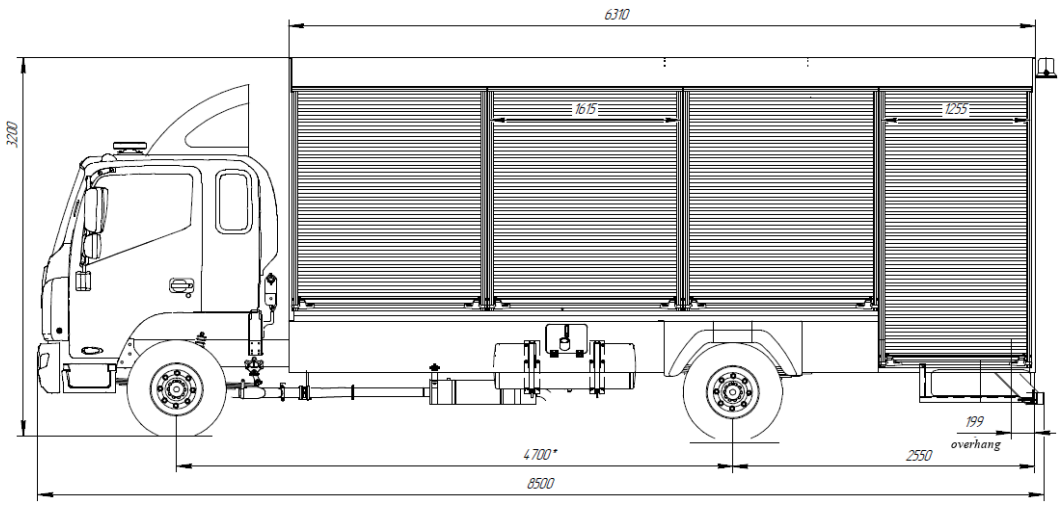
Limited Liability Company “PRIORITET”
4, 8 Marta St., Miass, Chelyabinsk Region, 456317, Russia
Tel.: 8 800 333 88 96 · support@prioritetmiass.ru · prioritetmiass.ru

Technical Proposal of PRIORITET LLC
Fire and Rescue Vehicle ASA (for Oil Spill Recovery)
on JAC N120 Chassis



Approximate view. The image is for illustrative purposes only.



The fire and rescue vehicle ASA is designed for emergency response to oil spills.

The ASA complies with climatic version “U” (operation at ambient air temperatures from −40 to +40 °C), placement category 1 (outdoor operation), and operation in atmosphere types 1 and 2 (conditionally clean and industrial) in accordance with the requirements of GOST 15150-69, with storage during standby periods in a room with an air temperature of at least +5 °C.

Technical characteristics of the ASA:

No.	Parameter	Value
1	Chassis	Cab-over (bonnetless) design
2	Wheel arrangement	4x2
3	Engine	Diesel, rated power 206 hp
4	Vehicle condition	New, never used
5	Year of manufacture	2026
8	Crew cab, including the driver’s seat	3 persons
14	Set of fire-fighting equipment	Provided

The fire and rescue vehicle ASA (hereinafter, ASA) has the following overall dimensions: length 8500 mm, width 2550 mm, height 3200 mm.

The ASA is certified in the Certification System for Mechanical Vehicles and Trailers and comes with the operating documentation required for registration with the State Traffic Safety Inspectorate (GIBDD).

1. Body

The body frame shall be made of a modular (bolted) profile. Profile material: aluminium alloy. The joints of the load-bearing elements of the body frame shall be made without welding, using special fasteners, ensuring the structural strength of the body and protection against failure under dynamic loads.

The inner lining of the body compartments shall be made of aluminium sheets at least 2 mm thick. The outer skin of the body shall consist of sheets at least 2 mm thick. Material of the outer skin sheets: aluminium alloy. The outer skin shall be attached to the frame by adhesive bonding, which shall ensure the structural strength of the body, leave no visible fasteners on the outer decorative surface of the skin, and rule out any warping or unevenness of the outer skin caused by the attachment method.

Equipment located on the upper tiers of the ASA shall be removed by means of slide-out mechanisms.

