

MOBILE TANK CLEANER MTC FB800 OPERATOR'S GUIDE

Production Release February 2013 (Original Instructions)

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MTC FB800 Specification & Operating Instructions.

System Power Requirements:

Power Supply: 220 volt (nominal voltage) or 110 volt

Frequency: 50 Hz (nominal frequency)

Max.Variations:

Voltage: +/-5% of the nominal value

Frequency: +/- 2% of the nominal value

Wattage: 550 W

Max Current: 3.8 Amps max.

Electrical Safety: An R.C.D., (Residual Circuit Breaker), must be used under all operating conditions. Power cable 3 pin plug fitted with a 3 amp fuse or 110V plug. The motor and pump are both rated for continuous operation.

IP Rating:

IP55 (pump/control panel)

System Pressure:

1 bar (14.7 psi) nominal working, 4 bar (88 psi) Maximum

Out Door Use:

Can be used outdoors but is **NOT** suitable for use in **WET** conditions.

Flow Rate:

10 lit/min

Tank Size:

Suitable for tank sizes of up to 1000 litres.

Noise Level:

Under normal working conditions, the noise level does not exceed 68 dbA at a distance of 1 metre from the electric pump.

Dry Weight: Wet Weight:

25 kg (Dry weight not including delivery and suction hoses)

31 kg (Wet weight not including delivery and suction hoses)

Dimensions:

Open: (L) 500mm (W) 430mm (H) 1100mm (Not including delivery and suction hoses)

Collapsed: (L) 500mm (W) 430mm (H) 720mm (Not including delivery and suction hoses)

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Pump Inlet Pressure:

Permitted Use:

NOT PERMITTED:

GASOLINE FLAMMABLE LIQUIDS WITH PM < 50 C LIQUIDS
WITH VISCOSITY > 20 cSt WATER FOOD
LIQUIDS CORROSIVE CHEMICAL PRODUCTS

SOLVENTS

Health, Safety & Environmental Considerations:

When the MTC FB800 is operating, the pump can work with a maximum pressure at the inlet of 0.5 bar. Pump inlet pressure beyond this value will lead to cavitation, a consequent reduction in system flow rate and increase in system noise.

Diesel fuel with a viscosity between 2 and 5.35 cSt (@ 37.8 Deg C) Minimum Flash Point (PM): 55 Deg C

The MTC FB800 is designed for mobile use. When lifting for transportation or storage, extreme caution should be taken and the necessary Health and Safety precautions should be observed as the equipment weighs 25 kg. dry and 31 kg. wet.

Caution. Inappropriate use of the MTC FB800 can cause serious injury. Only competent and authorised persons should be permitted to operate this equipment. Children/minors should never be permitted to operate or move this equipment.

This product should only be used for its intended purpose. Using this product for any other than its intended purpose could result in serious injury or death. Always use appropriate safety equipment eg. safety glasses, protective gloves, safety shoes etc. and observe local environmental health and safety requirements.

Prolonged contact with diesel fuel can damage the skin. The use of safety glasses and protective gloves is recommended.

Only use this product with **DIESEL FUELS** having a viscosity between 2 & 5.35 cSt (@ 37.8 Deg C) and a minimum Flash Point (PM) of 55 Deg C. It must **NOT** be

used for any other liquids. Never start or stop the pump by inserting or removing the plug from the power supply. Never leave the FB800 running if unattended.

Do not operate switches with wet hands. Only use this equipment on a flat, even surface.

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RELATED DANGERS:

FIRE - EXPLOSION FIRE - EXPLOSION MOTOR OVERLOAD PUMP OXIDATION CONTAMINATION OF THE SAME PUMP CORROSION

INJURY TO PERSONS FIRE - EXPLOSION DAMAGE TO GASKET SEALS

Always disconnect the equipment from the mains electrical supply before carrying out any routine maintenance or repairs. Do not run the pump dry, this can cause serious damage to its components. Periodically check the power supply cable and plug for damage.

Observe local environmental requirements & ensure that the appropriate equipment is available to clear up any accidental diesel fuel spills. Special consideration should be given when this equipment is used in a marine environment.

Ensure that any water drained from this equipment is disposed of following local environmental requirements as it may contain traces of diesel fuel. Do not attempt to service or repair the electric components of the system unless you are qualified to do so, risk of electric shock and death. MLS is an environmentally aware company. Always ensure that any used filters, and drained contamination are disposed of

according to local environmental requirements.

