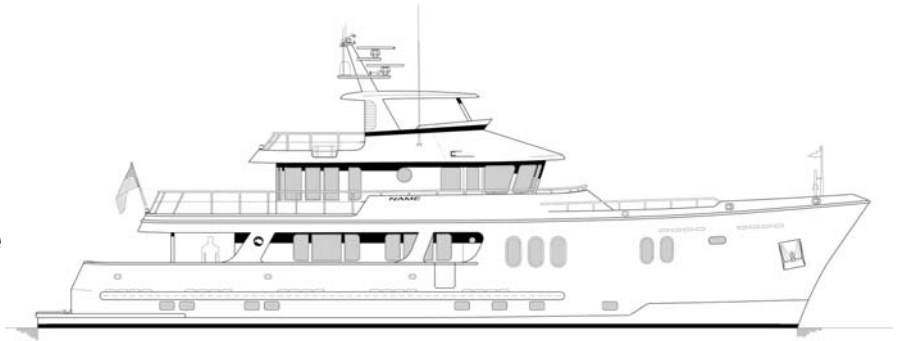




**Northwest 90
Displacement Hull
Steel Hull – FRP House**

Designer: Steve Seaton



Northwest Yachts are designed to put you in charge of your journey. The NW90 is a state-of-the-art vessel engineered to thrive in the demanding environment of oceans anywhere. With cutting edge construction methods, an extensive list of standard features, these modern trawlers provide the serious cruiser with a self-sufficient and comfortable cruising lifestyle. If you're ready to alter course and find some adventure, please feel free to call for more information.

Specifications

Dimensions

LOA.....	90' 0"	(27.43 M)
LWL.....	75' 11"	(22.86 M)
Navigation beam.....	24' 9"	(7.31 M)
Draft	8' 3"	(2.43 M)
Displacement (half load)	348,600 lbs	(158.12 MT)
Bridge clearance (mast up)	32' 7"	(9.75 M)

Propulsion (twin engine):

Make:	John Deere	Model:	6135AFM75
Horsepower:	600hp ea.	Cruise Speed:	9.2 knots
Max Speed:	11.6 knots	Est. Max Range*:	3,860 nm

Tankage:

Fuel:	7,650 US Gal (28,958.40 L)	Water:	1,270 US Gal (4,807.47 L)
Black Water:	400 US Gal (1,514.16 L)	Gray Water:	400 US Gal (1,514.16 L)

*Range with reserves and genset(s) running

Construction

- Hull to be constructed in steel as per NWY General Specifications for Steel Hull/ FRP Superstructure Boats
- Superstructure to be constructed in FRP as per NWY General Specifications for Steel Hull/ FRP Superstructure Boats
- Hull and superstructure colors TBD and painted as per NWY General Specifications for Steel Hull/ FRP Superstructure Boats Construction
- International anti-fouling paint, black color

Engine Room

- Twin John Deere 6135AFM75 600bhp each (total 1200hp)
- Twin Disc MGX-5170 DC transmissions 4.5:1 ratio
- Aqualoy® 22HS, propeller shafts
- 4 blade Nibral propellers 52" (pitch tbd)
- Engine exhaust risers with insulation
- Work bench with sink
- 120VAC fluorescent lighting and 24VDC dome light
- Non-skid floor
- S/S engines beds and insulation isolation mounts

Construction

- Trac® 370 16X active fin, hydraulic stabilizers with STAR, 16sq. ft. fins
- Trac hydraulic bow thruster, 45 hp
- Keel of 3/4" plate steel
- Hull below waterline - 1/4" and 5/16" plate steel
- Hull above waterline - 1/4" plate steel
- Main deck - 1/4" plate steel (heavier in high stress areas)
- Superstructure - composite FRP construction, vacuum bagged and cored with Corecell®
- (3) watertight steel bulkheads of 3/16" steel plate
- Hull to be painted with Alexseal or Awlgrip LPU paint to owner's color choice
- Superstructure to be painted with Alexeal or Awlgrip in white or off white
- Exterior decks to be of painted non-skid

Aft Main Deck

- Port and starboard S/S hawse pipe (2)
- Mooring cleat (2)
- 120VAC outlet (1)

- Maxwell VC3500 24V vertical capstan winches for line handling (2)
- Courtesy light (4)
- Wet locker
- Storage cabinet with sink
- GalleyMate® Entertainer 2000 built-in BBQ

Swim Platform

- Transom shower hot & cold water
- Fresh and raw water wash down faucet
- Transom door with logo step plate
- Rub rail with S/S back
- Mooring cleat (2) one on each side of platform
- Re-boarding ladder under swim platform

