# 450 Voyager Pilothouse

<table>
<thead>
<tr>
<th>Specification</th>
<th>Measurement</th>
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</thead>
<tbody>
<tr>
<td>LOA (w/platform)</td>
<td>46'11&quot;</td>
</tr>
<tr>
<td>Beam</td>
<td>14'11&quot;</td>
</tr>
<tr>
<td>Draft</td>
<td>43&quot;</td>
</tr>
<tr>
<td>Bridge Clearance w/arch</td>
<td>19'11&quot;</td>
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<tr>
<td>Weight (w/fuel &amp; water)</td>
<td>39,600 lbs.</td>
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<tr>
<td>Water System</td>
<td>150 U.S. gals.</td>
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<tr>
<td>Waste System</td>
<td>80 U.S. gals.</td>
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<tr>
<td>Fuel System</td>
<td>560 U.S. gals.</td>
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<tr>
<td>Twin inboards (diesel)</td>
<td>6'8&quot;</td>
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<tr>
<td>Cabin Headroom</td>
<td>6</td>
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<tr>
<td>Sleeps</td>
<td></td>
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</tbody>
</table>

**Dimensions (meters):**
- LOA: 14.30 m
- Beam: 4.55 m
- Draft: 1.09 m
- Bridge Clearance: 6.07 m
- Weight: 17963 kg
- Water System: 567.8 liters
- Waste System: 302.83 liters
- Fuel System: 2119.82 liters

**Dimensions (feet):**
- LOA: 14'3"
- Beam: 14'11"
- Draft: 43"
- Bridge Clearance: 19'11"
- Weight: 39,600 lbs.
- Twin inboards: 6'8"
- Cabin Headroom: 6
- Sleeps: 6

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**Carver Yachts**

[Image of Carver Yachts logo]
Construction
- Structural engine mountings - longitudinal stringer span mounting with reinforced, double gusseted angle steel plates
- Fabricated aluminum floor frames with stainless steel stanchions
- Hand-laid, molded fiberglass components featuring composite laminate hullsides, decks, and cabintops
- Molded fiberglass stringer system
- Cherry wood bulkheads, cabinetry, and trim throughout cabin, with high gloss finish
- Solid fiberglass hull bottoms with Kynex substrates and Vinyester barrier coat
- Tinted, tempered safety glass frameless window systems
- Unlized dock, cockpit, and cabintop construction with integral aluminum truss reinforcement in cabintop structure

Mechanical
- Dripless shaft logs with spare seals
- Exhaust mufflers - engines
- Exhaust mufflers - generator
- Fresh water cooling - engines
- Fuel tanks - welded, baffled 5052 aluminum
- Hydraulic steering
- Propellers
- Propeller shafts - aquamet
- Rudders - 421 manganese bronze
- Seawater strainers
- Cutlass bearings - synthetic rubber composite
- Struts - 421 manganese bronze
- Trim tabs - stainless steel, hydraulic

Electrical
- AC/DC distribution panels with magnetic circuit breakers and integral generator and bilge blower controls; AC and DC voltmmeters; AC and DC ammeters
- Batteries (4) - deep cycle, marine (12V)
- Battery chargers (3) - electronic, AC-DC converters
- External connectors - CATV, telephone
- Generator - 9.0 kW, diesel (in lieu of air conditioning)
- Ground Fault Circuit Interrupt (GFCI) protection - all 110V outlets
- Inverter
- Shore power connector - 50 amp
- Shore power cord - 50 ft.
- Wiring system - tinned copper strand wire, harness, color-coded, labeled, meets or exceeds ABYC standards
- Molded nonskid surfaces on all walk decks - diamond pattern
- Navigation lights (COLREGS)
- Bronze valves for all underwaer thru-hulls

Water & Waste Systems
- Central drain system
- Fresh water system - pressurized (12V)
- Fresh water storage tanks (2) - polyethylene, 75 gallons each
- Grey water pump - automatic/manual operation
- Waste holding tanks (2) - with dockside pumpouts, 40 gallons each
- Water and waste lines - constructed of molecularly cross-linked polyethylene
- Water heater - 11 gallons (110V)

