

13 Jan 2024
Version #4 (WEF 60-004)

Fleming 60 - Pilothouse Motor Yacht

SPECIFICATIONS

General Description

LOA (hull):	62' 9" (19.1m)
LOA (including swim step and anchor platform):	66' 11" (20.4m)
LWL	56' 9" (17.3m)
Beam:	17' 6" (5.33m)
Draft:	5' (1.52m)
Air draft (to top of radar arch):	17' (5.18m)
Displacements	
Minimum Operating Condition:	88,000 Lbs. (40,000kg)
Loaded Condition:	105,600 Lbs. (48,000kg)
Main Engines:	
Transmission:	Twin MAN i6-800 (800 HP @ 2300 RPM)
Reduction Ratio:	Twin Disc MGX-5126A shift and troll valves
Engine Controls:	TD 2.50:1
Shaft System	
	Seatorque M4 Bolt on shaft system
Generator:	
	17Kw, 60Hz Onan eQD (European model 13.5Kw, 50Hz)
Stabilizers:	
	Humphree DC Electric with 10.7 Sq. Ft (1.0 Sq m) fins, including at-rest function
Bow Thruster:	
	SE250 15.5 HP (11.4 Kw)
Fuel Tanks:	
Water Tanks:	1,450 USG (5,488 Liters) in two tanks
Black Water Tank:	300 USG (1,135 Liters) in two tanks
	165 USG (625 Liters)
Monitoring System:	
	Fleming First Mate (FFM) / CZone

SPECIFICATIONS BY AREA OR GROUP

HULL

Solid laminate, commensurate for hull size, made in female mold.
Black Gel coated boot stripe
Vinylester resin used for outer laminations
Full-length stringers and athwartships frames laminated over foam
Simulated planking grooves
Gel coated finish above waterline
Five coats of epoxy barrier coat below waterline
Two coats of Black Pettit 1088 GA antifouling paint
Pettit Metal Etch Primer 6455/044 and Pettit Epoxy Primer 4700 and Pettit 1088GL Trinidad Antifoul used on underwater metals
Integrally molded guard with stainless steel rub strip
Keel extends below running gear
Keel space filled and sealed across top
FRP rudders with Aqualloy 22 Hi-strength stocks
CE-approved stainless steel portlights
Stainless steel keel shoe – 8 ft long (2.4m)
Recessed I-struts in shaft pockets

DECK AND SUPERSTRUCTURE CONSTRUCTION

All parts made from molds
Corecell Cored construction
Polynt gel coat “Fleming White”
Vinylester resin used for outer laminations

EXTERIOR

Stainless steel trim around roofs, on forward teak cap rail, and guard
Italian made exterior locks
Hella LED navigation and anchor lights in accordance with relevant regulations
Fixed transom wedge trim tab
Stainless steel Fleming & “F” Logo on port & stbd forward roof supports
Quickutter line cutters
Exterior seating with EZ-Dri foam, Sunbrella upholstery, and mesh backs for drainage
Groco serviceable exterior sea strainers

AFT DECK AREA

Covered, raised California deck with teak decking, molded seating, fixed satin varnished teak table with stainless-steel pedestal legs.
Cockpit with flush lazarette hatch with hinge, gaskets, locks & gutters with drains
Inward opening transom gate stbd side
FRP Swim step with duckboard, molded white non-skid surface. Stainless steel rub rail
Storage locker in step on swim step
Stainless steel telescopic swim ladder - can be deployed by swimmer
Wide teak coaming around cockpit
FRP skirt inboard of teak cap.
Engine-room air intakes behind skirt and inside bulwarks
Stainless steel ladder to flybridge with teak treads
Sliding doors to salon - FRP with glass windows & weather strips
Seadog style latches for doors
Hot & cold shower fittings recessed on transom, with quick release shower head and flexi hose
Saltwater 316 Stainless steel faucet
Fresh Water 316 Stainless steel faucet
Smartplug Shorepower inlet 220v, 50A, (European model 230v, 32A)
Overhead LED lights on dimmer (3)
LED rope lighting under coaming skirt.
Chocks at hull sides and transom.
Deck scuppers piped out at boot stripe
Flush hatch with stainless steel safety rail and steps down into engine room
316 grade stainless steel handrail across transom
Stainless steel chocks and two heavy duty cleats, on port and stbd sides
Stainless steel chocks and heavy-duty cleats on transom, port and stbd sides
CCTV pan/tilt/zoom camera

