

TECHNICAL DESCRIPTION

PRODUCT DESCRIPTION: FIRE FIGHTING UNIT WITH 11.000 LT. AISI 304 MADE WATER TANK, 1.100 LT. AISI 316L MADE FOAM TANK, TWO LOCKERS (ALU MADE), MALECO BRAND HP/NP (3.000 LT./MIN @ 10 BAR, 250 LT./MIN @ 40 BAR) FF WATER PUMP , MANUEL ROOF MONITOR , 1 NOS. HP HOSE REEL AND REST AS PER SPECIFICATION TO BE MOUNTED INTO YOUR FREE ISSUE TRUCK CHASSIS



***actual product may differ, all photos and drawings are just for realisation in this specification.**

B. TECHNICAL SPECIFICATION OF FIRE FIGHTING EQUIPMENT

WATER TANK

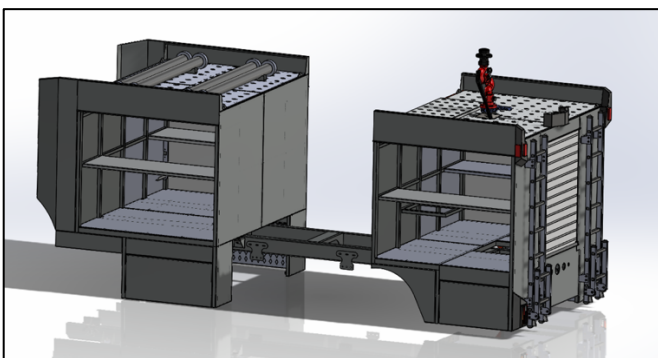
Capacity	: 11.000 lt.
Material	: Constructed of from AISI 304 STAINLESS STEEL MATERIAL. 4 mm. Side walls 5 mm. Bottom plate 5 mm. Water tank frame channels 3/4 mm. rain drop pattern AISI 304 ss plate on top.
Design	: welded steel plates, modular section design, stiffened by suitable beads on the sides to withstand stress caused by surging liquid.

FOAM TANK

Capacity	: 1.100 lt.
Material	: Constructed of from AISI 316L STAINLESS STEEL MATERIAL.
Design	: welded steel plates, modular section design, stiffened by suitable beads on the sides to withstand stress caused by surging liquid.
Fittings	: <ul style="list-style-type: none">• longitudinal and transversal anti-surges baffle plates• 1 no. Ø 500 mm manhole on water tank and foam tank , with closing cap on top to enable easy access to the tank for routine maintenance and inspection as well as for tank filling;• 2 no. filling inlets, located on sides of the vehicle, complete with 2 1/2" BS couplings, blank caps, with chain• over-flow/vent pipe to discharge excess water under the chassis;• There will be 1 no. 2 1/2" and 1 no. 1" , gravity discharge outlet in suitable place with ball valve• There will be electronic level indicators for water and foam tank located inside of control panel.• 1 no. drain port, complete with 2 1/2" type coupling, ball valve, blank cap and chain;• connections for tank to pump line according pump inlet dimension.

LOCKERS

There will be two lockers;



Front locker

Located between truck cab and tanks to keep equipments or extra accessories .Frame will be manufactured aluminium profiles covered with aluminium sheets. 2-side dust and water proof aluminium shutters with locks. There will be interior lighting activated automatically when shutters are opened. Inside all possible places will be covered with Aluminium plates. There will be steps where applicable for reaching high points supported with air cylinders.

Rear locker

Located at the rear, pump system with hose reel(s) will be located here. Frame will be manufactured aluminium profiles covered with aluminium sheets. 3-side dust and water proof aluminium shutters with locks. There will be interior lighting activated automatically when shutters are opened. Inside all possible places will be covered with Aluminium plates. There will be steps where applicable for reaching high points supported with air cylinders.

There will top side covers full length of compartments , There will be two side lights in each side to work at night easily and one set of working light for pump compartment at rear.