Safety & Navigation
- Anodes - zinc, sacrificial
- Battery master disconnect switches
- Battery restraints brackets and boxes
- Bilge blowers (12V)
- Bilge pumps (3) - 2000 gph each, automatic/manual operation
- CO detectors in salon and staterooms
- Compass - illuminated
- Engine alarms - temperature and oil pressure
- Fire suppression system - automatic, FE241 (FM200 in European Community)
- Fog bell - 8", stainless steel
- Galvanic isolator/zinc saver
- Horns - dual, air/electric (12V), trumpet
- Internal bonding system
- Isolation transformers on the internal shore power lines

Bridge
- Aft Bridge Extension
  - 48.5 ft² (approx.)
  - Light - courtesy, recessed

Command Bridge
- 110V outlet - GFCI protected
- Beverage holder - recessed, integral, near double-wide lounge
- Beverage holders (6) - behind large lounge
- Electronics arch - custom aluminum with acrylic polyurethane surface coating and UV protection
- Electronics arch access plates (5) - corrosion-resistant polymer attached with noncorroding screws and waterproof sealant
- Hand rail - stainless steel, across front and down side of wet bar
- Lights (2) - courtesy, recessed
- Lights (2) - overhead, recessed
- Lounge - double-wide, starboard side, with storage below
- Lounge - port side, accommodates 5 adults
- Self-draining walk surface
- Storage cabinet - under wetbar
- Table - 48" x 34" oval
- Wet bar - self-draining with sink and 12" x 14.5" preparation surface
- Windshield - wraparound aluminum frame with opening side vents

Helm
- Access hatch - 48" x 13" provides access to wiring below helm
- Accessory space - for installing optional navigation equipment
- Adapter - 12V
- Beverage holders (3)
- Helm seats (2) - adjustable, high-quality marine-grade upholstery, embroidery stitching
Cockpit
- 110V outlet - GFCI protected
- Aft bridge extension stairway - integral, with 45° stainless steel hand rail, diamond pattern nonskid steps
- Cleats (2) - 12" stainless steel, through-bolted through aluminum backing plate, inboard-mounted with stainless steel hawse pipes
- Grab rail - 60" stainless steel, on top of transom
- Grab rails (2) - 41" stainless steel next to side deck stairways
- Hatch - engine room access, 3' x 4.5', guttered, watertight, supported by gas shocks
- Lights (5) - courtesy, recessed, with exterior-mounted switch
- Lights (4) - overhead, recessed, with exterior-mounted switch
- Overhead sun/weather protection - 62" from cabin toward stern
- Side deck stairways (2) - integral to deck
- Locker - under aft bridge extension stairway
- Transom door - fiberglass, stainless steel latch

Engine Room
- Bilges coated with white, low-VOC gelcoat
- Bulkheads laminated to hull sides and stringers
- Insulation - acoustical and thermal, vinyl vapor barrier
- Lights (6) - overhead, 23" fluorescent, controls in cockpit
- Diamond plate aluminum catwalk

Boarding Platform
- 40 ft² (approx.) integral to hull and deck
- Boarding ladder - retractable, telescoping, with grab rail, concealed in boarding platform
- Fuel fittings - port and starboard transom
- Hand rail - 18" stainless steel on starboard transom

Salon
- 110V outlets (3) - GFCI protected
- AC and DC main distribution panels
- Carpet - dynasty pile, 50 oz.
- Designer décor
- Entertainment group - TV, VCR, and 110V component stereo including AM/FM receiver, CD player and changer, 2 speakers in salon, and 2 speakers in pilothouse
- Entrance door - stainless steel frame, curved, sliding, 45° x 72", handle lock, deadbolt, neutral density glass, with interior screen
- Hardware highlights - chrome/brass
- Light - overhead, directable, above entertainment group
- Lights (7) - overhead, recessed
- Loveseat - Flexsteel, UltraLeather, with storage beneath
- Miniblinds - décor-matched
- Rocker light switches
- Sofa - Flexsteel, UltraLeather, with double incliners
- Telephone connector
- Wet bar - mirror-backed, solid surface top, 2 shelves in cabinet below

