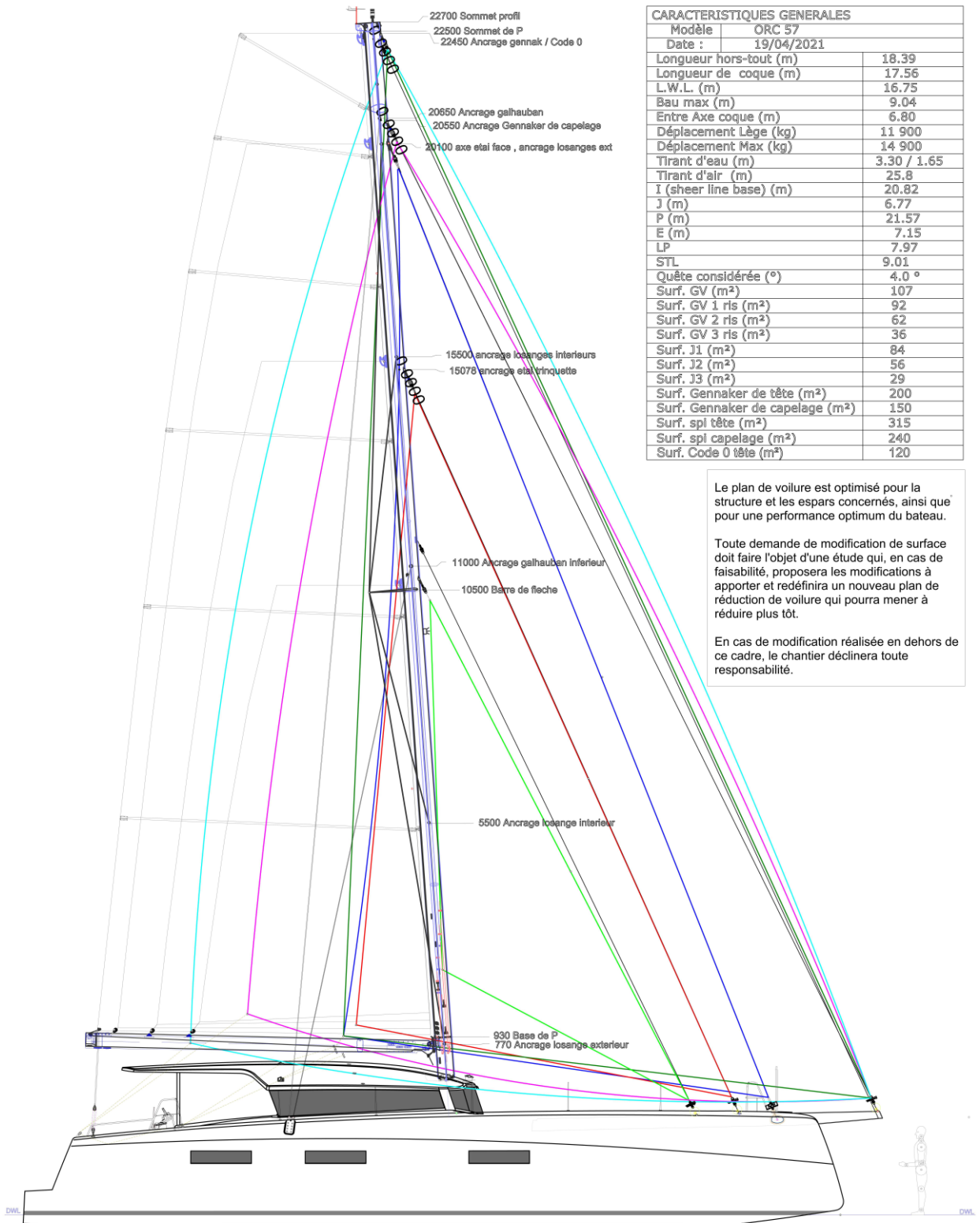
Dyneema sheets, halyards and reefing lines from Maffioli

CARACTERISTIQUES GENERALES	
Modèle	ORC 57
Date :	19/04/2021
Longueur hors-tout (m)	18.39
Longueur de coque (m)	17.56
L.W.L. (m)	16.75
Bau max (m)	9.04
Entre Axe coque (m)	6.80
Déplacement Lège (kg)	11 900
Déplacement Max (kg)	14 900
Tirant d'eau (m)	3.30 / 1.65
Tirant d'air (m)	25.8
I (sheer line base) (m)	20.82
J (m)	6.77
P (m)	21.57
E (m)	7.15
LP	7.97
STL	9.01
Quête considérée (°)	4.0 °
Surf. GV (m ²)	107
Surf. GV 1 ris (m ²)	92
Surf. GV 2 ris (m ²)	62
Surf. GV 3 ris (m ²)	36
Surf. J1 (m ²)	84
Surf. J2 (m ²)	56
Surf. J3 (m ²)	29
Surf. Gennaker de tête (m ²)	200
Surf. Gennaker de capelage (m ²)	150
Surf. spi tête (m ²)	315
Surf. spi capelage (m ²)	240
Surf. Code 0 tête (m ²)	120

Le plan de voilure est optimisé pour la structure et les espars concernés, ainsi que pour une performance optimum du bateau.