Boat Deck, Flybridge, Portuguese Bridge & Foredeck

- Nautical Structures EZ-4400-KB 4400lb davit crane
- S/S 316 stanchions
- Fiberglass mast with 24VDC deck lighting
- Switlik Solas 6 MKII 6 man life raft (2)
- Lleboc Sierra Series 1 Helm Chairs (2)
- Instrument console with complete instrumentation
- Steering wheel, S/S
- Compass (1)
- S/S frame windshield with grab rail
- Waterproof speakers (2)
- Intercom (1)
- Settee with vinyl cushions and table
- 120VAC outlet (1)
- Courtesy lights (4)
- Nonskid deck surface, painted
- S/S mooring cleat (4)
- S/S hawse holes with roller (4)
- Chain locker with Freeman hatch
- S/S frame hatch (2)
- Fresh and raw water wash down faucet (2)
- Flag pole socket
- Teak flag pole 2ft length (1)
- Courtesy light (4)

- Maxwell VWC6000 hydraulic windlass w/ chain stopper and chain counter (2)
- Aritex Poole style anchor 150 Kg (330lb) (2)
- Anchor chain 5/8" HT x 800ft. (400' ea windlass)
- Storage lockers (2)
- Polished S/S anchor roller system sized for Rocna anchors (2)
- Portuguese bridge with access gate to forward deck

Side and Pilothouse Deck

- Cabinet storage
- Courtesy lights on stairs
- Side deck boarding door with logo step plate

Mechanical and Plumbing Equipment

- Trac® 370 16X active fin, hydraulic stabilizers with STAR, 16sq. ft. fins
- Trac® hydraulic bow thruster, 85 hp.
- Cruisair® tempered water air conditioning/heat system, with condensing units in engine room and cooling units in staterooms, saloon and pilothouse, 150,000 btu (capacity to be verified)
- Village Marine STW-800, 800gpd water maker system
- Racor® 75/1000MAX, dual fuel filter for each engine (2)
- Racor® 75/500MAX, dual fuel filter for generator
- Kobelt® power assisted steering system
- Seawater strainers (2)
- Manual bilge pump (1)
- Bronze thru-hull fittings
- Fresh water pressure system with Headhunter® Mach 5, 120VAC pump (2), Headhunter® XR124, 24VDC pump (2)
- Deck washdown sea water system with Headhunter® XRS 124, 24VDC pump (1)
- Headhunter® WTS-1500B, black tank sentry with high alarm and auto discharge
- Headhunter® tank sentry system for gray, fuel and water tanks
- Shore water connection
- Blower vented to the exterior for each shower room
- Sealand® macerator pump (2)
- Pe-Al-Pe pipe for fresh water system
- Fireboy® MA2-1500, auto extinguisher system
- Reverso® oil change system for engines, generators, and transmissions
- ZF Electronic engine controls (2 station)
- VDO® rudder indicators on wheelhouse and flybridge control station
- Electro guard® HD-SB, propeller shaft grounding wiper brush system

- Aqualoy® 22HS, rudder posts
- Gulf Coast FPS-240, fuel polishing system
- Garden hoses 75 feet (2)

Electrical Systems

- Northern Lights® M944W3, generators 30KW/120VAC/240VAC/60HZ with sound enclosures (2)
- Northern Lights® M843NW3 , generator 12KW/120VAC/240VAC/60HZ with sound enclosure (1 for night generator)
- Delta T engine room blowers (size and placement to be determined)
- Torid® MVS30 SS, water heater with heat exchanger, 30 US gals (2)
- Blue Seas AC and DC circuit control breaker panels
- Aqua Signal® Series 43 LED Navigation lights
- Buell®, Triplex air horn, solenoid and 24 volt compressor.
- Lifeline AGM battery 12V/225AH, (8) for ship's service
- Lifeline AGM battery 12V/225AH, (2) for engines
- Lifeline AGM battery 12V/225AH, (1) for generator and electronics
- Automatic bilge pump 24VDC (5) with automatic float switches, indicating lights and high bilge water alarm system
- Bonding system with zinc anodes (2) on transom
- Glendinning® cable master with 90ft, 100A cored (2) with remote controls
- Charles® 93-IXFMR12I-A, isolation transformer (2)
- Victron Quattro 24/8000/120 Inverter Charger
- Victron Phoenix 24V Charger
- Intercom (4) for flybridge, E/R, P/H and master stateroom
- Color-coded wiring system of tinned copper wire
- Emergency parallel switch for engines and house bank
- Intra Exalto Type 2 Wipers with windows washer system for all forward facing pilothouse windows
- Dimmer switches for all overhead lighting
- Vimar® outlets and switches
- Cantalupi® interior and exterior lighting
- Jabsco® 45900-0001, flood lights (2)
- Jabsco® 60010-2024 255SL, search light (1)

