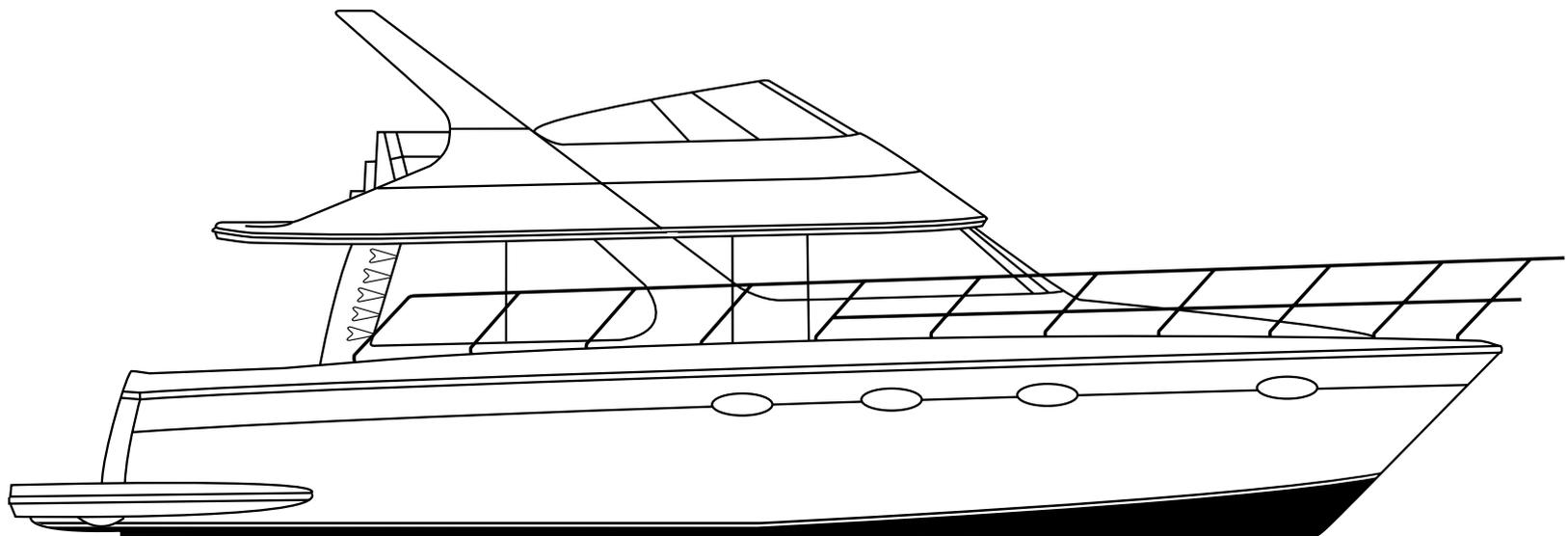
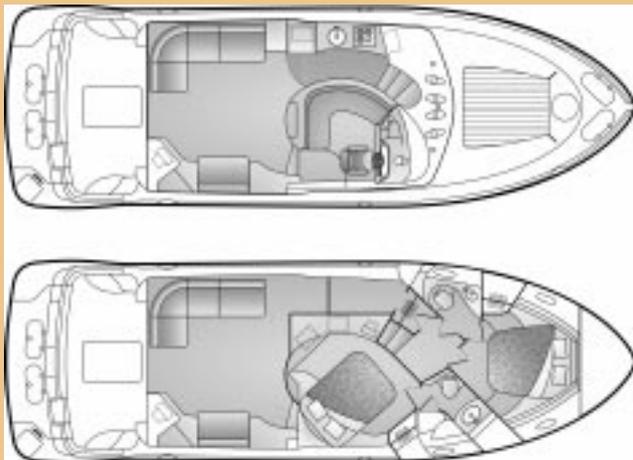


4 5 0 V O Y A G E R P I L O T H O U S E

CARVER[®]
YACHTS



4 5 0 V O Y A G E R P I L O T H O U S E



LOA (w/platform)	46'11"	14,30 m
Beam	14'11"	4,55 m
Draft	43"	1,09 m
Bridge Clearance w/arch	19'11"	6,07 m
Weight (w/fuel & water)	39,600 lbs.	17963 kg
Water System	150 U.S. gals.	567,8 liters
Waste System	80 U.S. gals.	302,83 liters
Fuel System	560 U.S. gals.	2119,82 liters
Twin inboards (diesel)		
Cabin Headroom	6'8"	2,03 m
Sleeps	6	

STANDARD FEATURES

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 Knytex substrates and Vinylester barrier coat
- Tinted, tempered safety glass frameless window systems
- Unitized deck, cockpit, and cabintop construction with integral aluminum truss reinforcement in cabintop structure

