

# CLIPPER

MOTOR YACHTS



## SPECIFICATIONS

### **CLIPPER 60**

#### **I.1 PRINCIPAL PARTICULARS**

Length Overall.....	17.60M
Length of water line.....	16.00M
Beam O.A.....	5.00M
Draught.....	0.82M
Displacement.....	28.8 T
Fuel Capacity.....	U.S. Gallons 1140
Water Capacity.....	U.S. Gallons 400
Range.....	Approx. 600-800 N miles plus (Subject to engine selection)

## **Main Engines:**

2 X Cummins engines, 540 QSC HP each. Equipped with heat exchangers for fresh water cooling, engine overheat & low oil pressure alarms, complete engine instrumentation for both lower & upper helm stations – Smart craft single station + analogue gauges for both helm stations. – C-cruise package (engine synchronization, slow idle, cruise 1 and 2, RPM +/- ) back –up throttles, electronic throttles ETS

## **Generator:**

1 X Onan of 22.5 KW 220V 50 Hz. Including sound shield, water & gas separator, circuit breaker and meter controls on the generator and lower helm station for start/stop, engine hours volts etc.

## **Bow Thruster:**

1 X 24 V Vetus bow thruster model 220 KGF with single propeller with joy stick for lower & upper helm stations.

## **1.2 General Construction**

- Gelcoat: White or Off White (cream)
- Hull, main deck, house & fly bridge molded fiberglass (as per Lamination schedule) fly bridge with sandwich construction using corecell.
- FRP Fuel and fresh water tanks with baffles and cleaning manholes
- Interior soles teak and holly throughout except the engine room.
- Teak interior trim.
- Teak cap rails with minimum 7 coats of varnish.
- White rounded aluminum window frame with safety glass
- Four windows to be opening (sliding) including galley window with inside window screens.
- Twelve Oval stainless steel port holes with dead light in the hull. Mosquito screens to be supplied.
- Two oval stainless steel port holes in cabin trunk also with dead light and mosquito screens.
- Stainless steel saloon door from Aritex Taiwan
- Stainless steel push out and slide doors for pilot house. Supplied by Aritex, Taiwan.
- Cabin Headliner in cream vinyl.
- One deck hatch on main deck for master cabin stainless steel from Taiwan.

- Areas of stress such as cleats, fairleads, anchor windlass, etc to be suitably strengthened in accordance with good boat building practice.
- All holes cut into the bulkheads for hoses/ wiring etc to pass through shall have a well rounded rubber
- Grommet to protect wiring and hoses etc. This also applies to the ceiling throughout the boat.
- Teak + Stainless steel rub rail .
- Under Water Engine exhausts .
- All through hull fittings and plumbing to have access hatches to the respective bilge areas.
- Automatic DC lighting to be fitted

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## **1.3 General (Accommodation & Interior)**

- Hand rubbed Burma teak paneling and carpentry in all spaces.
  - Flush cabinetry throughout.
  - Teak & Holly flooring throughout (except master and guest head which shall be FRP)
  - Soft vinyl (cream color) headliners with padding – Removable panel type attached to the ceiling with 3M Velcro.
  - High quality 70% gloss varnish for interior finish
  - Good quality door locks saloon and cabin doors
  - Light switches and AC outlets from VIMAR Or similar
  - Foam and lead Sound insulation to be used throughout the engine room including bulkheads.
  - Teak (with holly inlay) wheel for lower station and stainless steel for upper station.
  - Color choice for interior fabrics Curtains – Leather for sofas – Mattresses etc to be buyer's choice. Fabric for curtains, leather sofas, Mattress covers included in the price. Exterior Vinyl cushions also included in the purchase price.
  - Suitable access hatches in forward accommodation to access all areas of the bilge. Automatic DC lighting to be supplied to bilge areas where there is an access hatch.
  - Air-conditioning outlets to be groove design with air-con outlet in saloon to be from the pelmets.
  - All doors to be properly secured in open position.
  - Access to engine room under the hinged companion way steps
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#### **1.4 Main Deck**