Unit Operation

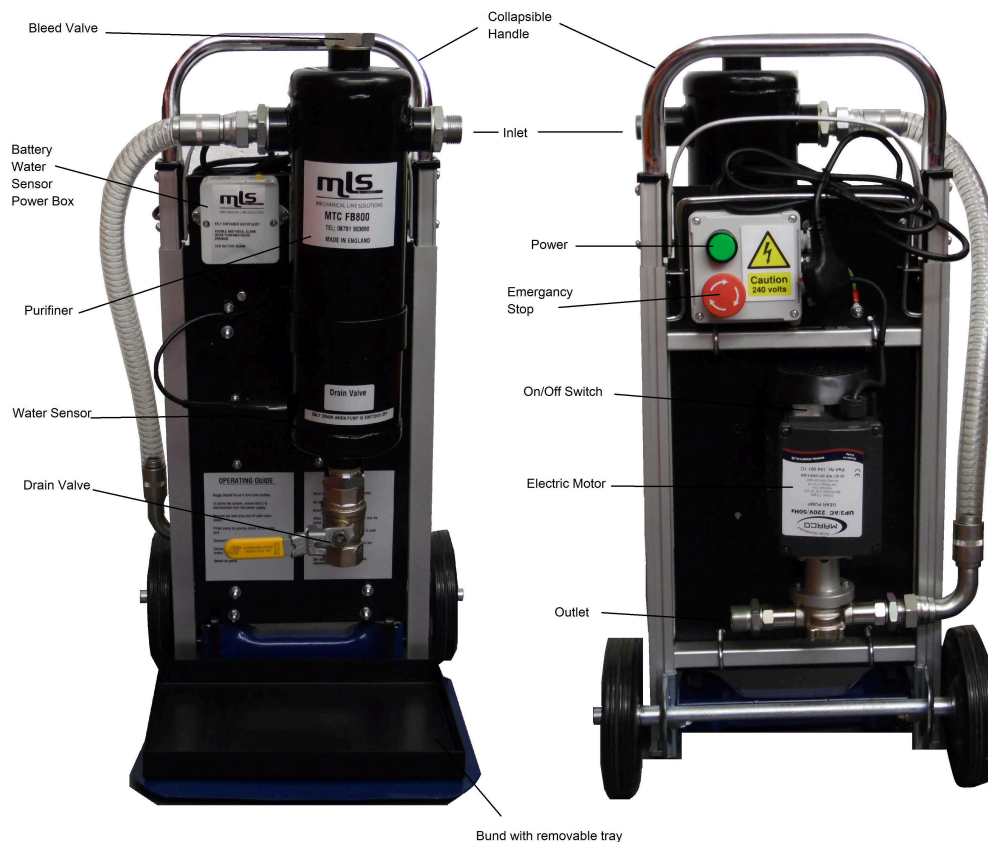
Basic description:

Diesel fuel is known to be inherently unstable. Solids begin to form, condensation introduces water and the accumulating tank sludge will eventually clog engine filters and potentially damage fuel injection equipment leading to unplanned maintenance and potential engine failure.

The MTC FB800 tank cleaner conditions and stabilizes the fuel, removes up to 90% of free water in correct conditions and tank sludge. It helps to eliminate microbial contamination from fuel tanks. The MTC FB800 Fuel Cleaning Buggy is designed to be used as a system for the "purifining" of diesel fuels having a viscosity between 2 & 5.35 cSt (@ 37.8 Deg C) and a minimum Flash Point (PM) of 55 Deg C. It must **not** be used for any other liquids.

The MTC FB800 Buggy can be used during the filling of equipment fuel tanks, the transferring of fuels from one fuel tank to another, the filtration of fuel within the same fuel tank or within a storage site.

Major Components:



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Working area:

The working area around the MTC FB800 should be assessed for trip hazards etc. and cordoned off during operation if necessary.

Before Starting the unit:

Ensure that the MTC FB800 is standing on a firm, even surface and that it is in a vertical position. Never operate the MTC FB800 in any position other than vertical. Always double-check the buggy's general condition before use, paying special attention to electrical cables and hoses. If

there are any signs of damage or excessive wear, DO

NOT USE IT. Undertake a battery test on the water sensor alarm (press battery test button).