MECHANICAL

- Dripless shaft logs with spare seals
- Exhaust mufflers - engines
- Exhaust muffler - 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 voltmeters; AC and DC ammeters
- Batteries (4) - deep cycle, marine (12V)
- Battery chargers (3) - electronic, AC-DC converters
- External connectors - CATV, telephone
- Generator - 10.0 kW, diesel (not available with 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, harnessed, color-coded, labeled, meets or exceeds ABYC standards

WATER & WASTE SYSTEMS

- Central drain system
- Fresh water system - pressurized (12V)
- Fresh water storage tanks (2) - polyethylene, 75 gallons each
- Grey water sump pump - automatic/manual operation
- Shore water connection with pressure-reduction valve
- 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 restraint 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
- Molded nonskid surfaces on all walk decks - diamond pattern
- Navigation lights (COLREGS)
- Bronze valves for all underwater thru-hulls

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 (5) - 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
- Seat covers
- 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 cover
- Helm seats (2) - adjustable, high-quality marine-grade upholstery, embroidery stitching
- Light - courtesy, recessed
- Telephone connector
- Tilt steering wheel

Instrumentation

- 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

DECK

Side Decks

- 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

Fare Deck

- 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 - black mesh

COCKPIT

- 110V outlet - GFCI protected
- Aft bridge extension stairway - integral, with 43" 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
- Lockers (2) - in-deck, self-draining
- Lockers (2) - transom, for stowing shore water hoses and shore power lines

SALON

- 110V outlets (3) - GFCI protected
- AC and DC main distribution panels
- Carpet - beige, tufted cut pile, 65 oz., crush-resistant, 100% nylon
- 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 - brass/chrome
- Light - overhead, directable, above entertainment group
- Lights (7) - overhead, recessed
- Loveseat - Flexsteel, chamois UltraLeather, with storage beneath
- Miniblinds - décor-matched
- Rocker light switches
- Sofa - Flexsteel, chamois UltraLeather, with double incliners
- Telephone connector
- Wet bar - mirror-backed, solid surface top, 2 shelves in cabinet below

GALLEY

- 110V outlet - GFCI protected
- AC and DC distribution panels
- Coffee maker
- Designer décor
- Flooring - wood plank
- Hardware highlights - brass/chrome
- 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
- Storage drawers
- Storage cabinets
- Towel bar

PILOTHOUSE

- 110V outlet - GFCI protected
- Beverage holders (2) - recessed, integrated
- Carpet - beige, tufted cut pile, 65 oz., crush-resistant, 100% nylon
- Circuit breakers - for helm controls

- Helm seat - Flexsteel, UltraLeather, 6-way electrically adjustable
- Lights (4) - halogen, overhead, recessed
- Lounge - U-shaped, chamois 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
- Telephone connector
- Windshield defoggers (3)
- Windshield wipers (3) - each with fresh water washer

COMPANIONWAY TO STATEROOM LEVEL

- Alcove - two-shelf, mirror-backed, with overhead, recessed light
- Carpet - beige, tufted cut pile, 65 oz., crush-resistant, 100% nylon
- Hand rail - 38" stainless steel, on stairway
- Lights (3) - courtesy, recessed
- Light - halogen, overhead, recessed
- Rocker light switches
- Walk-in closet - hanging bar, recessed shelves
- Storage - accessed through walk-in closet

MASTER STATEROOM

- 110V outlets (2) - GFCI protected
- Bedside endtables (2) - solid surface tops
- Berth - queen, inner-spring mattress, island
- Carpet - beige, tufted cut pile, 65 oz., crush-resistant, 100% nylon
- Designer décor
- Entrance door - pocket-style, secures open and closed, stainless steel hardware
- Hanging locker - cedar-lined, 20" hanging bar, automatic light
- Hanging locker - 23" hanging bar
- Hardware highlights - brass/chrome
- Lights (2) - reading, recessed
- Lights (5) - halogen, overhead, recessed
- Miniblinds - décor-matched
- Mirror over berth
- Portlights (2) - screened
- Rocker light switches
- Storage - beneath berth
- Storage cabinets (5)
- Storage drawers (4)
- Telephone connector

MASTER HEAD

- 110V outlet - GFCI protected
- Entrance door - secures closed, stainless steel hardware, cherry wood with frosted glass and modified Queen Ann grill
- Hardware highlights - brass/chrome
- Head fan
- Light - halogen, overhead, recessed
- Medicine cabinets (3) - mirrored, 3 shelves

- Mirrored ceiling
- Rocker light switches
- Soap dish - wall-mounted, solid glass
- Toilet - electric flush, pedestal
- Toilet paper holder
- Towel bars (2) - 18" and 8"
- Vanity - solid surface top, 2 shelves below with 2 doors

