

PENNELLI FIREFIGHTING AIB 4000



Technical features of AIB 4000 PENNELLI

PENNELLI FIREFIGHTING unit lt. 4.000, on chassis-cab IVECO FF140E28W/RS 4X4
The unit, is fixed to the chassis of the vehicle by means of silent-blocks.

Holding materials lockers:

fitted with closed roof and access door for shovels, flaps and axes.

Water tank:

capacity of 4.000L, made of stainless steel, AISI 316/L type, fixed to the vehicle by means of silentblocks, fitted with n. 6 bulkheads in stainless steel, AISI 316/L type, manhole for internal inspections with cover in stainless steel, level indicator type "communicating vessels", linking pipe to the pump realized in galvanized steel with interception valve, filling pipe of the tank

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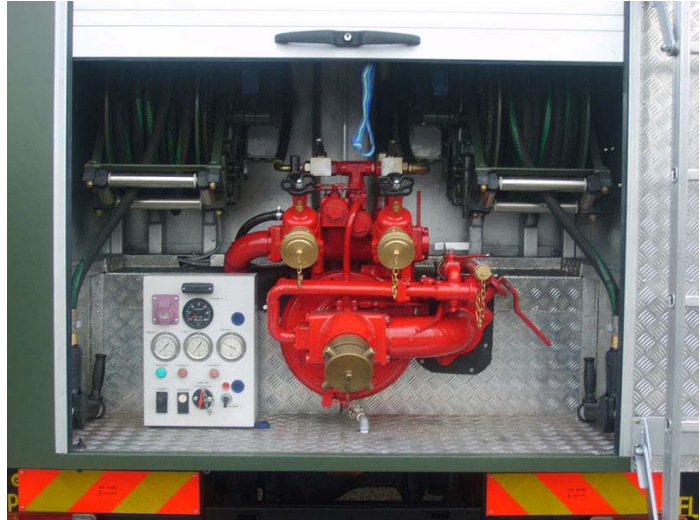
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from external source, with UNI70 coupling, overflow hose in stainless steel, AISI 316/L type and draining valve.

Water supply Pump:

brand WATEROUS, mod. HL 300, two-stages centrifugal type, for combined using of high and medium pressure. Material: pump body and rotors made of aluminium alloy BS 1490 LM 25TF (material resistant to the corrosion), pump shaft in stainless steel BS 970 431529. Driving: the pump is started from the truck engine by PTO and transmission lines; the pump is able to delivery with the running vehicle. Engagement of the pump: by PTO controls located in the cab; performances when the vehicle is steady: with height of suction of 3 m and with 10 m of suction pipe inserted, suctioning with free outlet: medium pressure with delivery of lt/min. 3.000 (total delivery head monometric of 10 bar), high pressure with delivery of lt/min 400 (total delivery head monometric of 40 bar).



The priming time - at standard conditions - is 25 sec.

Delivery: the pump is able to delivery water and/or foam in: medium or high pressure, medium and high pressure at the same time.

Priming: automatic.

Suction: The water supply of the pump from external source happens through an outlet with M UNI screw coupling DN mm 100, located on the rear, with a dip of about 30° on the horizontal line; the suction outlet is also provided with blind cap with chain.

Delivery: two (n. 2) delivery outlets for medium pressure, with screw coupling M UNI DN mm 70, located on the rear, with a dip of about 30° on the horizontal: all the suction outlets are also provided with interception valve with manual control and blind cap with chain; n. 1 delivery outlet for medium pressure linked directly to the monitor, n. 2 delivery outlets for high pressure linked to hose reels with interception valves with manual ball control.

Links: in addition to the suction and delivery outlets, upon described, the pump is linked to the water tank by the means of the following pipes: a suction pipe from water tank linked to the lower part of the tank and provided with interception valve with manual control; a tank filling pipe by the means of a pump linked to the flange on the tank and provided with interception valve with manual control. The link between pump and tank is realized in elastic manner in order to avoid dangerous torsions for the pipes. The pump is provided with drain.

Pump Position: the pump is located in a rear compartment and it is easily accessible for the operators.

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FIRST OPERATION HOSE REELS:

n. 2 hose reels with electrical winding, positioned as follows: on the rear of the vehicle, laterally to the pump.

Equipment: fireproof rubber hose – CERTEX system – in a section of mt. 30, type 604/24/3012 DN mm 19x30, with n. 4 textile braids inserted, for the working pressure of 40 bar and for the explosion pressure of 120 bar, with external cover in auto-extinguishing ricoprene, resistant to the atmospheric agents, to the abrasion, to the oils and fuel, with weight of about 0,60 kg/m.l. and curving radius not exceeding the 15cm. This hose is fitted with stapling quick couplings and brass connections with integral passing (without valves), DN ¾" – M / F, resistant to working pressure over 40 bar. Nr. 4 extensions of mt. 30 each, same type; n. 4 quick coupling and brass connections – integral passage (without valves), DN ¾" F, for nozzle, resistant to a working pressure of 40 bar.

