

3 Jan 2024
Version #74 (WEF 65-069)

Fleming 65 - Pilothouse Motor Yacht

SPECIFICATIONS

General Description

LOA (hull):	67' 4" (20.5m)
LOA (including swim step and anchor platform):	70' 10" (21.6m)
LWL:	61' 11" (18.9m)
Beam:	18' 8" (5.7m)
Draft:	5' (1.52m)
Air draft (to top of radar arch):	17' 11" (5.46m)

Displacements

Minimum Operating Condition:	102,698 Lbs. (46,583kg)
Loaded Condition:	124,663 Lbs. (56,546kg)

Main Engines:	Twin MAN i6-800 (800 HP @ 2300 RPM)
Transmissions:	Twin Disc MGX-5126A
Reduction Ratio:	2.50:1
PTO's	Clutched C-Pad on both transmissions
Engine Controls:	Twin Disc EC600

Shafts:	Aqualloy 22 Hi-strength
Driveline:	Aquadrive CV48

Generator:	Onan eQD 21.5Kw, 220v, 60 Hz (European model 17.5Kw, 230v, 50Hz)
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Stabilizers:	Humphree DC Electric with 10.7 Sq. Ft (1.0 Sq m) fins, including at-rest function
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Bow Thruster:	Twin Disc 65 HP Hydraulic
Stern Thruster:	Twin Disc 65 HP Hydraulic

Fuel Tanks:	1,700 US gals (6,435 Liters) in four tanks
Water Tanks	400 US gals (1,514 Liters) in four tanks
Black Water Tank:	330 USG (1,249 Liters)

Monitoring System:	Fleming First Mate (FFM) / CZone
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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
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 Aqualoy 22 Hi-strength stocks
CE-approved Stainless-steel port lights
Stainless-steel keel shoe – 8 ft (2.4m) long
Shallow Shaft Tunnels – draft 5ft (1.52m)
Razor shaft cutters
Molded Binnacle under swim step (provides longer LWL) with access hatch on top of swim platform and interior storage compartment

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 relevant regulations
Stainless-steel Fleming & “F” Logo on port & stbd forward roof supports
Rope cutters
Exterior seating with EZ-Dri foam, Sunbrella upholstery, and mesh backs for drainage
Groco serviceable exterior sea strainers

AFT DECK AREA

Cockpit with teak decking.
Flush lazarette hatches with hinges, gaskets, locks & gutters with drains
FRP Swim step, molded white non-skid surface. Stainless-steel rub rail
Hatch access into bustle
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. Aluminum with FRP skin, glass windows & Stainless-steel weather strips
Seadog style latches for doors
Hot & cold shower fittings on inside of transom adjacent to door, with quick release shower head and flexi hose
Salt water 316 Stainless-steel faucet
Fresh Water 316 Stainless-steel faucet
Two Smartplug shorepower inlets for 240v, 50A (European model 230v, 32A)
Overhead LED lighting with dimmer control
LED rope lighting under coaming skirt
Chocks at hull sides and transom (4)
Six 14" heavy duty Stainless-steel cleats secured to plates inside bulwarks
Deck scuppers piped out through transom at boot stripe
Hatch with steps down into lazarette, also provides access to engine room
Integrally molded seats
Integrally molded cockpit cabinet lockers
Stainless-steel 1 1/8" handrails across transom
Courtesy LED "F" logo lights at step up to salon
Stainless-steel folding handrail down to engine room which stows on inside of hatch lid
CCTV pan/tilt/zoom camera

SIDE-DECKS

Teak decks
Stainless-steel 1 1/8" diameter handrails along house-side
Teak rail cap on bulwarks
Bulwark doors opening inboard with Seadog style latches and bolts
Non-skid on top side of guard at boarding gates
LED overhead 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 windows fixed with tinted, tempered glass and FRP frames
Galley & Pantry windows sliding with tinted, tempered glass and FRP frames
Two sets of spring-line chocks per side
Five 14" heavy duty stainless-steel cleats per side, recessed into bulwarks with heavy duty steel backing plates
Non-spill fuel fills in steps port and stbd, with custom stainless-steel "F" logo lids.
Can fill all fuel tanks from port or starboard fuel fills via crossover manifold

