

CAS 24 - T 815 4x4.2

WATER TENDER

model 7041.36



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DESCRIPTION

The CAS 24 – T 815 4x4.2 Water Tender is designed to carry a fire brigade crew (1+5) and accessories necessary for fire fighting interventions with application of both water and foam. The TATRA T815 4x4.2 two-axle chassis has an engageable front axle drive and is capable of being operated on both paved and unpaved roads, as well as in rough terrain. The superstructure is of modular design. The main module consists of the tank for water and foam concentrate which is constructed as one unit. The compartment in the rear part of the superstructure comprises the space for the pumping equipment in the middle and stowage spaces on the sides, closed with aluminium roller shutters. The superstructure is made of steel profiles covered with aluminium plates glued on. The tank for water and foam concentrate is made of stainless steel plate. The fire pump may be operated under the low pressure or the high pressure, with water or foam.

TECHNICAL DATA**Vehicle dimensions**

Length	7 850 mm
Width	2 550 mm
Height at curb weight	3 190 mm
Ground clearance at G.V.W.	290 mm
Angle of approach	32°
Angle of departure	19°

Vehicle weights

Curb weight	11 560 kg
Payload	5 740 kg
Max. technically permissible vehicle weight	19 000 kg

CHASSIS

Type	TATRA T815-280R55/411
Engine type	Diesel supercharged air-cooled engine
Number of cylinders	8 (V type)
Engine stroke capacity	12 667 cm ³
Engine output	270 kW/1 800 min ⁻¹
<i>The engine complies with EURO III emission standard.</i>	
Drive	4x4, engageable front axle drive
Clutch	single-plate, hydraulically operated with booster

Gearbox	mechanical synchromesh gearbox, 14 forward gears, 2 reverse gears
Front axle	steering axle with differential lock engageable when required from driver's cab
Rear axle	with differential lock engageable when required from driver's cab
Front axle suspension	telescopic shock absorbers in combination with torsion bars
Rear axle suspension	telescopic shock absorbers, spiral springs and bellows air springs
Steering	right-hand steering, monoblock power steering
Brake system	double-circuit, pneumatic, fitted with ABS
Electrical system voltage	24 V
Accumulator batteries	2 x 12 V 180 Ah
Fuel tank capacity	220 l
Maximum vehicle speed	100 km/h

CAB

Type	four-door, forward control, tilt cab
Number of seats	1 + 5

SUPERSTRUCTURE

Material steel frame, covered with aluminium plates glued-on

TANKS

Stainless steel water tank capacity	5 000 l
Stainless steel foam concentrate tank capacity	200 l

PUMPING EQUIPMENT

The fire pump is mounted in the rear compartment of the vehicle and driven from the vehicle engine. The pump allows to carry out fire fighting interventions using the low-pressure, the high-pressure and/or the combined operation. The pump comprises the single-stage low-pressure side and the single-stage high-pressure side. Both stages are on a common shaft, whereas the high-pressure side is integrated into the casing of the low-pressure stage. The pump is equipped with an automatic thermal relief valve that provides the protection against overheating. The pump is fitted with an automatic piston primer.

Low-pressure

Rated water flow rate	2 400 lpm
Rated working pressure	0.8 MPa
Rated suction lift	3.0 m
Water flow rate for suction from vehicle tank	3 500 lpm

High-pressure

Rated water flow rate	400 lpm
Rated working pressure	4.0 MPa

RAPID INTERVENTION EQUIPMENT**Monitor on working platform**

Rated flow rate at 0.8 MPa	1 200 lpm
Throw range with straight jet	57 m

Hand nozzle on working platform

Rated flow rate at 0.6 MPa	500 lpm
Throw range with straight jet	32 m

High-pressure hose reels with DN 25/60m hose and gun type nozzle

Rated flow rate at 4.0 MPa	200 lpm
Throw range with straight jet	29 m
Throw range with dispersed stream	15 m

THTronic ELECTRONIC FOAM PROPORTIONING CONTROL

The foam proportioning system consists of a jet foam inductor, control flap, electronic control and connecting pipeline. The foam concentrate is sucked in the water pump intake.

The electronic control has a continuously adjustable proportioning range. The range 0-6% is intended for use with conventional protein and synthetic foam concentrates, and the range 0-1.2% for use with foam concentrates of PYROCOOL type. Two values of the proportioning ratio may be stored in the memory for a fast selection. The adjusted proportioning percentage is maintained automatically and independently from the actual pressure and flow rate at the pump outlet and it is shown on the display of the electronic unit.

Volume of foam concentrate sucked-in:	2 to 165 lpm
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AUXILIARY EQUIPMENT

- front nozzles for extinguishing during travel
- front protective frame
- telescopic searchlight on working platform

OPTIONS

- remote controlled roof-mounted monitor
- remote controlled bumper-mounted monitor
- electric cable winch of 53 kN towing force with cable length 30 m
- telescopic light mast 2 x 500 W
- electric generator 2.2 kVA
- split foam concentrate tank for foam concentrate type A and B
- pump with rated capacity of 4000 lpm at 1.0 MPa
- driver's cab for crew of 1+7 (without breathing apparatus sets in the cab)
- chassis with 4500mm wheelbase
- protective frame for roof-mounted warning light device

Technical modifications reserved.

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