

## STANDARD EQUIPMENT

### Construction

All ETAP yachts are being built as per ETAP's unique double-skinned construction. This makes them unsinkable, provides extra hull stiffness, insulates hull and deck to ensure almost condensation-free cabins and gives a unique interior finish.

### Hull

- iso-NPG-gelcoat;
- laminate consisting of fibreglass-reinforced polyester;
- first layer of laminate made up of short separate glass fibres - roving;
- interior hulls and bulkheads are laminated and/or glued into the exterior hull;
- polyurethane foam (with a minimum 95 % closed cells) is injected between the two hulls;
- all reinforcements and mounting plates in aluminium or stainless steel;
- white hull and deck with trim stripes, *blue hull in option*.

### Deck

- sun deck on the foredeck;
- deck, sun deck, cockpit seats and bathing platform covered with cork, Marinedeck 2000 Exterior;
- reinforced laminate and aluminium reinforcing plates at mounting positions of deck fittings;
- aluminium toe rails along the entire length of the deck;
- lowered pulpit in stainless steel, split pushpit in stainless steel with 2 seats in teak;
- stainless steel double sea rail (60 cm high) with 10 stainless steel stanchions;
- 8 mooring cleats;
- amidships ladder at port and starboard;
- stainless steel grab rails on coach roof;
- self-draining anchor locker and double anchor roller in stainless steel with foldable ladder;
- electric anchor windlass 1000 W;
- 1 Delta anchor (20 kg) with anchor chain (70 m – Ø 10 mm);
- large stowage locker (800 l) behind anchor locker;
- 2 ETAP cable leads at the mast foot;
- 2 genoa tracks with genoa cars which can be operated from the cockpit;
- 6 halyard clutches;

- 2 self-tailing genoa winches (Andersen 52 ST) and 2 self-tailing halyard winches (Andersen 46 ST) with 2 winch handles;
- electric self-tailing mainsheet winch (Andersen 40 STE), centrally positioned in the cockpit;
- turning blocks for operating running rigging from the cockpit;
- turning block and halyard clutch for operating the control line of the genoa furling system;
- filler caps and vents for fuel and water;
- deck fitting for emptying the holding tank;
- 1 flagpole and holder;
- 2 fenders baskets, integrated into the pushpit;
- 8 fenders;
- 4 mooring lines (2 x 20 m and 2 x 14 m).

### Hull to deck connection

- unique deck-in-hull connection whereby the forces of the mast and standing rigging are not burdening the deck-hull connection;
- triple securing of the hull to deck connection;
- solid aluminium rubbing strip with PVC insert and edge designed to avoid dripping onto the hull.

### Cockpit

- ergonomically designed and very spacious cockpit, self-draining;
- helmsman's seat and cockpit floor are concave-shaped;
- 2 consoles, each with a leather covered steering wheel (Ø 850 mm);
- integrated engine control panel with throttle lever and controls of the bowthruster at the starboard console;
- fixed cockpit table with 2 fold-down leaves and bottle-stowage;
- large stowage lockers on both port and starboard containing each 3 plastic containers;
- self-draining gas well for 2 gas cylinders, delivered with a stopcock tap, relief valve and flexible hose;
- 5 securing points for lifelines;
- manual bilge pump;
- bathing platform with shower (hot and cold water);
- bathing platform and cockpit are separated by a lockable small door;
- folding bathing ladder;
- 2 polyester swing doors and a sliding hatch in plexiglass at the cabin entrance;
- lockable entrance.

### Rigging

- furling mast, deck-stepped, with a patented bearing system and a separate cable duct;
- fractional rig;
- 2 sets of aerofoil spreaders;
- furling mast, mast support and keel are connected by an electrical conductor;
- the boom has an outhaul, which in combination with the furling mast control line, makes it possible to reef the furling mainsail from the cockpit;
- boom downhaul / rodkicker with permanent gas spring;
- all standing rigging in stainless steel with rolled cotter terminals and bronze bottlescrews on deck;
- forestay and backstay (Ø 10 mm), top and lower stay (Ø 12 mm), intermediate stay (Ø 8 mm);
- furling system for genoa, Furlex 300;
- mainsail halyard and genoa halyard with D-shackle;
- 2<sup>nd</sup> mainsail halyard with D-shackle;
- main sheet and 2 genoa sheets;
- 2<sup>nd</sup> (removable) forestay - optional;
- flag line on starboard spreader;
- pilot lines for all unsupported running rigging;
- mechanical and electric windex.

### Sails

- fully-battened furling mainsail (55 m<sup>2</sup>) with vertical battens and ETAP logo;
- furling genoa 140 % (51 m<sup>2</sup>) with in-furling sections and a UV protection strip;
- both sails are fitted with tell-tales and leech tensioners and supplied with a sail bag.

