

21<sup>st</sup> March 2017  
Version #28 (WEF 58-023)

## **Fleming 58 - Pilothouse Motor Yacht**

### **SPECIFICATIONS**

#### **General Description**

LOA (hull):	62' 9" (19.1m)
LOA (including swim step and anchor platform):	65' 9" (19.9m)
LWL	56' 8" (17.3m)
Beam:	17' 6" (5.33m)
Draft:	5' (1.52m)
Air draft (to top of radar arch):	17' (5.18m)
Displacements	
Minimum Operating Condition:	88,000 Lbs. (40,000kg)
Loaded Condition:	105,600 Lbs. (48,000kg)
Main Engines:	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:	17Kw, 60Hz Onan eQD (European model 13.5Kw, 50Hz)
Stabilizers:	ABT TRAC 7.5 Sq. Ft fins with winglets 250 model actuators
Fuel Tanks:	1450 USG (5,488 Liters) in two tanks
Water Tanks:	320 USG (1,211 Liters) in two tanks
Black Water Tank:	165 USG (625 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 Aqualloy 22 Hi-strength stocks  
CE-approved stainless steel portlights  
Stainless steel keel shoe – 8 ft long (2.4m)  
ZF-Faster Shaft Struts

### ***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 with relevant regulations  
Fixed transom wedge trim tab  
Stainless steel Fleming & “F” Logo on port & stbd forward roof supports  
Quickutter line cutters  
Exterior seating with EZ-Dri foam, Sunbrella upholstery, and mesh backs for drainage

## **AFT DECK AREA**

Cockpit with teak decking.  
Flush Powered lazarette hatch with hinge, gaskets, locks & gutters with drains  
Integral FRP Swim step, molded white non-skid surface. Stainless steel rub rail  
Storage locker in Step on Swim Step  
Stainless steel telescopic swim ladder. Can be deployed by swimmer  
Wide teak coaming around cockpit  
FRP skirt inboard of teak cap.  
Engine-room air intakes behind skirt and inside bulwarks  
Stainless steel ladder to flybridge with teak treads  
Sliding doors to salon. FRP with glass windows & weather strips  
Seadog style latches for doors  
Hot & cold shower fittings recessed on transom, with quick release shower head and flexi hose  
Salt water 316 Stainless steel faucet  
Fresh Water 316 Stainless steel faucet  
Smartplug Shorepower inlet 220v, 50A, (European model 230v, 32A) (Worldwide shorepower system accepts range 170-520v and 40-70Hz.)  
Overhead LED lights on dimmer (3)  
LED rope lighting under coaming skirt.  
Chocks at hull sides and transom.  
Deck scuppers piped out at boot stripe  
Hatch with stainless steel safety rail and steps down into engine room  
316 grade stainless steel handrail across transom  
Integral seats in port and stbd aft corners with teak tops  
Courtesy LED "F" logo lights at steps up to salon  
Stainless Steel Chocks and two heavy duty cleats, on port and stbd sides  
Stainless Steel Chocks and heavy duty cleat on transom, port and stbd sides

## **SIDE-DECKS**

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

Fuel fill fittings for both fuel tanks in recessed boxes on Port & Stbd house side  
Two Stainless Steel Chocks and four heavy duty cleats on port and stbd sides

### ***PILOT-HOUSE DECK LEVEL***

Portuguese Bridge

Teak rail cap

Locker doors in aft face of Portuguese bridge, access to large vented storage with Dri-Deck flooring

316 grade stainless steel handrail around forward side of pilothouse

316 grade stainless steel handrails at side of pilothouse Port & Stbd

Sliding aluminum pilothouse doors port & stbd with weather seals in stainless steel channels

Teak decks

Hinged doors through Portuguese bridge to foredeck – port & stbd

Individual Screen wash and heavy duty self-parking wipers on windshield

Clear, tempered 8mm glass, in forward facing windshields Pilothouse windows are fixed and have FRP frames

Inward opening doors on Portuguese Bridge side decks Port & Starboard

Stainless steel Fleming “F” logo’s on forward roof supports Port & Starboard

Black water tank suck out deck fitting on port and stbd sides

Two stainless steel fender tie fittings on port and stbd sides

Galley cooktop and microwave vent

### ***FOREPEAK***

Chain locker

Divider for port & stbd anchor chains

Watertight collision bulkhead

Forepeak drains directly overboard.