- 40" F.R.P. Swimming platform with teak laid decking. The swimming platform shall be strengthened so that no stainless steel supports are required and is integral with the lower rubbing strake.
- Teak in the aft cockpit and a long both side decks to the first steps. Non skid (small diamond pattern) FRP foredeck.
- Stainless steel swimming ladder with teak steps (to be stored in swimming platform locker).
- One FRP Transom door to starboard.
- FRP cabinet on main Fly Bridge with electric BBQ one side and sink the other side. Fridge under the sink. U-Line fridge / ice maker C029.
- Boarding gates (Port & Starboard)
- Twin Stainless steel rollers
- Muir anchor winch (3500) with anchor windlass wiring and circuit breaker. (N.B. all wiring to be suitable for the application.) Windlass to be controlled from three stations. Lower helm station and fly bridge helm station to have MUIR Remote auto anchor chain counters. Foot switches for up/down next to Bow locker. Courtesy lights positioned port/starboard bow coaming to light up anchoring arrangement.
- 80 lbs Stainless steel plough anchor
- Fresh & Salt water wash down (bow and aft deck.)
- Bow & stern staffs
- 100 Metres galvanized anchor chain
- One FRP box on aft deck.
- Teak coaming
- 1 1/4" 316 stainless steel stanchions highly polished.
- Hot and cold transom shower in aft deck.
- Two shore Power connections
- Fuel oil and fresh water inlets to be recessed into superstructure so that they are not on deck.
- Sufficient Stainless steel fairleads and cleats with rollers - Fairlead/cleat – 2 bow, 2 mid ships and two aft. (supplied from Aritex, Taiwan)
- Suitable scuppers/drains
- Stainless steel ladder from aft deck to fly bridge with teak. LED lights fitted to each step.
- Engine air intake port and starboard amidships on the superstructure
- Engine room under water exhaust
- Hatch in aft deck with gas struts for access to lazarette. Stainless steel steps with teak steps. Black rubber on floor.

- 15-18 cantaluppi chrome lights for side decks and under fly bridge / hard top.(Cantaluppi Model No: Charly Boy 24 V in chrome
- Lights for the two steps amid ships port & starboard including fly bridge steps and next to anchoring system.
- Stainless steel fender holders for three fenders port side and three fenders starboard side.
- Ice maker large capacity U-line (ss98-11)

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#### **1.5 Fly Bridge**

- Non skid on Fly bridge (Diamond pattern)
  - Helm station in the middle.
  - Standard full engine instrumentation and alarms (see "Main Engines")
  - Hydraulic steering (Hynautic)
  - Cummins electronic engine controls
  - Stainless steel wheel
  - FRP hard top with One single stainless steel support for port & starboard each.
  - 5 Cantaluppi chrome lights for under the hard top
  - Compass
  - Stainless steel windshield with tinted lexan or acrylic.
  - FRP radar arch. Two white water proof stereo speakers fitted both sides of the arch.
  - FRP housing for port/starboard navigation lights
  - Seating as per drawing with sufficient courtesy lights.
  - FRP cabinet with sink and electric BBQ plus one fridge (u-Line ice maker / fridge Co29) with hinged top.
  - Teak grating inside seating.
  - Two FRP tables with stainless steel post
  - White vinyl cushions (removable) with foam and mesh backs.
  - Fly bridge re-enforced for davit
  - ADC 040 450 KGS Single stage.
  - Heavy duty 24 V wiring for davit.
  - Two helm chairs (Aritex)
  - Lifting stainless steel hatch from aft deck to fly bridge. (supplied by Aritex)
  - Opening stainless steel hatch for access from fly bridge to pilot house.
  - 1 1/4" stanchions.
  - Suitable water drainage with Clipper logo
  - 24 v Cable and FRP support for search light. Search light to be fitted model ACR RCL 100D dual beam
  - Fusion CD/Radio and 1 Pod dock with 2 white water proof speakers.
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## **1.6 Lower Helm station**

- Complete engine instrumentation and alarms
- Engine hour meters
- Overhead electronics console above helm station with custom panel showing drawing of the boat with light indicators showing when anchor light on, navigation lights on and light in position each bilge pump with light indicating when pump is activated.
- Hydraulic trim tabs from Bennet with dual rams.
- Electric air horn with twin trumpets. - DC outlet
- Three electric windshield wipers and washers ( double arm wipers)
- Cummins electronic engine controls.
- Hydraulic steering (Hynautic)
- 24V / 220 V wiring system throughout, switchboard with circuit breakers (AC & DC combined panel) Volt amp meters etc. Panel to be color coded and numbered. Four spare circuit breakers for AC & DC
- Fixed windows forward.
- Compass
- Helm seat to be supplied from Navigator.
- Teak stairway down to accommodation with hand rail.
- The Fuel to be connected to the smart craft. VDO for Water

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## **1.7 Saloon**

- Built in "L" shaped settee with leather trim on all interior sofas. (Buyer's choice of color and style)
- Built in pilot house seat.
- Hi-lo table with stainless steel support
- Insect screens on all opening windows.
- T.V. antennae outlet to be fitted as required.
- Starboard side cabinet with electronic controlled TV lift with 42" plasma TV (Sony, or Samsung etc). CD rack + Fine glass cabinet (final design to be given)
- Sony Home theater (220V) DVD/CD/RADIO with speakers in saloon ceiling.
- Cabinets etc.
- Final interior layout as per drawings attached to these specifications.
- Teak & holly sole
- Lazarette to have washer / dryer fitted
- Access door to saloon aft to be Stainless steel. Same for the two forward side doors. (Aritex)

- Both doors will have good quality locks.
- Overhead spot lights to be 24V spot lights by cantaluppi "LUISELLA" DIMS 133MM circumference and depth 45MM. 20 W bulbs
- Headliner to be removable & attached with 3MVelcro and to be new vinyl. Cream color.
- All furniture and bulkheads to be Burmese teak.
- Push knobs for all drawers throughout the interior from MANSHIP, TAIWAN
- Valance for all windows with curtain fabric. Buyer to have choice of color.
- Speakers location to be finalised
- Air-conditioning outlets from pelmet in GROOVE STYLE
- AC outlets as per drawing
- U-Line ice maker (SS98-11)
- Companion way steps courtesy lights in gold.

