

13th Feb 2017
Version #60 (WEF 65-048)

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)
Transmission:	ZF 360A with electric shift and troll valves
Reduction Ratio:	2.609:1
Engine Controls:	Glendinning EEC3 (with back-up system)
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
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)

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 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))
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
Quicktether line cutters
Exterior seating with EZ-Dri foam, Sunbrella upholstery, and mesh backs for drainage

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) (Worldwide shorepower system accepts range 170-520v and 40-70Hz.)
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
316 grade 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

SIDE-DECKS

Teak decks
316 grade 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.
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 tanks from port or stbd fuel fills.

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 1 1/8" diameter handrail around forward side of pilothouse.
316 grade Stainless Steel 1 1/8" diameter handrails at pilothouse port & stbd
Sliding Aluminum pilothouse doors port & stbd with stainless steel weather seals
Teak decks
Hinged doors Port & Stbd through Portuguese bridge to foredeck with Stainless Steel gas spring retainers
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 doors on Portuguese Bridge side decks Port & Starboard
Stainless steel Fleming "F" logo's on forward roof supports Port & Starboard
Galley cooktop and microwave vent

FOREPEAK

FRP Chain and rope lockers with removable Stainless Steel access plates and Stainless Steel chain pipes
Watertight collision bulkhead
Forepeak drains directly overboard.
Bitter end fittings
Hatch scuppers
High gloss poly paint finish
Overhead light
Dri-Deck flooring

FWD DECK

Beige 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 to support teak handrail
Teak hand rail
Stainless Steel mid-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 & bridle
Two 24v DC Maxwell RC12, windlasses with pendant control, wireless remotes, and control panels at both stations (P/H & F/B)
300ft (91m) length of 7/16" ACCO Hi-Test chain
Four Stainless Steel chocks
Eight 14" heavy duty Stainless Steel cleats
316 grade 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
Smartplug Shore inlets for 220v, 60Hz, 50A (European model 230v, 50 Hz, 32A)
Salt water 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
Raised Stidd Helm seat with "Surf" white Naugahyde upholstery, folding armrests, back recline adjustment, and twin folding footrests
15" color touchscreen central 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
Beige color non-skid deck

Table stbd side with fixed granite (or Corian) top
Straight settee port side
Flybridge cushions on settees and helm seat using EZi-dri foam with Sunbrella upholstery and mesh backs for drainage
Perfix snaps for attaching cushions
LED navigation lights in accordance with appropriate Collision regulations
Kahlenberg D-330 Air horn with twin trumpets, P449-25 Compressor/reservoir, V-149K 24v Solenoid valve
Two Mastervolt 24v to 12v DC-DC converters with 12v battery back-up system.
FRP Radar arch with LED down lights
Stainless Steel signal mast with bow and anchor lights and aft facing floodlight
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 stabilizers

BOAT DECK

Integrally molded beige color non-skid on deck
Integrated deck drains with gutter system
316 grade Stainless Steel handrails. 1 1/4" diameter with 3/4" diameter mid-rail.
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 flag pole holder on aft flybridge rail
Teak flag pole with internal stainless steel reinforcement

LAZARETTE

Steering gear
Hypro Marine hydraulic power pack with primary, back-up, and autopilot pumps, on anti-vibration mounts with FRP drip tray
Deck and hatch scuppers
Hull finished with gloss white polyurethane paint
LED Overhead lights
400 USG fresh water, 4 pcs 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
Battery master switch panel with digital voltmeter – allows parallel switching
Aft DC electrical panel
Bow thruster Main Switch panel and fuse
Submersible bilge pump
High bilge alarm
Starboard platforms and sole boards with Stainless Steel lifters
Groco raw water strainers for aircon seawater inlets
ASEA frequency converter accepts 170-520v, 40-70Hz (allowing worldwide use)

ENGINE-ROOM

Rubber Design soft engine mounts
Sea Torque Bolt on Shaft System (BOSS) - an enclosed, oil lubricated, self-contained shaft and thrust bearing assembly. Eliminates the need for shaft seal, and cutless bearings. Thrust is transmitted directly into the hull and not via the gear/engine resulting in a smooth vibration free and quiet operation
Hinged covers over Seatorque cardan shaft and universal joints
FRP fuel tanks (4) with Fire retardant coating
Solenoid operated sight gages on fuel tanks
Fuel transfer system with high capacity pump & digital totalizer
Groco 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 Boning System
Main engine exhaust system with water-lock muffler
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)
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
900 A/H house battery bank consisting of 12 pcs Lifeline GPL 6CT AGM (6 volt) batteries
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
Ample Power Alternator regulator, battery bank temp sensor & Dual Alternator Controller
Gianneschi 24v DC high capacity sea water pump

