

SPECIFICATION: 10m Jet Cruiser

1.0 General:

Builder: Winninghoff Boats, Inc.

Year Built: 2001

Principal Dimensions

LOA:	10 m (32.8 feet)
Hull Beam (max.):	3.4 m (11.3 feet)
Draft	approx. 0.5 m (1.7 feet)
Displacement:	approx. 12,000 lbs - normal operating (2 people, 100 gal fuel)
Engine/Drive:	Yanmar 420 HP w/ Hamilton Jet 292
Fuel Capacity:	230 gallons
Fuel Consumption - Cruise:	approx. 19 gph @ 24 knots (3000 RPM)
Fuel Consumption - WOT:	approx. 24 gph @ 29 knots (3300 RPM)
Range @ Cruise w/ 20 gal reserve:	approx 265 n.m.

The boat is designed for use as a day boat for a gang of friends and as a personal cruiser for the owner and a companion. The arrangement is typical for a boat of this size and type, although there are several unusual features that set it apart from the pack.

Outboard of the pilothouse and cuddy cabin there is a well deck, set below the sheer, i.e. the boat is a "walk-around". This improves safety for young and old as they walk forward and lounge on the forward bench seat.

The engine and drive train fits under the flush cockpit deck. There are six, flush, watertight hatches in the cockpit sole providing excellent access to machinery, systems, and stowage. Similarly, the voluminous space under the pilothouse sole is easily accessed via a large hatch in the sole.

Bow thruster, electric windlass and autopilot enable captain and crew to relax and enjoy!

Phase 2: Hull Construction

- Welded aluminum construction with both transverse and longitudinal framing.
- (3) Water tight bulkheads
- Scantlings per the following:

<u>Item</u>	<u>Dimension</u>	<u>Alloy</u>
Keelson	.375" Plate	5086 H117
Transverse Frames	5" x 1.7" x .190 Tee	5086 H32
Bulkheads	.190" Sheet	5086 H32
Longitudinals- Bottom	4" x .250" cut plate, & 3" bulb Tee	5086 H117 6061 T6
Longitudinals- Deck	2" x .190" Flat Bar	6061 T6
Longitudinals- Topsides	1.5" x 1.5" x .190" Tee, & 3/16" cut sheet	6061 T6 5086 H32
Bottom Plating & Doubler	.250" Plate	5086 H117
Chine Bar	.375" Plate	5086 H117
Topside Plating	.190" Sheet	5086 H32
Transom	.190" Sheet	5086 H32
Decks	.190" Sheet	5052 H32
Pilothouse & Trunk	.190" Sheet	5052 H32
Cabin Beams	2" x 1"x .125" Chan.	6061 T6
Engine Beds	.375" Plate	5086 H117
Fuel Tank	.190" Sheet	5052 H32
Pipe & Tubing	Primarily Schedule 40	6061 T6 or 6063 T6

Welding- MIG and TIG processes using 5356 filler wire. All underwater seams shall be continuously welded inside and outside. All frames and stiffeners shall be stitch welded both sides.

Phase 3: Propulsion

3.1 Fuel

Tank: 230 Gallon, welded aluminum (3/16", 5052) constructed & tested per USCG & ABYC standards.

Pick-up & Return fittings w/ shut-off valves

Tank Tender sending unit.

Fill: 1 1/2" Wilcox marinium deck plate, mounted in side deck.

Vent: 5/8" Attwood, nylon, mounted high on pilothouse side,

Filter: Racor 75/1000MAX, 30 micron, twin filter manifold

Plumbing: USCG approved hose, sizes to suit, JIC flare fittings

Conditioning: Algae-X Fuel Conditioner (ALG-LX500) in feed line, before filter

3.2 Engine

- Yanmar 6LY2M-STE diesel, 420 hp at 3,300 rpm
- Fresh water cooled
- IRM 301PL2 1.106:1 transmission
- Aquadrive mounts.

3.3 Drive

- Hamilton model 292 jet drive
- Aquadrive shaft, 20400 series.

3.4 Instruments & Controls

Engine Panel: Yanmar "C-type" panel.

Fuel Consumption: Floscan Cruisemaster 6500 # 6632-3BB-28

Jet Bucket Controls: Kobelt control #2009 at helm. Morse 33C Supreme cable.

Throttle: Control and Cable per jet bucket controls.

Transmission: Morse cable to Tee handle (push/pull) at dash.