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## **1.8 Galley**

- Corian bench top including counter in one piece (not joined) or granite with rounded/ curved end
- Insect screen on all openings
- Galley faucet (Good quality Grohe or similar )
- Siemens 4 burner electric Hob (model No: ET730501)
- Siemens Convection oven (model No: HB230510J)
- AC outlets gold plated Vimar
- Double stainless steel sink
- Norcold Fridge/Freezer (Model EV0061 ) Located opposite Galley
- Drawers and cabinets all flush style.
- Overhead locker for storage cabinet with rounded/curved end.
- Exhaust blower. Teak and holly sole.
- Gold push knobs for all cabinets & drawers. (Manship, Taiwan)
- Fittings for cups / plates and crockery. Etc.
- Number / position A/C outlets to be determined
- Air-conditioning outlets

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## **1.9 Port Guest Cabin**

- Two single berths
- Cedar lined hanging locker with automatic light as per drawings
- Insect screens to be fitted to port holes.
- Teak & Holly sole
- Two reading lights (Cantaluppi Model:53Patty57GS 24 V )

- Vinyl headliner removable attached with Velcro.
- Mattresses 6/8" foam (as per sample) fabric covered. (Buyers choice color)
- Door with good quality gold lock
- push knobs for cabinets and drawers (Manship)
- AC outlets (Vimar)
- Air-conditioning outlets

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### **I.10 Forward VIP Guest Cabin**

- One large double bed
- Mattress 6/8" thick soft foam (as per sample) with. Buyer's choice of fabric.
- Insect screens on all opening port holes.
- Teak and holly sole
- Two 24V reading light (same as Port guest cabin)
- Overhead 24V spot lights (same as saloon)
- Door with good quality lock.
- push knobs for cabinets and drawers (Manship)
- Vimar AC outlets
- 220 V Samsung TV 16 or 20" TV with DVD. TV antennae to be fitted.
- Air-conditioning outlets
- Fusion CD/Radio with 1 Pod dock and 2 speakers

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### **I.11 Starboard Guest Head**

- All white FRP with mirrored ceiling (spot lights same as saloon)
- Shower stall with shower water either direct discharge or to holding tanks. Valve to be conveniently placed.
- Insect screens on port holes
- Corian or Granite counter top with custom sink and faucet.
- Shower and sink Faucets.
- FRP Large shower sump tank
- Mirror (beveled) With light supplied by buyer
- Tecma Electric heads (Fresh Water flush)
- Door to be FRP inside and teak outside with lock.
- Three way valve for direct/deck discharge or to holding tank
- Exhaust blower
- spot lights (same as saloon)
- push knobs for cabinets and drawers (Manship)
- High gloss teak floor for shower

### **I.12 Master Cabin**

- Queen size bed with drawers fitted under
- Mattress 6/8" thick sofa foam as per sample with fabric covering – buyer to choose color.
- Insect screens on all opening port holes including hatch.
- 24V/220V Samsung flat screen TV 26" with DVD
- Fusion CD/Radio + 1 Pod dock stereo. Two speakers
- Storage bins
- Cedar lined wardrobes with automatic light.
- Teak & holly sole
- Vinyl headliner removable with Velcro.
- 24 V spot lights (same as saloon)
- Two Cantaluppi reading lights either side of the bed.(Ondine wall mounted)
- push knobs for cabinets and drawers (Manship)
- Door lock
- Deck hatch as per drawing (Bomar or Lewmar hatch)
- Vimar A/C outlets
- Air-conditioning outlets.

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### **I.13 Master Ensuite Head**

- Teak interior walls, mirrored ceiling. High gloss teak floor.
- FRP shower cubicle
- Acrylic shower door.
- Valve to be conveniently placed. Large FRP sump tank
- Corian or Granite counter top with custom sink and faucet
- Shower faucet
- 24 V Gold spot lights. same as saloon etc
- Tecma Electric Fresh water flush. Three way valve for direct discharge/deck or to holding tank.
- Exhaust blower
- Insect screens on all port holes.
- push knobs for cabinets/drawers.(supplied by buyer)
- Vimar AC outlets.

