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## Fleming 78

### Fleming 78 - Pilothouse Motor Yacht SPECIFICATIONS

#### General Description

LOA (hull): 77' 8" (23.66m)

LOA (including swim step  
and anchor platform): 81' 6" (24.84m)

LWL: 72' 4" (22.05m)

Beam: 21' 5" (6.5270m)

Draft: 5' (1.52m)

Air draft (to top of radar arch): 21' 8" (6.60m) (without mast)  
Height from bottom of keel to top of radar arch 26'8" ((without mast)

#### Displacements

Minimum Operating Condition: 165,048 Lbs. (74,865kg)

Loaded Condition: 197,800 Lbs. (89,721kg)

Main Engines: Twin MAN V12-1550 HP

Transmissions: ZF 2050A or Twin Disc MGX6599A with electric shift and troll valves

Reduction Ratio: 2.467:1 (ZF) or 2.48:1 (TD)

Engine Controls: Glendinning EEC3 (with back-up system)

Generators: Two Onan eQD 32 Kw 220v, 60Hz  
(European model 27Kw 230v 50Hz)

Fuel Tanks: 3,000 US gals (11,356 Liters)  
in four Fiberglass tanks

Water Tanks: 310 USG (1173 Liters)  
Black Water Tank: 230 USG (870 Liters)  
Grey Water Tank: 230 USG (870 Liters)  
Lube Oil Tanks (2) 95 USG (359 Liters)

#### SPECIFICATIONS BY AREA OR GROUP

##### HULL

Solid laminate construction, commensurate for hull size, made in female mold.  
Vinylester resin used for outer laminations



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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 Petit 1088 GA antifouling paint  
Integrally molded guard with stainless steel rub strip  
Keel extends below running gear  
Keel space filled and sealed across top  
Solid stainless steel rudders with Aqualoy 22 Hi-strength stocks  
CE-approved stainless steel portlights  
Stainless steel keel shoe  
ZF Faster I struts  
Shaft Tunnels - draft 5ft (1.52m)

### **DECK AND SUPERSTRUCTURE CONSTRUCTION**

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

### **EXTERIOR**

Stainless steel trim around roofs, on forward teak cap rail, and guard  
Italian made exterior locks  
LED navigation lights in accordance with appropriate Collision regulations  
Enclosed shower fittings convenient to inward-opening transom door  
Teak decks

### **AFT DECK AREA**

Walk-in access to engine-room and crew's quarters  
Covered California deck with seating, table and serving counter  
Cockpit with teak decking.  
Flush lazarette hatches with hinges, gaskets, locks & gutters with drains  
FRP Swim step, with molded non-skid surface and Stainless steel rub rail  
Stainless steel telescopic swim ladder, can be deployed by swimmer  
Wide teak coaming around cockpit  
FRP skirt inboard of teak cap  
Electric warping winches  
Engine-room air intakes behind skirt and inside bulwarks  
Curved oval-section Stainless steel ladder to flybridge boat deck 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 Shore power inlets - 220v, 60Hz, 50A (European model 230v, 50 Hz, 32A)  
Overhead lighting.  
LED rope lighting under coaming skirt  
Chocks at hull sides and transom (4)  
Six 15" heavy duty Stainless steel cleats secured to plates inside bulwarks  
Deck scuppers piped out through transom at bootstripe  
Hatch with steps to engine room  
Integrally molded seats  
316 grade Stainless steel handrails across transom  
Courtesy LED "F" logo lights at step up to CA Deck  
CCTV Camera with full pan, tilt & zoom feature connected to central monitoring system connected to central monitoring system

### **SIDE-DECKS**

Wide side decks along both sides of boat with teak decking  
316 grade stainless steel handrails along house-side  
Teak rail cap on bulwarks  
Bulwark doors opening inboard with Seadog style latches and bolts  
Stainless steel overhead lights  
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 with tinted, tempered glass and FRP frames  
Two sets of spring-line chocks per side  
Five 15" heavy duty Stainless steel cleats per side, recessed into bulwarks  
Non-spill fuel fills in steps port and stbd, with custom stainless steel "F" logo lids. Can fill all fuel tanks from port or stbd fills

