

30th March 2011  
Version #46

## **Fleming 55 - Pilothouse Motor Yacht**

### **SPECIFICATIONS**

#### **General Description**

LOA (hull):	55' 9" (16.99m)
LOA (including swim step and anchor platform):	60' 9" (18.50m)
Beam:	16' (4.88m)
Draft:	5' (1.52m)
Air draft (to top of radar arch):	16' (4.88m)
Displacements	
Minimum Operating Condition:	67,801 Lbs. (30,754kg)
Loaded Condition:	80,178 Lbs. (36,368kg)
Main Engines:	Twin Cummins QSC 8.3 500 hp (2.2 architecture)
Transmission:	Twin Disc MG5075A
Reduction Ratio:	2.53:1
Engine Controls:	Glendinning EEC3 (with back-up system)
Generator:	17Kw, 60Hz Onan eQD (European model 13.5Kw, 50Hz)
Fuel Tanks:	1000 USG (3785 Liters) in four tanks
Water Tanks:	300 USG (1135 Liters) in four tanks
Black Water Tank:	100 USG (378 Liters)

## **SPECIFICATIONS BY AREA OR GROUP**

### ***HULL***

Solid laminate, commensurate for hull size, made in female mold.  
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 Petit 1088 GA antifouling paint  
Integrally molded guard with s/s rub strip  
Keel extends below running gear  
Keel space filled and sealed across top  
FRP rudders with Aqualloy 22 Hi-strength stocks  
CE-approved S/S portlights  
S/S keel shoe – 8 ft long (2.4m)  
ZF-Faster Shaft “A” Struts

### ***DECK AND SUPERSTRUCTURE CONSTRUCTION***

All parts made from molds.  
Corecell Cored construction with Cook gel coat

## **EXTERIOR**

S/S trim around roofs, on forward teak cap rail, and guard  
Italian made exterior locks  
S/S Aquasignal navigation and anchor lights

### ***AFT DECK AREA***

Cockpit with teak decking.  
Flush lazarette hatches with hinges, gaskets, locks & gutters with drains  
FRP Swim step, with s/s brackets. Molded non skid surface. S/S rub rail  
Stainless steel telescopic swim ladder under swimstep. 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

S/S 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 on inside of transom adjacent to door, with quick release shower head and flexi hose  
Salt water 316 S/S faucet  
Fresh Water 316 S/S faucet  
Shorepower inlets for 110/220v, 60Hz, 50A, (European model 230v, 50 Hz, 32A)  
Shore inlets for Telephone & TV.  
Overhead low voltage lighting.  
LED rope lighting under coaming skirt.  
Chocks at hull sides and transom.  
Two 14" s/s heavy duty cleats secured to plates inside bulwarks  
Deck scuppers piped out through transom at boot stripe  
Hatch with steps down into lazarette for access to engine room  
316 grade S/S handrail across transom

### ***SIDE-DECKS***

Teak decking  
316 grade S/S handrails along house-side  
Teak rail cap on bulwarks  
Bulwark doors opening inboard with Seadog style latches and bolts  
Nonskid on top side of guard at boarding gates  
S/S overhead lights. Two per side.  
Courtesy LED "F" logo lights at steps up to Portuguese deck  
S/S 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 & Pantry windows sliding with tinted, tempered glass and FRP frames  
Two sets of spring-line chocks per side  
Three Hereschoff style s/s cleats/chocks per side recessed into bulwarks  
Fuel fill fittings for four fuel tanks

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

Portuguese Bridge  
Teak rail cap  
Locker doors in aft face of Portuguese bridge  
316 grade S/S handrail around forward side of pilothouse  
316 grade S/S handrails at side of pilothouse Port & Stbd  
Sliding aluminum pilothouse doors P & S with weather seals  
Teak decking  
Hinged doors through Portuguese bridge to foredeck

Individual Screen wash and heavy duty self-parking wipers on windshield  
Clear, tempered 9mm glass, in forward facing windshields  
Pilothouse windows are fixed and have FRP frames  
Inward opening doors on Portuguese Bridge side decks Port & Starboard  
New style Fleming "F" logo's on forward roof supports Port & Starboard