Galley
- 110V outlet - GFCI protected
- Brass/chrome sink fixture
- Designer décor
- Laminate wood plank flooring
- Lights (4) - overhead, recessed
- Microwave/convection oven - built-in
- Range - electric, three-burner
- Range vent
- Refrigerator/freezer (upright)
- Rocker light switches
- Sink - integral, with solid surface cover
- Solid surface countertops and backsplash
- Storage - under sink

Deck
- Bow rail - 1.25" O.D., lineal-buffed, welded stainless steel, with additional intermediate rail amidships and forward
- Bow rail stanchions - double-welded (inside and outside), stainless steel, anchored to aluminum backing plates laminated into deck
- Cleats (4) - 10" spring, stainless steel, through-bolted through aluminum backing plate
- Companionway door - starboard side deck, sliding, 11" long stainless steel grab handle and latch
- Deck toe rail
- Grab rail - stainless steel, over cabin windows, running length of cabin and above windshields
- Rail gate - starboard side
- Rub rail molding - heavy-duty, stainless steel insert

Foredeck
- Bow lockers - twin, self-draining for fender storage and anchor chain locker access
- Cleats (2) - 12" stainless steel, through-bolted through aluminum backing plate
- Cleat - 12" stainless steel for anchor line, through-bolted through aluminum backing plate
- Windshield weather covers - color-coordinated to canvas

Instruments
- Gauge - combination synchronizer/rudder angle, digital tachometer (1 per engine)
- Multi-gauges (1 per engine) - oil pressure, engine temperature, engine battery voltage, and fuel level
- Rocker switch controls

Light - courtesy, recessed
Tilt steering wheel
• Storage drawers
• Storage cabinets
• Towel bar

**Pilothouse**
- 110V outlet - GFCI protected
- Beverage holders (2) - recessed, integrated
- Carpet - dynasty pile, 50 oz.
- Circuit breakers - for helm controls
- Helm seat - Flexsteel, UltraLeather, 6-way electrically adjustable
- Lights (4) - halogen, overhead, recessed
- Lounge - U-shaped, UltraLeather
- Night operations light - halogen, red illumination
- Overhead panel - 38.5” x 13” flush-mounted, for electronics
- Pilothouse door - to starboard side deck
- Rocker light switches
- Windshield defoggers (3)
- Windshield wipers (3) - each with fresh water washer

**Master Head**
- 110V outlet - GFCI protected
- Brass/chrome sink fixtures
- Entrance door - secure stem, stainless steel hardware, cherry wood with frosted glass and modified Queen Ann grill
- Head fan
- Light - halogen, overhead, recessed
- Medicine cabinets (3) - mirrored, 3 shelves
- Mirrored wall
- Rocker light switches
- Soap dish - wall-mounted, solid glass, brass/chrome highlights
- Toilet - electric flush, pedestal
- Toilet paper holder - wall-mounted, brass/chrome
- Towel bars (2) - 18” and 8” wall-mounted, brass/chrome
- Vanity - solid surface top, 2 shelves below with 2 doors

**Shower Stall**
- Bench seat - integral
- Entrance door - clear glass, secures closed
- Portlight - screened
- Shower head - chrome, adjustable height, detachable for use as handshower
- Towel bar - 36” wall-mounted

**Guest Head**
- 110V outlet - GFCI protected
- Brass/chrome sink fixtures
- Clothes hook
- Entrance door - secure stem, stainless steel hardware
- Head fan
- Lights (3) - overhead, recessed
- Medicine cabinet (2) - 2 shelves
- Medicine cabinet - mirrored, 1 shelf
- Mirrored ceiling
- Portlight - screened
- Rocker light switches
- Soap dish - wall-mounted, solid glass, brass/chrome highlights
- Toilet - electric flush, pedestal
- Toilet paper holder - wall-mounted, brass/chrome
- Towel bar - 8” wall-mounted, brass/chrome
- Vanity - solid surface top, 2 shelves below with 2 doors