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### **I.14 Engine room / Machinery systems**

- Underwater exhausts.
- Trim tabs Bennett (large trim plates with double rams)
- Non skid Aluminum plate for engine room sole.
- Perko or similar internal raw sea water strainers (Large)

- Twin Racor fuel filters with gauges for main engines (model: 75900 180Gals flow rate)
- One Racor fuel filter with gauge for generator.
- Aquamet or similar shafts (confirm diameter )
- P.Y.I dripless stern glands
- Heavy duty bronze underwater brackets with cutlass bearings.
- Propellers 4 bladed. (Hung Sheng S class)
- Rudders stainless steel blades/s.s shafts
- Good quality exhaust Black color tubing
- Hynautic Hydraulic steering
- 24 VDC Engine room blowers.
- Superior engine room sound proofing material - foam & lead.
- Aluminum perforated sheets to cover all bulkheads and fuel/water tanks etc.
- Five automatic electric bilge pumps. Engine room bilge pumps high water alarm.
- Manual bilge pump
- FRP fuel tanks with baffles (to be tested to 3 PSI)
- FRP water tanks with baffles (to be tested to 3 PSI)
- Sight gauges, self closing cocks and tank vents fitted to fuel and water tanks
- Fuel tanks and their connections must be perfectly oil tight and pressure tested.
- Fuel tanks to have cross over valve.
- Rubber fuel lines ( ) with diameter not less than 14MM
- Blue hard plastic for cold fresh water.
- Red hard plastic for hot fresh water.
- Green hard plastic for sea water (all FDA approved)
- Cummins electronic engine controls.
- Sea cocks on all through hulls below water line (BRONZE good quality SEACOCKS)
- Double hose clamps on all pipes.
- 28 gallon Seaward or similar hot water tank
- Pressurized fresh water system (Shurflo WITH COMBINED PRESSURE TANK)
- 2 x 150amp 24 V battery for generator starting to be housed in FRP box & securely fastened.
- 4 x 200amp 24 v batteries for each engine starting to be housed in FRP box securely fastened.
- 6 x 200amp 24 v batteries for house to be housed in FRP box & securely fastened..
- Battery disconnect switch
- Battery parallel switch to combine house batteries to engine starting batteries.
- Victrom Phoenix multiplus 24/2500/120 – combined battery charger and inverter with 120 amps charging
- 4 DC exhaust blower outlet
- Copper bonding throughout
- Rudder stuffing box with bearings
- Stainless steel rudder blades housed in FRP
- Fresh water outlet with hose Aft bulkhead of engine room
- Tool cabinet
- Stainless or FRP steel drip tray under engine room, gearbox and fuel tanks
- FRP exhaust for main engines.
- Colour coded piping system
- 24 V engine isolation switches
- FRP sewage holding tanks with macerator pump for dockside or overboard discharge
- Seven DC lights in engine room and Two AC lights
- All bilge pumps to be hot wired directly to the batteries.
- 24V sump pumps for each shower
- All pipings are to be securely supported and braced to prevent damage by vibration etc
- Stainless steel safety guards around both engines.
- Oil Reverso 24 V Dc fitted for both main engines & the Generator.
- Dockside water connection (Par)

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### **I.15 Electrical System**

- All wiring to be double sheathed, conduited and numbered on the control panel for wiring.
- 220V AC and 24V VDC cables to have distinctive color code for easy identification & numbered
- Wiring to be supplied for all equipment listed in this specification.
- All cables rating are to be in excess of the maximum load current.
- Two 220 V 50 amp shore power inlets. Shore power indication to show on main electrical panel
- Electrical panel to have device for interlock between shore supply connection and the generator supply.
- Bep main switch panel
- Four units split type reverse cycle marine air-conditioning systems from Dometic
- 2 X 16.000 BTU for main saloon
- 1 X 16.000 BTU for pilot house/galley

- 1 X 12,000 BTU for master cabin
  - 1 X 16,000 BTU for guest cabins (to be shared)
  - 24 V heavy duty wiring for davit on the fly bridge
  - All electrical AC sockets to be VIMAR
  - All circuit breakers to be of adequate size for the application.
  - The boat shall be grounded throughout including all sea cocks etc.
  - Victron Phoenix multiplus inverter/charger 24/2500/120
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### **1.16 Navigation**

- See Raymarine option package.
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### **1.17 Fire fighting Equipment**

- Automatic engine room fire fighting system by Sea fire
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### **1.18 Miscellaneous**

- Zinc anodes on rudders, shafts and transom and trim tabs
  - Emergency tiller
  - Steering gear compartment to be well ventilated.
  - Gel Shield protection to be applied to the hull (International) Two Coats
  - International primer and Black anti-fouling 2 coats.
  - Black boot stripe 5/6" with 1" gap and then the black anti foul.
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All weights & measurements are approximate