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 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 to have shiny Stainless Steel (chrome) finish
Vimar light switches and AC outlets with Graphite Grey Silk Faceplates
Interior locker door handles to be brushed 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

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. 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 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 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
Ultrasuede headliner “Chamois”
CO detector
Cruisair reverse cycle air-conditioning with Qht control panel
FRP sandwich with honeycomb composite sole
Imtra Sconce lights with shade – Atlas model

GALLEY

Granite (or Corian) countertops
Undermount black composite double sink
Insinkerator waste disposal unit
Convection microwave oven with cooktop overboard vent
Four-burner 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
Ultrasuede headliner “Chamois”
Cruisair reverse cycle air-conditioning with Qht control panel
Preparation for optional dishwasher – including AC power cables, circuit breaker,
and F/W feed with valve
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
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 space for owner supplied electronics
Fleming central monitoring system with Boning 15" color display screen on lower console – See systems for detailed description
ABT TRAC-LINK color touchscreen control panel for stabilizers
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)
Hypro electronic, powered 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 distribution panels
Alarm and advisory panel
Doors on AC, DC 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 fresh water wash on forward-facing windows
Windshield glass, clear, tempered, 10 mm thick
Ultrasuede headliner "Chamois"
Demister blower on forward facing windows
Control for bow thruster
Hinged soffit access to underside of flybridge console
Stainless Steel handrail around dayhead
Cruisair reverse cycle air-conditioning with Qht control panel which can be run on inverters whilst main engines are running
Black water tank level indication and pump control on Monitoring 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 switch & control circuit breaker
Fire system remote panel
Bilge and sump pump control on advisory panel
Custom Stainless Steel fold down bookshelf fiddles
Pre-wired for intercom/phone system
Dimmer for instrument lighting
Main engine sea water flow alarms

Imtra Sconce lights with shade – Atlas model
Charcoal” Ultrasuede fabric on upper surface of consoles

Pilothouse Day-Head

Porcelain wash basin in granite counter top
Locker and medicine cabinet with mirror
Vented Wet locker with drain pan
Planus toilet
Intake and discharge head vent fans
Ultrasuede headliner “Chamois”
Air-conditioning outlet

ACCOMMODATION

PASSAGE

Lower part of bulkhead teak. Upper part Ultrasuede 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
Ultrasuede headliner “Chamois”

FORWARD STATEROOM

Four Stainless Steel CE-approved Port lights with removable insect screens
CE approved skylight providing light, ventilation and emergency exit
Powered Oceanaire 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 Ultrasuede above
LED overhead lighting on dimmers.
Berth LED reading lights.
CO detector
Sump and condensate pump for air-conditioning
Vanity at aft bulkhead
Custom Stainless Steel fold down bookshelf fiddles
Drapes
Ultrasuede headliner "Chamois"
Cruisair reverse cycle air-conditioning with Qht control panel

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
Faucets
Beveled-edge European sourced mirrors
LED lighting
110v AC GFCI outlet (European model 230v RCD protected)
Stainless Steel Towel rails
Planus toilet – white color
Ventilator 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

Custom Stainless Steel fold down bookshelf fiddles
Drapes
Ultrasuede headliner “Chamois”
Cruisair reverse cycle air-conditioning with Qht control panel

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
Custom Stainless Steel fold down bookshelf fiddles
Ultrasuede headliner “Chamois”
Cruisair reverse cycle air-conditioning with Qht control panel

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
Faucets
Beveled-edge European sourced mirrors
LED overhead lighting
110v AC GFCI outlet (European model 230v RCD protected)
Stainless Steel Towel rails.
Planus toilet – white color
Ventilator fan
Drapes
Trident Premium Sanitation hose
Holding tank full indicator

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, back-up pump, and pre-plumbed Autopilot Pump in lazarette