### ***FOREPEAK***

PVC Chain tube  
Separate stowage for chain and rope  
Watertight collision bulkhead  
Forepeak drains directly overboard.  
Bitter end fittings  
Hatch scuppers  
High gloss poly paint finish  
Overhead light

### ***FWD DECK***

Teak deck  
Two s/s CE approved skylights  
Teak rail cap on bulwarks increasing in width going fwd  
S/S stanchions to support teak handrail  
Teak hand rail  
Deck lockers forward either side of anchor platform.  
FRP anchor platform with integrally molded non-skid and two sets of rollers  
Lofrans Falkon 24v DC, 1500 watt windlass with pendant control and remotes at both stations (P/H & F/B)  
Four s/s Hereschoff cleats  
Two 14" s/s cleats per side.  
316 grade S/S pulpit diameter tube. Welds ground and polished.  
Foredeck LED "F" Logo courtesy lights at deck level  
Hatch to forepeak  
Shorepower inlets for 110/220v, 60Hz, 50A, (European model 230v, 50 Hz, 32A)  
Shore inlets for Telephone & TV.  
Plug in for windlass control  
Salt water 316 S/S faucet inside foredeck lockers  
Fresh water 316 S/S faucet inside foredeck lockers  
Deck drains plumbed to boot-stripe to prevent black streaks  
FRP forepeak vent

## ***FLYBRIDGE***

Lexan venturi with s/s rail  
Steering console with engine controls  
Helmseat for two persons at control station  
Electronics console  
Engine instrumentation  
Ritchie Compass with light & dimmer  
Hydraulic steering with destroyer-type wheel  
Rudder angle indicator with light and dimmer  
AC source light  
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  
Table stbd side with drink holders  
Straight settee port side  
Aquasignal navigation lights in accordance with appropriate Collision regulations  
Buell air horn with twin trumpets  
Two Mastervolt 24v to 12v DC-DC converters with 12v battery back-up system.  
FRP Radar arch with spreader lights  
S/S signal mast with bow and anchor lights and aft facing floodlight  
Dumb waiter pass-thru from galley to flybridge  
S/S railings with mid safety rail  
Main engine sea water flow alarms

## ***BOAT DECK***

Integrally molded beige non-skid on deck  
316 grade S/S handrails.  
1,000 lb capacity Steelhead ES 1000 davit with powered telescopic boom, luffing, hoisting and rotation  
Sliding hatch to cockpit ladder  
GFCI 110v AC outlet (European model 230v AC, outlet RCD protected)  
Fresh Water faucet (316 S/S)  
S/S saddles for tender (supplied loose)  
Aluminum plate inside deck for tender tie down

## ***LAZARETTE***

Steering gear.  
Deck and hatch scuppers  
Hull finished with gloss white polyurethane paint

Overhead lights s/s  
300 gal (1135 liters) Fresh Water tanks. 4 pcs polyethylene  
Air-conditioning compressors  
Aft shorepower inlet circuit breakers  
Battery master switch panel  
Aft & main DC electrical panels  
Bow thruster Main Switch panel and fuse  
Charles AC Master controller  
Starboard platforms and sole boards with s/s lifters  
Groco raw water strainers for aircon

### ***ENGINE-ROOM***

Fresh water pumps & inlet filter  
Seatorqe BOSS (Bolt on shaft system)  
Fire retardant FRP fuel tanks (4). With sight gages  
Equipment platforms  
220v, 17Kw, 60Hz (European model 230v, 13.5Kw, 50 Hz) Onan eQD genset  
with sound shield and combined muffler/water separator for exhaust  
Groco raw water strainers for engines gensets aircon and all seawater intakes  
Main engine exhaust system with water-lock muffler  
Engine room heat extraction blowers (2)  
Heavy duty sound insulation covered with perforated aluminum  
Engine access hatches locked down on gaskets  
Emergency release latch on engine room forward hatch  
Fire suppression system with auto engines/genset/blowers shutdown  
Heat detectors (2)  
Bilges painted with glossy white poly paint  
Sole board covered with Lonseal vinyl.  
Sole lifters s/s  
Fresh water coiled hose  
Submersible bilge pump  
Hi-bilge alarm  
Start/stop buttons for both engines  
Lube oil pumps (2) for engines, transmissions and generator  
AC and DC lighting  
110v GFI electrical outlets (European model 230v AC, outlet RCD protected)  
Buell Horn Compressor  
Anti-vibration soft mounts for genset  
Charles Isolation transformers (2)  
440 A/H house battery bank - 8 pcs Lifeline GC4 AGM (6 volt) batteries  
220 A/H port engine/genset starting battery bank  
220 A/H stbd engine/genset starting battery bank  
FRP drip pans underneath main engines  
S/S mirror finished plates on inboard face of aft fuel tanks