### Engine

- Yanmar 4-cylinder marine diesel engine, 4JH4-TCE, 75 HP (55 kW) with saildrive (with zinc anode) and fixed 3-bladed propeller (18" x 15");
- waterlock and water separator on exhaust system;
- fresh water cooling with heat exchanger;
- seawater filter on external cooling circuit;
- specially-designed engine base incorporated into the inner hull;
- engine compartment fully insulated, illuminated and ventilated by an electric fan blower;
- extra through-hull for the antisiphon overflow and heat exchanger and pressure relief valve water heater;

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- engine control panel with optical and acoustic alarms, rev counter, hours meter and warning lights;
- stainless steel fuel tank (280 l) with an electric fuel gauge and a connection for *the optional heating*;
- fuel prefilter with water separator;
- a dual propeller bow thruster, Side-Power SP 95 T, 95 KgF, with helicoidally battery (55 Ah), providing a starting current of up to 800 A.

### Electrical equipment

- switch panel at chart table with automatic circuit breakers 12 V, multifunctional screens with tank gauges, a battery management display, a 12 V socket and switch possibility for battery charger and water heater;
- 1 high power starter battery (55 Ah);
- 3 gel batteries (120 Ah) for onboard consumption (equivalent to 3 conventional batteries of 155 Ah);
- 1 helicoidal battery (55 Ah) for bow thruster and anchor windlass;
- battery charger for 3 different 12 V circuits;
- alternator (80 Ah);
- emergency switch to use the service battery as starter battery;
- each 12 V circuit is fitted with a main switch and voltmeter;
- shore power installation 230 V + electric cable (25 m) and socket on the transom;
- *12 V diesel generator (4 kW) and converter 12 V – 230 V - optional*;
- a double 12 V connection at the chart table;
- 16 sockets of 230 V;
- navigation lights as per European regulations: masthead 3-colour (25 W) and anchor lights (10 W), a steaming light (25 W) on the mast, red and green navigation lights in the bow as well as a stern light;
- illuminated compass per console;
- wind meter Raymarine ST 60+;
- speed meter Raymarine ST 60+;
- depth sounder Raymarine ST 60+;
- graphic repeater Raymarine ST 60+ at starboard console;
- stereo CD-radio with MP3/iPod connection and 2 built-in loudspeakers in saloon;
- 2 technical areas: 1 in the transom, accessible via the aft cabin and 1 between the toilet compartment aft and the middle cabin;
- 2 electric bilge pumps;
- wiring is numbered and routed through plastic conduits;
- spare conduits are provided.

### Water

- fresh water tank (420 l) in polyethylene with inspection opening under double berth in fore cabin;
- 12 V electric pump supplies the freshwater system in the galley, toilets, shower and outside shower with hot and cold water;
- hot water through heater (40 l) with adjustable mixer tap, can heat up to 90 °C via the shore power installation, the engine cooling *or the optional heating system*;
- waste water tanks for both toilets (125 l), to be emptied via an electric pump or installation in harbour;

### Keel

- cast iron with wing profile for increased lift effect - draught 2.05 m;
- *optional ETAP tandem keel with a cast iron body and a lead bulb at the bottom - draught 1.55 m*;
- mounting of the keel by means of a wide flange fitted into a keel housing, which forms an integral part of the hull and inner hull, so that the keel forces are optimally transferred onto the hull;
- keel is bolted through and stainless steel counterplates are mounted in the hull.

### Rudder

- monolithic, pre-balanced rudder with continuous fibreglass reinforcements;
- seawater proof aluminium-alloy rudder-stock;
- self-aligning needle bearing;
- transmission from the mechanically linked steering wheels to the rudder is via short rod links;
- emergency tiller can be mounted directly on the rudder-stock;
- *automatic pilot - optional*.

### Skin fittings

- skin fittings in brass or stainless steel with fast-closing ball valves;
- reinforced hoses, mounted with double stainless steel hose clamps.

### Ventilation & daylight

- hull windows and hatches in plexiglass;
- large side windows and a panoramic window made in tinted safety glass;
- 6 hull windows (fore and aft cabin, middle cabin);
- 3 inward opening portholes in the aft cabin;
- 6 outward opening portholes in galley, middle cabin and both toilet compartments;
- 1 escape hatch (with sun and insect blind) in fore cabin;
- 1 escape hatch (with sun and insect blind) in saloon;
- 7 closable stainless steel dorades on deck;
- permanent ventilation in all cabins;
- *fixed windscreen available in clear safety glass with aluminium frame - optional*;
- *air-conditioning in saloon - optional*;

### Lighting

- halogen lighting in fore and aft cabin and in both toilet compartments;
- halogen lighting in saloon with 8 lamps and switches;
- LED-night lighting;
- reading lamps in fore and aft cabin;
- *boom-mounted halogen spotlights - optional*.

## INTERIOR

- exclusive design by Stile Bertone;
- genuine deck saloon, offering a superb view to the outside while seated in the saloon;
- low maintenance and durable polyester inner deck eliminating the need for waterproof decorating materials;
- interior in veneer, which is more resistant to scratches and moisture, in light walnut combined with a reddish-brown Imbuya and dark coloured oak floorboards in laminate;
- rounded shapes, all finished off with solid trim strips and frames in walnut;
- high-quality tap and shower fittings;
- seat cushions in velours fabric and curtains in matching colours;
- *leather upholstery with embroidery stitches - optional*;
- companionway with 4 curved aluminium steps and an incorporated non-slip surface;
- stainless steel grab rails at the companionway and in the saloon.
- standing headroom companionway area: 199 cm.