Bitter end fittings

Hatch scuppers

High gloss poly paint finish

Overhead LED light

Forward Shorepower circuit breaker

Dri-Deck flooring

Hinged sole boards

### ***FWD DECK***

Beige color non-skid deck

Cabin trunk with white non-skid finish. Drained and vented storage lockers. Hatch lids with gaskets

CE approved stainless steel hatch/skylight for forward cabin  
Teak rail cap on bulwarks increasing in width going fwd  
Stainless steel stanchions to support stainless steel handrail  
Stainless steel oval hand rail  
Deep deck lockers either side of anchor platform with white non-skid finish on lids  
FRP anchor platform with molded white non-skid finish and two sets of rollers  
Two 24v DC Maxwell RC12, windlasses with pendant control, wireless remotes, and control panels at both stations (P/H & F/B)  
300ft (91m) 7/16" ACCO Hi-Test galvanized chain  
100Lbs (45kg) Stainless steel Ultra Anchor with stainless steel Ultra swivel, Ultra Bridle with snubbers and chain hook  
Two stainless steel chocks and four heavy duty cleats on port and stbd sides  
316 grade stainless steel pulpit. Welds ground and polished.  
Foredeck LED "F" Logo courtesy lights at deck level  
Hatch to forepeak  
Smartplug Shorepower inlet for 220v, 60Hz, 50A, (European model 230v, 50 Hz, 32A)  
Socket for Plug-in windlass control  
Salt water 316 stainless steel faucet inside foredeck lockers  
Fresh water 316 stainless steel faucet inside foredeck lockers  
Deck drains plumbed to boot-stripe to prevent black streaks  
FRP forepeak vent  
Teak burgee pole

## ***FLYBRIDGE***

Lexan venturi with stainless steel rail & stainless steel base track  
Steering console with engine and thruster controls  
Stidd double helmseat with folding footrests, adjustable fore/aft position  
Electronics console  
Engine instrumentation & Monitoring System on 15" Boning color touchscreen  
Ritchie Compass with light & dimmer  
Hypro Electro/Hydraulic steering with destroyer-type stainless steel steering wheel  
Fire system repeater alarm  
Flybridge cushions on settees and helmseat using EZ-dri foam with Sunbrella upholstery and mesh backs for drainage  
Perfix snaps for attaching cushions  
L-Settee stbd side with high seat backs  
Beige color non-skid deck  
Satin teak table with Hi-lo and sliding stainless steel pedestal on stbd side  
Straight settee port side with high seat backs  
Hella LED navigation lights in accordance with relevant regulations  
Kahlenberg D-330 Air horn with twin trumpets, P449-25 Compressor/reservoir, V-149K 24v Solenoid valve

Two Mastervolt 24v to 12v DC-DC converters with 12v battery back-up system.  
FRP Radar arch with LED overhead lights  
Stainless steel signal mast with steaming, stern, and anchor lights, and aft facing Hella LED floodlight  
Stainless steel railings with mid safety rail  
Stainless Steel safety gate between flybridge and boat deck  
Dri-Deck flooring in storage areas and under seating  
ABT TRAC-LINK color touchscreen control panel for stabilizers  
Stainless steel safety rail by sliding hatch

### ***BOAT DECK***

Integrally molded beige non-skid on deck  
Integrated deck drains with gutter system  
316 grade stainless steel handrails.  
Removable mid-rail on port side for liferaft deployment  
1,000 lb capacity Steelhead ES 1000 davit with powered telescopic boom, luffing, hoisting and rotation  
Hinged CE approved Manship hatch to cockpit ladder  
GFCI 110v AC outlet (European model 230v AC, outlet RCD protected)  
Fresh Water faucet (316 Stainless steel)  
Stainless steel saddles for tender cradle (supplied loose)  
Aluminum plate inside deck for tender tie down at bow  
Pre-wiring for aft facing 24v DC LED flood lights, aft end of boat deck Port & Stbd  
Cabinet aft of port settee for storage or installation of optional appliances (BBQ, Fridge or Freezer)  
Stainless steel 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  
320 gal (1211 liters) Fresh Water tanks. 2 pcs polyethylene tanks with sight gages  
Aft shorepower inlet circuit breaker  
ASEA Frequency Converter accepts 170-520v, 40-70Hz (allowing worldwide use)  
Smoke Detector  
Starboard platforms and sole boards with stainless steel lifters