SIDE-DECKS

Teak decking
316 grade stainless steel handrails along house-side
Teak rail cap on bulwarks
Bulwark doors opening inboard with barrel bolts
Non-skid on top side of guard at boarding gates
Stainless steel overhead LED lights. Two per side.
Courtesy LED "F" logo lights at steps up to Portuguese deck
Stainless steel handrails at side deck steps
Stainless-steel grab rails over side deck bulwark gates port & stbd
Steps to Portuguese Bridge deck with teak treads
House side fixed windows with tinted, tempered glass and FRP frames
Galley window sliding with tinted, tempered glass and FRP frame

Three Hereschoff style stainless steel cleats/chocks per side recessed into bulwarks
Fuel fill fittings for both fuel tanks in recessed boxes on Port & Stbd house side
Two Stainless steel chocks and four heavy duty cleats on port and stbd sides

PILOT-HOUSE DECK LEVEL

Portuguese Bridge
Teak rail cap
Locker doors in aft face of Portuguese bridge, access to large vented storage with Dri-Deck flooring
316 grade stainless steel handrail around forward side of pilothouse
316 grade stainless steel handrails at side of pilothouse Port & Stbd
Sliding aluminum pilothouse doors port & stbd with weather seals in stainless steel channels
Teak decks
Hinged doors through Portuguese bridge to foredeck – port & stbd
Speich heavy duty self-parking wipers with speed control and screen wash
Clear, tempered 8mm glass, in forward facing windshields Pilothouse windows are fixed and have FRP frames
Inward opening doors on Portuguese Bridge side decks port & starboard
Stainless steel Fleming “F” logo’s on forward roof supports port & starboard
Black water tank suck-out deck fittings on port and stbd sides
Two stainless steel fender tie fittings on port and stbd sides
Galley cooktop and microwave vent

FOREPEAK

Chain locker with divider for port & stbd anchor chains
Stainless-steel chain pipes
Watertight collision bulkhead
Forepeak drains directly overboard.
Bitter end fittings
Hatch scuppers
High gloss poly paint finish
Overhead LED light
Forward Shorepower circuit breaker
FRP Vent
Dri-Deck flooring
Hinged sole boards

FWD DECK

Fleming white color non-skid deck
Cabin trunk with white non-skid finish. Drained and vented storage lockers. Hatch lids with gaskets
CE approved stainless steel hatch/skylight for forward cabin
Teak rail cap on bulwarks increasing in width going fwd
Stainless steel stanchions to support stainless steel handrail
Stainless steel oval handrail
Deep deck lockers either side of anchor platform with white non-skid finish on lids
FRP anchor platform with molded white non-skid finish and two sets of rollers
Two 24v DC Maxwell RC12, windlasses with pendant control, and control panels at both stations (P/H & F/B)
300ft (91m) length of 7/16" (12mm) Stainless-steel Grade 60 German chain
100Lbs (45kg) Stainless steel Ultra Anchor with stainless steel Ultra swivel Ultra chain hook with strop (for securing anchor when stowed)
Two stainless steel chocks and four heavy duty cleats on port and stbd sides
316 grade stainless steel pulpit. Welds ground and polished.
Foredeck LED "F" Logo courtesy lights at deck level
Hatch to forepeak
Smartplug Shorepower inlet for 240v, 60Hz, 50A, (European model 230v, 50 Hz, 32A)
Socket for Plug-in windlass control
Saltwater 316 stainless steel faucet inside foredeck lockers
Fresh water 316 stainless steel faucet inside foredeck lockers
Deck drains plumbed to boot-stripe to prevent black streaks
Teak burgee pole

FLYBRIDGE

Lexan venturi with stainless steel rail & base track
Steering console with engine and thruster controls
Stidd double helm seat with folding footrests, adjustable fore/aft position
Electronics console with black Formica panel
Color touchscreen for FFM monitoring system
Engine instrumentation
Ritchie Compass with light & dimmer
Hypro Electro/Hydraulic steering with destroyer-type stainless steel steering wheel
Fire system repeater alarm
Flybridge cushions on settees and helmseat using EZ-dri foam with Sunbrella upholstery and mesh backs for drainage
Perfix snaps for attaching cushions
L-Settee stbd side with high seat backs
Beige color non-skid deck