Shower Stall

- Bench seat - integral
- Entrance door - clear glass, secures closed
- Light - overhead, recessed
- Portlight - screened
- Shower head - adjustable height, detachable for use as handshower
- Towel bar - 36"

GUEST STATEROOM

- 110V outlets (2) - GFCI protected
- Berth - oversized queen, island
- Carpet - beige, tufted cut pile, 65 oz., crush-resistant, 100% nylon
- Designer curtains - décor-matched
- Designer décor
- Entrance door - secures open and closed, stainless steel hardware
- Hanging locker - cedar-lined, 27" hanging bar, 2 shelves, automatic light
- Hardware highlights - brass/chrome
- Lights (2) - directable reading, recessed
- Lights (8) - halogen, overhead, recessed
- Mirrored headboard
- Overhead hatch - circular, 20.5" diameter, lockable, inside screen, over berth
- Portlights (2) - screened
- Rocker light switches
- Step-up on each side of berth - carpeted
- Storage - beneath berth
- Telephone connector

GUEST HEAD

- Entrance doors (2) - one to guest stateroom and one to companionway, secure closed, stainless steel hardware
- Hardware highlights - brass/chrome
- Head fan
- Lights (2) - halogen, overhead, recessed
- Lights (2) - halogen, over vanity, recessed
- Medicine cabinet - 2 mirrored doors, 1 shelf
- Mirrored ceiling
- Portlight - screened
- Rocker light switches
- Toilet - electric flush, pedestal
- Toilet paper holder
- Towel bar - 18"
- Vanity - solid surface top, backsplash and integral shelf; integral sink; 1 shelf below with 1 door; sink spigot detachable for use as a handshower

4 5 0 V O Y A G E R P I L O T H O U S E

OWNER PREFERENCE ITEMS

PROPULSION

Diesel Engines

- Cummins 370B
- Cummins 450C
- Volvo TAMD 63P
- Volvo TAMD 74P EDC with synchronizer

MECHANICAL

- Bow thruster
- Engine oil change system
- Synchronizer for Cummins 370B or 450C, or Volvo TAMD 63P engines

ELECTRICAL

- Adaptor - 50 amp, includes 50 ft. of shore power cord
- Cablemaster for shore power

Generator

- Onan 9.0 kW (not available with air conditioning)
- Onan 13.5 kW (required with air conditioning)
- Kohler 15.5 kW (required with air conditioning)

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
- 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 WVC Lo Profile windlass with 44 lb. delta anchor and 200 ft. of 5/16" chain
- Portable fire extinguisher
- Powered helm chair
- Transom docking lights
- Video monitor system

Davit

- Single function
- 3-function telescopic

Electronics Package for Pilothouse

- Ordered with Autopilot
- Ordered without Autopilot

Spare Propellers and Shaft

- For Cummins 370B or 450C, or Volvo TAMD 63P
- For Volvo TAMD 74P EDC (high-performance propellers)

EXTERIOR AMENITIES

- "Prestige" bimini top
- Bridge and cockpit carpet
- Bridge cover
- Bridge stereo - AM/FM receiver, CD player and changer, remote control, and 4 speakers
- Door - at top of aft bridge extension stairway
- Sunpad - aft bridge extension, with safety rail (not available with davit)
- Sunpad - foredeck

Canvas Color

- Black Sunbrella
- White Sunbrella
- Captain's navy
- Toast

Bridge Wet Bar

- With icemaker
- With refrigerator

CABIN AMENITIES - SALON

- Air conditioning (49,000 BTU) with reverse cycle heat, dual shore power connectors (minimum 13.5 kW generator required)

- Carpet - designer beige
- Central vacuum system
- Coordinated UltraLeather color
- Intercom system - 4 stations
- Maple wood interior with high gloss finish
- Neutral countertops in lieu of coordinated color
- Pillow set - decorator, 6-piece
- Sofa - Flexsteel, UltraLeather, with tri-fold stowaway bed
- Stereo - standard + surround sound system

Décor

- Pacific Sky (includes coordinated countertops)
- Emerald Seafoam (includes coordinated countertops)
- Sandstone Sculptures (includes coordinated countertops)
- Designer Ruby Red (includes coordinated countertops)

CABIN AMENITIES - GALLEY

- 2-Burner electric stove with ceran top
- Dishwasher - large capacity (not available with trash compactor)
- Trash compactor (not available with dishwasher)

CABIN AMENITIES - FORWARD

- Stereo - in master stateroom
- TV - 13", in master stateroom
- TV/VCR - 13", in guest stateroom
- Washer/dryer - stacked

MISCELLANEOUS

- Loading charge
- Shipping cradle
- Shrink wrap

CARVER
YACHTS

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