Toute demande de modification de surface doit faire l'objet d'une étude qui, en cas de faisabilité, proposera les modifications à apporter et redéfinira un nouveau plan de réduction de voilure qui pourra mener à réduire plus tôt.

En cas de modification réalisée en dehors de ce cadre, le chantier déclinera toute responsabilité.



Réduction de voilure note en version Mat alu les vitesses "manuel propriétaire" sont a minorées de 15%				
Configuration de voiles	Surface	V.vent app. max (manuel proprio, mesuré en tête de mat)	Mrd max calcul mat	tension Ecoute GV a Mrdcalcul
GV full + Gennak	307 m ²	20 noeuds	40 Tm	1.9 T
GV full + Gencle	191 m ²	28 noeuds	48 Tm	3.9 T
GV 1 ris + gencle	176 m ²	31 noeuds	48 Tm	3.7 T
GV 2 ris + Trinquette	91 m ²	38 noeuds	40 Tm	3.7 T
GV 3 ris + Trinquette roulée	71 m ²	52 noeuds	40 Tm	2.9 T
GV +spi depart au lof	454 m ²	18 noeuds	xxxx	---



ORC 57

PLAN DE VOILURE

BSM de Keroman, 56100 Lorient 02 97 83 01 31

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TRIMMING AND MANOEUVRES

One 4:1 mainsheet system with 5 Ronstan 75 mm blocks attached to the boom by 2 Dyneema® loops. Ronstan track and ball bearing traveller car with 2 Dyneema® lines. Two two-speed Harken "ST 70.2" winches and 4 dedicated Antal clutches. One cam-cleat for each winch

Two genoa (J1) sheets accessible from the helm stations, with "3D" adjustment system. Two three-speed Harken STA 80.3" winches. One cam-cleat for each winch

Two two-speed Harken "ST 70.2" winches for the stayfurler line, the J1 "3D" lines and the daggerboard lines. Five Antal clutches on port side, six on starboard side

One two-speed Harken "ST 70.2" mast foot winch, for the halyards and reefing lines

Five Harken "Carbo One Touch" winch handles with their Outils Ocean storage pockets

6

OTHERS EXTERNAL EQUIPEMENT

Access to the saloon from the cockpit through a black plexi/aluminium 3 panel sliding door, lockable

Two sail lockers in the fore peaks: 2 x 7.5 m³ with two opening hatches (62 x 62 cm), two aluminium access ladders, floor boards in non-slip carbon/PVC foam sandwich

Two 2.5 m³ mast foot wet lockers, accessible by two opening hatches (62 x 62 cm).

One telescopic, folding, stainless-steel bathing ladder, on the port swimming platform

One transom-cockpit access black lacquered stainless-steel handrail, each side

1

INTERIOR DESIGN

Lacquered white finish

“Polaris” grey and white interior composite panelling

Black aluminium honeycomb runners in the cabins. White gelcoat runners in the saloon

Door handles in black leather

Floorboards in non-slip carbon/PVC foam sandwich in the cabins, the toilet compartments and the passage ways.

2

EXTERIOR DESIGN

Light grey black underlined stiker above the hull step. « ORC » logo above the waterline on each hull, at stern.

« MC » sticker on the rear transom and on each side of the bowstrip. « ORC57 » sticker on the rear transom.