Satin teak table with Hi-lo and sliding stainless steel pedestal on stbd side
Straight settee port side with high seat backs
Hella LED navigation lights in accordance with relevant regulations
Kahlenberg D-330 Air horn with twin trumpets, P449-25 Compressor/reservoir, V-149K 24v Solenoid valve
Two Mastervolt 20-amp 24v to 12v DC-DC converters with 12v battery back-up system.
FRP Radar arch with LED overhead lights
Stainless steel railings with mid safety rail
Stainless Steel safety gate between flybridge and boat deck
CCTV pan/tilt/zoom camera
Dri-Deck flooring in storage areas and under seating
Humphree control panel for stabilizers
Stainless steel safety rail by sliding hatch
Low level courtesy LED lights with "F" logo

BOAT DECK

Extends aft to cover raised CA deck below
Integrally molded beige non-skid on deck
Integrated deck drains with gutter system
316 grade stainless steel handrails.
Removable mid-rail on port side for liferaft deployment
1,000 lbs. (450 kg) capacity Steelhead ES 1000 davit with powered telescopic boom, luffing, hoisting and rotation, with radio remote control
Hinged hatch to cockpit ladder
GFCI 120v AC outlet (European model 230v AC, outlet RCD protected)
Fresh Water faucet (316 Stainless steel)
Stainless steel saddles for tender cradle (supplied loose)
Aluminum plate inside deck for tender tie down at bow
Pre-wiring for aft facing 24v DC LED flood lights, aft end of boat deck Port & Stbd
Cabinet aft of port settee for storage or installation of optional appliances (BBQ, Fridge or Freezer)
Stainless steel flagpole holder on aft flybridge rail
Teak flagpole with internal stainless-steel reinforcement

LAZARETTE & CREW CABIN

Steering gear
Hypro Marine hydraulic power pack with primary, back-up, and autopilot steering pumps, on anti-vibration mounts with FRP drip tray
Deck and hatch scuppers
Hull finished with gloss white polyurethane paint
LED Overhead lights

320 gal (1,211 liters) Fresh Water tanks. 4 pcs polyethylene tanks located underneath berth to port and under machinery platform to stbd.
Single crew berth to port with storage locker
Self-Contained Air-conditioning for crew cabin
Crew Head, shower and sink in central compartment with ladder to cockpit hatch access
Access door to engine room with portlight
Dedicated machinery space to stbd with:
Aft shorepower inlet circuit breaker
Smoke Detector
Two Isolation transformers for shorepower
Automatic AC power controller
Dual 24v DC Gianneschi Fresh water pumps, pressure regulator, and flow sensor
Fresh water system (debris) filter
Fresh water tanks drain valve, with protective cover
Fresh water tanks isolation valves
Submersible bilge pump
High bilge alarm
Seacock & Arctic steel strainer for watermaker

ENGINE-ROOM

Stainless Steel overhead handrails
Bow thruster Main Switch panel and fuse
Seatorque M4 BOSS (Bolt on shaft system) - an enclosed, oil lubricated, self-contained shaft and thrust bearing assembly.
Hinged covers over Seatorque cardan shaft and universal joints
Fire retardant FRP fuel tanks (2).
Solenoid operated sight gages on fuel tanks
Equipment platforms
Humphree Stabilizer Servos & DC Circuit Breakers
Anti-vibration soft mounts for double mounted genset
240v, 17Kw, 60Hz (European model 230v, 13.5Kw, 50 Hz) Onan eQD genset with sound shield and combined muffler/water separator for exhaust
NIM module for genset – allows genset data to be displayed on FFM Monitoring System
Tru-Design composite seacocks for seawater inlets
Arctic Steel raw water strainers for engines, gensets, aircon, and all seawater intakes
Main engine exhaust system with exhaust chambers and by-pass on transom
Engine room heat extraction blowers (2)
Heavy duty sound insulation covered with perforated aluminum
Engine access hatches locked down on gaskets
Fire suppression system with automatic engines/genset/blowers' shutdown