Lead foam sound insulation  
Starboard platforms and sole boards  
Airtight FRP door with dog down latch and viewing port

## **INTERIOR**

Accommodation with three staterooms  
Hanging lockers lined with Formica  
Insect screens for all opening windows, portlights and skylights  
German made interior door locks  
Non-slip treads on all interior stairs  
Cruisair reverse cycle air-conditioning with remote compressors and SMX-HT 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  
Light fixtures to have shiny s/s (chrome) finish  
Interior locker door handles to be brushed s/s finish  
Interior bulkheads feature sandwich construction with lead foam sound insulation

Standard three stateroom accommodation includes master cabin forward (en-suite) with two hanging lockers, port cabin with twin berths & hanging locker, stbd cabin with upper & lower berths & hanging locker, guest head to stbd.

## ***SALON***

Fixed windows in house sides  
Opening windows in galley and pantry, with removable insect screens  
Sliding doors at aft end  
Spring loaded barrel bolts to allow phantom screen installation  
Medium grey tinted, tempered, glass.  
Wood window blinds  
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.  
Vinyl headliner  
CO detector  
Upholstered L Settee  
Fleming Hi-Lo oval table with teak top  
FRP sandwich with Nidacore honeycomb composite sole

Air-conditioning  
Aft bar cabinet with icemaker  
Removable storm sill for aft doors  
Teak Sconce lights with tapered shade  
Entertainment centre, teak cabinetry & lockers full length from galley refer to aft bulkhead

## ***GALLEY***

Granite (or Corian) countertops  
Black composite double sink  
Insinkerator waste disposal  
Convection microwave oven  
Kenyon 3 burner flush cooktop with s/s potholders  
20.5 cu ft side by side refrigerator/freezer  
Grohe swivel faucet with removable spray head  
Overhead light fixtures  
Grohe swivel faucet with removable spray head  
Slide out trash bin  
Drawers with guides and stops  
Cabinets  
Air-conditioning  
Duplex 110v AC GFI outlets (European model 230v AC, outlet RCD protected)  
Dishlocker at stbd side  
Granite splash back installed behind sink and cooktop  
Preparation for optional dishwasher

## ***PILOTHOUSE***

Stidd 500XL low back Helm Seat with Chrome Package and black Ultraleather upholstery  
Chart table with double-guide drawers and stops  
Chart light on flexible arm  
Dismountable control console with space for owner supplied electronics  
Engine display screens on lower console  
Horn control  
Air reservoir for Buell air horn  
Rudder angle indicator with light & dimmer  
Back lit engine start & stop buttons  
Electronic engine controls. Glendinning EEC 3 with back up gear and throttle with synchronizer  
Hydraulic steering with Destroyer type steering wheel  
Ritchie Compass with light & dimmer  
Overhead electronics console

Wiring routes to facilitate equipment installation  
Overhead light fitting with dimmer  
LED red and white dimmable bridge lights in upper console  
Stairs down to salon, up to flybridge  
Back lit electrical distribution panels for AC and DC  
Alarm and advisory panel  
Doors on AC, DC and advisory panels  
L-shaped settee on raised area  
Wooden window blinds on port & stbd windows (3)  
Teak table with single s/s 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, 9 mm thick  
Vinyl headliner  
Demister blower on forward facing windows  
Control for bow thruster  
Hinged bookcase for access to underside of flybridge console  
Air-conditioning  
ITIM Black water tank level indication and pump control panel  
Generator digital control panel  
Windlass up/down switch & control circuit breaker  
Fire system and high level bilge alarms panel  
Bilge pump control on advisory panel  
Equipment running advisory panel  
Pre-wired for intercom/phone system  
Dimmer for instrument lighting  
Main engine sea water flow alarms  
Teak Sconce lights with tapered shade  
LED overhead lighting with dimmer  
Fleming central monitoring system with Boning 6.3" color display screen, displays  
fuel & water tank levels, navigation light monitor, hi-bilge level alarm, heat  
detectors, engine room door, genset/s and shore power live indicators and bilge  
pump running indication.