EMERGENCY ELECTRICAL EQUIPMENT:

In addition to the standard outfit, the vehicle is provided with an emergency electrical equipment, constituted of: light: n. 2 blue beacon – homologated – on the driving cab of the vehicle, back folding, in case of collision; - warning electrical siren – bitonal (sol-mi), homologated, with switch on the board inside the driving cab; working light – adjustable – DN mm 200, power W70, mounted on telescopic bar, positioned on the front right part of the driving cab and working light for the using area of the top mounted monitor.

BODYWORK:

type: auto-bearing structure, compact, without overhangs from the cabin shape.

Bodywork: electrically welded steel section, subjected to cataphoresis treatment.

Sheet metal working: made of light alloy plates (thickness mm 1,5).

Design: by two different forms, a front one and a rear one, with the tank centrally located. The two forms are independently supported by a strong false-chassis, by means of the interposition of steel and rubber elastic shock absorbers. In this way, besides limiting of solicitations and torsions transmitted from the chassis during the driving, it is obtained a higher vehicle elasticity, warranting the max stability on rambling roads.

The rear part of the bodywork is directly fixed to the water tank.

Material holding compartments: a passing compartment, positioned between the cab and the tanks, fitted with fix shelf at medium height and two shutters, one for each side; two



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compartments, positioned one for each rear side of the vehicle. The compartments are covered with chequered and anodized aluminium sheet, absolutely protected from water and dust and fitted with draining outlet.

Pump compartment: located on the rear of the vehicle, in the right position to allow the easy access to the control panel, closed by shutter. Lighted by the means of suitable automatic driving headlamp.

Compartment closing: the compartments are closed by light alloy shutters anodized, auto-winding type, provided with one big double handle with open/close push-button positioned at the centre of the two supporting points of the hands. These compartments are fitted with lock with unique key and retrieval belt.

Lighting: for all compartments, by the means of overhead lights that are switched on by central switch, located in the driving cab.

Bodywork roof: "imperial" type, with chequered and anodized aluminium cover, anti-slipping, thickness mm 2,2 – over chequer –, that acts to support a total weight of kg 500 and localized pressures of 2,5 kg/cm² without considerable deformations. There are suitable fixings for the safe and quick use of the holding headlamps tripod. The bodywork is fitted – laterally – with perimeter foot-guard and safety hand rail, liftable and foldable, with pneumatic control, located in the pump compartment.

Ladder: reclining in light alloy, with the steps surface covered with antislip material. Positioned on the roof – rear right side of the vehicle – allow the access to the roof of the bodywork and to the monitor platform. The ground clearance of the first step doesn't exceed the 600 mm, while the center distance between the steps is about 300 mm. The steps are mm 300



wide and the distance between the steps axle and the superior wall is mm 150. On the rear part of the bodywork there are two holds, one of which makes easier the slope on the roof, while the other has been located according to the illumination norms of the optical gauges.

Fixing system: inside of all compartments are expected suitable fixing systems for the holding of the anti-fire material.

Splashguards: rubber, on the rear wheels.

Side-guards: the vehicle is fitted with lateral side-guards.

Spare wheel: located on the rear of the cabin with quick hook-lift system (manual winch with rope).

WINCH:

kg 4.000, electrical operation, with rope-guide and cable with a length of mt. 40.

Controls: from ground, nearby to the winch and driving cabin. Autoprotection by the means of nozzles disposed on the driving cab, driven by high pressure pump, electrically operated.

Surfaces cooling: nozzles system for the cooling of the glasses and vehicle wheels, for the cooling nearby to the heat sources (flames, fires, etc.).

Protection bar: rear protection bar, fitted with tipping system, that acts to increase the exit angle of the vehicle.

PAINTING: green NATO colour for the cab and equipment.

ACCESSORIES:

- pre-arrangement for the fitting of transmitting radio and antenna;
- n. 7 (seven) flaps in beech wood and ending part in non-propagating cloth strips;
- collector in brass, with interception valves UNI M 70 x 2 UNI F 45;
- divisor in brass, with interception valves UNI F 70 x 2 UNI M 45;
- n. 1 (one) powder extinguisher of kg 4;
- n. 4 (four) hoses UNI 45, 20 m. long each, working pressure 25 bar;
- n. 2 (two) trial effect nozzles, UNI 45;
- n. 1 (one) fork;
- n. 7 (seven) breathers "use & throw away";
- n. 7 (seven) kits of protective anti-heat gloves, in aramidic fibre, homologated;
- n. 1 (one) tool box, lockable, with only 1 compartment;
- n. 1 (one) stopped vehicle indicator, according to the highway code;
- n. 1 (one) jack for the lifting of one axle of the full loaded vehicle;
- n. 1 (one) lubricator with coupling;
- n. 1 (one) hose with manometer, for the inflation of the wheels;
- n. 1 (one) inspection light;
- n. 1 (one) case with valve, fuses and spare lights;
- n. 1 (one) engine oil filter key and n. 1 (one) series of keys 6-32.



