

Aeroyacht® - ALPHA 42

Standard Specifications

GENERAL CHARACTERISTICS:

Length (LOA):	42'1"
Beam (max):	24'2"
Draft (keel or daggerboard):	3'7" foil keel
Air draft (mast above water):	64'3"
Displacement:	9.5 T
Sail area:	
- Self Tacking Solent Jib:	369 sqft (option)
- Genoa:	428 sqft
- Mainsail:	569 sqft
- Reacher on furler	1,076 sqft
Engines:	(2) x 30 hp Yanmar 3YM diesel (40hp option)
Tank capacities:	
Freshwater:	150 US gallons total in (2) x 75 gallons long range tanks
Diesel:	125 US gallons total (2) X 62 gallons for each engine
Naval Architect & Engineering:	Marc Anassis NA, Alpha-1 Composites
Concept & Design:	Gregor Tarjan, Aeroyacht Ltd.,
Builder:	Alpha 1 Composites, Patchogue, NY USA

The Alpha 42 is built to strict US ABYC Specifications (American Boat and Yacht Council) and NMMA (National Marine Manufacturers Association)

Inventory - Owner's Version

CONSTRUCTION:

Composite Structure:

Vynilester composite hulls and decks with closed cell foam core hulls. Nydacore bulkheads to provide insulation, rigidity and light weight. Monolithic (solid laminate) bilges for strength, resistance to impacts, perforations and beaching. Reinforced, solid-monolithic stratified hull underneath waterline and keel shoe housing performance foil. Keel is completely sacrificial and in case of holing or grounding does not impact on watertight integrity of hull. All bulkheads are manually laminated to the hull to provide maximum structural rigidity. Rudders and skegs in Vynilester laminates.

BRIDGEDECK-SALOON:

General:

Woodwork in exotic wood veneer
 Interior salon / cabin soles: laminated type wood veneer composite
 Settee cushions in "off-white" color
 Standing headroom (6'5-6'3")
 Saloon cushions in 4" thick polyester foam

Salon:

Salon accessible through a sliding Plexiglas door (2 doors) in white aluminum frame
 Ventilation by 2 opening frontal hatches
 1 U-shaped settee couch
 saloon dining table
 large lockers under settee seats
 Lighting by LED spotlights

Galley:

Galley opening onto cockpit
 Galley countertop in Corian type composite with lockers below
 Stainless sink
 1 trash bin with top access, bags removed through independent door
 Pressurized hot and cold freshwater from mixer faucet
 1 Force 10 - Perigord propane oven
 1 Force 10- Eno 3 burner propane stove top with potholders
 Large lower stowage locker under sink
 Lighting by LED and one fluorescent light
 Ventilation by 1 opening hatch above stove top
 Wall mounted lockers with bar/shelf mounted on stainless steel handrail

Navigation station:

Chart table
 Chart table light
 Navigation seat with cushion
 Console for 12 V electrical panel and navigation instruments, including a stowage space inside the chart table
 1 x 12 V outlet

PORT SIDE HULL

Owner's Stateroom:

Access to the Owner's suite through sliding wood joinery door at companionway
 Queen Size double berth
 5" comfort foam mattress
 2 large storage compartments under berth with frontal access drawer
 Locker with interior shelves with joinery front
 Bookshelf alongside berth
 Ventilation via 1 overhead hatch
 Hull port light window on side
 Aft facing panorama window
 General lighting by 1 LED spotlight and 2 berth side reading lights

Owner's Suite Salon:

Lounge settee with small shelf/desk
Settee cushion in "off-white" color
Wood Joinery desk
Large storage and hanging locker
1 escape hatch opening under bridgedeck
Clothes hamper locker under seat
Large fixed hull port light window
General lighting by 2 LED spotlights

Owner's Bathroom:

Access through wood joinery door
Counter top with composite and mirror
Storage area behind mirror closet
Manual marine toilet
11 gal black water holding tank
Bathroom accessories (toilet tissue holder + towel holder)
Separate shower with electric drainage sump pump with strainer
Ventilation via 1 deck hatch
General lighting by LED spotlights and one fluorescent light

Storage Forepeak:

Access deck hatch
Finished in gel coat
Utility light

STARBOARD SIDE HULL

Guest Cabin Aft:

Queen Size double berth
5" comfort foam mattress
2 large storage compartments under berth with frontal access drawer
Locker with interior shelves with joinery front
Bookshelf alongside berth
Ventilation via 1 overhead hatch
Hull port light window on side
Aft facing panorama window
General lighting by 1 LED spotlight and 2 berth side reading lights

Bathroom:

Access through wood joinery door
Counter top with composite washbasin and mirror
Storage area behind mirror closet
Manual marine toilet
11 gal black water holding tank
Bathroom accessories (toilet tissue holder + towel holder)
Separate shower accessed door with electric drainage sump pump with strainer
1 hull port light + deck ventilator with 12V extractor fan
1 escape hatch opening under bridgedeck
General lighting by 1 LED spotlights and one fluorescent light

Guest Cabin Forward:

Double berth
5" comfort foam mattress
2 large storage compartments under berth with frontal access locker plus access under mattress
Locker with interior shelves with joinery front
Bookshelf alongside berth
Ventilation via 1 overhead hatch
Hull port light window
General lighting by 1 LED spotlight and 2 berth side reading lights

Forepeak:

Access deck hatch
Standing headroom
Finished in gel coat
Utility light

DECK LAYOUT:

Helm station:

Ergonomic helm station allows a clear view forward
2 Engine controls and engine instruments
1 compass with internal light
Panel for navigation electronics.
Fixed double helmsman's seat with backrest

Cockpit:

8 person u-shaped settee
composite cockpit lounge table
composite roof covering cockpit
2 cockpit seat lockers
aft walkway/lounge platform
Propane cooking gas locker

Foredeck:

Forward trampoline-cockpit with built in bench seat
1 chain locker
1 utility locker

Engines:

2 x 30 hp Yanmar diesel engines with sail drives
2 blade fixed propellers
Raw water filter
Engine cooling by heat exchanger
Complete engine panel and dual controls at steering station
Engine access through GRP deck hatch
High-performance sound insulation
Lighting via fluorescent light

Fuel system:

(1) 125 gal (473 litres) pvc long range fuel tank with filler plate in cockpit
Electric fuel gauge (indicator on 12 Volt panel)

1 fuel pre-filter / water separator + 1 engine fuel filter
Fuel shutoff valve

Fresh Water System:

Total of 150 gal in 2 polypropylene freshwater tanks of (2) x 75 US gallons with electric gauge
1 electric pump and pressure accumulator
1 water heater (engine water jacket driven)

Bilge Pumps:

1 automatic electric bilge pump in each engine bilge compartment
1 automatic electric bilge pump in each center hull bilge compartment
1 manual exterior bilge pump with 30' hose in cockpit locker

Black water system:

2 manual toilets
Two black water holding tanks
overboard discharge deck fitting

Power system:

2 x 12V 120 amp engine alternators with battery charger
1 bank of starboard house/engine batteries of 300Ah
1 port engine battery of 100Ah
Emergency power crossover circuit with switch

12V electrical distribution panel:

General 12V distribution panel at chart table protected by labeled circuit breakers
Charge voltmeter for house batteries at nav station
Spare outlets for extra equipment

Mast and boom:

SELDEN 2 spreader, twin shroud mast and boom in anodized aluminum
Complete stainless standing rigging (forestay and 2 side shrouds)
Mainsail luff cars on low friction sliders
1 main halyard
1 topping lift
1 spinnaker halyard
1 Genoa or jib halyard
Jib halyard leads
pre-fed leach reef lines with boom jammers
2 Lazy-jacks
LED navigation and 360 degree anchor lights
Prewired VHF antenna cable in mast

Deck Hardware:

Deck mounted LED deck and steaming lighting
Mainsheet lead back to helm station rope clutch
Jib (or Genoa) sheet lead back to helm station rope clutch
Topping lift lead back to helm station rope clutch
Main halyard lead back to helm station rope clutch
Gennaker (or Code 0, or asymmetric spinnaker) halyard lead back to helm station rope clutch

Reef 1 lead back to helm station rope clutch
Reef 2 lead back to helm station rope clutch
Low friction mainsheet traveler along aft cockpit seat
Jib halyard lead back to helm station via deck block
2 mainsheet traveler tackles with sheet clutches in cockpit
2 self-tailing winches

Mooring Equipment:

6 mooring cleats (2 forward + 2 midships + 2 aft)

Steering System:

Manual steering system for maximum feedback with cables and destroyer type stainless steering wheel
2 rudders mechanically linked by stock levers and transversal tube
1 emergency tiller

Other equipment:

2 winch handles with 2 pockets
Pulpits and pushpits, stanchions with upper and lower lifelines and gates
Lifeline at aft platform with gate
1 swim ladder on port hull
Twin close mesh trampoline nets on forward beam
Center mounted composite gangplank with integrated anchor roller

NOTE:

All specifications and dimensions are given as a rough guide only. In an effort to improve the ALPHA 42 catamaran, the builder - Alpha 1 Composites may change specifications without notice. This document is non-contractual