Automatically closing fire dampers on air inlets and discharge vents
Heat detectors (3)
Smoke Detector
Bilges painted with gloss white polyurethane paint
Sole board covered with Lonseal vinyl.
Sole lifters stainless steel
Fresh water coiled hose
Submersible bilge pump
Sump pump
High bilge level sensor
Start/stop buttons for both engines
Lube oil pumps (2) for engines, transmissions and generator
DC LED lighting
120v GFCI electrical outlets (European model 230v AC, outlet RCD protected)
Kahlenberg Horn Compressor
24v 920 A/H Mastervolt Li-Ion house battery bank house battery bank
24v 255 A/H port engine/genset starting battery bank – 2 pcs Lifeline GBL-8DL
24v 255 A/H stbd engine/genset starting battery bank - 2 pcs Lifeline GBL-8DL
Drip pans underneath main engines
Lead foam sound insulation
Starboard platforms and sole boards
Airtight FRP door with dog down latch and viewing port
Air-conditioning compressors
Gianneschi 24v DC high capacity sea water pump
Two Delstar 200-amp heavy duty brushless aux alternators
Two Mastervolt Alpha Pro III alternator regulators with alternator temperature sensors
Two 24v Mastervolt 15-amp battery chargers, one for each engine/genset battery bank.
Two Mastervolt 4,000 watt inverters
Three 100-amp Mastervolt 24v Battery Chargers for house bank
Engine room Airconditioning 16,000 BTU

INTERIOR

Accommodation choices:

Standard Accommodation layout “**A**” - Three staterooms, two heads with central passageway, Washer & Dryer to stbd, stbd cabin with up/over berths, port cabin twin (or queen) and master cabin forward with queen berth. Access is from salon. (Dayhead is optional with this layout)

Or

Optional Accommodation layout “**B**” - Three staterooms, two heads with full beam master cabin midships, port cabin with upper & lower berths, washer & dryer access from lobby, and forward cabin with queen berth (or Vee-Berths). Access to accommodation is from the Pilothouse. Layout “B” also includes Dayhead in the Pilothouse.

Accommodation with three staterooms

Hanging lockers lined with teak

Insect screens for all opening windows, portlights and skylights

Mobella interior door locks

Cruisair reverse cycle air-conditioning with remote compressors

LED mood rope lighting behind valances, stairs and settees

LED overhead lighting throughout

Teak joinery with satin varnish hand-rubbed finish throughout

Teak and holly sole throughout – hand-laid solid timber (not plywood)

Light fixtures to have polished stainless steel finish

Interior locker door handles with polished stainless steel finish

Interior bulkheads feature sandwich construction with lead foam sound insulation

Headroom 6’ 6 ½” (2.0m) minimum throughout

Synthetic leather headliner - “Fleming White”

Interior bulkheads lower half teak, upper half Synthetic leather – “Fleming White”

AC outlets and light switches to be Vimar brand with graphite grey faceplates

All drawers constructed with dovetail joints

Cabin & Head doors with gaskets

Silestone countertops and shower stalls are available in the following colors:

Eternal Statuario

Eternal Calacatta Gold

Poblenou

Royal Reef

Blanco Maple

SALON

Fixed windows in house sides
Opening window in galley with removable insect screen
Sliding doors at aft end
Spring loaded barrel bolts to allow phantom screen installation
Medium grey tinted, tempered, glass.
Wood window blinds with teak retainers
Teak valance over windows with LED rope lighting
Overhead LED light fixtures on dimmers
Access hatches to allow for engine removal
Synthetic leather headliner - "Fleming White"
CO detector
Upholstered L-Settee
Fleming Hi-Lo oval table with teak top
FRP sandwich with honeycomb composite sole
Air-conditioning
Aft bar cabinet with icemaker
Sconce lights with shade
Entertainment center, teak cabinetry & lockers full length from galley refer to aft bulkhead, with powered TV lift
Vertical handrails at top of stairs to accommodation

GALLEY

Silestone countertops
Silestone splash back installed behind sink and cooktop
Undermount stainless-steel double sink
Insinkerator waste disposal
Stainless steel convection microwave oven with cooktop overboard vent
Three burner Miele induction cooktop
Removable stainless steel potholders for cooktop
20.5 cu ft side by side refrigerator/freezer
Swivel faucet with removable spray head
Overhead LED lighting
Slide out trash bins
Four Drawers with guides and stops
Overhead Cabinets
Air-conditioning
Duplex 120v AC GFCI outlets (European model 230v AC, outlet RCD protected)
Preparation for optional dishwasher – including AC power cables, circuit breaker, and fresh water feed with shut-off valve
Full height slide-out pantry stbd side
Slide-out storage drawer above cooktop
Teak slide-out deep storage drawers on aft arm of galley counter