PILOT-HOUSE DECK LEVEL

Portuguese Bridge
Teak rail cap
Locker doors in aft face of Portuguese bridge, access to large, vented storage area with Dri-Deck flooring
Stainless-steel 1 1/8" diameter handrail around forward & sides of pilothouse
Sliding Aluminum pilothouse doors port & stbd with stainless-steel interlocking weather seals
Teak decks
Hinged doors port & stbd through Portuguese bridge to foredeck with stainless-steel gas spring assist
Speich heavy duty self-parking wipers with speed control and screen wash
Clear, tempered 10mm thick glass, in forward facing windshields
Pilothouse windows are fixed and have FRP frames
Inward opening gates on Portuguese Bridge side decks port & starboard
Stainless-steel Fleming "F" logos 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 and rope lockers with removable stainless-steel access plates
Stainless-steel chain pipes
Watertight collision bulkhead
Forepeak drains directly overboard.
Bitter end fittings
Hatch scuppers
High gloss poly paint finish
Overhead LED light
Dri-Deck flooring

FWD DECK

Fleming white color non-skid deck
Cabin trunk with white non-skid finish and one large CE approved stainless-steel skylight
Vented deck lockers in cabin trunk
Stainless-steel handrail on cabin trunk
Teak rail cap on bulwarks increasing in width going forward
Stainless-steel stanchions & mid-rail
Oval stainless-steel hand rail
Deck lockers either side of anchor platform with white non-skid finish
FRP anchor platform with molded white non-skid finish and two sets of rollers
Two Hydraulic Maxwell RC12 windlasses with pendant control, and control panels at pilothouse & flybridge helm stations
300ft (91m) length of 7/16" (12mm) Stainless-steel Grade 60 German chain
132 Lbs. (60Kg) Stainless-steel Ultra Anchor with stainless-steel Ultra Swivel Chain hook with strop (for securing anchor when stowed)
Four stainless-steel chocks
Eight 14" heavy duty stainless-steel cleats
Stainless-steel pulpit 1 1/4" diameter tube. Welds ground and polished.
Foredeck LED "F" logo lights at steps through gates thru Portuguese bridge.
Hatch to forepeak
Two Smartplug Shorepower inlets 240v, 60Hz, 50A (European model 230v, 50 Hz, 32A)
Saltwater 316 Stainless-steel faucet inside foredeck lockers
Fresh water 316 Stainless-steel faucet inside foredeck lockers
Socket for windlass control pendant
Deck drains plumbed to boot-stripe to prevent black streaks
Teak burgee pole

FLYBRIDGE

Lexan venturi with stainless-steel rail
Steering console with engine controls on level surface
Electronics console with black Formica panel
Raised Stidd Helm seat with "Surf" white Naugahyde upholstery, folding armrests, back recline adjustment, and twin folding footrests
Color touchscreen for FFM monitoring system
Engine instrumentation
Ritchie compass with light & dimmer
Hypro Electro-hydraulic steering with destroyer-type stainless steel steering wheel
Rudder angle indicator
Fire system repeater alarm
L-Settee

Isotherm stainless-steel refrigerator
Beige color non-skid deck
Table starboard side with fixed Silestone top
Straight settee on port side
Flybridge cushions on settees with EZi-dri foam, Sunbrella upholstery, and mesh backs for drainage
Perfix snaps for attaching cushions
LED navigation lights in accordance with appropriate regulations
Kahlenberg D-330 Air horn with twin trumpets
Two Mastervolt 20-amp 24v to 12v DC-DC converters with 12v AGM back-up battery
FRP Radar arch with LED down lights
Stainless-steel railings with mid safety rail
Stainless-steel safety rail by sliding hatch
Stainless-steel safety gate between flybridge and boat deck
CCTV pan/tilt/zoom camera
Dri-Deck flooring in storage areas and under seating
ABT TRAC-LINK color touchscreen control panel for hydraulic system & pumps
Humphree control panel for stabilizers
Low level courtesy LED lights with "F" logo

BOAT DECK

Integrally molded beige color non-skid on deck
Integrated deck drains with gutter system
Stainless-steel handrails. 1 1/4" diameter with 3/4" diameter mid-rail.
Removable mid-rail on port side for liferaft deployment
1,500 lbs. (680 kg) capacity Hydraulic davit with powered luffing, hoisting, telescopic boom and rotation
Hinged hatch to cockpit ladder
GFCI 120v AC outlet (European model 230v RCD protected)
Fresh Water 316 Stainless-steel faucet
Stainless-steel saddles (4) for tender (supplied loose)
Aluminum plate inside deck for tender tie down eye
Stainless-steel flagpole holder on aft flybridge rail
Teak flagpole with internal stainless-steel reinforcement

