

M/V BROOKS McCall
GENERAL SPECIFICATIONS

Official Number:

General

Shipyard: C&G Marine, Mobile, AL
Hull #: 44
ABS Load Line
USCG 46 CFR Subchapter U - Oceanographic Research Vessel
Year Built: 1999

Dimensions

Length: (overall)	162'-0"
Length: (waterline)	150'-0"
Beam:	40'-0"
Load Draft:	10'-0"
Light Draft:	8'-0"
Open Deck:	50'-0"x 40'-0" (LxW)
Covered Deck:	12'-0"x 24'-0"x 9'-0" (LxWxH)
Deck Gates (2):	10'4" wide - 1P/1S
Open Stern Width:	31'-0"
Stern Ramp:	8'-0"
Moon Pool (2):	3'-6"x 3'-6" - 1P/1S
Mn Dk Surveyors Workshop:	22'-0"x 13'-0" x 9'-0" (LxWxH) w/ Double Cargo Doors 4'-6" x 5'- (temperature controlled)
Upper Deck Survey Lab:	32'-0"x 28'-0" (LxW) w/ Head & A/
Upper Survey Deck:	26'-0"x 39'0" (LxW)

Auxiliary Survey Machinery

Below Mn Dk: 32'-0"x 26'-0" (LxW)
w/ Cargo Hatch 9'x 11'

Below Mn Dk Machinery Space

Auxiliary Keel Cooling System for Survey Equip.

Transducer Well

(2) Auxiliary 26 Gallon Per Minute Hydraulic Pumps

A-Frame

Specifications

Construction:	Steel
Gross Tons:	Below 300
Total HP:	2100
Speed:	12 Knots

Propulsion & Steering

(3) Main Engines V16-92 Detroit Diesel @ 700 HP ea.
w/ Twin Disc 5202 Reverse Reduction Gears Ratio 5:1

All Engines are mounted on Lo-Rez vibration isolators.

Propellers: (3) 5 blade, bronze

Rudders: (3) One at each propeller

Steering: Hydraulic, on deck, w/ 2 rams

ELECTRICAL PLANT

(2) 250kw Detroit Diesel gensets in Engine Room	440/3ph 60hz
(1) 75kw Detroit Diesel genset on main deck	440/3ph 60hz

The 75kw genset is set up to provide clean power to survey deck.

All Generators are mounted on Lo-Rez vibration isolators.

Tankage

Fuel Oil:	54,400 gal. (approx)
Hydraulic Oil:	2,600 gal. (approx)
Lube Oil:	2,600 gal. (approx)
Dirty Oil:	2,600 gal. (approx)
Potable Water:	5,400 gal. (approx)
Ballast:	83,400 gal. (approx)
Waste:	2,180 gal. (approx)

Accommodations

1 Client's Office w/ Head & Desk
32 Berths, 16 Staterooms w/ Desks & Lockers, Innerspring Mattresses
8 Toilets, 6 Complete Heads
2 Laundry Rooms with washer & dryers
1 Galley, Walk-In Freezer/Ref., Dishwasher, Trash Compactor
17'-0"x11'-0" Lounge
Cooks Quarters near Galley
Mess area with seating for 23

Service counter in Mess Area with coffee/milk/soft drinks
Steam table at Galley counter for food service
5 TV/VCR Units throughout vessel
Video Monitor System
Intercom System throughout vessel
Telephone System

AIR CONDITIONING / HEATING

(2) – 5 Ton Units
(2) – 7.5 Ton Units
(1) – 4 Ton Unit

A/C Units are Cross-connected,

2 Water Heaters – 50 Gallons ea.

Bridge Equipment is designed to handle Positioning System

FUEL CONSUMPTION

250 KW generator – 20.4 gallons per hour
75kw generator – 10.2 gallons per hour

16-92 main engine: (each)
1500 rpm – 21 gallons per hour
1600 rpm – 25 gallons per hour
1700 rpm – 30 gallons per hour
1800 rpm – 35 gallons per hour

Total GPH at Full speed: 135.6 gallons per hour (see note 1)
Total GPH at Cruise speed: 105.59 gallons per hour (see note 1)
Total GPH at Survey speed: 60.59 gallons per hour (see note 2)

Notes to fuel consumption:

- 1) Figure includes all three main engines, one 250kw genset and the 75kw genset.
- 2) Figure includes one main engine, one 250kw genset and the 75kw genset.