

TECHNICAL DESCRIPTION “ALL IN ONE 19” SPEXX 2830

SUBJECT: 8000 L tank for water transportation, washing and sanitization, with loading and unloading unit, high pressure front washing bar, front watering bar, rear sanitizer spray bar, and no.2 hose reels. The tank is installed on Iveco ML180 4x2 wheelbase 4185mm.



As part of the brand-new “Clean & Sanify” division, All-in One 19 is a polyvalent equipment which offers the following solutions:

- High-pressure washing and pre-washing,
- Disinfection and sanitization of roads with special sanitizing detergents (bactericidal, viricidal, fungicidal, insecticidal action),
- Purification of spaces from pathogens,
- Watering and dust suppression.

The sanitizing products can be chosen by the customer according to the required type of sanitization.

A sophisticated and innovative onboard management system allows the following operations:

- Tank loading and unloading,
- Water transfer from two external tanks bypassing the main tank, and by means of the pump,
- Watering by means of the front bar
- High-pressure washing by means of the front bar with/without neutral detergent
- Water/sanitizer mix delivery by means of the rear bar
- Washing/sanitizing by means of one of the hose reels equipped with lance, whenever a more specific intervention is requested.

The equipment is composed of:

TANK

Tank with one compartment, having a capacity of 8000 L, built-up in stainless steel sheet AISI 304, 4 mm thick, with dimensions suitable to the truck chassis.

The tank is constructed and mounted as follows:

- stainless steel shells welded together and to the dished ends
- internal anti-sloshing baffles
- supporting saddles with tie rods suitable for fixing the tank to the vehicle chassis. Between saddles and tank a rimmed rubber strip is placed to ensure the tank stability
- n.1 manhole with cover complete with loading port and breather
- n.1 level indicator
- n.1 access ladder to manhole and work platform
- n.2 pieces of flexible hoses with quick connections placed in special lockable stainless-steel carriers
- mud guards for rear wheels

Special rapping of tank and truck cab in yellow colour

PUMPING UNIT



Pumping unit for loading and unloading with multistage centrifugal pump and vacuum pump for priming having the following main features:

- max capacity @2900rpm [LPM]: 700
- max head @2900rpm [m]: 186

The pump is driven by the truck PTO through the hydraulic system. The pump and the PTO are pneumatically controlled from the driver's cab.

The pump is connected to the tank by means of suitable piping, gate valves and connections which allow the tank loading and unloading and the water supply to the bars.

MIXING UNIT



Detail showing the dosing pump for water-sanitizer mixture

Two tanks are positioned on the rear end of the truck for storing and transporting of the concentrated neutral detergent and of the sanitizer. A Venturi mixer, with electropneumatic control, enables the addition of neutral detergent to the front bar to increase the cleaning efficiency. The sanitizer is mixed with water by an electronically controlled dosing pump.

FRONT BARS AND REAR BAR



Detail showing front bars and rear bar at work

POSITION ON THE EQUIPMENT	TYPE OF BAR	FUNCTION	DELIVERED PRODUCT	OPERATED BY
Front (UP)	Low pressure watering bar	streets watering	Water	Electro-pneumatic gate valves, controlled from the driver's cab
Front (DOWN)	HP-Bar (swiveling right/left and adjustable in height)	Streets washing with detergent, and preparing the surface for sanitizing treatment	Detergent	
Rear	Low pressure bar	sanitization	Water-Sanitizer mix	

HOSE-REELS (MANUAL SANITIZING/HP-WASHING) in stainless steel



hose-reels compartment and the operator using sanitizing lance

The hose reels enable the operator to carry-out accurate and precise tasks. The hoses are placed on the right end of the truck:

POSITION ON THE EQUIPMENT	CONNECTED TO	COMPLETE WITH	FUNCTION
Right end of the truck	Water system	15m of hose and sanitizing lance	Manual sanitizing operations
Right end of the truck	Water system	15m of hose and washing lance	Manual HP washing

CONTROLS INSIDE THE CAB



Digital display installed in the driver's cab

Controls placed on the screen sides enable:

- The switching ON/OFF of the pumping unit,
- The opening of the front and rear bars valves,
- The adjusting of the front washing bar,
- The opening/closing of the mixing valves,
- The check of the water and the cleaner levels.