3.5 Steering

- Teleflex SeaStar hydraulic with Teleflex or Kobelt cylinder
- 15" Edson teak & aluminum wheel w/ Edson nut
- Joystick (autopilot)

3.6 Exhaust

- Stainless Marine 71° dry elbow inserted before Yanmar wet elbow
- Centek, dual stage, in-line waterlift muffler- 14205000, 5" inlet, 6" outlet
- Hardwall exhaust hose w/ "Tee Bolt" stainless steel hose clamps
- Transom outlet (6") fit with Salisbury flap

3.7 Engine Raw Water

- Fabricated inlet scoop to 3" sch 80 welded aluminum standpipe w/ clean out
- 2" stainless ball valve
- Groco ARG-2000 water strainer
- Plumbing for in-the-water winterization
- Plumbing for emergency engine room bilge pump w/ 1 1/2" Forespar valve and strainer

3.8 Ventilation & Sound Insulation

- (4) engine vent trunks with Winninghoff cast aluminum louvres set just below sheer.
- High density panel dampening material
- 2 pound lead/foam insulation with mylar face in engine space and above drive line

Phase 4: Superstructure- Pilot House & Cabin

Walk-around pilot house and cabin with bench seat recessed into the front of the cabin trunk.

Phase 5: Auxiliary Equipment & Machinery

5.1 Bilge Pumps

- Lovett 1200 GPH (3) with float switches
- Three position control switches at helm
- Shields 250-1180-10 discharge hose
- Emergency bilge pump in engine compartment, via engine raw water system

5.2 Auxiliary Components

- Engine Room Fire Sys: Fireboy MA2-200 w/ E4209-20 cable kit
Heat: Ardic 952-DW Diesel fired heater. Forced hot air, heated by water with (4) ducted outlets- (2) in pilot house for & (2) in forward cabin. Same unit is plumbed to heat engine block and domestic water.
- Raw Water Washdown: Jabsco Par Max, 12v pump (30700-0012) with deck outlet (Newfound metals stainless quick connect) and 30' deck hose coil w/ spray nozzle.
- Trim Tabs: Bennet 9"x30" Tabs w/ Bennett double rocker switch and tab angle indicator system.

5.3 Deck Gear

- Anchor Chain Pipe: at foredeck
Anchor Locker: (2) One at stem between foredeck and weather deck, another below the weather deck.
- Bow Chocks: (2) on foredeck- Buck Algonquin, Aluminum
Bow Cleats: (2) Winninghoff cast aluminum cleats, 12", welded to foredeck.
- Bow Roller: Aluminum fabrication to suit a Spade A80 anchor.
Hawses: (2) at Stern Cleats, Buck Algonquin, Aluminum
Rod Holders: (4) Wilcox, anodized aluminum in side decks at cockpit
Scupper Flaps: (2) at transom
Signal Mast: Hinged aluminum mast on pilothouse roof for mounting of assorted antennae and lights.
- Spring Cleats: (2) Winninghoff cast aluminum cleats, 8", welded to side decks near midships
Stern Cleats: (2) Winninghoff cast aluminum cleats, 12", installed below side/transom deck
- Transom Door: At transom, port side, to hinge outward.
Transom Platform: Welded aluminum fabrication w/ sufficient depth to protect the jet bucket in reverse position. Pipe at perimeter of platform will be continuous with aft/lower rub strake.

5.5 Fresh Water & Head Systems

Fresh Water System:

- - 40 gal. plastic tank w/ Tank Tender sending unit.
- - 6 gallon water heater, Isotemp, 110V and/or engine/heater water heated
- - Pressure pump, 12v, Shurflo- 3.3 gpm
- - Galley sink- Polar s.s. w/ Scandvik faucet
- - Head sink- custom, pull-out w/ Scandvik 13201 10" sink, Scandvik 113911-MD faucet/shower and Scandvik 100100SD shower mount
- - Cabin shower and drain sump w/ auto sump pump, Rule.
- - Cockpit shower assembly w/ hot & cold water, Whale.

Head:

- - Manual, oversize head, Jabsco
- - 20 gal. holding tank, plastic w/ Tank Tender sending unit.
- - Macerator pump, 12V, Sealand 317-3012000
- - Overboard and deck pump out plumbing
- - Tank vent filter, Sealand
- - Waste Plumbing, Shields 16-101-1120

Phase 6: Electrical & Electronics

6.1 Battery System

Batteries: (2) 4D AGM, deep cycle, marine (house, starting)
(1) Group 31, AGM (windlass & thruster)
(1) Battery isolator, Surepower, 3 battery

Switches: (4) Blue Seas 9006
(1) Perko, 2 position at windlass/thruster battery

Main Breakers: (2) in accessory circuits mounted at batteries

Circuit Breaker Main; Bass 90-6115 w/ LED's, backlighting, labels

Panels: Helm; Mobile Marine Electric, custom 18 position

Fuse Panels: Custom at helm, 5 position.