Swing-out “Magic” corner storage unit in outboard corner
Storage cabinet under sink with automatic LED lighting

PILOTHOUSE

One Stidd 500XL low back helm seat with chrome package, footrest, drink holder, and black Ultraleather upholstery
Synthetic leather headliner – “Fleming White”
Chart table with double-guide drawers and stops
Chart light on flexible arm
Dismountable control console with space for owner supplied electronics
Fleming First Mate (FFM) Monitoring System 16” color display screen
Engine instrumentation
Dedicated space for Autopilot control
Humphree control panel for stabilizers
Horn control
Air reservoir for air horn
Twin Disc Electronic engine controls with synchronizer, Express and troll modes
Hypro electro-hydraulic steering system with Destroyer type steering wheel
Back-up Steering control panel with back-up rudder angle indicator
Ritchie Compass with light & dimmer (specify required hemisphere)
Overhead electronics console
Wiring routes to facilitate equipment installation
Overhead LED lighting with dimmer
LED red and white dimmable bridge lights in upper console
Stairs down to salon, up to flybridge
Back lit electrical & Battery Master Switch panel
Advisory panel
Doors on electrical and advisory panels
L-shaped settee on raised area
Wooden window blinds on port & stbd windows (3) with teak retainers
Teak table with single stainless steel leg and swivel
File drawer
Self-parking, heavy-duty wipers with multi-speed/intermittent controls & freshwater wash on forward-facing windows
Windshield glass, clear, tempered, 8 mm thick
Variable speed demister blower on forward facing windows
Control for bow thruster
Hinged access panel to underside of flybridge console
Cruisair reverse cycle air-conditioning
Black water tank level indication and pump control on FFM System with auto pump shut-off when tank empty, and auto head shut-off when tank full
Generator start/stop & digital control panel
Windlass up/down switches & control circuit breaker
Fire system control panel

Bilge pump control switches on advisory panel
Sconce lights with shade
In-Fill cushion for pilothouse berth
Smoke Detector inside pilothouse console
“Charcoal” suede fabric on upper surface of consoles
eFit iPad storage and charging socket in overhead console

ACCOMMODATION

PASSAGE

Lower part of bulkhead finished with teak, upper part finished with synthetic leather “Fleming White”, teak chair-rail trim at join
Access doors to staterooms (option A)
LED Rope lights at stairs to accommodation
Overhead LED lighting
Manual bilge pump under steps
Stacked Bosch washer and Bosch drier in cabinet with louvered door
Synthetic leather headliner – Fleming White
Teak handrail above stairs to accommodation

FORWARD STATEROOM

CE approved stainless steel hatch with powered Oceanair sliding insect and black-out screens
Tapered queen-sized bed with electric lift and manual slide
Retainer device for sliding bed securing knob
Upholstered Headboard
Foam mattress
Teak lockers either side of bed
LED Rope lighting under bed and steps
Two hanging lockers. Teak faced with louvered doors. Automatic interior lights
TV space on bulkhead
Drawers with center guides and stops
Beveled-edge mirrors
Door stops and holders.
Doors with teak frame with flat teak panels
Synthetic leather headliner – “Fleming White”
Bulkheads with lower half teak and upper half synthetic leather – “Fleming White”
Teak valance over portlights
Formica inside portlight openings
LED Rope lighting and drape tracks at portlight openings
LED overhead lighting
Berth LED reading lights

CO detector
Smoke Detector
Drapes
Emergency Escape telescopic ladder stored in hanging locker
Cruisair reverse cycle air-conditioning
CCTV control

PORT HEAD (en Suite)

CE-approved Portlight with removable insect screen
FRP/PU shower stall with Silestone sole & seat and lockers
Stainless steel framed glass custom shower doors
Shower mixer, pressure and temperature compensated
Stainless steel toiletries rack inside shower locker
Silestone countertop with porcelain basin
Hans-Grohe Faucets
Beveled-edge European sourced mirrors
LED overhead lighting
120v AC GFCI outlet (European model 230v AC, outlet RCD protected)
Tecma toilet
Ventilator extraction fan
Stainless steel towel rails
Drapes
Air-Conditioning inlet from cabin
Lifting mirror above basin
Trident Premium Sanitation hose
Holding tank full indicator
Shower sump pump control and override switch

STBD GUEST CABIN (Accommodation Option A only)

