

How are large means of transport washed and sanitized?

PNR designs and manufactures two cleaning and sanitation systems for large means of transport

SCENARIO FOR THE SECTOR

The external washing of large public or commercial means of transport -**such as trains and trucks**- is an important application for PNR products. It's a highly specialized field that requires **high quality technical solutions that our company is able to provide.**

In general, it is possible to identify **three cleaning phases** for commercial vehicles such as trucks and trains:

1 | PRE-WASH: in this phase a pressure washer -which could be fixed, mobile, with hot or cold water- is often used;

2 | MAIN WASH: softened dirt is removed from the vehicle with shampoo or foam. This is the phase during which the roof, sides and even the underbody of buses, trucks and trains are cleaned;

3 | VEHICLE CARE: an additional program such as waxing can extend the life of the vehicle by protecting the paint from external agents.

Phase 2 **different system configurations** are:



PORTAL: the vehicle is stationary and the brushes move around it;



TUNNEL: the vehicle is in motion and it moves forward, coming into contact with the brushes - that are still.

These systems can be equipped with rails and guides for washing the vehicle underbody;



SINGLE BRUSH SYSTEM: the scrubbing brush is mounted on a mobile trolley which an operator moves along the sides of the vehicle;



BY HAND: in particular for airplanes, washing is often still done by hand since it is not recommended to pass the vehicle through the washing tunnel due to the presence of wings and tail.

It is also not possible to use automatic brushes due to the danger of scratching sensitive parts such as sensors and radios.



A current problem: the sanitization of trucks exterior

PNR designs a portal for the sanitation of trucks



THE PROBLEM

Large means of transport such as trucks, traveling continuously and also covering long distances, represent a potential danger for the spread of viruses, bacteria and in general of harmful substances.

PNR has therefore responded to the need to sanitize the exterior of trucks and large vehicles with a particular **variation of its SaniGate sanitation solution: the SaniTruck.**

PNR SOLUTION

PNR has designed a system suitable for the sanitation of vehicles that can be customized according to the type of vehicle to be sanitized and the degree of sanitation required. It's designed to be easily transportable and quickly assembled.

SaniTruck consists of a stainless steel tube portal with integrated spraying system. The sanitising liquid is sucked directly from the containment bin located near the SKID pumping unit. The system is activated when the vehicle passes through a photocell.

The spray time (from 2 sec up to 2 min) can be adjusted by an analog timer placed inside the control cabinet. The system shall be connected to the mains for its operation.

ADVANTAGES

The **SaniTruck system for sanitizing vehicles** is extremely flexible and adaptable to customer needs.

Its structure, light and easy to assemble, easily responds to the need for sanitation without the need for large assembly works.

INDUSTRY
transport



APPLICATION OF PNR PRODUCTS
sanitation of vehicles



PROBLEM
sanitation of large surfaces



PNR SOLUTION
SaniTruck
stainless steel tube portal
with integrated spraying system



FOCUS ON THE PRODUCT

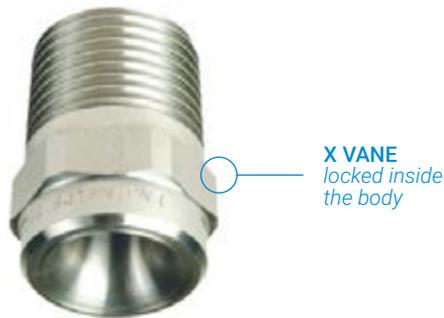
D FULL CONE NOZZLE

X VANE, TWO-PIECE DESIGN

D full cone nozzle with wide passage X-vanes offers a full choice of spray angles, capacities ranging from 1.18 and 1.420 l/min and connections from 1/8" to 4".

The X-vane is safely locked into place for all dimensions up to 3/8", to avoid it may escape from the nozzle body in case of size changes due to temperature variations, and allows to assemble the nozzle with any desired orientation.

Excellent mist effect and a wide variety of applications make D full cone nozzle an optimal choice.



X VANE
locked inside
the body

SANITRUCK FOR THE SANITATION OF VEHICLES
TECHNICAL SPECIFICATIONS

SANITRUCK | 13 DBU 1147 B31 NOZZLES

MATERIAL: AISI 304
 SUPPLY: 220 V 50HZ
 DRIVE SENSOR: INFRARED
 FLOW: 1.47 LPM@3BAR | 2.4 LPM@8 BAR

OPERATING DATA

SPRAY PRESSURE: 8 BAR
 TOTAL LIQUID FLOW: 31.2 LPM@8 BAR
 SPRAY TIME: FROM 20 SEC TO 120 SEC

The characteristics and operating data of the system depend on the type of vehicle and the degree of sanitation required.



SANITRUCK
portal in stainless steel
tubes

SANITRUCK
DEVICE IN ACTION

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