LAZARETTE

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

400 US gals (1,514 Liters) in four polyethylene tanks with sight gages
Variable frequency drives for 3-phase salon & pilothouse air-conditioning
Air-conditioning compressors
Aft shorepower inlet circuit breakers
Smoke detector
Dual 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
Aft DC electrical panel
Submersible bilge pump
High bilge alarm
Starboard platforms and sole boards with stainless-steel lifters
Arctic steel raw water strainers for aircon seawater inlets
Two isolation-boosting shorepower transformers
Automatic AC power Controller
Seacock & Arctic steel strainer for watermaker

ENGINE-ROOM

Aquadrives with thrust plate & CV joints
Rubber Design soft engine mounts
Bronze dripless shaft seals with Buck Algonquin "Seal Tight" Packing
Hinged covers over Aquadrive thrust bearing
FRP fuel tanks (4) with fire retardant coating
Solenoid operated sight gages on fuel tanks
Fuel transfer system with high capacity pump & digital totalizer
Arctic Steel raw water strainers for engines, gensets, aircon and all seawater intakes
Humphree Stabilizer Servos & DC Circuit Breakers
Equipment platforms
21.5Kw, 240v, 60 Hz, (European model 230v, 50Hz, 17.5Kw) 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
Main engine exhaust system
Automatic engine room ventilation & air circulation system
Heavy duty sound insulation covered with perforated aluminum
Engine access hatch locked down on gaskets
Fire suppression system with automatic engines/genset/blowers, & air-intakes shutdown
Heat detectors (3)
Smoke detector

Air intake baffles with auto-close in event of fire and guarded manual switch in cockpit
Bilges painted with gloss white polyurethane paint
Sole board covered with Lonseal vinyl.
Fresh water hose coil
Submersible bilge pump
Sump pump
Hi-bilge level sensor
Engine start/stop buttons for each engine
Lube oil pumps (2) for engines, transmissions and generator
AC LED slim tube lighting
DC LED lighting (24v)
120v GFCI electrical outlets (European model 230v RCD protected)
Heavy duty Air-horn Compressor
Double platform with anti-vibration soft mounts for genset
24v 1,150 A/H Mastervolt Li-Ion house battery bank house battery bank
24v 255 A/H port engine/genset starting battery bank – Two Lifeline GPL-8DL
24v 255 A/H stbd engine/genset starting battery bank – Two Lifeline GPL-8DL
FRP drip pans underneath main engines
Stainless-steel mirror finished plates on inboard face of aft fuel tanks
Stainless-steel mirror finished engine stringer caps
Airtight FRP door with dog down latch and viewing port
Starboard platforms and sole boards
Lead foam sound insulation
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
Three Mastervolt 4,000 watt inverters
Three 100-amp Mastervolt 24v Battery Chargers for house bank
Two CCTV pan/tilt/zoom cameras
Gianneschi 24v DC high capacity sea water pump
Engine room Airconditioning 16,000 BTU

INTERIOR

Accommodation with three staterooms
Hanging lockers lined with teak
Insect screens for all opening windows, port lights and skylights
Mobella interior door locks
Cruisair reverse cycle air-conditioning with remote compressors
LED mood rope lighting behind valances, stairs and settees
LED warm white interior lighting throughout (24v DC)
Teak joinery with satin varnish, hand-rubbed finish
Teak and holly soles throughout – hand-laid solid timber (not plywood)
Light fixtures polished stainless-steel finish
Vimar light switches and AC & USB outlets with graphite grey silk faceplates
Interior locker door handles with polished stainless-steel finish
Interior bulkheads feature sandwich construction with lead foam sound insulation
Headroom 6' 6" (1.97m) minimum throughout
All drawers constructed with dovetail joints
Cabin & Head doors with gaskets
Bookshelves with custom stainless steel drop-down fiddles
Synthetic leather headliner - "Fleming White"

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

Eternal Statuario
Eternal Calacatta Gold
Poblenou
Royal Reef
Blanco Maple

Standard three stateroom accommodation includes master cabin forward (en-suite) with two hanging lockers and vanity, port cabin with twin berths, hanging locker & vanity, stbd cabin with up & over berths, hanging locker and vanity, guest head to stbd. See drawing "FLEMING 65' – Standard Accommodation"

Two choices of salon layout:

1. L-Settee to port, Fleming Hi-low table, aft wet bar with sink, refer/icemaker combo, stbd side entertainment centre with teak top & TV cabinet in aft corner, with powered TV lift. See drawing FLEMING 65' – Salon Arrangement – Option #1"
2. Straight settee to port with cabinets at either end, aft wet bar with sink, refer/icemaker combo, stbd side dinette with dining table and light fixture above & TV cabinet in aft corner, with powered TV lift. See drawing FLEMING 65' – Salon Arrangement – Option #2"