Stainless steel CE-approved portlights with removable insect screens
Two up & over berths
Hanging locker with auto-light
Teak valance over portlights
Formica inside portlight openings
LED Rope lighting and drape tracks at portlight openings
Nightstand with drawers
120v AC outlet (European model 230v AC)
Foam mattresses
LED overhead lighting
Berth LED reading lights
LED Rope lighting and drape tracks at portlight openings.
Full height beveled-edge mirror

CO detector
Smoke Detector
Drapes
Cruisair reverse cycle air-conditioning
Synthetic leather headliner – “Fleming White”
Bulkheads with lower half teak and upper half synthetic leather – “Fleming White”

PORT STATEROOM

Stainless steel CE-approved portlights with removable insect screens
Twin berths, upper berth slides outboard when not in use
LED rope lights under berths
Full height beveled-edge mirror
Hanging locker with auto light and louvered door
Teak valance over portlights
Formica inside portlight openings
LED Rope lighting and drape tracks at portlight openings
Foam mattresses
120v AC outlets (European model 230v AC)
Upholstered Headboards
LED overhead lighting
Bookshelves
CO detector
Smoke Detector
Drapes
Berth LED reading lights
LED Rope lighting and drape tracks at portlight openings.
Cruisair reverse cycle air-conditioning
Synthetic leather headliner – “Fleming White”
Bulkheads with lower half teak and upper half synthetic leather – “Fleming White”

GUEST HEAD

CE-approved Portlight with removable insect screen
FRP/PU-lined shower stall with Silestone sole
Stainless steel framed glass custom shower doors
Lockers
Shower mixer pressure and temperature compensated
Silestone countertop with porcelain undermount basin
Hans-Grohe Faucet
Beveled-edge European sourced mirrors
LED overhead lighting
120v AC GFCI outlet (European model 230v AC, outlet RCD protected)
Stainless steel towel rails.

Tecma toilet, white color.
Ventilator fan
Drapes
Air-Conditioning inlet from cabin
Trident Premium Sanitation hose
Holding tank full indicator
Shower sump pump control and override switch

SYSTEMS

STEERING

Hypro Marine ECS Electronic Steering with electronic helm units at Pilothouse and Flybridge.
Hydraulic Power-pack with on-demand variable speed primary pump, 24v DC reversing back-up pump, and pre-plumbed 24v 1.5 LPM Autopilot pump in lazarette
Shielded power supply cables
Rudder angle indicators at pilothouse and flybridge station on FFM Monitoring System
Back-up steering control panel with dedicated rudder angle indicator in pilothouse.
Separate power supply and control for backup steering
Destroyer wheel at flybridge and in pilothouse
Pilothouse steering wheel has teak grips
FRP rudders with Aqualoy 22 stocks
Rudder tubes extend above waterline

ENGINE CONTROLS

Twin Disc EC600 electronic engine controls with Troll, Express, and Synchronizer modes, at pilothouse and flybridge.

MACHINERY

Twin MAN i6-800 HP Common Rail Engines
Twin Disc MGX-5126A "Quickshift" Marine transmissions with electric shift and troll valves
Stabilizers - Humphree DC Electric with 10.7 Sq. Ft (1.0 Sq m) fins, including at-rest function
Sidepower SE250 15.5 HP (11.4 Kw) bow thruster with Sidepower Main Switch unit and jog lever controls at Pilothouse and Flybridge station
4-blade (NSP) Nickel Aluminum bronze propellers

Recessed I-struts in shaft pockets
Rubber Design adjustable soft engine mounts
Underwater exhaust and internal water-lock muffler system
Seatorque M4 BOSS (Bolt on Shaft System)
Fleming First Mate (FFM) central monitoring system with 16" color touch-screens in Pilothouse and Flybridge

FUEL SYSTEM

Fuel filters. Racor 75/1000MAX Duplex filters with change-over valve, and Dent vacuum gauges for main engines, drip pans under filters
MAN Primary fuel filters with water-in-fuel sensors for main engines
Racor 500MA fuel filter for generator
Two FRP fuel tanks made of vinylester and fire-retardant resins and with a fireproof exterior coating
Total fuel capacity 1,450 USG (5,489 Liters)
Sight glasses on both fuel tanks with solenoid operated (push button) safety valves
Fuel tank sumps and drains with shut-off valves on all tanks
Fuel management panel for engine/genset supply return selection
Remote emergency fuel shut-off device for both tanks
Electric fuel priming pumps for both main engines
Pressure type fuel tank level sensors connected to FFM System