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

Teak decking  
Portuguese Bridge  
Teak rail cap  
Ventilated storage lockers in aft face of Portuguese bridge  
316 grade stainless steel handrail around forward side of pilot house.  
316 grade stainless steel handrails at side of pilothouse Port & Stbd  
Sliding Aluminum pilothouse doors with Stainless steel weather seals  
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 9mm glass, in forward facing windshields  
Pilothouse windows are fixed and have FRP frames  
Inward opening doors on Portuguese Bridge side decks Port & Starboard

### **FOREPEAK**

Accessed through hatch on fwd deck  
Twin chain bins each with capacity of 400 ft. (120 meters) of ½" chain  
Chain and rope lockers with removable stainless steel access plate, chain pipes & rollers  
Watertight collision bulkhead  
Forepeak drains directly overboard.  
Bitter end fittings  
Hatch scuppers  
High gloss poly paint finish  
Overhead light  
Access to hydraulic windlass mechanism  
Chain wash solenoid

### **FWD DECK**

Teak decks  
Cabin trunk with one large CE approved stainless steel skylight to forward cabin  
Stainless steel handrail on cabin trunk  
Teak rail cap on bulwarks increasing in width going fwd  
Stainless steel 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  
Twin Maxwell 3500 hydraulic anchor windlasses with pendant control and remotes at both stations (P/H & F/B)  
176 Lbs. (80Kg) S/S Ultra Anchor with Stainless steel Ultra Swivel, Ultra Chain hook & bridle  
400ft ½: ACCO Hi-Test Chain  
Anchor platform with twin anchor rollers and chain stopper  
Fleming white Non-skid on top of cabin trunk.  
Eight 15" heavy duty Stainless steel cleats  
Stainless steel roller chocks  
316 grade stainless steel pulpit. Welds ground and polished.  
Foredeck LED "F" logo lights at steps through gates thru Portuguese bridge.  
Hatch to forepeak  
Two 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  
Plug in for windlass control  
Deck drains plumbed to boot-stripe to prevent black streaks  
Stainless steel, CE-approved portlights  
Foot switch for chain wash system

### **FLYBRIDGE**

Two-level with: L-settee, bench seating, Stidd helmseat  
Control station with electronic engine controls and engine display panels  
Powered hydraulic steering with destroyer-type wheel  
Rudder angle indicator with light and dimmer  
Retractable electronics console  
LED rope lighting inside console  
Lexan venturi with Stainless steel rail  
FRP Radar arch with spreader lights  
Lower level has straight & L-settees and table with Corian or granite counter top  
Entertainment center with dual electric BBQ's, sink, refer and icemaker  
Flybridge cushions on settees with EZ-Dri foam, Sunbrella upholstery and mesh backs for drainage  
Perfix snaps for attaching cushions  
Buell air horn with twin trumpets and double reservoir  
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  
Fire system repeater alarm  
CCTV Camera with full pan, tilt & zoom feature connected to central monitoring system connected to central monitoring system  
Boning/Fleming Central monitoring system with 15" color touch-screen

### **BOAT DECK**

Integrally molded beige non-skid on deck  
316 grade Stainless steel handrails  
1,500 lb capacity Steelhead ES1500 davit with powered luffing, hoisting, telescopic boom, and rotation  
Hinged hatch to cockpit ladder  
GFCI 110v AC outlet (European model 230v RCD protected)  
Boat deck with access from flybridge and from California deck  
Fresh Water 316 stainless steel faucet  
Stainless steel saddles for tender rails (supplied loose)

### **TECHNICAL SPACES**

#### **LAZARETTE**

Accessed through two lockable hatches in cockpit  
Steering gear  
Hypro Marine hydraulic power pack on anti-vibration mounts with FRP drip tray  
Deck and hatch scuppers  
Hull finished with gloss white polyurethane paint  
Overhead lights  
500 USG total capacity in three fresh water tanks  
Aft shorepower inlet circuit breakers  
Starboard platforms and sole boards with s/s lifters  
Cablemasters with 85ft. of cable port & stbd  
Sounddown noise reducing material installed on top of prop tunnels  
Crew 10 USG (37 Liters) water heater

