

RED FALCON - LAKE CRUISER 40



SPECIFICATIONS

LOA	:11.95 m.
BOA	:6,20 m.
Draft	: 0,54 m.
Light Ship	: 4.800 kg.
Loaded displacement	: 8.225 kg
Electric propulsion	: 1 x 30 KW : allows continues cruising @ appr. 4-5 knots
Propulsion Battery	: 1 x 30.5 kWh
Solar Panels	: 6,9 Kw - 20 panels (Optinal 9,6 kW - 28 panels) peak Sunpower Solar modul SPR-X21-345 mono kristallin Premium - 345 watt
Service Battery	: 24 V - 600 Ah (Gel Battery)
Water Tank	: 2 x 400 lt
Sewage Tank	: 2 x 400 lt
Passenger	: 24
Certification	: CE - A1 Module - C Category

CONSTRUCTION

A.R.C Solar Yachts – Serbest Bölge Hangar No. 11 – 07130 Antalya – Konyaaltı – Turkey
Tel. (+90) 0242 502 02 15 – www.arcsolaryachts.com

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- Light weight design with structurally integrated tanks
 - Hull, superstructure, bulkheads, stringers and ring-frames all in Carbon-Epoxy composite with PVC structural foam for high stiffness and significant weight reduction
 - Osmosis-free hull-shell by using high quality Epoxy-resins
 - Bow, hull bottom and stern in solid laminate, reinforced for impact resistance
 - Watertight bulkheads, sealed floor-sections and collision-compartments for ultimate safety
 - Hull finished with poly acrylic urethane in white or any light color, bilges painted white
 - Built as standard in accordance with CE regulations, other class requirements on request

PROPULSION SYSTEM

- TORQEEDO - DB40i - 30 KW - 360 V - 1400 rpm (1 pc.)
- BMW i3 Propulsion battery 30.5 kW - 360 V (1 pc.)
- Manually optimized bronze propeller , Duplex shaft, S.steel shaft bracket
- Engine control and control panel at helm station
- Engine- / technical-compartments ventilation: natural aeration and forced extraction

STEERING EQUIPMENT

- 2 Stainless Steel rudder blades with stainless steel rudder shaft
- Self-aligning upper and lower bearings
- Electro-hydraulic steering mechanism

ENERGY PRODUCTION AND STORAGE

- High-efficiency solar-panels for household
- MPPT solar charge regulators
- 24 V service batteries
- Charger group according to batteries' capacity
- Inverter - sufficient for all household appliances
- Charge-, consumption- and capacity controls for all electric circuits

ELECTRICITY

- Fuses and interrupters for 24 V DC and 230 V AC
- All wiring with tin-coated copper of marine specification

- All cables labeled and numbered and mounted on DIN-rails
- All lights high quality LED
- Monitoring touch screen-controls lighting, battery level, fuel-, water-and black water- levels, navigation lights
- Shore-power connection with fuse

NAVIGATION & COMMUNICATION & ENTERTAINMENT

- RAYMARINE - i70s Multifunction Colour Display
- DST800 0° Through Hull Depth / Speed / Temperature Smart Transducer
- Ray60 VHF Radio
- FUSION entertainment system

PLUMBING

- All hoses and pipes are marine grade
- Fresh water:
 - 2 x 400 LT fresh water tank (more as option)
 - Fresh water circuit including 1 water pump
 - 1 hand shower
- Waste water:
 - 2 x 400 L waste water tank (more as option), automatic pump and transom suction
- Drainage circuit:
 - Self-draining cockpit as per CE standards.
 - Automatically activated electric sump pump in each hull + manual override + water level alarm
- All pumping systems according CE regulations

DECK FITTINGS

- 6 mooring bollards total (2 x stern, 2 x mid-ship, 2 x bow)
- Inserted box for stern bollards and (optional) capstan-winch under the cockpit-floor, closed with a lid.

- 1.000 mm stanchions, inox handrail
- Anchor S.steel Delta type 25 kg., 8 mm. chain with rope, electric winch and bow roller
- Swim ladder 3,16 s.steel
- 24 chairs and 6 tables for sitting areas
- Carbon structure pasarelle mechanism