Priming Instructions:

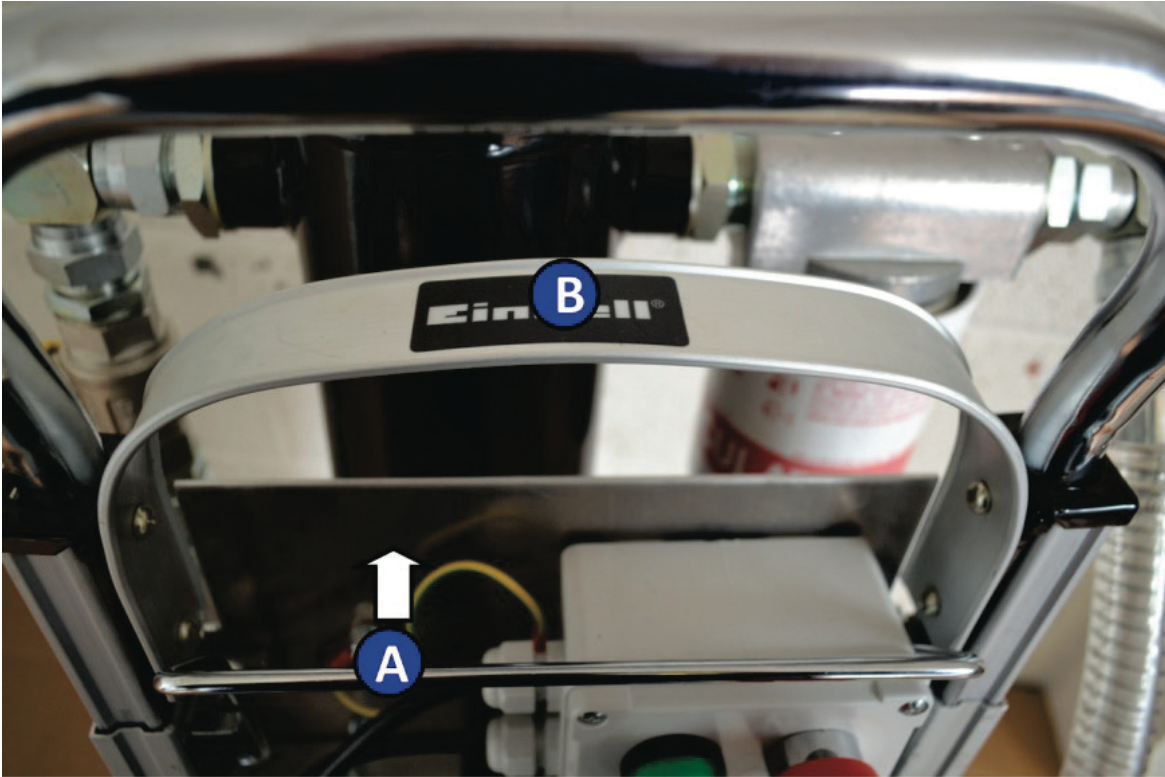
The pump must be stopped and the plug removed from the power supply before carrying out the priming procedure.

The MTC 55 unit is capable of lifting fuel from a depth of 1.5 M below the level of the pump. The unit must however be primed to ensure correct performance. Remove the vent plug from the top of the unit and fill with diesel.

Collapsible Handles:

The MTC FB800 has a collapsible handle which is designed to allow the unit to be more easily transported in service vehicles. The unit can be operated with the handles in either the raised or lowered positions. When moving the MTC FB800 around site however, it is recommended that the unit only be moved with the handles in the extended position.

Personal injury may result if the unit is moved with the handles in the collapsed position.



PUSH **A** TO RELEASE HANDLE THEN PULL **B** TO
EXTEND HANDLE TO FULL HEIGHT

To raise or lower the handle, push the horizontal bar (A) then pull (B) to extend handle. Always ensure that the handles are in the locked position, (a loud click will be heard as the lugs lock), whether the handles are in the extended or collapsed position, before attempting to move or carry the buggy.



mls
MECHANICAL LINE SOLUTIONS

SELF CONTAINED WATER ALERT
AUDIBLE AND VISUAL ALARM
WHEN PUMP/NER NEEDS
DRAINING
LOW BATTERY ALARM

mls
MECHANICAL LINE SOLUTIONS

MTC FB800
TEL: 08701 903090
MADE IN ENGLAND

Drain Valve

ONLY DRAIN WHEN PUMP IS SWITCHED OFF

OPERATING GUIDE

Buggy should be on a firm even surface.

To prime the system, ensure that it is disconnected from the power supply.

Remove top vent plug and fill with clean diesel.

Prime pump by pouring diesel in the outlet port.

Connect to...

Connect to...

Connect to...

Switch on pump.

Never...
Do not...
Ensure...
Where...
that the...
in case...
are...
See...
instructions...