SALON

Fixed windows in house sides
Opening windows in galley and pantry with removable insect screens
Sliding doors at aft end
Medium grey tinted, tempered, glass.
Wood window blinds with teak retainers
Teak joinery with satin varnish hand-rubbed finish
Silestone countertops
Teak valance over windows with LED rope lighting
Overhead LED lighting on dimmers
Access hatch to allow for engine removal
Synthetic leather headliner – “Fleming White”
CO detector
Cruisair reverse cycle air-conditioning
FRP sandwich with honeycomb composite sole
Sconce lights with shade

GALLEY

Silestone countertops
Silestone splash back installed behind sink and cooktop
Undermount stainless-steel double sink
Insinkerator waste disposal unit
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
Overhead LED lighting
Swivel faucet with removable spray head
Slide out trash bin
Drawers with guides and stops
Cabinets
120v AC GFCI outlets (European model 230v RCD protected)
Instahot – instant hot & cold filtered water dispenser
Slide-out pot/appliance storage lockers (2) in forward bulkhead
Slide-out pot/appliance storage lockers (2) in aft cabinet
Dishlocker at stbd side with opening top & front
Slide out storage in pantry on stbd side
Synthetic leather headliner - Fleming White
Cruisair reverse cycle air-conditioning
Preparation for optional dishwasher – including AC power cables, circuit breaker,
and freshwater feed with shut-off valve
Storage cabinet under sink with automatic LED lighting
Overhead cabinets with hinged teak doors

PILOTHOUSE

One Stidd 500XL low back helm seat with chrome package, footrest, drink holder, and black Ultraleather upholstery
Chart table with double-guide drawers and stops
Chart light on flexible arm
Dismountable control console with ample space for electronics
Fleming First Mate (FFM) Monitoring System 16" color display screen
Engine instrumentation
Dedicated space for Autopilot control
Humphree control panel for stabilizers
ABT TRAC-LINK color touchscreen panel for hydraulic system & pumps
ABT friction type jog levers for hydraulic bow & stern thrusters
Horn control
Reservoir for air horn
Rudder angle indicator
Back lit engine start & stop/Ignition buttons
Engine power key-switches on advisory panel
Twin Disc Electronic engine controls with synchronizer, Express and troll modes
Hypro electro-hydraulic steering with Destroyer type steering wheel with teak grips
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
Wood boat blinds on port window at settee with teak retainer
Teak table with single stainless-steel leg and swivel
File drawer
Self-parking, heavy-duty windscreen wipers with multi-speed/intermittent controls & freshwater wash on forward-facing windows
Windshield glass, clear, tempered, 10mm thick
Synthetic leather headliner – "Fleming White"
Variable speed demister blower on forward facing windows
Hinged soffit access to underside of flybridge console
Stainless-steel handrail around dayhead
Cruisair reverse cycle air-conditioning which can be run on inverters whilst main engines are running
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 digital control panel with start/stop
Windlass up/down switches & control circuit breaker
Fire system control panel
Bilge pump control on advisory panel
Custom stainless-steel fold down bookshelf fiddles
Dimmer for instrument lighting
Main engine sea water flow alarms
Sconce lights with shade
Charcoal suede fabric on upper surface of consoles
Cushion for pilothouse berth and dedicated storage for in-fill pieces
Smoke detector inside pilothouse console
Smoke detector under flybridge console
Two teak access doors to electronics compartment behind seating
eFit iPad storage and charging socket in overhead console

Pilothouse Day-Head

Porcelain wash basin in Silestone countertop
Locker and medicine cabinet with mirror
Vented Wet locker with drain pan
Tecma toilet
Intake and discharge head vent fans
Air-conditioning outlet
Synthetic leather headliner - Fleming White

ACCOMMODATION

PASSAGE

Lower part of bulkhead teak. Upper part Synthetic leather "Fleming White" with teak chair-rail trim at join
Access doors to staterooms
LED rope lighting at stairs to salon and forward cabin
Overhead LED lighting
Manual bilge pump under steps
Bosch washer and Bosch drier in cabinet behind sliding door
Synthetic leather headliner – Fleming White
Teak handrail above stairs to accommodation