Shielded power supply cables

Rudder angle indicators at pilothouse and flybridge station Boning Screens

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 Common Rail MAN i6-800 CRM 800 HP Engines

ZF or Twin Disc Marine transmissions with electric shift and troll valves

Stabilizers - ABT TRAC 9 Sq. Ft fins with winglets and 250 model actuators, hydraulically operated locking pins, hydraulically driven sea water cooling pump, and color touchscreen control panel

Sidepower SP240TC 15.5 HP (11.4 Kw) bow thruster with Sidepower Main

Switch and controls at each station

4-blade (NSP) Nickel Aluminum bronze propellers

Recessed I-struts in shaft pockets

SeaTorque M4 BOSS Bolt on Shaft System with universal joints, & shaft seal

Shafts are AQ 22 HS material and 2.75" diameter running in enclosed

SeaTorque tube

Quickutter rope cutters

Rubber Design Adjustable Soft Engine Mounts

Underwater exhaust and internal water-lock muffler system

FUEL SYSTEM

Twin Racor 75/1000MAX 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 (6435 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
Fuel tank float switches and Hi-level alarm with transfer pump shut-off feature
Sight glasses on all fuel tanks with solenoid operated safety valves
Electric fuel priming pumps for both main engines
Pressure type fuel tank level sensors connected to central monitoring system

PLUMBING

SANITARY

Planus Arctic Plus (white) heads
Toilets flush to FRP holding tank with level indicator
Toilet flushing with Seawater or Freshwater.
Anti-odor filters on holding tank vents Port & Starboard
330 gal Black water tank
Tank level indicator and pump control on Boring central 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 black water discharge pump
Sealand T24 backup black water discharge pump

FRESH WATER SYSTEM

400 USG (1514 Liters) total in four polyethylene tanks, with drain and isolation valves.
Sight glasses on water tanks
Duplex Gianneschi 24v DC Fresh water pumps, inlet filter & flow sensor
40 USG (151 Liters) Torrid water heater with two 220v AC heating elements and 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

Fresh Water 316 Stainless Steel faucet on flybridge

Fresh Water 316 Stainless Steel faucet in cockpit

Whale plumbing system

Whale gulper shower sump pumps

Fresh water coil hose in engine room

Pressure type water tank level sensor connected to central monitoring system

SEA WATER SYSTEM

Gianneschi 24v DC, heavy duty, seawater pump and strainer

Salt water 316 Stainless Steel faucet on foredeck

Salt water 316 Stainless Steel faucet in cockpit

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

Whale brand plumbing

Groco intake strainers for main engines, generator and sea water system

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 central monitoring system

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. Split panel system.

Dedicated inverter compliant AC panel

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

Four 220v, 50 amp shore inlets fore and aft connected so that two can be used simultaneously (European model has 230v, 32A shorepower inlets)
ASEA frequency converter accepts shorepower range 170-520v and 40-70Hz, allowing worldwide use
AC outlets throughout boat. GFI 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, 3000 watt inverters)
Integral inverter bypass system
Inverter remote control panel in pilothouse.
Stainless steel AC Contactor Box
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
900 Ah house battery bank - 8 pcs Lifeline GPL-6CT AGM (6 volt) batteries
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 allows paralleling of battery banks
Two 24v Mastervolt MASS 25/15-2 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 central monitoring system
Alarm panel for bilge & fire
Two Delstar 200 amp, 24v heavy duty, brushless, auxiliary alternators with Ample Power regulator, and dual alternator controller
900 A/H house battery bank consisting of 12 pcs Lifeline GPL 6CT AGM (6 volt) batteries
Approved Marine Grade Tinned copper wire
Hinged panel for serviceability
Vimar light switches with Graphite Grey Faceplates
Imtra LED lighting and dimmers.

ELECTRICAL – BONDING

Copper strap or cable connecting all thru-hulls, Seatorque system, 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

BONING/FLEMING CENTRAL MONITORING SYSTEM

15" color touchscreen located in Pilothouse

15" color touchscreen located on Flybridge

Home page with "Ready for Sea checklist"

Digital switching of AC & DC loads, 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

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

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)
Range
DC voltage (24v and 12v battery banks)
Battery Master Switch position
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.

Cruisair reverse cycle air-conditioning throughout using REU model quiet blowers and Qht controls

Sump and condensate pump for air-conditioning in forward cabin

Ball-type 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.