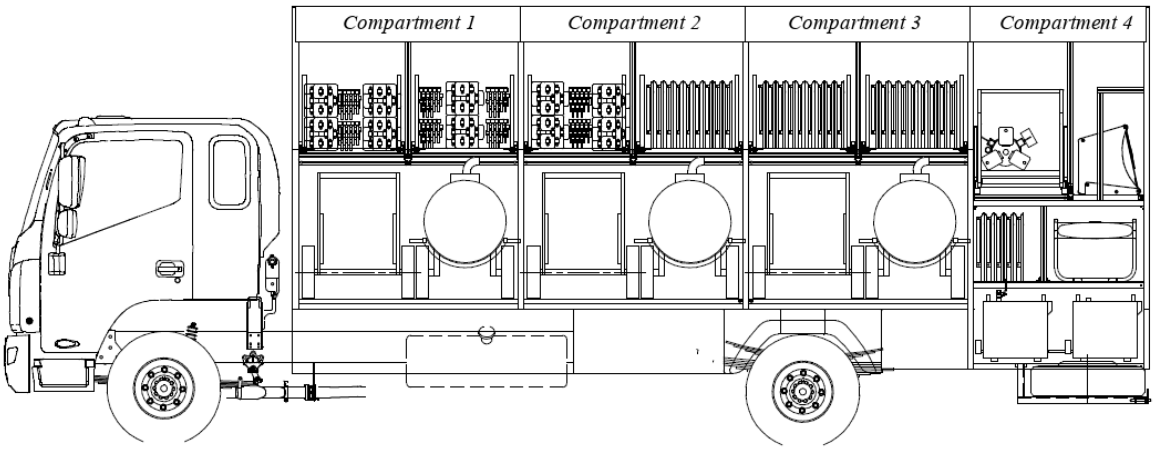
The doors of the fire-fighting equipment compartments are roller shutters.

Door openings, hatch covers and other body elements have seals protecting the compartments against precipitation and dirt.

The stowage of fire-fighting equipment in the compartments takes into account the tactics of its operational use and ensures that the equipment is securely fixed, accessible, and convenient and safe to remove and install.

The installation of the body does not impair the vehicle’s off-road capability.

The equipment is arranged on the fire superstructure of the ASA vehicle in line with the requirements of ergonomics, secure mounting and ease of access during operation.



Equipment arrangement on the fire superstructure of the ASA vehicle in compartment 1:

The upper tier of the fire superstructure holds 3 RK-10 framed tanks with lids on the left and right sides, as well as 1 set of PS-0.5-30 retaining wall.

The lower tier of the ASA fire superstructure provides space on the left and right sides for 1 set of UVM-1 vacuum unit.

Heavy units stowed on the upper shelves shall be removed using lifting equipment (a winch, a block and tackle or other auxiliary equipment).

The UVM-1 vacuum unit is removed from the vehicle by means of a lifting mechanism. Ramps are stowed in the lower part, beneath the equipment, for safe unloading and moving of the equipment.

Equipment arrangement on the fire superstructure of the ASA vehicle in compartment 2:

The upper tier of the fire superstructure holds 3 RK-10 framed tanks with lids on the left and right sides, as well as 1 set of PS-0.5-30 retaining wall.

The lower tier of the ASA fire superstructure provides space on the left and right sides for 1 set of UVM-1 vacuum unit.

Heavy units stowed on the upper shelves shall be removed using lifting equipment (a winch, a block and tackle or other auxiliary equipment).

The UVM-1 vacuum unit is removed from the vehicle by means of a lifting mechanism. Ramps are stowed in the lower part, beneath the equipment, for safe unloading and moving of the equipment.

Equipment arrangement on the fire superstructure of the ASA vehicle in compartment 3:

The upper tier of the fire superstructure holds 3 RK-10 framed tanks with lids on the left and right sides, as well as 1 set of PS-0.5-30 retaining wall.

The lower tier of the ASA fire superstructure provides space on the left and right sides for 1 set of UVM-1 vacuum unit.

Heavy units stowed on the upper shelves shall be removed using lifting equipment (a winch, a block and tackle or other auxiliary equipment).

The UVM-1 vacuum unit is removed from the vehicle by means of a lifting mechanism. Ramps are stowed in the lower part, beneath the equipment, for safe unloading and moving of the equipment.

Equipment arrangement on the fire superstructure of the ASA vehicle in compartment 4:

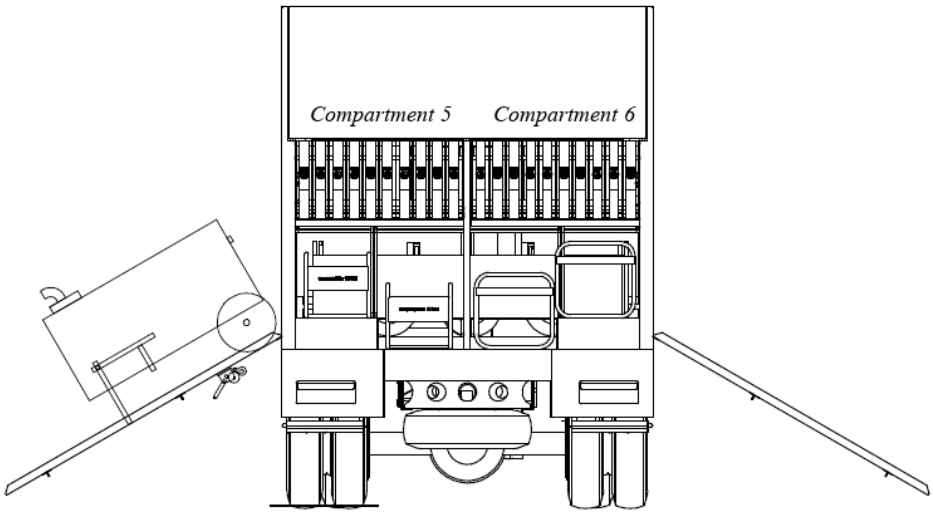
The upper part of the rear body compartment provides space on both sides for 2 PGE-5MP steam generators each; space shall also be provided for the following hand tools:

Square-point shovel – 30 pcs.

