

Construction

Clear gelcoat to be used below the water line and the first mat layer is installed resin rich using isophalic resin for blister control. Deck layout includes core for stiffness and mat with double roving inside and outside laminates. Overlapping and interlaced double at stern and keel. Bottom solid layup varies from 5/8" to 1 7/8". Hard roller used for proper resin/glass use ratio and to minimize entrapped air.

Hull to deck joint bedded in epoxy, bolted and heavily glassed inside. Interior construction to allow easy access to hull to deck joint. Four large FRP hull stringers, UDR reinforced and build high enough to act as saddles for sole plates. All interior furniture heavily glass taped to hull for additional reinforcement. All plywood of WBP grade or higher.

Fire fighting and safety equipment as per marine department requirements for class IV vessel *15m to * 20m licensed to carry not more than 60 passengers, not for hire or let, not more than 150 gross tonnage operating in Hong Kong waters. (01.03d014)

14 X life jackets (licensed to carry 14 persons) 2 lifebuoys

1 buoyant lifeline 18 meter

4x4,5kg dry powder fire extinguisher (2 required plus 2 to replace requirement for 2 fire buckets)

1 powered pump fed through sea cock located in forward bilge (outside engine room) 2 hydrants (1x aft deck, 1x forward deck) with 10m hose and jet nozzle

1 black Ball

1 black diamond

1 whistle (audibility 0,5NM)

1 Bell 0,2 meter mouth diameter

Windlass

One electric driven windlass fitted with remote control from wheel house.

Main Anker: M-tape stainless steel, anchor with 37 meter chain

Reserve Anker: Bulldog type, with 30 m hope

Bowthruster

One side power SE 80/185T, 80 kg thruster with twin 5 blade Q propeller, model 8960G, 12v IPC, 185mm sealed gearleg, compact automatic switch for all thruster 12v with manual shut down, ANL fuse type S25A. Joystick panel in wheel house and fly bridge.

Bilge pumps

There are three bilge pumps in total.

One automatic/manual electric bilge pump with float switch in forward bilge. (access through floor hatch in master bed room)

One automatic/manual electric bilge pump with float switch in aft bilge, close to stern gland.


One manual emergency hand pump bilge pump serving forward and aft bilge with handle installed under the aft sofa in salon cabin.

Water system

Two water tanks, 400 gallons total with ball cock shut off valves and vents designed to prevent salt water contamination. Fresh water system uses copper tubing not plastic. Stainless ball sea cocks on all through hull fittings below the water line. Double stainless clamps on all hoses below water line. Hot water heater with electric and engine heat exchanger for domestic water supply.

Aircon below deck

One marine type air-condition unit installed serving the forward and master bedroom of cooler, heater, dryer type. Connected via stainless steel sea cocks with bronze water strainer (Groco) to sea water pump located in the forward bilge.

Type: Cruisair
Model: STQ16CK, 410a, 220v, 50hz
Display: Digital display, SXHT grey DX
Seawater pump: 

Aircon salon

2 hp split aircon, house hold.

Heads

Stainless steel ball valves at each end of fuel lines. Large cruise tanks double vented with 2" deck fills for easy filling. Port and starboard 200 gallon cruise tanks, 200 gallon operations tank in keel. Special acoustical insulation surrounding engine room.

Make: Cummins
Number: 45190021
HP: 210 hp, 156,66 kw

Wing Engine

The installed wing engine serves as a "get home device" and as a power source to run a Alternator. It is hard connected to the alternator and can through a gearbox drive a 2 wing folding propeller as a emergency engine completely independent from the main engine and drive shaft. Separate starter battery and fuel supply.

Make: Isuzu
Number: 796754 AD/DF
HP: 60
Model: marine model C240P17, spec no 211, MFG code E15XX, QD60, Transmission Velvet drive 5000 "V" drive with electric shift rated to 300 hp diesel.
Marathon Mega Plus, SER style with 12 kva rating at .8PF for 105 deg C rise, 50 hz, 1500 RPM, 3 Phase, 12 Lead with spliced double "U" joint drive shaft for crankshaft PTO.

Electric: Blue sea monitor VSM 422, 230v at 50 Hz, 12 DC, operating voltage 0-300v AC, 8,5-33v DC current range 0-150â AC, 0- 500â DC,]frequency 40-90Hz, fully programmable legends and adjustable alarm functions,

*DC system, monitors voltage, amperage, battery state of charge
- amp hours remaining, time remaining, percentage of charge, battery temperature, alarm for all functions*

*AC system, monitors voltage, amperage watts, frequency, alarm
For v,â,f.*

Master bedroom.' A bath tub is installed which also serves as a shower. A power ventilation on timer is installed to ensure proper ventilation. Grey water is either drained over board or through a selector into a grey water tank. An electric toilet fitted which pumps black water into a black water tank.

Toilet pump: JABSCO self priming macerator pump ,model 18590 series, with run dry protection. Flexible impeller with stainless steel wearplate. Impeller Nitrile compound Stainless steel coffer reduces particle size to 1/8", 38mm maximum. 4 blade design. Inlet 1,5"38mm hose barb, outlet 1", 25mm hose barb. 47 liter per minute, 12v.

