

## AKILARIA CLASS 40

### RACE VERSION

#### BASE BOAT SPECIFICATIONS

##### RACE VERSION BASE BOAT INCLUDES:

##### HULL

Sandwich construction with vinylester resin in female molds. Balsa core in hull, PVC foam in deck all constructed using infusion process. Hardwood inserts in way of all hardware. Monolithic (solid glass) areas in way of sail drive, keel, rudder bearings, thru-hulls, crash box.

Reserve buoyancy of 3 cubic meters of foam per Class 40 rules.

##### Cockpit, Cabin Top, Cabin Sides, Transom, Internal Structures.

Sandwich construction with vinylester resin, PVC foam and infusion process on all components. All halyards and line from mast and inboard end of boom turn aft at mast base, enter line tunnel through cabin, P & S, exit main cabin bulkhead, pass through vestibule shelf to jammer farm and utility winch, P & S.

##### KEEL

Acier E 36 Structural Grade Steel – WELDOX 960

Rectangular box section fabricated steel blade faired to templates.

Lead Bulb

Design drawings, engineering specs, a detailed weld plan and post build ultrasound/X-ray testing and full compliant report provided with each keel.

Keel manufactured in France.

##### STEERING SYSTEM

Two rudders with solid stainless steel stocks as per class rules. Stock diameter is 49 mm.

F16PH stainless steel. JP3 self aligning water tight upper and lower rudder bearings.

Rudder structural grid is built using 316L stainless steel, rudder blade foam is 250kg/m<sup>3</sup> and built with glass and epoxy resin. Rudders are connected below deck with an aluminum tube. Two laminated, varnished tillers in cockpit port and starboard, with adjustable stainless steel foot rests for support when heeling.

##### MAST and RIG

Manufactured by Lorima/ZSpars in France of pre-preg carbon and autoclaved.

Mast is built in female tool. Mast is deck stepped with double swept back spreaders (aluminum) and running backstays. Mast is finished with clear coat polyurethane. Mainsail track is Antal with removable gate for square top mainsail.

Shrouds are rod rigging, adjustable inner-forestay and running backstays are Kevlar.

## **HARDWARE**

Harken winches, blocks and organizers. Spinlock rope clutches. Lewmar hatches and Wichard deck hardware.

Pulpits, pushpits, stanchions and chainplates in 316L polished stainless steel.

## **BALLAST SYSTEM**

Two tanks each side with a total of 750L/side to conform with Class 40 rules. 268L aft tank. 464L forward tank. Six watertight inspection hatches made by Henderson.

Tanks are filled and or emptied via two SoFoMarin scoops, extra large diameter hoses and electric high volume pump. Discharge and transfer is via gravity.

## **INTERIOR**

Aft under cockpit P&S composite boxes encapsulating required flotation foam.

Settee bunks P&S main cabin with storage lockers throughout.

Central "Open Boat Style" navigation station with upper and lower pod for instruments and computers.

Aft face of navigation pod is galley area. Sink with foot pump operated salt and fresh water and recessed area for stove to stb'd..

48L Vetus fresh water tank

Bilge pump with float switch.

Utility bilge pump with roaming hose.

Marine Head located stb'd side aft of main bulkhead.

## **ENGINE**

Nanni 3.100 HE diesel engine fresh water cooled with sail drive.

Three cylinder in line engine- 29 HP at 3,600 RPM

Engine panel with key start and RPM gauge mounted below

Oil pressure and water temp. alarms in engine panel

High quality marine exhaust hoses, waterlifts, seastrainers, thru-hulls, exhaust ports, etc.

88L Vetus Fuel Tank with remote shut off.

## **Custom Deck Package**

Floating titanium ring and sheeting system, P&S

Upgraded main sheet system

Two Tylaska snap shackles

Five Equiplite snatch blocks

Navtec swivel lashing eye on inner forestay lower fitting

2:1 Antal main halyard block

Hardware and line for code sail continuous furling system

Hardware and line for 2:1 tack line system

Hardware and line for 2:1 adjustable inner forestay set-up

Bobstay

11 Line storage bags

### **Cushions and Canvas**

Custom sail cradle to fit boom with vertical side panels incorporating Lazy jacks  
Sail cover  
Pipe berth cushions  
Nav seat cushion, ultra suede  
Vestibule cushions (2)  
Settee and V berth cushions.

### **Misc.**

Carbon boom  
Spinlock engine control lever  
Adjustable SS foot rests, P&S at helming station.  
Gori folding racing propeller  
Running rigging package, race version  
Kevlar headstay  
Adjustable height cradle  
Custom central pushpit for antennas on transom centerline  
Harken Racing Winches  
Gimbaleed one burner "Origo" non-pressurized alcohol stove

### **Electrical System:**

Two 12 position breaker panels  
Three battery switches - house bank, engine start, parallel  
Two bilge pumps with switches  
Two DC outlets at chart table  
Two LED chart table lights  
Four fans  
150 amp large case alternator with external regulator  
One Optima engine start battery  
Three Lifeline 100 amp hour Group 27 AGM batteries for house bank  
Balmar digital, programmable regulator  
Balmar Duo charge combiner  
Mastervolt battery monitor  
All cabling, wiring, junction boxes, fuses, bus bars, etc.

### **Commissioning:**

Epoxy barrier coat and antifoul paint to bottom, keel, rudders.  
Fit and bond keel  
Fit and install rudders  
Launch  
Step mast, tune rig

**RACE VERSION OPTIONS:** (See price list for specific costs)

### **B&G Autopilots and Sailing Instruments**

B&G H3000 ACP 1 Autopilot Processor (2)  
B&G H3000 Graphic Pilot Display (GPD) (3)  
B&G H3000 Hercules Instrument Processor  
B&G H3000 Graphic Function Display (GFD) (4)  
B&G Type 1 Linear Drive (1)  
Raymarine Type 2 Short Linear Drive (1)  
B&G RRI (2)  
B&G Halcyon 2000 Compass Sensor (1)  
B&G Halcyon Gyro-Stabilized Compass (1)  
B&G Halcyon Interface Cable (2)  
B&G Speed Sensor w/flush housing (2)  
B&G Depth Sensor w/flush housing (1)  
B&G 213 Standard Masthead Unit  
All necessary junction boxes, switches, cabling and labor

### **Computer System**

Lenovo ThinkPad T61  
17" 12VDC Monitor  
Actisence Multi-plexer  
SeaLevel Quad Port Serial USB Adapter  
Keyboard  
Trackball  
Docking Station  
DC Charging  
All labor, cables, wiring, interfacing and set-up

### **Software**

MaxSea Commander  
MaxSea Weather routing module  
MaxSea Sail Performance module  
OCENS WeatherNet  
UUPlus email  
EasyMail Sat C  
Installation and activation

Carbon Fiber Pole  
Holding Tank  
2nd Pilot Support  
Facnor Drum Style furling Unit and Top Swivel - Solent  
Facnor FX 4500 Continuous Line Furler, Top Swivel and 2:1 Block, Code 0  
Masthead.  
Facnor Code Sail Top Swivel & 2:1 Block - Code 5 Fractional  
Sails  
Fenders (4), Fender Covers (4) and Dock Lines (5)  
Anchor Pkg: 15lb Fortress Anchor, Bag, 150' 1/2" Rode, 30' 5/16" Chain  
LED Interior (10), LED Deck and Masthead Nav Lights

Inmarsat Mini C with Distress Button  
Iridium Satellite Phone with Passive Antennae  
Radar, GPS + NMEA Interface  
Active Radar Transponder with Alarm  
DSC VHF