Round-point (digging) spade – 30 pcs.
Rake – 30 pcs.

The lower part of the rear compartment provides space for 1 set of PS-0.5-30 retaining wall.

Equipment arrangement on the fire superstructure of the ASA vehicle in compartment 5:



The upper part of the rear compartment holds 10 DN50 delivery hoses, 20 m long each.

The lower part holds 2 electric generators with a power output of 5.5 kW (Huter DN7500i 64/10/11).

Equipment arrangement on the fire superstructure of the ASA vehicle in compartment 6:

The upper part of the rear compartment holds 10 DN50 delivery hoses, 20 m long each.

The lower part holds 2 electric generators with a power output of 5.5 kW (Huter DN7500i 64/10/11).

Underbody lockers for additional equipment and tools are installed along both sides of the body.

The fire vehicle is painted in accordance with GOST R 50574-2019. Two-component acrylic polyurethane-based paint coating, coating thickness 80 μm. The enamel has increased resistance to temperature conditions (from −50 °C to +70 °C).

The underside of the vehicle is treated with an anti-chip waterproofing coating and an anti-corrosion compound.

The ASA is fitted with a 200 W acoustic warning unit and one flashing warning beacon located at the rear of the body.

8. Requirements for additional electrical equipment

Work lights are installed on the sides of the fire superstructure.

Flashing beacons shall be located at the front, sides and rear of the fire superstructure to provide all-round visual signalling.

The additional electrical equipment provides:

– lighting of the work site at night;
– special sound and light signals in accordance with the applicable GOST standards;
– compartment lighting;
– open body door warning in the crew cab;
– operation of the air heaters;
– operation of communication equipment, control instruments, etc.

The body compartments are lit individually: when a compartment door is opened, only the lighting of that compartment switches on.

Fire safety requirements are met during the installation of the additional electrical equipment and wiring.

The interior lighting of the ASA ensures clear visibility of markings, gauge scale divisions, and measuring and control instruments.

Illumination level:

– for indicators, control and measuring instruments, and markings of control system elements in the cab – 20 lx;
– for the cab – 10 lx;
– for body compartments with fire-fighting equipment – 10 lx.

The cabin is equipped with interior dome lights.

The ASA is fitted with a battery disconnect switch (master switch) of the base chassis.

The electrical wiring running inside the body compartments has connectors that allow units and assemblies of the fire superstructure to be removed without removing the wiring.

Each power circuit of any element of the additional electrical equipment is protected by a fuse, which makes it easier to locate faults in the system quickly. It is recommended to mount the fuses in a single fuse box.

Circuits supplying low-current devices are protected by a common fuse; the current flowing through it does not exceed 16 A. All wires are reliably protected and securely fastened to rule out breakage, chafing and wear.

Holes and cut-outs for routing wires through body and chassis elements are protected to prevent damage to the wire insulation.

All wires are reliably insulated and withstand the temperature and humidity to which they are exposed.

Electrical equipment terminals (terminal clamps, etc.) and wires are marked.

9. Equipment requirements (mounting points to be provided)

No.	Item	Make / model	Qty
1	Vacuum unit, m³/h	UVM-1	6
2	Hose set, DN50, 20 m		20
3	Framed tank with roof	RK-10	12
4	Retaining wall, m	PS-0.5 30	4
5	Inverter generator	Huter DN7500i 64/10/11	4
6	Steam generator	PGE-5MP	4
7	Lighting unit (2x100 W)	OU-2000	4
8	Square-point shovel	spark-proof	30
9	Round-point (digging) spade	spark-proof	30
10	Rake	spark-proof	30
11	Carpenter’s axe		8
12	Gas and smoke protective respirator		60
13	Self-contained (isolating) gas mask		22

No.	Item	Make / model	Qty
14	Rope 50		6
15	Radio set		10

Specifications of the Huter DN7500i 64/10/11 inverter generator:

Parameter	Specification
Voltage	220 V
Starter	manual (recoil) starter
Max. power	6 kW
Maximum power at 220 V	6 kW
Rated power at 220 V	5.5 kW
Alternator	asynchronous
Engine type	4-stroke
Auto start	no
Display	yes
Enclosure type	closed
Alternator winding	copper
Spark plug	F7TC
Product class	Semi-professional
Length	430 mm
Width	430 mm
Height	430 mm
Generator type	inverter
Fuel type	petrol
Fuel consumption	0.375 l/h
Voltage control	inverter
Fuel level indicator	yes
Engine hour meter	no
12 V output	yes
Oil sensor	yes
Oil tank capacity	0.6 l
Noise level	84 dB