PUMP SYSTEM

MALECO ITALIAN BRAND , EN CERTIFIED DRIVEN BY TRUCK PTO

- Medium Pressure nominal flow rate: 3.000 lpm @ 10 bar
- High pressure nominal flow rate: 250 lpm @ 40 bar
- Case made of Aluminium with anti-corrosion treatment
- Medium Pressure Stage impeller made of Aluminium with anti-corrosion treatment
- High Pressure Stage impeller made of Bronze
- Stainless Steel shaft supported by ball-bearings
- Self-balanced mechanical seal, maintenance free
- Delivery manifold made of Aluminium with anti-corrosion treatment with flanged connections
- Flanged suction inlet
- Thermal Relief valve
- Overpressure Security Valve on HP stage
- Priming System supplied applied to the pump water, made of Aluminium with anti-corrosion treatment

The pump is fitted with following outlet and inlet connections;

- Four (4) 2-1/2" outlets complete with valve, BS OR STROZ couplings and blind caps.
- One (1) , 5" inlet complete with valve , BS OR STROZ coupling and blind caps.
- One (1) Monitor outlets with necessary valves , fittings.
- One (1) 1" HP hose reel outlet.

Pump will have around the pump foam proportioner, able to adjust from %0 to %3, %6. Foam line will have flush option to clean.

All installation in water and foam line will be manufactured from stainless steel , foam line AISI316L , rubber or plastic lines.

CONTROL PANEL FUNCTIONS

Highly esthetic designed and illuminated with LED lights consists of ;

- Pressure Gauge – To see water pressure on system
- Engine Water Temperature Gauge – To see engine water temperature (depends on truck chassis)
- PTO on/off light
- Vacuum Meter Gauge – To see vacuum value on priming
- Tachometer – To see truck engine rpm (depends on truck chassis)
- Hose Reels On/Off – hose reels on / off
- Main Valve On/Off – From tank to pump
- System Power – To turn off the whole system
- Tank Filling On/Off - From outside to tank
- Rpm (+,-) – To controlled the truck rpm
- Interior Lighting On/Off – To control interior lightings
- Primary Vacuum On/Off – To use priming
- Idle Running – To adjust speed for idle for truck
- Exterior Lighting On/Off – To control exterior lightings
- Control panel light.
- Level indicators for Water and Foam.



***some functions depends on truck chassis selection and at the orde stage.**

MONITOR



Manual ,2.400 lt./min @ 10 bar capacity , 360° horizontal travel , vertical elevation -15° to +80 ° fitted with jet & fog nozzle monitor. Throw range is min 65-70 mt. for water and 55-60 mt. for foam/water operation.

HOSE REELS



There will be 1 x electric driven hose reels with 50 mt. 1" hose and HP lance with JET / FOG option.

STANDARD ACCESSORIES

➤ 2 x ladder located in rear left and right side of vehicle with foldable part at bottom	2 pcs
➤ 2 x 6 kg. Fire Extinguisher with brackets located in suitable place in compartments	2 pcs
➤ LED type ,multi-mod top lights with speaker and public system.	1 set
➤ Around the body and front grill LED flash lights as per customer requested colour	1 set
➤ Delivery hoses , 20 mt. 2 1/2" with BS / STROZ couplings	6 pcs
➤ 2 1/2" piston type (turbo nozzle) lances with JET and FOG options	2 pcs
➤ 2 1/2" Branch type nozzle with JET & FOG options	2 pcs
➤ Heavy duty foam pipe 2 1/2" connection	1 pcs
➤ Portable lights	2 pcs
➤ First aid kit	1 set
➤ 3 mt. 5" suction hoses with BS / STROZ couplings	3 pcs
➤ 12 mt. aluminium extension ladder located on top of body	1 pcs
➤ Suction Strainer	1 pcs
➤ Suction hose holders in suitable place.	1 pcs
➤ Suction hose coupling spanner	1 set
➤ Manuel hand winch for spare tyre mounted on top	1 pcs



***sample photo for equipment and accesories storage in our units.
Our product may differ , it is just for realization.**

PAINTING AND FINISHING

All parts and compartments will be painted separetly.Painting process will be done in steps of ;

- Shock primer for all parts&surfaces.
- Epoxy paint for all parts & surfaces
- Final acrylic paint in requested RAL colours