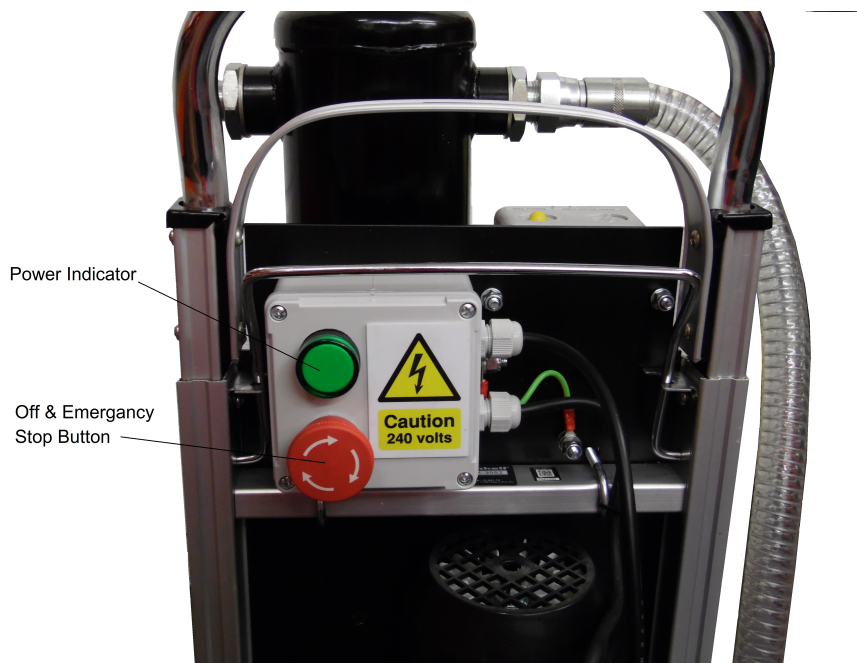
MTC FB800 with Handles Lowered for Transport

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Starting and Stopping the unit:

Do NOT operate the unit with wet hands.

To start the MTC FB800, first make sure that the unit is plugged into a suitable electrical fused supply with an RCD, and that suitable inlet and outlet hoses have been attached to the unit. Before starting the pump, ensure that the hoses are inserted into the fuel supply to be cleaned and also into a suitable return vessel, if that is not the original tank, and that the unit has been primed in accordance with the priming instructions. Rotate off button until it pops out & then use on/off switch on pump. In any emergency the red button should be used.



Do NOT insert or remove the power plug to start or stop the unit.

When operation is complete and the motor has been

stopped, or when draining water from the Purifier, always stop the motor and remove the plug from the power supply. Never run the motor without fuel in the suction tube.

Water Sensor:

The sensor indicator will beep & show a flashing LED to advise that the purifier needs draining using the procedure outlined in the previous paragraph. We strongly advise you drain as soon as the sensor beeps otherwise this will effect the efficiency of the fuel buggy and water can pass through.

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Spillages.

A removable drip tray is provided to catch any spilled diesel and/or contaminated water. This can be easily removed to dispose of these spillages safely.

Trouble Shooting (only to be carried out by a competent, authorized person); **The unit has stopped or will not start:**

Check that the unit is plugged in and switched on. Check the 2 amp fuse in the plug. Check that the red button is in the out position (rotate button to ensure power light is on).

Pump will not prime:

The priming procedure has not been carried out - Follow the priming instructions. Pump is more than 1.5 M above fluid level – Reduce the height between the pump and the fluid being pumped. Air leak in the suction tube/filter assembly – Check the suction hose for splits/loose connections and all connections are air tight. Ensure drain valve is closed Obstructions in the suction and/or delivery hose(s) –

Check hoses for obstructions and clean if required. Suction and/or delivery hose is too small in diameter – Replace with correct, new hoses from MLS (see replacement parts list).

If the problem persists, contact MLS for further assistance. Replacement Parts List:

Part Number	Description
1640611C	Diesel Pump 240V
FP800	FP800 Purifiner Complete
FOS-B0512	Suction Hose Assembly x 3 Mtr's
FOS-B0513	Outlet Hose x 3 Mtr's
	Drip Tray
	Back Plate
1640011B	Diesel Pump 110V

Warranty:

Goods are supplied subject to, and with the benefit of, the manufacturer's warranty as to quality and fitness for purpose, which, unless specified otherwise in any written quotation, is for 12 months from date of delivery to the original purchaser. Any remedial work carried out by persons

other than MLS's own engineers may only be claimed under warranty cover if (a) we have previously approved the work to be done by others and (b) at our standard approved rates for the time and material cost of the task completed.

Other than as set out in these Terms and Conditions, no warranty, guarantee or other term relating to quality or fitness for purpose whether implied by statute or common law is given in respect of goods supplied by us. Except in respect of death or personal injury caused by our negligence we shall not be liable to you for any loss of profit or any indirect or consequential loss, damage, costs or expenses which arise out of or in connection with the provision of the goods by us to you.

Electrical Circuit Diagram:

