

7 Feb 2020
Version #68 (WEF 65-057)

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 or ZF 360A with electric
shift and troll valves
Reduction Ratio: TD 2.50:1 or ZF 2.609:1
PTO's Clutched C-Pad on both transmissions
Engine Controls: Glendinning EEC3 (with back-up system)

Shafts: Aqualloy 22 Hi-strength
Driveline: Aquadrive CV48

Generator: Onan eQD 21.5Kw, 220v, 60 Hz
(European model 17.5Kw, 230v, 50Hz)

Stabilizers: ABT TRAC 9 Sq. Ft fins with winglets
250 model actuators

Bow Thruster: ABT 38HP Hydraulic
Stern Thruster: ABT 20HP Hydraulic

Fuel Tanks: 1700 US gals (6435 Liters) in four tanks
Water Tanks 400 US gals (1514 Liters) in four tanks
Black Water Tank: 330 USG (1249 Liters)

Monitoring System: Fleming First Mate (FFM) / Boning

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)
Fin cutters in front of stabilizer fins
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
Cook 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
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 220v, 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 connected to FFM Monitoring System

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.

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
Individual screen wash and heavy duty self-parking wipers on windshield
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
Galley cooktop and microwave vent

FOREPEAK

FRP 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
132 Lbs. (60Kg) Stainless-steel Ultra Anchor with stainless-steel Ultra Swivel, Ultra Chain hook with strop (for securing anchor when stowed)
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
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 Shore inlets 220v, 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
15" color touchscreen for FFM monitoring system including MAN engine instrumentation
Ritchie compass with light & dimmer
Powered Electro-hydraulic steering with destroyer-type wheel
Rudder angle indicator
Fire system repeater alarm
L-Settee
Isotherm stainless-steel refrigerator

Beige color non-skid deck
Table starboard side with fixed granite (or Corian) 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 connected to FFM Monitoring System
Dri-Deck flooring in storage areas and under seating
ABT TRAC-LINK color touchscreen control panel for stabilizers & hydraulic system/pumps
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. capacity Hydraulic davit with powered luffing, hoisting, telescopic boom and rotation
Hinged hatch to cockpit ladder
GFCI 110v 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
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 power transformers
Automatic AC Controller
Arctic steel seacock & strainer for watermaker
Smoke detector

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
Equipment platforms
21.5Kw, 220v, 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
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 alarm
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)
110v GFCI electrical outlets (European model 230v RCD protected)
Heavy duty Air-horn Compressor
Double platform with anti-vibration soft mounts for genset
24v, 1,200 A/H house battery bank - 12 pcs Lifeline AGM GPL-L16T-2V (2 volt) batteries wired in series
Automatically controlled battery box fan
255 A/H port engine/genset starting battery bank – Two Lifeline GPL-8DL
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
Balmar MC-624 Alternator regulator with house battery bank temperature sensor
Gianneschi 24v DC high capacity sea water pump
Two 24v Mastervolt 15-amp battery chargers, one for each engine/genset battery bank
Two CCTV pan/tilt/zoom cameras connected to FFM Monitoring System

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 and Qht controls
All cabins pre-wired for intercom/phone/data/AV system
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 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

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
Pre-wired for intercom/phone/data/AV system

Teak joinery with satin varnish hand-rubbed finish
Granite (or Corian) countertops
Teak valance over windows with LED rope lighting
Overhead LED lighting on dimmers
Access hatch to allow for engine removal
Synthetic leather headliner - grey
CO detector
Cruisair reverse cycle air-conditioning with Qht control panel
FRP sandwich with honeycomb composite sole
Sconce lights with shade

GALLEY

Granite (or Corian) countertops
Undermount stainless-steel double sink
Insinkerator waste disposal unit
Stainless steel convection microwave oven with cooktop overboard vent
Three burner Miele flush 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
110v 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 - grey
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
FFM Monitoring System remote control unit mounted in stbd arm of Stidd seat
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 15" color display screen on lower console – See systems for detailed description
Dedicated space for Autopilot control
ABT TRAC-LINK color touchscreen panel for stabilizers & hydraulic system
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
Electronic engine controls Glendinning EEC 3 with synchronizer and troll
Back-up electronic engine controls (gear and throttle)
Hydro electro-hydraulic steering 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
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 & individual freshwater wash on forward-facing windows
Windshield glass, clear, tempered, 10mm thick
Synthetic leather headliner - grey
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 remote alarm panel
Bilge pump control on advisory panel
Custom stainless-steel fold down bookshelf fiddles
Pre-wired for intercom/phone/data/AV system

Dimmer for instrument lighting
Main engine sea water flow alarms
Sconce lights with shade
Charcoal suede fabric on upper surface of consoles
In-Fill cushion for pilothouse berth
Smoke detector inside pilothouse console
Smoke detector under flybridge console
Two teak access doors to electronics compartment behind seating

Pilothouse Day-Head

Porcelain wash basin in granite counter top
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 - grey