3

LIVING ROOM

24 m² area and 2.10 m standing headroom

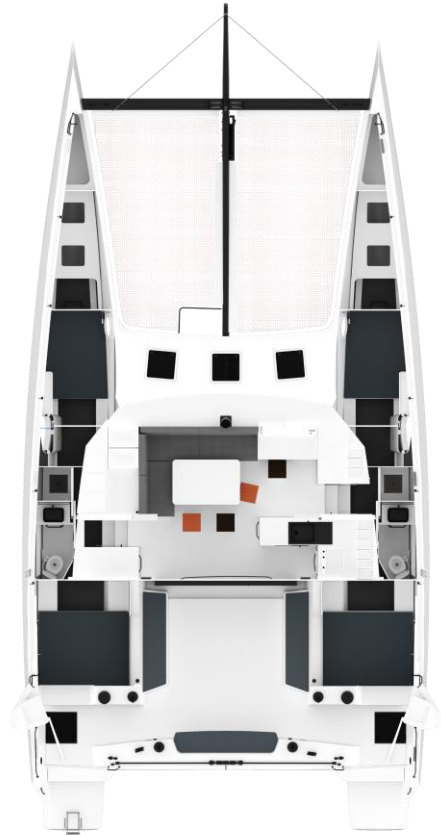
One composite, movable, 150 x 100 cm saloon table, white gelcoat finish, on 2 aluminium legs

One fixed 5-person "L" shaped saloon seat, "lead chiné" Sunbrella type grey fabric. Storage and technical space under the seat cushions

Three sliding seats, Casal « Enoa Perfect » (2 "rouge ocré" + 1 "noir ébène") type fabric, storage inside (3 x 36 L)

Storage spaces on port, behind the saloon seat, cupboards plus three plastic boxes with lid (37 x 54 x 21 cm)

Cupboards in the starboard companionway and aft of the port companionway too. Composites doors with "Polaris" grey plating



Ventilation done by two Lewmar "LP60" opening hatches (50 x 50 cm) in the roof, two Lewmar "T03" opening hatches (28 x 23 cm) in the front Plexiglas window and two flush Goiot "Luxair" opening hatches (50 x 23 cm) in the aft bulkhead windows

One LED spotlight each side of the sliding door. Indirect LED lighting above the companionways, under a grey fabric covered board. Central indirect lighting on the saloon ceiling under a terra-cotta fabric covered board

Black handrails: one above the entrance door, two at the galley, one in each companionway and one on the port cabinet

4

CHART TABLE

One console for the electronics, integrated desk storage with lid. All in composite with white gelcoat finish.

One cupboard under the chart table, starboard side, "Polaris" grey composite sandwich doors

One sliding cushioned stool with Enoa Perfect "noir ébène" type fabric cover, storage under the cushion (36 L)

One red/white reading lamp

5

GALLEY

One Eno "Kos" 3 burner gas stovetop with pan-holders, one Eno "Perigord" gas oven

One 150 L, stainless-steel, two-drawer type, Vitrifrigo "DRW180A" fridge/freezer, air cooled, in the galley cabinet

One single sink (53 x 40 x 19 cm) with a black mixer faucet

One cupboard under the sink with "Polaris" grey composite sandwich doors, one cutlery drawer above the oven + 8 plastic storage boxes with lid (26 x 35 x 15 cm)

6

FURNISHED HULLS

One aft cabin, one toilet compartment, one shower cubicle and one fore cabin in each hull. Each cabin closed by a composite sandwich door, white finish, white doorframes.



7

FORE CABINS

One double berth (195 x 145 cm) with its 10 cm thick, 35 Kg/m³ foam mattress plus its 2 cm memory foam mattress on top. Mattress ticking in Sunbrella "flanelle 3757" type dark grey fabric. Storage space underneath with access under the mattress

One Lewmar "LP60" deck opening hatch (50 x 50 cm) plus one fixed hull window (120 x 18 cm).

One longitudinal shelf (180 x 27 cm) along the inner side, with black aluminium honeycomb runner. One longitudinal "plane" shelf (80 x 43 cm) along the outer side at head's height, at the rear of the berth. Two shelves on each side of the berth, at the rear of the berth

One open cupboard with black aluminium honeycomb runner (250 L)

One LED stripe along the outer wall

8

STARBOARD PASSAGE WAY

One open cupboard (500 L) aft the companion way with one shelf and its black aluminium honeycomb fiddle

One shower cubicle with a white composite sandwich sliding and retractable door, one shower column with a mixer faucet, direct drainage by a dedicated pump. One Lewmar "LP10" deck opening porthole (25 x 25 cm). One LED lighting stripe on the outer wall. Floor made of composite, white non-slip gel-coat.

One toilet compartment with a white composite sandwich sliding and retractable door: one manual sea toilet with its black water tank, one black round sink with its black mixer faucet. One mirror with its LED lighting stripe, one cupboard under the sink with a light "Polaris" grey door. One deck opening hatch (25 x 25 cm) and one fixed hull window (120 x 18 cm). One LED lighting stripe on the ceiling.