PLUMBING

SANITARY

Tecma toilets, white color.
Toilets flush to FRP holding tank with level indicator
Toilet flushing with Seawater or Freshwater.
Anti-odor filters on holding tank vents Port & Starboard
165 USG (625 Liters) Black water tank
Tank level indicator and pump control on FFM Monitoring System
Plastic lined pressure accumulator tank
Black water tank suction deck fittings port and stbd side
Black water tank seawater flushing system, with self closing safety valve
Gianneschi heavy duty 24v black water discharge pump
Sealand T24 backup black water discharge pump
Black water discharge seacocks with position indication – prevents discharge pumps running if valves are closed

FRESH WATER SYSTEM

320 USG (1,211 Liters) total in four polyethylene tanks, with drain and isolation valves.

Sight glasses on water tanks

Dual 24v DC Gianneschi Fresh water pumps, inlet filter & flow sensor

20 USG (75 Liters) Torrid water heater with 240v AC heating element and heat exchanger coil, drain & pressure release valves.

Heat exchanger system and circulation pump for heating domestic water from port main engine via heat exchanger, circulation pump runs automatically when engine is running

Fresh Water 316 Stainless-steel faucet on foredeck, flybridge and cockpit Fresh Hans-Grohe interior faucets

Whale brand plumbing

Fresh water coil hose in engine room

Pressure type level sensor connected to FFM monitoring system

Thermal expansion tank

GREY WATER SYSTEM

Head basins and showers drain into two Johnson grey water sump/pump collector boxes and automatically discharge overboard

Grey water sump pump control switch with override function

SEA WATER SYSTEM

Gianneschi 24v DC seawater pump and strainer

Saltwater 316 Stainless-steel faucet on foredeck, and cockpit

Sea water flush line connected to black water tank, with self closing safety valve

Whale brand plumbing

Arctic steel intake strainers for main engines, generator and sea water system

Sea water pump auto shut-off safety function

BILGE SYSTEM

3 pcs 3,700 GPH Rule electric bilge pumps with auto/man control

Manual bilge pump for engine room bilge compartment

High level bilge alarm switches in lazarette, engine room, and forward bilge using

USS type bilge pump/high level alarm float switches (3) connected to FFM

Monitoring System

Bilge counter on FFM records number of times bilge pump runs

Forward bilge sump pump – Whale Gulper

Engine room bilge sump pump – Whale Gulper

ELECTRICAL

ELECTRICAL – AC

240v, 17Kw, 60Hz Onan eQD generator, single phase, in sound shield, double mounted on anti-vibration soft mounts, with NIM module (European model 230v, 13.5Kw, 50Hz)

Remote distribution panels.

Dedicated inverter compliant AC panel

Remote controlled and monitored circuit breakers

Digital meters (volts, amps, watts and frequency) and circuit breakers as required

Two 240v, 50-amp shore inlets one forward and one aft connected so as both can be used simultaneously (European model has two 230v, 50Hz, 32A inlets)

Two Isolation & voltage boosting transformers for shorepower

Automatic AC power controller for shorepower/genset

AC & USB outlets throughout boat. GFCI type in heads, galley, engine room and exterior

Vimar AC outlets with Graphite Grey Silk Faceplates

Two 4,000-watt pure sine wave Mastervolt inverters

Inverter bypass system

Mastervolt remote control panel in pilothouse.

Approved Marine Grade Tinned copper wire

Hinged panels for serviceability

ELECTRICAL – DC

Main ships system 24v DC.

Three isolated 24v battery banks

24v 920 A/H Mastervolt Li-Ion (LiFePO4) house battery bank house battery bank

24v 255 A/H port engine/genset starting battery bank – 2 pcs Lifeline GBL-8DL

24v 255 A/H stbd engine/genset starting battery bank - 2 pcs Lifeline GBL-8DL

12v 105 A/H Backup battery – Lifeline GPL-31T

12v DC provided via two 24v-12v DC-DC, 20 amp, converters & back-up battery system located on flybridge

DC-DC Converter and auto transfer device for back-up power to Hot DC Bus

Remote controlled Battery master switches operable from Pilothouse, also allows paralleling of engine battery banks

Two 24v Mastervolt 15-amp battery chargers, one for each engine/genset battery bank.