#### **MACHINERY SPACE (ACCESSED FROM FORWARD LOBBY)**

Two 20 USG Torrid water heaters  
Black water tank and pumps  
Fresh water and sea water pumps  
Grey water tank and pumps  
Storage lockers  
Two stacked Outback 3,500 watt Inverters with by-pass system  
Bowthruster and associated hydraulics  
AC and DC lighting  
Bilge pump  
House battery bank Lifeline AGM 12 pcs P/N GPL-L16T (1200 A/H's @ 24v)  
AC system & shorepower control equipment  
Isolation-boosting transformers  
Air conditioning equipment for cabins including VFD's for salon and pilothouse aircon compressors  
Fire detection and suppression systems  
Machinery space is ventilated and sound proofed  
Sump pump  
Air-Conditioning for Machinery Space

CCTV Camera with full pan, tilt & zoom feature connected to central monitoring system connected to central monitoring system

## **ENGINE ROOM**

Accessed from aft lobby via stairs down from port side-deck  
Full standing headroom  
MAN V12-1550 Engines with 220v block heaters  
Electric fuel priming pumps  
Aquadriives CV Joints and thrust bearings  
Fiberglass drip pans with lighting  
32Kw Onan generators  
Work bench with Stainless steel top and storage drawers  
Spare parts storage bins  
Bilge pump  
Sump pump  
Primary and back-up Fresh water pumps  
Exhaust system using U.S-made components  
Fuel transfer system with pump, filter and fuel flow totalizer  
Lube oil transfer system  
Lube oil tanks (2)  
Fire detection and suppression system with auto engines/genset/blowers shutdown  
Freshwater fill hose  
Stabilizer actuators  
Engine/generator start batteries - Lifeline AGM type  
Fire retardant FRP fuel tanks (4). 3,000 USG total capacity, with sight gages  
Heavy duty sound insulation covered with perforated aluminum  
Groco raw water strainers for engines gensets aircon and all seawater intakes  
Equipment platforms  
Bilges painted with glossy white poly paint  
Hinged shaft covers  
Sole board covered with Lonseal vinyl.  
AC and DC lighting  
110v GFI electrical outlets (European model 230v RCD protected)  
Double platform Anti-vibration soft mounts for genset  
220 A/H port engine/genset starting battery bank - Lifeline AGM type  
220 A/H stbd engine/genset starting battery bank - Lifeline AGM type  
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 with viewing port  
Starboard platforms and sole boards  
Lead foam sound insulation  
Air-conditioning compressors  
16,000 BTU Air-conditioning for engine room  
Two CCTV cameras with full pan, tilt & zoom feature connected to central monitoring system

## **INTERIOR**

### **GENERAL**

Teak and holly soles throughout  
LED Recessed lighting throughout  
LED mood rope lighting  
Wood mini-blinds in recesses  
Ultra-leather or Ultrasuede headliner  
All interior lights, locker pulls and hinges to be Stainless steel finish  
Raised teak panels on all cabinet doors throughout (including crew cabin)  
Raised teak panels on cabin doors in accommodation  
Headroom 6' 6" (1.97m) minimum throughout

### **PILOTHOUSE**

Chart table with chart light and drawers  
Overhead and lower consoles with ample space for full range of electronics  
Backlit AC & DC electrical panels  
Engine instrumentation panel  
Boning/Fleming Central monitoring system with 15" color touch-screen  
Glendinning electronic controls with back-up system  
Stidd helmseat with Black Ultraleather upholstery

L-settee on raised platform with large teak table  
Day head with toilet, washbasin and opening portlight  
Stairs down to galley  
File drawer with heavy duty Stainless steel sliders  
Pilothouse air-conditioning which can run on inverters  
Windshield glass, clear, tempered, 10 mm thick