**Shower Stall**
- Bench seat - integral
- Entrance door - clear glass, secures closed
- Light - overhead, recessed
- Shower head - chrome, adjustable height, detachable for use as handshower
- Towel bar - 24” wall-mounted

**Companionway to Stateroom Level**
- Above - two-shelf, mirror-backed, with overhead, recessed light
- Carpet - dynasty pile, 50 oz.
- Hand rails - 38” stainless steel, on stairway
- Lights (5) - courtesy, recessed
- Light - halogen, overhead, recessed
- Rocker light switches

**Master Stateroom**
- 110V outlets (2) - GFCI protected
- AC and DC distribution panels
- Bedside endtables (2) - solid surface tops, storage beneath (in lieu of optional stereo)
- Berth - queen, inner-spring mattress, island
- Carpet - dynasty pile, 50 oz.
- Designer décor
- Entrance door - pocket-style, secures open and closed
- Hanging locker - cedar-lined, 20” hanging bar, automatic light
- Lights (2) - reading, recessed
- Lights (5) - halogen, overhead, recessed
- Miniblinds - décor-matched
- Mirror over berth
- Portlights (2) - screened
- Rocker light switches
- Storage - in board bulkhead
- Storage - beneath berth
- Storage drawers (4)
- Storage shelves (6)
### Propulsion

**Diesel Engines**
- Cummins 330B with air separator
- Cummins 370B with air separator
- Cummins 450C with air separator
- Volvo TAMD 63P
- Volvo TAMD 73P EDC with synchronizer
- Volvo TAMD 74P EDC with synchronizer

### Electrical
- Adaptor - 50 amp, includes 50 ft. of shore power cord
- Cablemaster for shore power
- Generator - Kohler 13.5 kW

### Forward Shore Power Connector
- With Cablemaster and additional 50 ft. of shore power cord
- Without Cablemaster

### Water & Waste Systems
- After tank overboard discharge with pump
- Fresh water tank level monitor
- Grey water holding system (not available with dishwasher or washer/dryer)
- Hot and cold cockpit handshower
- Shore water connection
- Waste tank level monitor

### Transom and Bow Washdowns
- Both fresh and seawater
- Fresh water
- Seawater

### Head
- Electric flush - fresh water
- Vacuum flush

### Safety & Navigation
- Autopilot
- Dinghy storage cradle (on aft bridge extension)
- Dual station spotlight
- Electronics Package for upper helm (electronics package for pilothouse must be ordered)
- Maxwell 1200 VWC Lo Profile windlass with 44 lb. delta anchor and 200 ft. of 5/16" chain

### Decor
- Artisan Springs
- Cityscape
- Designer Rainforest
- Garden Terrace

### Carpet
- Beige
- Blue (available only with Artisan Springs décor)
- Designer beige (available only with Designer Rainforest décor)

### Countertop Color
- Black
- Blue
- Green
- Neutral
- Rainforest (required and available only with Designer Rainforest décor)

### UltraLeather Color
- Coordinated
- Neutral (buff)

### Cabin Amenities - Galley
- 2-Burner electric stove with ceran top
- Coffee maker
- Dishwasher - large capacity (not available with trash compactor)
- Galley floor plan A
- Trash compactor

### Cabin Amenities - Forward
- Stereo - in master stateroom
- Storage locker (not available with third stateroom)
- Third stateroom
- TV/VCR - 13" color, in guest stateroom

### TV/VCR - Master Stateroom
- 13" color TV with remote-mounted VCR (available only with third stateroom)
- 13" color TV/VCR (not available with third stateroom)

### Miscellanous
- Over/under
- Combination

### Miscellaneous
- Loading charge
- Shipping cradle
- Shrink wrap