## Saloon

- the saloon sofa provides generous seating for 6 persons;
- storage space behind the saloon sofa;
- saloon table with folding leave and solid trim strip;
- standing headroom: 189 – 201 cm.

## Chart table

- navigation station with chart table (70 x 64 cm) and 2 spacious seats;
- 2 drawers with ample storage space underneath the seats;
- storage space for charts fitted between the seat and the bulkhead of the toilet compartment fore;
- *chart table can be lowered mechanically to create an extra sea berth - optional*;

## Galley

- longitudinal L-shaped galley;
- working surfaces in solid Corian, edged with an upright profile designed as a grip;
- 2 round sinks in stainless steel with Corian sink covers;
- microwave oven (230 V) with grill;
- 2-burner gas oven, semi-gimballed;

- approved gas installation with main stopcock;
- refrigerator 12 V (85 l), type compressor with external water cooling;
- cool storage incorporated in the working surface, *can be transformed to a refrigerator (70 l) - optional*;
- closable storage lockers along the galley;
- storage space underneath the floorboards;
- 3 bin bag holders for recycling waste;
- crockery, long drink glasses, aperitif glasses, whisky glasses for 8 persons, all in special holders.

## Toilet compartment fore

- in light walnut and waterproof synthetic materials;
- designer washbasin with high-quality tap and hot and cold water under pressure;
- solid Corian surface;
- comfort toilet with manual pump;
- folding seat on top of the toilet;
- shower head with mixer tap;
- electric pump with switch for evacuating shower water;
- closable lockers with ample storage space above, below and next to the washbasin;
- mirror, holder for lavatory paper and clothes hanger;
- standing headroom: 200 cm.

## Toilet compartment aft

- in light walnut and waterproof synthetic materials;
- accessible via the saloon and the aft cabin;
- designer washbasin with high-quality tap and hot and cold water under pressure;
- solid Corian surface;
- electrical comfort toilet;
- separate shower compartment in light walnut and Imbuya veneer and waterproof synthetic materials, with seating and high quality shower fittings for hot and cold water;
- electric pump with switch for evacuating shower water;
- spacious wet hanging space;
- closable lockers with ample storage space above and below the washbasin;
- mirror and clothes hanger;
- standing headroom: 220 cm.

## Owner's cabin aft

- double bed (203 x 160 cm) surrounded at the head with cushions in velours fabric;
- 2 latex mattresses with an integrated ventilation net and luxurious mattress covers;
- closable lockers with shelves at port and starboard and 2 large hanging lockers with extendable clothes hangers;
- an illuminated make-up closet in the bulkhead between the owner's cabin aft and saloon;
- *possibility to install a flat screen for integrating multimedia and navigation data above the make-up closet - optional*;
- access to the technical area in the transom through a hatch in the bulkhead aft;
- inspection hatch for engine compartment with quick release clips;
- direct access to the galley and the toilet compartment aft;
- standing headroom: 185 cm.

## Middle cabin

- double bed (202 x 132 cm) with 2 mattresses and luxurious mattress covers;
- closable lockers along the middle cabin;
- 1 hanging locker with an extendable clothes hanger;
- access to the technical area through a hatch between the middle cabin and the toilet compartment aft;
- *this cabin can be used as a technical cabin with supplementary technical installations - optional*;
- standing headroom: 190 – 200 cm.

## Fore cabin

- double bed (200 x 140 cm) with 2 latex mattresses with an integrated ventilation net and luxurious mattress covers;
- closable lockers at port and starboard;
- 2 large hanging lockers with extendable clothes hangers;
- standing headroom: 198 cm.

## DOCUMENTATION & OPTIONS

Every ETAP 46DS is supplied with a full set of electrical wiring diagrams and a detailed owner's manual (English, Dutch, French or German).

A full options list for the ETAP 46DS is available on request.

## TECHNICAL DATA

|                  |                      |
|------------------|----------------------|
| l.o.a.           | 14.46 m              |
| hull length      | 14.00 m              |
| waterline length | 12.50 m              |
| b.o.a.           | 4.40 m               |
| draught          | 2.05 m / 1.55 m      |
| clearance        | 19.85 m incl. windex |
| displacement     | 12850 / 13200 kg     |
| keel             | 3850 / 4200 kg       |
| CE design        | A8 / B8 / C10        |

engine Yanmar  
4-cylinder-marine diesel engine, 4JH4-TCE  
75 HP (55 kW) with saildrive

Architect VA-Yachtdesign (M.-O. von Ahlen)  
Designer Stile Bertone  
Manufacturer ETAP Yachting

mainsail  
genoa  
asymmetrical spinnaker  
storm jib  
working jib

I  
J  
P  
E

54.85 m<sup>2</sup>  
50.80 m<sup>2</sup>  
99.30 m<sup>2</sup>  
14.60 m<sup>2</sup>  
24.00 m<sup>2</sup>  
16.07 m<sup>2</sup>  
4.55 m<sup>2</sup>  
15.62 m<sup>2</sup>  
6.00 m<sup>2</sup>