### **GALLEY**

Granite work surfaces  
Under-mount black composite double sink  
Garbage disposer  
Instahot dispenser for instant hot and cold filtered water  
Miele oven  
Miele 18" wide Dishwasher  
Convection over-the-range microwave  
Sub-Zero refrigerator with two freezer drawers  
Trash compactor  
Four-burner induction cooktop with 2 burners wired to inverter  
Custom Stainless steel pot holders  
Ample drawers and locker with overhead storage lockers  
LED rope lighting inside galley sink cabinet

### **DINING AREA**

Large teak oval dining table  
Curved banquette seating  
Sideboard with glass doors  
Custom overhead lighting fixture with concealed and dimming lighting over table

### **SALON**

Entertainment centre with cabinets and bookshelves along stbd side  
TV cabinet at starboard aft corner with TV Lift (Bennett Ram type, TV not included)  
L-settee to port  
Bar cabinet with granite counter, sink, combo fridge/icemaker, and bottle storage  
Teak coffee table with storage locker  
Ultraleather or Ultrasuede headliner  
Aft sliding doors open to covered California deck at same level as salon

## **ACCOMMODATION**

### **GENERAL**

Teak and holly soles  
Teak paneling and Ultra-suede wall coverings  
Ultra-leather or Ultra-suede headliners  
Beveled edge mirrors  
All staterooms en-suite  
Hanging lockers with LED auto-light and louvered doors  
CO detectors installed in all cabins (including crew) and salon  
Lead foam sound insulation in all accommodation bulkheads  
Arched interior doors

### **HEADS**

Ventilation blowers - Manrose type with light  
Fiber-glassed shower enclosures with glass and Stainless steel partitions  
Marble or Granite shower pans  
Temperature and pressure-compensated shower mixer valves  
Marble or granite countertops with under-mount ceramic basins and designer faucets  
Medicine cabinets  
Stainless steel towel rails  
Master head includes a magazine rack  
Planus heads

### **FORWARD LOBBY**

Reached from pilothouse by stairs which shelve and increase in width as they descend  
Custom overhead light fitting with dimmer  
Security Stainless steel vertical post  
Hatch to machinery space  
Access doors into master, VIP and guest staterooms  
Miele Washing machine  
Miele Dryer

### **MASTER STATEROOM**

Master has a tapered king bed which opens hydraulically for storage under  
Walk-in closet  
Desk and bureau  
Sliding door to en-suite head and shower

### **GUEST STATEROOM**

Available with twin beds or one double  
Sliding door to ensuite head

### **VIP STATEROOM**

Tapered Queen bed with storage under  
CE-approved skylight with insect and black-out screens  
Two hanging lockers with auto light

### **CREW'S QUARTERS**

Accessed from aft lobby via stairs from port side-deck  
Two berths  
Twin hanging lockers  
Drawers  
Desk with mirror  
Toilet room with Planus head, shower and washbasin  
Escape hatch  
Bilge pumps  
Air Conditioning  
Boning/Fleming Central monitoring system with 15" color touch-screen

## **SYSTEMS**

### **STEERING**

Hypro electronic steering (ECS), hydraulic power assisted with DC back-up pump and autopilot pump.  
Solid Stainless steel rudders of axe-blade type with Aqualloy 22 high-strength stocks  
Destroyer type steering wheels at flybridge and pilothouse  
Pilothouse steering wheel has teak grips

### **ENGINE CONTROLS**

Glendinning electronic engine controls at pilothouse and flybridge  
Emergency back-up system for gear and throttles

### **PROPULSION AND TRANSMISSION SYSTEM**

Twin MAN V12-1550 HP marine diesel engines  
Transmissions ZF 2050A 2.467:1 reduction ratio  
4-blade Nickel Aluminum bronze propellers  
Shafts Aqualloy 22 Hi-strength  
Aquadrive anti-vibration systems  
Shaft seals cast bronze of traditional type using Buck Algonquin dripless packing system  
Groco sea strainers on engines and gensets  
Recessed I-struts in tunnels with cutlass-type bearings

### **FUEL SYSTEM**

3,000 USG total fuel capacity. (11,356 Liters)