Electronics and Entertainment Equipment

- Owner specified, pre-wiring may be done at factory

Pilothouse

- Port and starboard side doors, Freeman 1510 Series Dutch swinging doors
- Front windows bedded glass, clear (12mm thick)
- Instrument console with complete instrumentation
- Overhead electronics panel
- S/S steering wheel
- Compass (1)
- Llebroc Nautilus Series 2 Helm Chair w/ footrests (3)
- Seat with cloth covered cushions, storage beneath and table (1)
- Amtico flooring
- 120VAC outlet (3)
- Radio room ample ventilation and electrical power

Saloon/Dining Area

- 120VAC or 24VDC lighting
- Starboard side fabric covered L shaped settee with table (1)
- Port side fabric covered settee with table (1)
- Free standing barrel chairs (owner supplied)
- Carpeted flooring with sound insulating pad under
- Entertainment cabinet
- Dining area table and chairs (owner supplied)
- Aft access doors, Freeman 1510 Series swinging Dutch door (2)
- Side windows of bedded glass (12mm)
- Aft windows- Freeman 1200 Series opening

Galley

- Broan model 15SS, trash compactor
- Sub Zero 700TCI, refrigerator/freezer, 120VAC
- Sub Zero 700BF, Freezer drawers, 120VAC
- Viking VGCC 30" Range
- Viking VWH 30" Ventilation hood
- Panasonic NNC994S S/S microwave/convection oven
- Insinkerator® Evolution Excel, garbage disposal under sink
- Franke GNX11028 Stainless steel sink
- Grohe Ladylux Café Single lever kitchen faucet
- Side windows over sink, Freeman 1200 Series opening (3)
- Amtico flooring
- Corian counter top

- 120VAC and 24VDC lighting
- 120VAC outlet (1)
- Floor and overhead cabinets of cherry, teak, or mahogany

Master Stateroom

- King sized berth with storage under
- Carpeted flooring with sound insulating pad under
- TV Cabinet with storage lockers
- Night table (2)
- Hanging lockers (2)
- Free standing barrel chairs (2 owner supplied)
- 120VAC or 24VDC lighting
- 120VAC outlet (3)
- Drawers

Master Head

- Medicine cabinet with mirror
- Headhunter fresh water flush toilet
- Amtico flooring
- Non skid shower room flooring
- 120VAC or 24VDC lighting
- 120VAC outlet (1)
- Corian® counter tops
- Corian Sinks with Grohe faucets (2)
- Tub shower with frameless glass shower door, Grohe shower fixtures
- Grohe towel racks and toilet paper holder

VIP Staterooms

- Queen berths with storage under
- Carpeted flooring with sound insulating pad under
- Hanging locker
- 120VAC or 24VDC lighting
- 120VAC outlet (3)
- Drawers

VIP Heads

- Medicine cabinets with mirrors
- Headhunter fresh water toilets
- Amtico flooring
- Portlights (1 each)
- Nonskid tub/shower room flooring
- 120VAC or 24VDC lighting
- 120VAC outlet (1)
- Corian® counter tops
- Corian Basins with faucets
- Tub showers with frameless glass shower door and Grohe fixtures
- Grohe towel racks and toilet paper holder

Crews Quarters

- Queen size berth with drawers under
- Carpet flooring with sound insulating pad under
- Hanging locker (1)
- 120VAC or 24VDC lighting
- 120VAC outlet (2)
- Drawers
- Mirror (1)

Crews Quarters Head

- Headhunter toilet
- Shower stall with glass door and fiberglass nonskid floor
- Amtico flooring
- Corian® counter top
- Corian® sink
- Grohe fixtures
- Vanity with mirror

Crews Quarters Galley/Dinette

- Vinyl covered L-shaped dinette with table
- Force 10 model 43234 two burner cooktop
- Sharp Microwave oven
- Corian® countertop and sink
- Grohe fixture

General Interior Finishes

- Cherry, mahogany, teak or selected cloth wall covering
- Teak, Cork or Oak floors in galley, hallways and pilothouse
- Carpeting with sound insulating pad in saloon and staterooms
- Fiberglass walls and ceilings in shower rooms
- Latex rubber mattress with pillow-top fabric
- Curtains
- Satin interior varnishing
- All wardrobes have lights and be well finished (cedar lined)

-- End of Specifications --

These preliminary specifications have been prepared to cover equipment and materials as accurately as possible. Specifications are continually under review and subject to change without notice.

Date: 3-24-12

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