Dual 24v DC Gianneschi Fresh water pumps, pressure regulator, and flow sensor  
Fresh water system (debris) filter  
Fresh water tanks drain valve, with protective cover  
Fresh water tanks isolation valves  
Submersible bilge pump  
High bilge alarm

## ***ENGINE-ROOM***

Stainless Steel overhead handrails  
Bow thruster Main Switch panel and fuse  
Seatorque M4 BOSS (Bolt on shaft system) - an enclosed, oil lubricated, self-contained shaft and thrust bearing assembly. 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  
Fire retardant FRP fuel tanks (2).  
Solenoid operated sight gages on fuel tanks  
Equipment platforms  
Anti-vibration soft mounts for double mounted genset  
220v, 17Kw, 60Hz (European model 230v, 13.5Kw, 50 Hz) Onan eQD genset with sound shield and combined muffler/water separator for exhaust  
NIM module for genset – allows genset data to be displayed on Boring System  
Groco raw water strainers for engines, gensets, aircon, and all seawater intakes  
Main engine exhaust system with exhaust chambers and by-pass on transom  
Engine room heat extraction blowers (2)  
Heavy duty sound insulation covered with perforated aluminum  
Engine access hatches locked down on gaskets  
Fire suppression system with automatic engines/genset/blowers shutdown  
Automatically closing fire dampers on air inlets and discharge vents  
Heat detectors (3)  
Smoke Detector  
Bilges painted with gloss white polyurethane paint  
Sole board covered with Lonseal vinyl.  
Sole lifters stainless steel  
Fresh water coiled hose  
Submersible bilge pump  
Sump pump  
High bilge level alarm  
Start/stop buttons for both engines  
Lube oil pumps (2) for engines, transmissions and generator  
DC LED lighting  
110v GFCI electrical outlets (European model 230v AC, outlet RCD protected)  
Kahlenberg Horn Compressor

600 A/H house battery bank - 8 pcs Lifeline GPL- 6CT AGM (6 volt) batteries  
255 A/H port engine/genset starting battery bank – 2 pcs Lifeline GBL-8DL  
255 A/H stbd engine/genset starting battery bank - 2 pcs Lifeline GBL-8DL  
Drip pans underneath main engines  
Lead foam sound insulation  
Starboard platforms and sole boards  
Airtight FRP door with dog down latch and viewing port  
Air-conditioning compressors  
Gianneschi 24v DC high capacity sea water pump  
Ample Power alternator regulator, battery bank temp sensor and Dual Alternator Controller

## **INTERIOR**

Accommodation choices:

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

Or

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

Accommodation with three staterooms  
Hanging lockers lined with teak  
Insect screens for all opening windows, portlights and skylights  
Mobella interior door locks  
Cruisair reverse cycle air-conditioning with remote compressors and Qht controls  
All cabins pre-wired for intercom/phone system  
LED mood rope lighting behind valances, stairs and settees  
LED overhead lighting throughout  
Teak joinery with satin varnish hand-rubbed finish throughout  
Teak and holly sole throughout – hand-laid solid timber (not plywood)  
Light fixtures to have shiny stainless steel (chrome) finish  
Interior locker door handles to be brushed stainless steel finish  
Interior bulkheads feature sandwich construction with lead foam sound insulation  
Headroom 6’ 6 ½” (2.0m) minimum throughout  
Ultraleather headlining  
Interior bulkheads lower half teak, upper half Ultraleather



AC outlets and light switches to be Vimar brand with graphite grey faceplates  
All drawers constructed with dovetail joints  
Cabin & Head doors with gaskets