2,500 USG in one internally-divided FRP tank  
500 USG in two FRP side tanks  
All fuel tanks have fire retardant coating  
All fuel tanks have sumps and sight-gages  
Monitoring system displays contents of all tanks in pilothouse in USG gals/Liters and percentage  
Fuel transfer pump with fuel totalizer  
Twin Racor 1000 model filters with change-over valve and vacuum gage for main engines, drip pans under filters  
Racor 500 model filters for gensets

### **LUBE OIL TRANSFER SYSTEM**

Reverso Pumps on port and stbd sides of engine room connected to transmissions, main engines and gensets  
Quick-release fittings for flexible operation

## **PLUMBING**

### **SANITARY**

Headhunter neo-classic heads in each of three staterooms  
Tecma toilet in Crew head  
Tecma toilet in Day head  
All toilets flush to 250 USG holding tank  
Day head & crew head has three-way valve to permit direct overboard discharge  
Toilets can be flushed by SW or FW  
Anti-odor charcoal filters on black tank vents port and stbd to promote cross flow ventilation  
Black water tank AC discharge pump and second DC pump for backup  
Tank level indicator

### **GREY WATER SYSTEM**

250 USG grey water tank with Headhunter discharge pump  
Tank level indicator  
Basins and showers drain to individual sumps each with own pump  
Each pump has 3-way valve to drain overboard or into grey water tank  
Anti-odor filters port and stbd on tank vents

### **FW SYSTEM**

500 gals in three tanks in lazarette  
Freshwater pump is Headhunter Mach 5  
Mach 5 backup freshwater pump pre-plumbed  
Two 20 USG Torrid water heaters with drain valve, pressure relief valves and mixer safety valve  
Hot water re-circ system with solenoid located in forward head and switches in each guest head  
Hot water heating from main engine via heat exchanger, circulation pump runs automatically when main engine running  
Forward and aft fresh water washdown outlets  
10 USG Crew water heater in lazarette

### **SW SYSTEM**

24V DC pump  
Forward Sea Water washdown faucet  
Plumbing as required to toilets  
Flushing line connected to holding tank

### **BILGE SYSTEM**

4 pcs. Rule submersible pumps  
Whale scavenger sump pumps

## **ELECTRICAL**

### **AC**

Two 32 Kw 220v, 60Hz Onan eQD (27Kw 230v 50Hz)  
Two shore inlets forward and two aft.



Aft shorepower inlets have Glendinning Cablemasters each with 85 ft. of cable  
Shore supply connected to two Charles Iso-boost transformers  
Digital meters at switch panels, volts, amps, frequency and watts  
Panels back lit  
Tinned copper wire used throughout

## **DC**

Main ships system is 24V DC  
12V DC available via two 20 amp DC-DC converters & 12V battery backup on flybridge  
Battery disconnect and selector switches accessible from outside e/room  
House battery bank consisting of 12pcs 6 volt Lifeline AGM batteries connected in series parallel to provide 1200 A/H's capacity at 24 volts.  
Two stacked 3500 watt Outback pure sine-wave inverters with 170 amp (@ 24 volts) battery charging capacity  
Two additional high output auxiliary alternators on main engines, 140 amp @ 24 volts  
Additional 24V DC battery banks for each engine/genset charged by MAN original alternators plus additional dedicated battery charger  
Switching allows paralleling of batteries  
Battery Monitor for house bank  
DC load distribution panel with breakers and meters back-lit with dimmer  
Alarm panel for engine functions plus bilge, fire, raw water etc.  
Repeater panel in crew cabin area

## **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 shafts (2)  
Copper strapping system in engine room, flybridge and pilothouse for SSB radio counterpoise

## **HYDRAULIC SYSTEM**

American Bowthruster central hydraulic system using variable displacement pumps on both engines  
This dual system powers:  
12 sq. ft stabilizer fins with winglets  
60 hp 16" diameter bow thruster  
Twin Maxwell anchor windlasses

## **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  
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  
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 - 1 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.

## **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.

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Version #40

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