

TWR-841

Length, 120'
Beam, 25'
Draft, 12' (to clear transducer)
MFG: Marinette Marine Corp.
Built: October 1986
Gross regulatory tonnage 248
Length, design load waterline 111'-0"
Fresh water capacity (approx.) 5200 gallons
Fuel oil capacity (approx.) 8000 gallons
Maximum speed (calculated) 12 knots
Fuel consumption approx. 50 GPH @ 10 knots
Maximum height (approx.) 42'
Minimum speed 4.0 knots

Machinery

Main engines: Twin Caterpillar D3512, 2350 BHP @ 1600 rpm
Hydraulic Transmission: 10 : 1 RA, Caterpillar MDL# 7241

Equipment

Stern U-frame: Contractor fabricated, 5,000 lb. capacity. Will coordinate with SEA-MAC winch. Drum capacity: 5000' of 1/2" wire: Full drum line pull: 5000 lbs. Dimensions - 16 high x 7 wide, 9' over stern.

Deck Crane: Appleton 4000 lb knuckle-boom, self contained 25 HP electro-hydraulic power pack and controls. 24 foot reach, 4000 lbs. at all angles.

Torpedo recovery winch and transfer carriage, (3000 lb)

Pinger Pole: Allows heavy transducers to be deployed over the side.

Capstan: Ideal Windlass, MDL # AB-5, 3,800 lb. pull @ 30fpm on starboard stern.

SBE 19 Plus Seacat CTD Profiler: SBE 19plus deployable unit, laptop, and over the side winch. Sensors for direct measurement of Conductivity, Temperature and Pressure. The maximum depth of 100 meters can be increased with a pressure sensor option.

Portable Van: 7' W x 11' L x 7' H - Electronics rack, 220 VAC, A/C and Heater, Lights and Tables

Communications

2 VHF Marine, VHF NUWCNET
UHF, RT – 980A/GRC-171(V)
WQC-2/C-7440A Underwater Telephone
HF SSB, ICOM IC-M810

MARINESAT satellite Telephone
Cellular Phone

Electrical Power

Two Diesel generator sets, Caterpillar D3304, each rated 80 KVA 440 VAC, three phase.
Van/Deck connections: 100 amp, 440 VAC, three phase receptacle; 50 amp, 208 VAC, three phase receptacle; 30 amp, 120 VAC receptacle.

Electronics

Furuno FR2011 Long Range Tracking Radar
Furuno FCV – 522 color video depth sounder (50/200k)
Furuno RDF-111 Short Range Radar
2 Northstar LORAN
1 Leica MX 400 DGPS
1 Magnavox MX4200 DGPS
1 Magnavox MX-50R DGPS
PC - Visual Navigation Suite
GYRO, MK 27 MOD 1, with NEMA 0183 output

Science Capabilities

Science mission payload is approximately 17 tons (12 Heavyweight torpedoes)
Science vans up to 20' in length can be accommodated
Capacity: 10 passengers + 8 crew
Reconfigurable transducer/equipment mounts; seawater profiler (see SEACAT under EQUIPMENT above)
Interior of vessel is air conditioned / heated
Work deck area – Overall 51 x 25 feet; torpedo rollers are replaced with fiberglass grating to provide for clear deck OPS, when required.
Service boat: Zodiac – 8 ft. length/6 HP-OB, or larger RHIB or Whaler.

