



The Florida State University Coastal & Marine Laboratory



R/V APALACHEE

SHIPBUILDER
GEO SHIPYARD NEW IBERIA LA

Main Propulsion System

Engines - (2) John Deere, model 6135 SFM-2, 13-liter inline 6-cylinder 500 HP
Gears - Twin Disc Model MGX-5114 SC, 2.5 4:1, EC300 controls at 2 stations

Electrical System

(2) Northern Lights 30kW @ 1800rpm, 60HZ, 120-208, 3 phase, w/AVR. 12 volt electrical system
Shore Power 240 volt, 1/0, 4 wire, 60 HZ w/50 amp shore power receptacle w/ shore power cable

Navigation

Compass - Ritchie
Autopilot - Furuno NAVPILOT 500
Depth Sounder - Furuno FCV1150 stand-alone unit with Airmar Transducer (1)
Navnet - Furuno 3D System (w/ MFD12, DRS6A, BBWGPS) (1)
Repeater display for dry lab, Furuno MFD12 (1)
Twin Disc Electronic EC300 controls (2 station) - 0.5 kt low speed for towing ROV etc.
Lights, Navigational (USCG standards) - Full compliment
Lights, Search - Carlisle & Finch (2) 10", 120-volt A/C

Communications

Radios - VHF Furuno FM 4000 with antennas (2)
Weather satellite - Furuno BBWX2 Sirius (1)
Radio transmitter - Furuno Single Sideband FS 1503 EM with antenna (1) - long distance communication,
HF Email Service Worldwide Network

Accommodations

Berths - 7
Galley in main cabin w/ refrigerator / freezer (1), sink, microwave, small stove top; storage cabinets;
settee upholstered seating (U shape) w/storage and dinette table; multiple outlets to serve as work station
when required.
Head, full - Main cabin; stainless sink, cold & hot water faucet, small vanity, fiberglass shower, toilet
Head, wet - Aft deck stainless sink, toilet

Work Area

Wet Laboratory - 200 sq. ft w/ aluminum table, stainless steel sinks (2) across aft wall of main deck cabin,
one w/ fresh water and one w/ sea water; duplex electrical outlets (8)
Dry lab - 200 sq. ft w/ laminate-top desk, chairs, duplex surge-protected electrical outlets, unistrut rack system,
and Navnet repeater display
Aft Deck - 780 sq. ft. with 40 x 1 in. bolt downs primarily on 2-ft and 4-ft centers
Dive platform - Swim platforms & ladders, hinged to fold up against transom

Special Equipment

A-frame (aluminum) - 3000# towing pull, specification w/ hydraulic cylinders (2) mounted to aft deck at stern
w/ ladder rungs & flood light
Swing Davit Arm (aluminum) - 500lb lift (1)
Knuckle-Boom crane (2-ton) - Hydro Pro T-055M, max reach 20' (1)
Winch - McElroy/ Catchot Model 401E (1)
Outriggers - 15' long, port & starboard hinged w/ secure capability in both deployed and stowed positions
Dive Air System - 7 cfm 5000psi fully automatic, mounted on four DOT 440 4500psi cylinders, with control panel
and two fill whips
Compressor - Campbell Hausfeld mounted on 20- gallon tank, belt driven w/ 2-HP 115-volt A/C electric motor.
Tender vessel - 14' Zodiac, 25 hp outboard

Ships Systems

HVAC System - Cruise Air self-contained heat pump units: 25,000 BTU unit in the Pilot House (1),
36,000 BTU unit in the main cabin (1), 17,300 BTU unit(1) in the two lab areas
Potable water system - 120- volt, Monark pump, 8.5- gallon pressure tank and plumbing,
350-gallon Poly fresh water tank w/ vent, 30-gallon hot water heater
Seawater system - 2-HP wash down pump system, single 1-1/2" fire hose from this pump on aft deckhouse bulkhead
w/ hose bibs & faucet in wet lab sink
Aqua Whisper DX 450 GPD water maker w/ multi-media filter & 2-gpm UV Sterilizer