One LED stripe along the ceiling

9 COURSIVE TRIBORD

Two shelves fore of the companion passageway, with black aluminium honeycomb runner

One shower cubicle with a white composite sandwich sliding and retractable door, one shower column with a mixer faucet, direct drainage by a dedicated pump. One Lewmar "LP10" deck opening porthole (25 x 25 cm). One LED lighting stripe on the outer wall. Floor made of composite, white non-slip gel-coat.



One toilet compartment with a white composite sandwich sliding and retractable door: one manual sea toilet with its black water tank, one black round sink with its black mixer faucet. One mirror with its LED lighting stripe, one cupboard under the sink with a light "Polaris" grey door. One deck opening hatch (25 x 25 cm) and one fixed hull window (120 x 18 cm). One LED lighting stripe on the ceiling

One LED stripe along the ceiling

10 AFT CABINS

One double berth (200 x 195 cm), with its 10 cm thick, 35 Kg/m³ foam mattress plus its 2 cm memory foam mattress on top. Mattress ticking in Sunbrella "flanelle 3757" dark grey type fabric

Two large fixed aft plexiglass windows with an opening porthole (48 x 17 cm), one deck opening hatch (50 x 50 cm) and one fixed hull window (120 x 18 cm).

One longitudinal shelf (270 x 35 cm) along the inner side with its "Polaris" grey runner. One longitudinal "plane" shelf (100 x 35 cm) along the inner side, at head's height, fore the berth.



A storage area (50 x 40 x 100 cm) along the inner side, fore the berth

One LED stripe along the outer wall.

1 SAFETY

Two black lacquered stainless-steel pulpits plus 5 black lacquered stainless-steel stanchions with a double line of stainless-steel cable guardrails on each side

Two black lacquered stainless-steel pushpits and one black lacquered stanchion along the aft beam with a double line of stainless-steel cable guardrails

Eight black lacquered stainless-steel handrails on the rooftop

One "Offshore 135" Plastimo vertical navigation compass on each side of the saloon/cockpit bulkhead

Two black trampoline nets, 35 mm mesh, with a dedicated black stainless-steel liferaft storage space

One round BSI escape hatch (Ø 45 cm), in each fore cabin

One composite toe rail along each deck-edge

Four electric automatic bilge pumps plus 4 manual ones

Emergency backup drainage pumps using the engine's cooling pump

Safety padeyes: 2 in the cockpit, 2 near the escape hatches

Two lifelines on the rooftop sides, one across at the front of the rooftop and one along the compression beam

All the deck hatches are fitted with non-slip stripes

2 DOCKING AND ANCHORING

One mast foot anchor locker with its bitter end bracket, accessible by one opening hatch (62 x 62 cm)

One Quick "Dylan DR4", 1 700 W, vertical axis, windlass, half flush mounted, 10 mm chain wheel, with remote controls accessible from the chart table

One carbon bow-roller, integrated to the compression beam, with roller and stainless-steel side plates

Chain tunnel in PVC fabric under the trampoline, along the compression beam

Six big, black lacquered, Antal "RC350" aluminium docking cleats

3 PLUMBING

Two polyethylene freshwater tanks (2 x 200 L), with a bypass valve. Two deck fillers at the mast foot

Two 25 L, polyethylene, black water tanks, with gravity and deck discharge drainage

Pressurised hot/cold water system with one 20 L water boiler in each hull

4

ELECTRICITY

24 V electrical circuit with one digital « Scheiber » command and control panel at the chart table

One AGM 460 Ah (4 x 115 h), 24 V, battery bank, charged by one 70 A DC/DC 12/24 V charger fed by one 125 Ah alternator on each engine

Navigation lights (tip of the bowsprit and aft platform), one deck light, one motor light and one anchor light, all in LED technology

Double USB sockets: 1 in each cabin, 1 in the saloon behind the port settee and 1 at the chart table

All LED stripes interior lighting dimmable with wireless switches. Two LED reading lights in each cabin

5

ENGINES

Two Yanmar "4JH57" common rail, 57 hp, inboard diesel engines with saildrive transmission

One AGM, 12 V, 55 Ah, engine battery in each engine room with possible coupling

Two 110 L diesel polyethylene tanks, one in each hull, two deck fillers on the fore deck

Engine controls by the starboard helm station

Two three-blade folding propellers (Flexofold)

ORC 57 STANDARD, delivered at Lorient la base, afloat, masted, ready to sail (+/- 160 l diesel). handover including half a day of sail test

1 195 000 €

Ex VAT and ex « écotaxe » (7 811 € in 2022)

by  **marsaudon
composites**

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**We guarantee price, subject to a significant change of economic situation
In the event of such a change, there will be no increase price more than 10% per year on this year model**