Freshwater solenoid: Techma by Thetford, T-PF.PI4, Techma S.r.l. 14/05/12

Black water tank: A black water tank is installed into the keel in the master bed room. Its content can be sucked out through a deck fitting or, if not restricted by law, can be pumped out through an electric pump overboard.

Waste discharge pump: sealand, model T12, serial no 1350d

Grey watertank.' A grey water tank is installed to collect grey water through gravity feed

From sinks and showers. . Its content can be sucked out through a deck feting or ,if not restricted by law, can be pumped out through an electric pump overboard

Waste discharge pump: sealand, model T12, serial no 13506

Forward cabin:

A forward head is fitted with a sink. A power ventilation on timer is installed to ensure proper ventilation. Grey water is either drained over board or through a selector into a grey water tank. An electric toilet is fitted which pumps black water into a black water tank. (same as master head)

Engine

Cummins 210hp, 6 cylinder marine diesel engine with marine transmission. Bronze underwater gear except for stainless shaft. Four bladed propeller balanced and sized to engine, 2 inch stainless shaft. Prop aperature and engine mounting designed to minimize vibration and noise. Sea water strainers and ball valve sea cocks on all inlets. Primary and secondary fuel filters installed. Primary filters have water in fuel alarm sensors. Drip pan under engine with oil trap overflow. Custom designed water lift muffles. Two quite, large capacity engine room blower with noise isolated vents. FRP fuel tanks baffled and braced.

Fuel. Capacity: 600gal/2730ltr.

There are three long range tanks installed, One port and one starboard side of the engine room. Each 200 gal/909ltr and one operational tank built into the keel, 200 gal/909ltr.

Water. Capacity 400gal/1815ltr

There are two fresh water tanks installed, one port and one starboard side of the engine room just aft of the fuel tanks.

Navigation

GPS: SUNHAGN DP 32 GPS7WAAS navigator, serial number DP3211061004, Shenzhen Shunhang Tech. Co. LTD

Fish finder. LOWRANCE fish finder, model X 4, serial number 105145583, part no 000-10227-001, depths down to 600ft/183m with 60 deg of fish detection, operates up to 70mpW/6kts, automatic ASP (Advanced Signal Processing) for best picture poss., gray line enhances target separation and defines bottom composition, advanced fish ID, automatic ranging, ant and zoom bottom track(deep/shallow/fish alarm. Display 240vert x 160h pixel resolution with 4 level grey scale, sunlight viewable 4in10,2cm film super twist LCD display, 800W peak to peak/100W RMS power, high speed 200kHz Skimmer transom mount transducer with temperature sensor.

VHF radio. STANDARD communications, CMP 847W

HF radio: SGD Power talk HF SSB transceiver, model SGC, 2000, serial number 75654175, 1.6 to 30 MHz synthesized radiotelephone transceiver.

JABSCO, model 146-SL, remote controlled search light, full 360 deg rotation, 60 deg vertical sweep, 175.000 candle power from Halogen sealed beam lamp, precise beam aiming with two speed control, 12v.

Household

Fridge: Sharp, 2631, 3 door, ASAPSJDX26AG UB 36, AUBEM 223

Cooker hood: Sharp R330Z 251, ASAPR330Z

Microwave: Sharp R330Z 251, ASAPR330Z

Ceramic field: German pool jet 9019L, AGERJET901

Washing machine: Whirlpool, 7.5kg

*Water Pressure Regulator: Jabasco, model 44410-2000, automatically reduces dock **side** water pressure down to a safe 35ps, built in back flow presenter, built in port trainer, solid brass connection with dust cap.*

Water heater: Seaward products, recreational vehical electric storage tank water heater, 170deg F max coolant temp, model no SI 150 F94, seriell number 821094, capacity 11gal, 240v, 1500wat, ignition protected.

Shore power. 50â shore power plug and socket.

Sea water shower. One sea water pump (located next to water heater on starboard **side** engine room) supplied by a separate seacock through a strainer pumps sea water to two water hose connection points, one next to the anker windlass and one on the aft deck starboard side.

Pump: Flowjet, model 4325-143, 12v, 15a fuse. ser no 5/N 93478735

Wind shield wiper: 3 wiper system with independent control, fresh water washing spray pump, ROCA system 2000, adjustable sweep angle, self parking, stainless steel, heavy duty motor with insulated ground, 10/N torque, two speeds, slow 35 sweeps / min and fast 55 sweeps/min, adjustable angle 45/60/80 or 110 degrees, adjustable self parking right or left side.

Boat Fan 2 Hella marine turbo boat fan installed in the wheel house.

Battery Charging relay: Blue sea monitor 500A ACR

Inverter/charger Heart interface company model Freedom combi, inverter/charger.

Wing engine: royal N120, 130F51, 12v, Amp hr (20hrs) 120, Reserve capacity(min) 440, Coldcranking Amps (-18C) 800

Main engine Royal 8D 1300, 12v, Amp (20hrs) 210, Reserve capacity (min) 440, Coldcranking Amps (-18C) 1300

Household: 2x Royal 8D 1300, 12v, Amp hr (20) 210, reserve capacity (min) 440, coldcranking Amps (-18C) 1300

Galvanic Isolator: One unit installed to connect the ground from the boat AC panel to the ground from the shore power. Designed to permit AC ground currents to pass safely between the boat and the dockside.