## **ACCOMMODATION**

### ***PASSAGE***

Lower part of bulkhead finished with teak, upper part finished with Formica. Teak chair-rail trim at join  
Access doors to staterooms  
Rope lights at stairs to salon and forward cabin  
Overhead LED lighting  
Manual bilge pump under steps  
Bosch washer and vented drier in cabinet behind sliding door

### ***FORWARD STATEROOM***

Four s/s CE-approved Portlights with removable insect screens  
CE approved S/S skylights (2) with sliding insect and black-out screens  
Tapered queen-sized bed with hydraulic lift and manually slide  
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 teak frame with flat teak panels.  
Bulkheads with teak to waist height with Formica above  
LED overhead lighting  
Berth reading lights.  
CO detector  
Drapes  
Emergency Escape hatch with integral ladder

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

CE-approved Portlight with removable insect screen  
FRP shower stall with granite sole, auto sump pump, & seat and lockers  
S/S and glass custom shower doors  
Grohe Shower mixer, pressure and temperature compensated  
S/S Toiletries rack inside shower locker  
Marble or granite counter top with porcelain basin  
Grohe Faucets  
Beveled-edge mirrors

LED overhead lighting  
110v AC GFI outlet (European model 230v AC, outlet RCD protected)  
Headhunter pressure-jet toilet. Bone color.  
Ventilator fan  
S/S towel rails  
Drapes

### ***STBD GUEST CABIN***

S/S CE-approved portlights with removable insect screens  
Two berths, upper berth slides outboard when not in use  
Hanging locker with auto-light.  
Nightstand with drawers  
110v AC outlet (European model 230v AC, outlet RCD protected)  
Foam mattresses  
LED overhead lighting  
Berth reading lights  
LED Rope lighting and drape tracks at portlight openings.  
Full height beveled-edge mirror  
Pocket entrance door  
CO detector  
Drapes

### ***PORT STATEROOM***

S/S CE-approved portlights with removable insect screens  
Twin berths  
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, outlet RCD protected)  
Upholstered Headboards  
LED overhead lighting  
Bookshelves  
CO detector  
Drapes  
Berth reading lights  
LED Rope lighting and drape tracks at portlight openings.

## ***GUEST HEAD***

CE-approved Portlight with removable insect screen  
FRP-lined shower stall with granite sole  
S/S and glass custom shower doors  
Lockers  
Grohe shower mixer pressure and temperature compensated  
Marble or granite counter top with porcelain basin  
Grohe Faucets  
Porcelain basins  
Beveled-edge mirrors  
LED overhead lighting  
110v AC GFI outlet (European model 230v AC, outlet RCD protected)  
S/S Towel rails.  
Headhunter pressure-jet toilet. Bone color.  
Ventilator fan  
Drapes

## **SYSTEMS**

### ***STEERING***

Hynautic hydraulic steering  
FRP rudders with Aqualloy 22 stocks  
Destroyer wheel at flybridge and in pilothouse  
Back lit rudder angle indicators at pilothouse and flybridge stations

### ***ENGINE CONTROLS***

Glendinning EEC 3 electronic engine controls at pilothouse and flybridge, with full back up system and synchronizer.