FORWARD STATEROOM

Four stainless-steel CE-approved port lights with removable insect screens

CE approved skylight providing light, ventilation, and emergency exit
Telescopic escape ladder, with dedicated storage in hanging locker
Powered Oceanair sliding insect and black-out screens for skylight
Tapered queen-sized bed with electric lift and manual slide
Retainer device for sliding bed securing knob
Foam mattress
Upholstered headboard
Teak lockers either side of bed
LED rope lighting under bed and steps
Two hanging lockers. Teak faced with double louvered doors and automatic interior lights
TV space on bulkhead
Drawers with center guides and stops
Beveled-edge European sourced mirrors
Door stops and holders.
Doors with flat teak panels, and teak frame with arched top
Bulkheads with lower half teak and upper half synthetic leather – “Fleming White”
Synthetic leather headliner – “Fleming White”
Teak valance over portlights
Formica inside portlight openings
LED Rope lighting and drape tracks at portlight openings
LED overhead lighting on dimmers.
Berth LED reading lights.
CO detector
Smoke detector
Sump and condensate pump for air-conditioning
Vanity at aft bulkhead
Custom Stainless-steel fold down bookshelf fiddles
Drapes
Cruisair reverse cycle air-conditioning
CCTV control panel

PORT HEAD (en Suite)

CE-approved portlight with removable insect screen
FRP/PU coated shower stall with Silestone/marble sole and auto sump pump
Shower mixer, pressure and temperature compensated
Stainless-steel toiletries rack in shower
Silestone countertop with porcelain basin
Hans-Grohe Faucets
Beveled-edge European sourced mirrors
LED lighting
120v AC GFCI outlet (European model 230v RCD protected)
Stainless-steel towel rails
Tecma toilet

Ventilator extraction fan
Drapes
Trident Premium Sanitation hose
Holding tank full indicator
Air-Conditioning inlet from cabin
Shower sump pump control and override switch

STBD GUEST CABIN

Stainless-steel CE-approved port lights with removable insect screens
Upper & lower berths in “L” configuration
Hanging locker with louvered door & auto-light.
Vanity with drawers
120v AC outlets (European model 230v RCD protected)
Foam mattresses
Upholstered Headboards
LED overhead lighting.
Berth LED reading lights
LED rope lighting and drape tracks at portlight openings.
Full height beveled-edge European sourced mirror
Pocket entrance door
CO detector
Smoke detector
Custom stainless-steel fold down bookshelf fiddles
Drapes
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
Cruisair reverse cycle air-conditioning

PORT STATEROOM

Stainless-steel CE-approved port lights with removable insect screens
Twin berths
LED rope lighting under berths
Full height beveled-edge European sourced mirror
Hanging locker with auto lighting 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 RCD protected)

Upholstered Headboards

Vanity and cabinets

LED overhead lighting

Bookshelves

Berth LED reading lights

LED Rope lighting and drape tracks at portlight openings.

CO detector

Smoke detector

Custom Stainless-steel fold down bookshelf fiddles

Synthetic leather headliner – “Fleming White”

Bulkheads with lower half teak and upper half synthetic leather – “Fleming White”

Cruisair reverse cycle air-conditioning

GUEST HEAD

CE-approved Portlight with removable insect screen

FRP/PU coated shower stall with Silestone or marble sole, auto sump pump, seat and lockers

Stainless-steel and glass custom shower doors

Lockers

Shower mixer, pressure and temperature compensated

Silestone countertop with porcelain basin

Hans-Grohe Faucets

Beveled-edge European sourced mirrors

LED overhead lighting

120v AC GFCI outlet (European model 230v RCD protected)

Stainless-steel towel rails.

Tecma toilet

Ventilator fan

Drapes

Trident Premium Sanitation hose

Holding tank full indicator

Shower sump pump control and override switch

SYSTEMS

STEERING

Hypro Marine Electro-Hydraulic Steering with electronic helm units at Pilothouse and Flybridge.

Hydraulic Power-pack with on-demand variable speed primary pump, 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

ABT 38HP Hydraulic Bow Thruster (12” tunnel) friction type jog lever controls at pilothouse and flybridge control stations

ABT 20HP Hydraulic Stern Thruster (10” tunnel) friction type jog lever controls at pilothouse and flybridge control stations

ABT hydraulic system with clutched C-pad PTO’s driving hydraulic pumps on both transmissions, with noise suppressors, hydraulically driven sea water cooling pump, and two color touchscreen control panels (P/H & F/B)

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

Fleming First Mate (FFM) central monitoring system with 16” color touch-screens in Pilothouse and Flybridge