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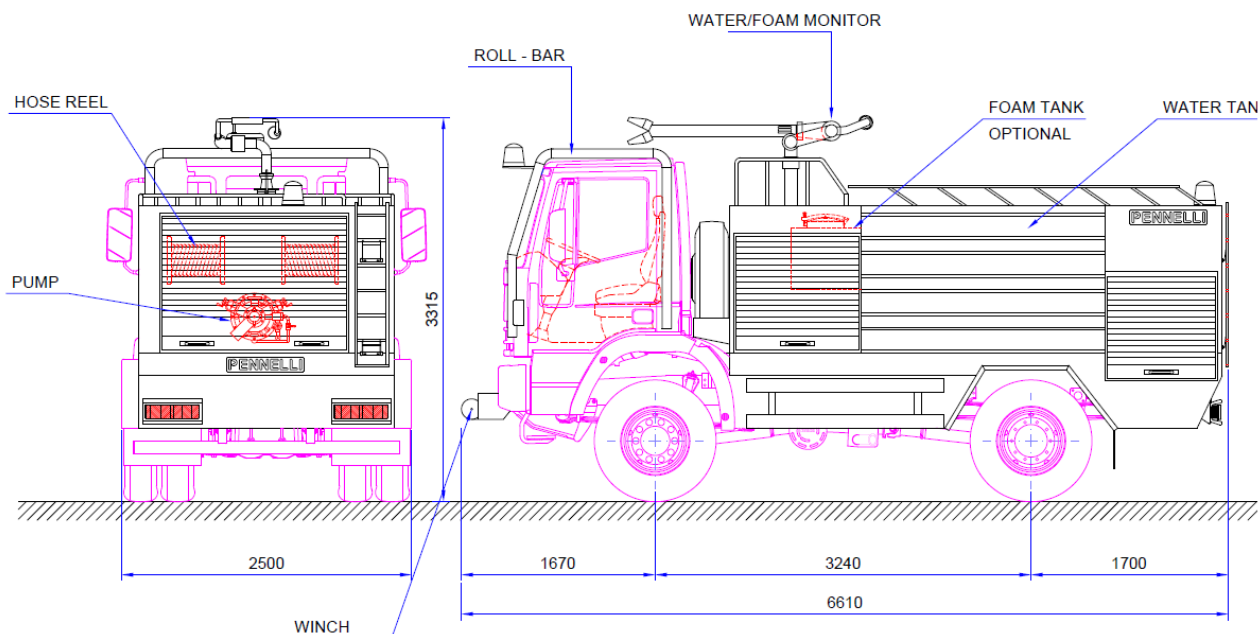
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TECHNICAL FEATURES AND VEHICLE PERFORMANCE

IVECO FF **140E28** W/RS fitted with **PENNELLI FOREST FIRE-FIGHTING** lt. 4.000

Data PENNELLI EQUIPMENT

Water tank

Water Pump

Water Pump performances

First operation hose reels

Monitor hand operated

Made of Stainless steel capacity 4000l

WATEROUS, mod. HL 300

medium pressure with delivery of l/min. 3.000 at 10 bar
high pressure with a delivery of l/min 400 at 40 bar.

The pump is able to deliver water and/or foam

n. 2 hose reels with electrical winding mounted on the rear part of the vehicle and laterally to the pump.

installed on the front part of the equipment roof, in suitable metallic structure.

It's composed of a rotating structure which allows the rotation on the horizontal plane and the inclination on the vertical plane. The monitor delivery depends on the pressure and on the water flow regulation.

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Data IVECO FF140E28W/RS

Cylinders	6 in line
Displacement	5.880 c.c.
Power max	275 CV (202 KW)
Torque max	930 Nm
Emissions	Euro III
Gearbox	9m+1rs synchromesh
Reductor	Two ratios
Wheels	Singles
Tyre	14.5R20-395/85R20
Suspensions	Parabolic
Wheelbase	3.240 mm
Brake system	Hydro-pneumatic with ABS
Braking corrector	Yes – based on vehicle weight
Engine brake	Yes
Rear parking brake	Yes
Drive	4x4 permanent
G.V.W.	14.500 kg
Max weight allowed front axle	5.500 kg
Max weight allowed rear axle	9.500 kg
Max speed	98 km/h (r=6,95)
Speed limiter	at 85 km/h CEE
Accumulators	143 Ah
Alternator	2.160 W
Driving Cab	Three seats, with roll-bar
Ground clearance	Approx. 3m



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