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FIRE FIGHTING MOBILE EQUIPMENT

INTRODUCTION

FIRE FIGHTING MOBILE EQUIPMENT are autonomous pumping groups moved by engines intended for protect and extinguish possible fires in large and remote places that are not possible to extinguish with immovable equipments.

Its main application is in port facilities where the water source is safe. It protects any hazardous situation like loading and unloading hydrocarbons or the manipulation of loads susceptible to ignition.

The principal pump has secured its fast priming, in less than one minute, with an auxiliary vacuum pump and it is not necessary a foot valve in the inlet, with the advantage that when you remove them, they are not filled with water, therefore its weight is only of the hose itself. The inlet connections are Camlock or Storz type where you can connect suction hoses or tap water tanks conditioned for emergencies.

Its design and materials allow the use of any type of water and subsequent foam mixture. These units installed on a carriage, can be easily transported dragged by a medium vehicle and perfectly can be approved for enrolment.



CHARACTERISTICS

Main pump may have a wide range of hydraulic conditions, as flows of 300, 600 m³/h even more, likewise pressure can be for 8, 12 bar even more, its manufacture can be in Bronze, Cast Iron, Stainless Steel, etc. Can be operated by engines of various brands as Volvo, Iveco, MWM, Cummins, etc. With refrigeration by means of radiators.

The vacuum pump is driven by diesel engine cooling by air and completely manufactured in Bronze, with sufficient vacuum capacity to prime the main pump in less than one minute.

- ✓ Compact design and transportability.
- ✓ Weatherproof.
- ✓ Operation connection, priming and start easy and fast.
- ✓ It does not require specialized personnel.

MECHANICAL COMPONENTS:

- **Two axle trailer with tandem**, ball-type hitch, cat holding the lance, with four levelling feet and anchor, galvanized and approved.
- **Main pump unit** with common base carriage independently and elastic coupling, compound pump with parking gland closure suitable water pumping, diesel engine with radiator cooling system, with automatic start/stop from the control panel, alternator, silent, air filters, oil and Gas-Oil, provided with oil and antifreeze.
- **Monobloc vacuum pump set for priming**, composed entirely of bronze pump with mechanical seal, Diesel engine with air cooling, with electric start/stop from control panel, alternator, silent, air filters, oil and Gas-Oil. Connect to the main pump with solenoid valve and ball valve.
- **Fuel tank** common to both engines with reserve fuel detector, level viewfinder, special filling cap, jacks and valves.
- **Manifold** in the main pump with Fast connections Camlock or Storz and their safety caps.
- **Removable flexible suction hose** with fast connections to the inlet manifold and filter.
- **Drive manifold in the main pump** with fast connections and valves type Barcelona or others and their safety caps.

ELECTRICAL COMPONENTS:

- Control panel with double door, sealed and prepared for the weather with at least the following elements:
 - a. Clock tachometer and hour of service of the main pump.
 - b. Clock indicator lubricating oil pressure of the main pump.
 - c. Clock indicator of cooling water temperature of the main pump.
 - d. Clock indicator battery charge level.
 - e. Clock battery charge indicator from diesel engine alternator.
 - f. Load indicator clock from an external AC outlet to 220 V.



- g. Exterior shot plug for AC 220 V. battery for charging.
 - h. Switch “Contact”.
 - i. Ignition switch for external focus.
 - j. Mute switch for the siren.
 - k. Start button for the engine of the main pump.
 - l. Start button for the engine pump priming.
 - m. Stop button for the engine of the main pump.
 - n. Stop button for the engine pump priming.
 - o. Interlock button for emergency general strike.
 - p. Alarm indicator lights high temperature and low oil pressure in both engines, low fuel level, low battery charge, alternator malfunction.
 - q. Contact indicator lights, priming pump up and battery with exterior shot.
 - r. Sirena high loudness.
- **Battery** common to both engines enough capacity for multiple start-ups.
 - **Removable media spotlight lighting**, battery powered.
 - **Automatic cut solenoid isolation priming pump**.
 - **Wiring the whole fireproof cable and dual protection.**