6.2 DC Accessories

Bilge Pumps: per 5.1

Bow Thruster: Side Power 3.1 kW (4 hp) w/ joystick & 200 amp fuse

Blower: Exhaust blower in head, Attwood

Horn: AFI, dual trumpet, stainless steel

Lights- Pilot house: (3) red/white dome lights
 Lights- Cabin: (3) dome lights, (2) berth/reading lights
 Lights- Courtesy: (2) in aft cockpit
 Lights- Deck: (1) 3" x 5" halogen mounted on mast or pilothouse roof

Nav. Lights: Aqua Signal series 25 sidelights, Attwood 12" pole light
 Search Light: Guest Beamer, electric remote, mounted on pilothouse roof

12 Volt Outlets: (2) 2 prong outlets, Perko
 (1) Marinco 12vpk, lighter type.

Wipers: (2) AFI self-parking wipers w/ pantographic arms.
 Windlass: Lofrans Progress I w/ capstan, deck switches and breaker

6.3 Electronics/Instruments

AutoPilot: Simrad AP22 system w/ joystick control
 Compass: Ritchie SS-1000, w/ light
 Depth: Furuno 1933 Navnet w/ 5-/2—KHz thru-hull transducer
 GPS: Furuno 1933 Navnet
 Radar: Furuno 1933 10.4" color LCD NavNet system
 Stereo: Jensen MDC9645W Radio/Cassett/CD w/ 4 Bose 18730 waterproof panel speakers and am/fm antenna
 VHF Radio: Standard Horizon Spectrum w/ antenna and mount.

6.4 AC System

Panel: Bass 90-6115 w/ LED's, backlighting, labels
 Shore Power: Marinco, 30 amp w/ 50' cord and galvanic isolator
 Inverter/Charger: Heart Freedom 10 (1000 watt) w/ remote panel
 AC outlets: (4) GFCI, duplex

Phase 7: Joinerwork

7.1 Hatches, Windows, Doors

- Pilothouse:
- (4) side windows, sliders w/ screens
 - (2) front windows, fixed
 - (2) aft windows, fixed
 - (1) aft door window, fixed
- (2) Roof vent hatches- Bomar 1011-10A w/ screens
 - Hinged, water tight door, Diamond Sea Glaze.
 - Companionway hatch, teak and plywood

- Forward Cabin:
- (5) Portlights- Lewmar, opening w/ screens
 - Skylight hatch- Bomar 1049-10AX w/ screen
- Deck:
- (6) Fabricated flush, watertight hatches in cockpit sole, including one each for engine and jet.
 - (1) Fabricated flush, watertight hatches in pilothouse sole
 - (1) Freeman 1218 at foredeck (anchor locker)

7.2 Rails & Rub Rails

- Rub Rail: Welded aluminum, buffed finish
 Bow Eye: 3/4" aluminum weldment
 Bow Rail: 1" sch 40 aluminum pipe, welded
 Handrails: (1) pilothouse overhead

7.3 Joinerwork

Pilothouse:

- Helm & Crew Seats, Stidd
- Bench seat w/ cushions and stowage
- Ceiling insulation and paneling/liners
- Custom dash w/ electronics array
- (4) teak corner posts

Forward Cabin:

- Sole- solid teak over plywood sub
- Companionway steps (teak)
- Side and Ceiling insulation and paneling/liners
- Hanging Locker
- Vee Berth and seat w/ cushions
- Drop down table w/ insert cushion
- Galley counter w/ lockers & drawers
- Head enclosure w/ door
- Misc. stow lockers/counter in head
- Misc. shelves and bins

Galley:

- sink (see 5.5)

- Stove- Kenyon B23006, single burner, butane
- Microwave- 600W, .6 cu.ft. compact
- Refrigerator- Norcold DE441, 3.1 cu. ft. AC/DC

Deck: • Bench seat, forward w/ seat and back cushions.

Phase 8: Paint & Finish

<u>Item</u>	<u>Primer</u>	<u>Topcoat</u>
Bottom		Bye-Bye Barnacles
Boot Stripe	Interlux Prime Wash	Interlux Polyurethane
Interior	Ameron 370 Epoxy	Ameron PSX 700

Phase 9: Commissioning

- Dock Lines: (2) ½” x 35’, (2) ½” x 25’, braided white
- Fenders: (3) 6” w/ lanyards
- Anchor: Spade A80 w/ 15’ of chain & 200’ of 9/16” three strand nylon
- Flares: Orion 12 gauge alert/locate kit
- Fire Extinguishers: (2) Kidde Mariner 110 PS #126227
(1) Kidde FireOut Foam, PS 137393