ACCOMMODATION

PASSAGE

Lower part of bulkhead teak. Upper part Synthetic leather (grey)
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 – grey
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 hydraulic 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 teak to waist height with grey synthetic leather above
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
Synthetic leather headliner - grey
Cruisair reverse cycle air-conditioning with Qht control panel
FFM 4.3" touchscreen panel with CCTV control

PORT HEAD (en Suite)

CE-approved portlight with removable insect screen
FRP/PU coated shower stall with granite/marble sole and auto sump pump
Shower mixer, pressure and temperature compensated
Stainless-steel toiletries rack in shower
Marble or granite counter top with porcelain basin
Hans-Grohe Faucets
Beveled-edge European sourced mirrors
LED lighting
110v AC GFCI outlet (European model 230v RCD protected)
Stainless-steel towel rails
Tecma toilet
Ventilator extraction fan with light
Drapes
Trident Premium Sanitation hose
Holding tank full indicator

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
110v 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 - grey
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
Valance over portlights
Foam mattresses
110v 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 - grey
Cruisair reverse cycle air-conditioning

GUEST HEAD

CE-approved Portlight with removable insect screen
FRP/PU coated shower stall with granite or marble sole, auto sump pump, seat and lockers
Stainless-steel and glass custom shower doors
Lockers
Shower mixer, pressure and temperature compensated
Marble or granite counter top with porcelain basin
Hans-Grohe Faucets
Beveled-edge European sourced mirrors
LED overhead lighting
110v 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

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 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

Glendinning EEC 3 electronic engine controls with troll, and synchronizer at pilothouse and flybridge.
Back up engine controls system in pilothouse (gear and throttle)

MACHINERY

Twin MAN i6-800 HP Common Rail Engines
Twin Disc Marine transmissions with electric shift and troll valves, clutched C-Pad PTO's for hydraulic pumps
Stabilizers - ABT TRAC 9 Sq. Ft fins with winglets, 250 model actuators, hydraulically operated locking pins, hydraulically driven sea water cooling pump, and two color touchscreen control panels (P/H & F/B)
ABT 38HP Hydraulic Bow Thruster (12" tunnel) jog lever controls at both stations
ABT 20HP Hydraulic Stern Thruster (10" tunnel) jog lever controls at both stations
ABT hydraulic system with clutched C-pad PTO's driving hydraulic pumps on both transmissions, with noise suppressors
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

FUEL SYSTEM

Twin Racor 75/1000MAX duplex filters with change-over valve, and 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 220v 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

220v, 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 220v, 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 Controller for shorepower/genset
AC outlets throughout boat. GFCI type in heads, galley, engine room and exterior
Two 110v, 60Hz, 3,500 watts stacked pure sine wave Outback inverters (European model has two 230v, 50Hz, 3000watt inverters)
Integral inverter bypass system
Inverter 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– all batteries are Lifeline AGM type
1,200 A/H house battery bank - 12 pcs Lifeline GPL-L16T-2V AGM (2 volt) batteries wired in series
Automatically controlled battery box fan
255 Ah port engine/genset starting battery bank – Two Lifeline GPL-8DL
255 Ah stbd engine/genset starting battery bank– Two Lifeline GPL-8DL

105 Ah 12v Backup battery – Lifeline GPL-31T
12v DC provided via two 24v-12v DC-DC, 20-amp converters & back-up battery system located on flybridge
Remote controlled battery master switches operable from Pilothouse, also permits paralleling of battery banks
Two 24v Mastervolt 15-amp battery chargers, one for each engine/genset battery bank.
Engine/genset battery banks also charged by MAN engines original alternators
Outback Flexnet DC House Battery Bank Monitor shows voltage, state of charge and current flow in & out of house battery bank – info displayed on Mate remote panel in pilothouse and on FFM System
Alarm panel for bilge & fire
Two Delstar 200 amp, 24v, heavy duty, brushless, auxiliary alternators
Balmar MC-624 external alternator regulator with battery temperature sensor
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 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)

15" color touchscreen located in Pilothouse
15" color touchscreen located on Flybridge
4.3" color touchscreen repeater located in Master Cabin
Home page with "Ready for Sea checklist"
Digital switching of DC loads, with feedback and status monitoring
Digital switching of shorepower inlets, with feedback and status monitoring
SMS remote alarm system sends text messages. (requires SIM card)
Remote control panel located in Stidd seat arm rest
iPad remote access
Indication of AC Shorepower System
Data logging

System monitors/displays the following parameters:

All MAN engine data and alarms - analog, digital and graphic view

Navigation lights (monitoring and control) with back-up control panel
Bilge pumps, including counter recording number of time pump has run
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
Cockpit hatch
Cablemaster (in/out)
Passarelle (in/out)
Engine room lights
Steering pump
Back-up steering pump
Engine controls
Watermaker (if installed)
Main engines seawater flow sensing
Hydraulic cooling seawater flow sensing
Genset engine data
Wind speed & direction
GPS (SOG, COG & Position)
Computed range
DC voltage (24v and 12v battery banks)
Battery Master Switch position
Forward & aft Shorepower voltage, frequency and current draw
Inverter voltage, frequency and current draw
Genset/s voltage, frequency and current draw
CCTV System

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.

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

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.