



FIRE - TRUCK MANUFACTURERS

TEMAX TLF-4000/300

fire fighting vehicle

on Mercedes Benz Unimog U5023 (4X4)



Vehicle type: TEMAX fire fighting vehicle TLF-4000/300

Main vehicle data:

Chassis:

Mercedes Benz Unimog U5023 (4X4) with:

- original Unimog cab with 1+2 seating
- hydraulic steering with adjustable steering wheel
- Mercedes Benz diesel engine, 170 kW (231 HP) @ 1800 rpm, 900Nm @ 1200-1800 rpm
- 8+6-speed manual gearbox
- differential lock on front & rear axles
- 365/85R20 single tires
- 240L fuel tank
- 28V/100A alternator
- 2x12V/170Ah batteries
- full air brakes with ABS

Superstructure:



Design: Modular, with front mounted full width water tank and rear equipment/pump locker with foam tank

Construction material: Heavy duty locker frame made from welded stainless steel profiles, paneled with 2mm thick aluminum sheets. Fully walkable roof paneled with 3/4,5mm thick chequered aluminum sheets. Locker floors paneled with 3mm aluminum sheets. Galvanized, welded steel subframe.

Equipment:



- Spring loaded aluminum roller shutters on all lockers
- Swing out stepboards at all side mounted lockers with warning indicator in cab
- Automatically activated interior locker lights upon opening a roller shutter with warning indicator in cab
- Swing out shelves and special brackets for all fire fighting equipment

Water tank:

Appx. 4000L capacity, made from stainless steel 316L, 4mm thick. Equipped with:

- 500mm dia. manhole,
- overflow and vent system,
- baffles,
- 2 x 2-1/2" filling inlets with valves and couplings mounted at vehicle sides,
- suction sump with drain valve and filter to pump suction intake,
- level indicator (sender),
- backup level indicator with clear PVC tube and isolation valve

Foam tank:

Dual 300L capacity (200+100L), made from stainless steel 304, 3mm thick, integrated in the pump locker. Each compartment equipped with:

- inspection hole with cover 300mm dia.,
- overflow and vent system,
- baffles,
- 24VDC foam filling pump,
- drain valve and supply to the foam proportioner,
- level indicator (sender),
- backup level indicator with clear PVC tube and isolation valve

Fire pump:

Rear mounted, PTO driven multi-stage centrifugal pump suitable for high and normal pressure, rated for 2000L/min @ 10bar and 400L/min @ 40bar, equipped with:

- automatic primer,
- around-the-pump, foam proportioning system 1%+3%+6%,
- 2/4 x 2-1/2" normal pressure outlets at rear with valves and couplings,
- one normal pressure outlet to feed the normal pressure hose reel,
- one normal pressure outlet to feed the ground sweep nozzle system,
- one normal pressure outlet for tank filling via the pump,
- one high pressure outlet to feed the high pressure hose reel,
- complete control panel

**Cab self protection system:**

Cab self-protection system comprising of fire pump fed nozzles and piping mounted around the cab roof. Suitable for foam/water, system controlled from inside the cab.

In cab control panel:

Complete in-cab control panel to control the pump, the foam proportioning system, as well as the ground sweep system

**Hose reel:**

One, axially fed high pressure hose reel, equipped with 60m non collapsible high pressure rubber hose, 25mm dia. and high pressure fog gun, rated for 210L/min @ 40bar. Equipped with manual and electric rewind.

**Ground sweep nozzles:**

four (4) ground sweep nozzles, one in front of each wheel, each rated for 50L/min @ 10bar

Emergency lights and sound systems:

- one 100W electronic siren with microphone, with wail/yelp/hi-lo/air horn sounds and public address system
- two beacons mounted on cab roof, perimeter flashers all around
- reverse buzzer

Fire fighting & rescue equipment:

- normal pressure collapsible fire hoses
- normal pressure nozzles
- dividers
- suction siamese
- suction filter
- suction hoses
- powered chain saw
- portable fire extinguishers
- tool box
- 200mm spotlight, with extension tripod and cable drum
- 7m extendable ladder
- 4m ladder with hook
- recessed, front mounted self-recovery hydraulic winch rated for 50kN with 35m wire rope

Overall vehicle dimensions (appx.):

length: 6400mm / width: 2550mm / height: 2900mm



Weights:

operational weight: 14950kg
gross vehicle weight rating: 15000kg
shipping weight: appx. 9950kg

Performance:

top speed: 90km/h
Gradeability: 100%

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