Three 24v Mastervolt 100-amp Battery Chargers for house bank

Engine/genset battery banks also charged by MAN engines original alternators

DC load distribution panels with remote circuit breakers, sub panels as required

Mastervolt display & FFM shows voltage, state of charge and current flow in & out of house battery bank

Two Delstar 200 amp, 24v heavy duty, brushless, auxiliary alternators

Two Mastervolt Alpha Pro external alternator regulators with alternator temperature sensors
Approved Marine Grade Tinned copper wire
Hinged panel for serviceability
Vimar light switches with Graphite Grey Faceplates
LED lighting and dimmers

ELECTRICAL – BONDING

Copper strap and buss bars or cable connecting all thru-hulls, underwater fittings, pulpit and flybridge rails – (equipotential bonding system)
Zincs on transom (2)
Copper strapping system in engine room, flybridge and pilothouse for SSB radio counterpoise

FLEMING FIRST MATE - MONITORING SYSTEM (FFM)

16" color touchscreen located in Pilothouse
16" color touchscreen located on Flybridge
5" color touchscreen in Master Cabin
Digital switching of AC & DC loads, with feedback and status monitoring

Fleming First Mate mobile phone App receives alarm system push notifications and provides remote control of specific digital switching circuits. Vessel position and N2k data can be viewed remotely.

System monitors/displays the following parameters:

Navigation lights control
Bilge pumps & counter
Sump pumps
High bilge level alarms
Fire system – Cylinder pressure
Heat detectors
Smoke detectors
Black water tank level and control of discharge pump
Status of black water discharge seacocks
Fuel Tank levels using pressure type sensors
Water tanks level using pressure type sensor
Port and Stbd engine room air intake shutters
Port and Stbd Seatorque shaft oil temperature
Engine room, sea water & exterior ambient air temperature
Fresh water system pressure
Fresh water system flow

Seawater system pressure
Seawater system flow
Engine room blowers
Engine room door
Lazarette hatch
Cablemaster (in/out)
Passarelle (in/out)
Engine room lights
Steering pump
Back-up steering pump
DC voltage (24v and 12v battery banks)
Fwd & aft Shorepower voltage, frequency and current draw
Inverter voltage, frequency and current draw
Genset/s voltage, frequency and current draw

MISCELLANEOUS OUTFIT

eFIT – (Electronic Fleming Information Tablet) all technical documentation is supplied on an Apple iPad including, a comprehensive Owner’s Manual with system descriptions, schematics, wiring diagrams, product manuals and equipment list. An iPad storage slot and charging device is provided in the pilothouse overhead console.

Propsmith – All new Fleming’s are equipped with a Propsmith tool which can be used for simple, trouble-free installation and removal of the propellers. The PropSmith is both a prop puller and a prop pusher, with no risk of damage to the prop.

Cruisaire reverse cycle air-conditioning throughout using REU model quiet blowers and Qht controls
Trudesign composite seacocks on all through hulls at or below waterline
Groco seacocks for main engine seawater inlets
Sika-Flex deck Caulking
5/8” thick teak deck
Pre wiring with coax, CAT 5 and speaker cables throughout – two of each cable run from every cabin to TV cabinet and from P/H to TV Cabinet, and from F/B to TV cabinet (4 coax)

CONSTRUCTION STANDARDS

All Fleming Yachts are built to comply with the appropriate marine and environmental regulations for the area in which the yacht is delivered

USA - NMMA Certified Manufacturer fully complying with: ABYC, USCG and EPA regulations.

European - Built to CE-RCD Category "A" Ocean Standard using the relevant ISO standards.

Australia - Australian Standard 1799.1-2009

Canada - Transport Canada TP1332E 04/2010

MANAGEMENT & ENVIRONMENT

Fleming Yachts Construction (HK) Ltd management and environmental systems have met and been approved by ISO 9001:2008 Quality Management Systems and ISO 14001:2004 Environmental Management Standards.

AFTERWORD

The question most manufacturers ask themselves when considering a new feature is whether it is necessary to include it in order to sell the boat. In the case of the Fleming, we ask only whether its inclusion will make the boat safer, better or more convenient. That is why we have introduced literally hundreds of refinements since we started construction in 1985 and why we continue the process today.

For that reason, Fleming Yachts reserves the right to make changes to specifications and equipment without notice.