### ***MACHINERY***

Cummins QSC 8.3 500 HP Engines (2) with digital Vessel View displays at pilothouse & flybridge helm stations  
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  
ZF-Faster 4-blade Nickel Aluminum bronze propellers  
Shafts Aqualloy 22 Hi-Strength 2 1/4"  
Cutless-type shaft bearings  
Shaft struts – recessed A-Brackets  
Seatorque BOSS (Bolt on Shaft System)  
Water-lock muffler with transom exhaust  
Bennett trim tabs with indicators and controls in Pilothouse and Flybridge  
Fleming central monitoring system with Boning 6.5" color display screen

### ***FUEL SYSTEM***

Fuel filters. Racor 75/900MAX Duplex with vacuum gauges, and water-in-fuel sensors for main engines.  
Racor 500MA fuel filter for generator  
4 FRP fuel tanks made of vinylester and fire retardant resins with fire proof exterior coating  
Total fuel capacity 1,000 USG (3785 Liters)  
Sight glasses on all fuel tanks with self-closing safety valves  
Fuel tank sumps and drains with shut-off valves on all tanks  
Fuel management panel for engine/genset supply return selection  
Remote emergency fuel shut-off device for all tanks  
Pressure type fuel level sensors connected to central monitoring system

## **PLUMBING**

### ***SANITARY***

Headhunter Neo-classic heads, Bone color.  
Toilets flush to FRP holding tank with level indicator or directly overboard  
Toilet flushing for both Seawater and Freshwater.  
Anti-odor filters on holding tank vents Port & Starboard  
100 gal (378 Liters) Black water tank  
24v DC Sealand macerator pump  
ITIM Tank monitoring / pump control 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

### ***FW SYSTEM***

300 USG (1135 Liters) total in four polyethylene tanks, with drain and isolation valves.  
Sight glasses on water tanks  
X-Caliber 24v DC Headhunter Fresh water pump  
Pre-plumbed & wired, back-up X-Caliber 24v DC Headhunter Fresh water pump  
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 S/S faucet on foredeck  
Fresh Water 316 S/S faucet on flybridge  
Fresh Water 316 S/S faucet in cockpit  
Grohe interior faucets  
Whale brand plumbing  
Whale gulper shower sump pumps  
Fresh water coil hose in engine room  
Pressure type level sensor connected to central monitoring system

### ***SW SYSTEM***

X-Caliber 24v DC Headhunter seawater pump and strainer  
Salt water 316 S/S faucet on foredeck  
Salt water 316 S/S 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 Rule electric bilge pumps with auto/man control  
Manual bilge pump for engine room bilge compartment  
Hi-level bilge alarm switches in lazarette, engine room, and forward bilge

## **ELECTRICAL**

### ***ELECTRICAL – AC***

220v, 17Kw Onan eQD generator, single phase, in sound shield mounted on anti-vibration soft mounts (European model 230v, 13.5Kw, 50Hz)  
Load distribution panel. Split panel system. Sub panels as required  
Digital meters (volts, amps, watts and frequency) and circuit breakers as required  
Two 110/220v, 50 amp shore inlets fore and aft connected so as both can be used simultaneously (European model has two 230v, 50Hz, 32A inlets)  
AC outlets throughout boat. GFI type in heads, galley, engine room and exterior  
Intra light switches and dimmers.  
3,500 watt, 110v 60 Hz pure sine wave Outback inverter (Euro model 3000 watt, 230v 50 Hz)  
Inverter bypass system  
Inverter remote control panel in pilothouse.  
Charles Isolation & step-up transformers (110/220v) (2)  
Tinned copper wire used throughout

### ***ELECTRICAL – DC***

Main ships system 24v DC.  
Three isolated battery banks  
12v DC via two 24v-12v DC-DC converters & back-up battery system located on flybridge  
Battery disconnect and selector switches accessible from outside engine room  
Mastervolt battery charger for engine/genset & house battery banks. (24v)  
DC load distribution center with breakers.  
Flexnet battery monitor – info displayed on Outback Mate remote panel in P/H  
Alarm panel for engine functions, bilge, fire, sea-water flow etc  
Advisory indicators for key pumps and engine room lights  
110 amp 24v Leece-Neville alternators on each engine with Balmar multi-stage external regulator  
440 A/H house battery bank - 8 pcs Lifeline GC4 AGM (6 volt) batteries  
Tinned copper wire used throughout  
Aft DC electrical panel in Lazarette  
LED overhead lighting throughout

## ***ELECTRICAL – BONDING***

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

## ***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 SMX HT 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

## **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.

**Australian – New Zealand** - 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 or 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.