## **SALON**

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

## **GALLEY**

Granite (or Corian) countertops  
Black composite double sink  
Insinkerator waste disposal  
Convection microwave oven with cooktop overboard vent  
Three burner Miele flush mount induction cooktop  
Removable Stainless Steel potholders for cooktop  
20.5 cu ft side by side refrigerator/freezer  
Swivel faucet with removable spray head  
Overhead LED lighting  
Slide out trash bins  
Four Drawers with guides and stops  
Overhead Cabinets  
Air-conditioning  
Duplex 110v AC GFCI outlets (European model 230v AC, outlet RCD protected)

Granite splash back installed behind sink and cooktop  
Preparation for optional dishwasher – including AC power cables, circuit breaker,  
and F/W feed with valve  
Full height slide-out pantry stbd side  
Slide-out storage drawer above cooktop  
Teak slide-out deep storage drawers on aft arm of galley counter  
Swing-out “Magic” corner storage unit in outboard corner  
Storage cabinet under sink with automatic LED lighting

## ***PILOTHOUSE***

One Stidd 500XL low back Helm Seat with Chrome Package 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  
Engine instruments displayed on 15” color touchscreen screen on lower console  
with dedicated space for Autopilot control  
ABT TRAC-LINK color touchscreen control panel for stabilizers  
Horn control  
Air reservoir for air horn  
Back lit Boning EOP engine start & stop panels with transponder keys  
Electronic engine controls. Glendinning EEC 3 with back up gear and throttle with  
synchronizer  
Hypro Electro/Hydraulic steering system with Destroyer type steering wheel  
Back-up Steering system with dedicated pump and Pilothouse control panel  
Back-up rudder angle indicator  
Ritchie Compass with light & dimmer  
Overhead electronics console  
Wiring routes to facilitate equipment installation  
Overhead LED lighting with dimmer  
LED red and white dimmable bridge lights in upper console  
Stairs down to salon, up to flybridge  
Back lit electrical & Battery Master Switch panel  
Advisory panel  
Doors on electrical and advisory panels  
L-shaped settee on raised area  
Wooden window blinds on port & stbd windows (3) with teak retainers  
Teak table with single stainless steel leg and swivel  
File drawer  
Self-parking, heavy-duty wipers with multi-speed/intermittent controls & individual  
fresh water wash on forward-facing windows  
Windshield glass, clear, tempered, 8 mm thick  
Demister blower on forward facing windows

Control for bow thruster  
Hinged access panel to underside of flybridge console  
Air-conditioning  
Black water tank level indication and pump control via Boning Screen  
Generator start/stop & digital control panel  
Windlass up/down switch & control circuit breaker  
Fire system and high level bilge alarms  
Bilge pump control switches on advisory panel  
Pre-wired for intercom/phone system  
Imtra Sconce lights with shade – Atlas model  
In-Fill piece for P/H berth  
Smoke Detector inside Pilothouse console  
Fleming central monitoring system with Boning 15” color display screen on lower console – See systems for detailed description  
“Charcoal” Ultrasuede fabric on upper surface of consoles

## **ACCOMMODATION**

### ***PASSAGE***

Lower part of bulkhead finished with teak, upper part finished with Ultraleather  
Teak chair-rail trim at join  
Access doors to staterooms (option A)  
LED Rope lights at stairs to accommodation  
Overhead LED lighting  
Manual bilge pump under steps  
Bosch washer and Bosch drier in cabinet with louvered door

### ***FORWARD STATEROOM***

CE approved stainless steel hatch with powered Oceanair sliding insect and black-out screens  
Tapered queen-sized bed with hydraulic lift and manual slide  
Retainer device for sliding bed securing knob  
Upholstered Headboard  
Foam mattress  
Teak lockers either side of bed  
LED Rope lighting under bed and steps  
Two hanging lockers. Teak faced with louvered doors. Automatic interior lights  
TV space on bulkhead  
Drawers with center guides and stops  
Beveled-edge mirrors  
Door stops and holders.