FUEL SYSTEM

Twin Racor 75/1000MAX duplex filters with change-over valve, and Dent vacuum gage 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

Four FRP fuel tanks made with vinylester and fire-retardant resins and with a fire proof outer coating

Total fuel capacity 1,700 USG (6,435 liters)

Fuel tank sumps and drains with shut-off valves on all tanks

Fuel management panel for engine/genset fuel supply/return selection

High capacity 24v DC Fuel Transfer pump with suction & delivery manifolds

Digital fuel flow totalizer for transfer system

Stainless-steel fuel tank float switches and Hi-level alarm and transfer pump safety shut-off feature

Sight glasses on all fuel tanks with solenoid operated (push button) safety valves

Electric fuel priming pumps for both main engines

Pressure type fuel tank level sensors connected to FFM System

PLUMBING

SANITARY

Tecma heads

Toilets flush to FRP holding tank with level indicator on FFM

Toilet flushing with seawater or freshwater.

Anti-odor filters on holding tank vents port & starboard

330 USG (1,249 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 24v DC heavy duty 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

400 USG (1,514 Liters) total in four polyethylene tanks, with drain and isolation valves.

Sight glasses on water tanks

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

40 USG (151 Liters) Torrid water heater with two 240v AC heating elements, two heat exchanger coils, drain & pressure/temp relief 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

Hot water re-circulation solenoid valve and timer with switches in both heads

Fresh Water 316 Stainless-steel faucet on foredeck, flybridge and cockpit

Hans-Grohe interior faucets
Whale plumbing system
Whale gulper shower sump pumps
Fresh water coil hose in engine room
Pressure type water tank level sensor connected to FFM System
Thermal expansion tank

SEA WATER SYSTEM

Gianneschi 24v DC, heavy duty, 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
1 pc 2,000 GPH Rule electric bilge pumps with auto/man control (bustle)
Manual bilge pump for forward bilge compartment
Forward bilge sump pump – Whale Gulper
Engine room bilge sump pump – Whale Gulper
USS type bilge pump/high level alarm float switches in bustle, lazarette, engine room, and forward bilge - connected to FFM System
Bilge counter on FFM Monitoring System records number of times bilge pump runs

ELECTRICAL

ELECTRICAL – AC

240v, 21.5Kw 60 Hz, Onan eQD generator, single phase, in sound shield, double mounted on anti-vibration soft mounts, with NIM module (European model 230v, 50Hz, 17.5Kw)
Load distribution panel with backlit labels.
Dedicated inverter compliant AC panel
Digital meters (volts, amps, watts and frequency) and circuit breakers as required
Four 240v, 50-amp shorepower inlets fore and aft connected so that two can be used simultaneously (European model has 230v, 32A shorepower inlets)
Two Isolation & voltage boosting transformers for shorepower
Automatic AC power controller for shorepower/genset

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

Three 4,000-watt pure sine wave Mastervolt inverters

Inverter bypass system

Mastervolt remote control panel in pilothouse.

Approved marine grade tinned copper wire

Vimar AC outlets with Graphite Grey Silk Faceplates

Hinged panels for serviceability

ELECTRICAL – DC

Main ships system is 24v DC

Three isolated 24v battery banks

24v 1,150 A/H Mastervolt Li-Ion (LiFePO4) house battery bank

24v 255 A/H port engine/genset starting battery bank – Two Lifeline GPL-8DL

24v 255 A/H stbd engine/genset starting battery bank – Two Lifeline GPL-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

permits paralleling of engine/genset 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

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.

USB Outlets throughout

ELECTRICAL – BONDING

Copper strap or cable connecting all thru-hulls, underwater fittings, pulpit and flybridge rails – (equipotential bonding system)

Zincs on transom (2)

Zincs on propeller shafts (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

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

Sump and condensate pump for air-conditioning in forward cabin

Trudesign composite seacocks on all through hulls at or below waterline

Sika-Flex deck Caulking

5/8" thick teak deck

Lead foam insulation between accommodation bulkheads

Pre wiring with coax, CAT 5 and speaker cables throughout as follows:-

- CAT 5 - 2 x from salon stereo cabinet to behind FB inboard panel, PH console & each cabin
- Speaker wire - 2 x from salon stereo cabinet to FB radar arch port and stbd, PH console, each cabin, laz or aft deck overhead
- COAX - 2 x from salon stereo cabinet to behind FB inboard panel, PH console, and each cabin
- COAX - 4 x from salon stereo cabinet to FB stbd settee near davit base

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 thousands 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.