Doors with teak frame with flat teak panels.  
Bulkheads with teak to waist height with Ultraleather above  
LED overhead lighting  
Berth LED reading lights  
CO detector  
Smoke Detector  
Drapes  
Emergency Escape telescopic ladder stored in port hanging locker  
Air-conditioning – Cruisair with Qht control panel

### ***PORT HEAD (en Suite)***

CE-approved Portlight with removable insect screen  
FRP shower stall with granite sole & seat and lockers  
Stainless steel framed glass custom shower doors  
Shower mixer, pressure and temperature compensated  
Stainless steel toiletries rack inside shower locker  
Marble or granite counter top with porcelain basin  
Hans-Grohe Faucets  
Beveled-edge mirrors  
LED overhead lighting  
110v AC GFCI outlet (European model 230v AC, outlet RCD protected)  
Planus toilet, white color.  
Ventilator fan  
Stainless steel towel rails  
Drapes  
Air-Conditioning inlet from cabin  
Lifting mirror above basin  
Trident Premium Sanitation hose  
Holding tank full indicator

### ***STBD GUEST CABIN (Accommodation Option A only)***

Stainless steel CE-approved portlights with removable insect screens  
Two up & over berths  
Hanging locker with auto-light.  
Nightstand with drawers  
110v AC outlet (European model 230v AC)  
Foam mattresses  
LED overhead lighting  
Berth LED reading lights  
LED Rope lighting and drape tracks at portlight openings.  
Full height beveled-edge mirror  
CO detector

Smoke Detector  
Drapes  
Air-conditioning – Cruisair with Qht control panel

### ***PORT STATEROOM***

Stainless steel CE-approved portlights with removable insect screens  
Twin berths, upper berth slides outboard when not in use  
LED rope lights under berths  
Full height beveled-edge mirror  
Hanging locker with auto light and louvered door  
Valance over portlights  
Foam mattresses  
110v AC outlets (European model 230v AC)  
Upholstered Headboards  
LED overhead lighting  
Bookshelves  
CO detector  
Smoke Detector  
Drapes  
Berth LED reading lights  
LED Rope lighting and drape tracks at portlight openings.  
Air-conditioning – Cruisair with Qht control panel

### ***GUEST HEAD***

CE-approved Portlight with removable insect screen  
FRP-lined shower stall with granite sole  
Stainless steel framed glass custom shower doors  
Lockers  
Shower mixer pressure and temperature compensated  
Marble or granite counter top with porcelain undermount basin  
Hans-Grohe Faucets  
Beveled-edge mirrors  
LED overhead lighting  
110v AC GFCI outlet (European model 230v AC, outlet RCD protected)  
Stainless steel towel rails.  
Planus toilet, white color.  
Ventilator fan  
Drapes  
Air-Conditioning inlet from cabin  
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, 24v DC reversing back-up pump, and pre-plumbed 24v DC reversing 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 HP Engines

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

Stabilizers - ABT TRAC 7.5 Sq. Ft fins with winglets and 250 model actuators, hydraulically operated locking pins, hydraulically driven sea water cooling pump, and color touchscreen control panel

Coolant recovery tanks on main engines

Sidepower SP240TC 15.5 HP (11.4 Kw) bow thruster with Sidepower Main Switch unit and jog lever controls at each station

4-blade Nickel Aluminum bronze propellers

Shaft struts – recessed “I” Brackets

Seatorque M4 BOSS (Bolt on Shaft System)

Transom/underwater exhaust mixing chamber

Fleming central monitoring system with Boning 15” color touch-screens in Pilothouse and Flybridge – see Systems for full description

## ***FUEL SYSTEM***

Fuel filters. Racor 75/1000MAX Duplex with vacuum gauges, and water-in-fuel sensors for main engines.

Racor 500MA fuel filter for generator

Two FRP fuel tanks made of vinylester and fire retardant resins with fire proof exterior coating

Total fuel capacity 1,450 USG (5,489 Liters)

Sight glasses on both fuel tanks with solenoid operation via push button

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

Fuel management panel for engine/genset supply return selection

Remote emergency fuel shut-off device for both tanks

Pressure type fuel level sensors connected to central monitoring system

## **PLUMBING**

### ***SANITARY***

Planus toilets, white color.

Toilets flush to FRP holding tank with level indicator

Toilet flushing with Seawater or Freshwater.

Anti-odor filters on holding tank vents Port & Starboard

165 USG (625 Liters) Black water tank

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***

320 USG (1211 Liters) total in two polyethylene tanks, with drain and isolation valves.

Sight glasses on water tanks

Dual 24v DC Gianneschi Fresh water pumps

20 USG (75 Liters) Torrid water heater with 220v AC heating element and heat exchanger coil, drain & pressure release valves.

Heat exchanger system and circulation pump for heating domestic water from port main engine

Fresh Water 316 stainless steel faucet on foredeck

Fresh Water 316 stainless steel faucet on flybridge

Fresh Water 316 stainless steel faucet in cockpit

Hans-Grohe interior faucets

Whale brand plumbing

Fresh water coil hose in engine room  
Pressure type level sensor connected to Boning monitoring system

### ***GREY WATER SYSTEM***

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

### ***SEA WATER SYSTEM***

Gianneschi 24v DC 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  
Manual bilge pump for engine room bilge compartment  
High level bilge alarm switches in lazarette, engine room, and forward bilge using USS type bilge pump/high level alarm float switches (3) connected to Fleming Central Monitoring Display  
2 pcs Whale gulper sump pumps

## **ELECTRICAL**

### ***ELECTRICAL – AC***

220v, 17Kw, 60Hz Onan eQD generator, single phase, in sound shield, double mounted on anti-vibration soft mounts, with NIM module (European model 230v, 13.5Kw, 50Hz)  
Remote distribution panels.  
Dedicated inverter compliant AC panel  
Remote controlled and monitored circuit breakers  
Digital meters (volts, amps, watts and frequency) and circuit breakers as required  
Two 220v, 50 amp shore inlets one forward and one aft connected so as both can be used simultaneously (European model has two 230v, 50Hz, 32A inlets)



ASEA frequency converter accepts shorepower range 170-520v and 40-70Hz, allowing worldwide use  
AC outlets throughout boat. GFCI type in heads, galley, engine room and exterior  
Vimar light switches and AC outlets with Graphite Grey Silk Faceplates  
3,500 watts, 110v 60Hz pure sine wave Outback inverter (European model has 3000 watts, 230v 50 Hz)  
Inverter bypass system  
Inverter remote control panel in pilothouse.  
Approved Marine Grade Tinned copper wire  
Hinged panels for serviceability

### ***ELECTRICAL – DC***

Main ships system 24v DC.  
Three isolated 24v battery banks– all batteries are Lifeline AGM type  
600 Ah house battery bank - 8 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  
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  
DC load distribution panels with remote circuit breakers, sub panels as required  
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  
Two Delstar 200 amp, 24v heavy duty, brushless, auxiliary alternators with Ample Power regulator, and dual alternator controller  
600 A/H house battery bank - 8 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 and buss bars or cable connecting all thru-hulls, underwater fittings, pulpit and flybridge rails – (equipotential bonding system)  
Zincs on transom (2)

Copper strapping system in engine room, flybridge and pilothouse for SSB radio counterpoise

### ***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  
Optional iPad remote access

System monitors/displays the following parameters:

All MAN (or Cummins) engine data and alarms - analog, digital and graphic view  
Navigation lights (monitoring and control) with back-up control panel  
Bilge pumps  
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  
Port and Stbd Seatorque shaft oil temperature  
Engine room, sea water & exterior ambient air temperature  
Fresh water system pressure  
Fresh water system flow  
Seawater system pressure  
Seawater system flow  
Engine room blowers  
Engine room door  
Lazarette hatch  
Cablemaster (in/out)  
Passarelle (in/out)  
Engine room lights  
Steering pump  
Back-up steering pump  
Engine controls  
Watermaker (if installed)  
Main engines seawater flow sensing  
Hydraulic cooling seawater flow sensing (if installed)

Genset engine data  
Wind speed & direction  
GPS (SOG, COG & Position)  
Range  
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.

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

## **CONSTRUCTION STANDARDS**

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

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

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

**Australia** - Australian Standard 1799.1-2009

**Canada** - Transport Canada TP1332E 04/2010

## **MANAGEMENT & ENVIRONMENT**

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

## **AFTERWORD**

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

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