

# INTERIOR CLEANING SYSTEM

## « ASPIROTRAM »



To maintain the interior of vehicles clean, it is necessary to proceed to a regular and efficient cleaning. The interior cleaning systems “Aspirotram” developed by **NEU RAILWAYS** provide assistance to manual cleaning and thereby:

- Speed up the cleaning process on the critical path for daily maintenance,
- Guarantee the result, through the use of proven technology,
- Minimize labour costs, and so optimize the costs of the cleaning operation.

Once the vehicle to be cleaned is stopped in front of the **NEU ASPIROTRAM**, the driver opens front and rear doors and, when the suction bellow is applied on the front or rear door, the **NEU ASPIROTRAM** generates an air flow all along the interior of the vehicle to be cleaned. Dust and waste (i.e. soda bottles, newspapers, etc...) are picked up by this air flow and channeled to the **waste collector chamber**.

Then, heavy objects are trapped and stored into dust bins, while dust are collected into filters, before air exhaust outside the building.

The user may have to put in movement all objects which would remain blocked for example behind the handrails or at the bottom of the seats, during the interior cleaning process.

### CONCEPT

A **NEU ASPIROTRAM** is composed of:

- **One Waste Collector Chamber** equipped with one suction bellow, stackable containers and one fire extinguishing system and in option: an access ramp and one compressed air blower (with cable reel),
- **One Filtration Chamber** equipped with a set of filters, class G4 (i.e. gravimetry of 90 %),
- **One Suction Chamber** equipped with 1 or 2 suction fans,
- **One or two exhaust stacks** for the treated air,
- **One Main Control Panel** which manages the automatic process of the Interior Cleaning System.

Maximal required floor space: 4000 x 2000 mm.

Minimum power supply installed: 60 kW.

Noise level at 3 m (linear) and 1.5 m above the floor: 80 dB (A).

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### CHARACTERISTICS

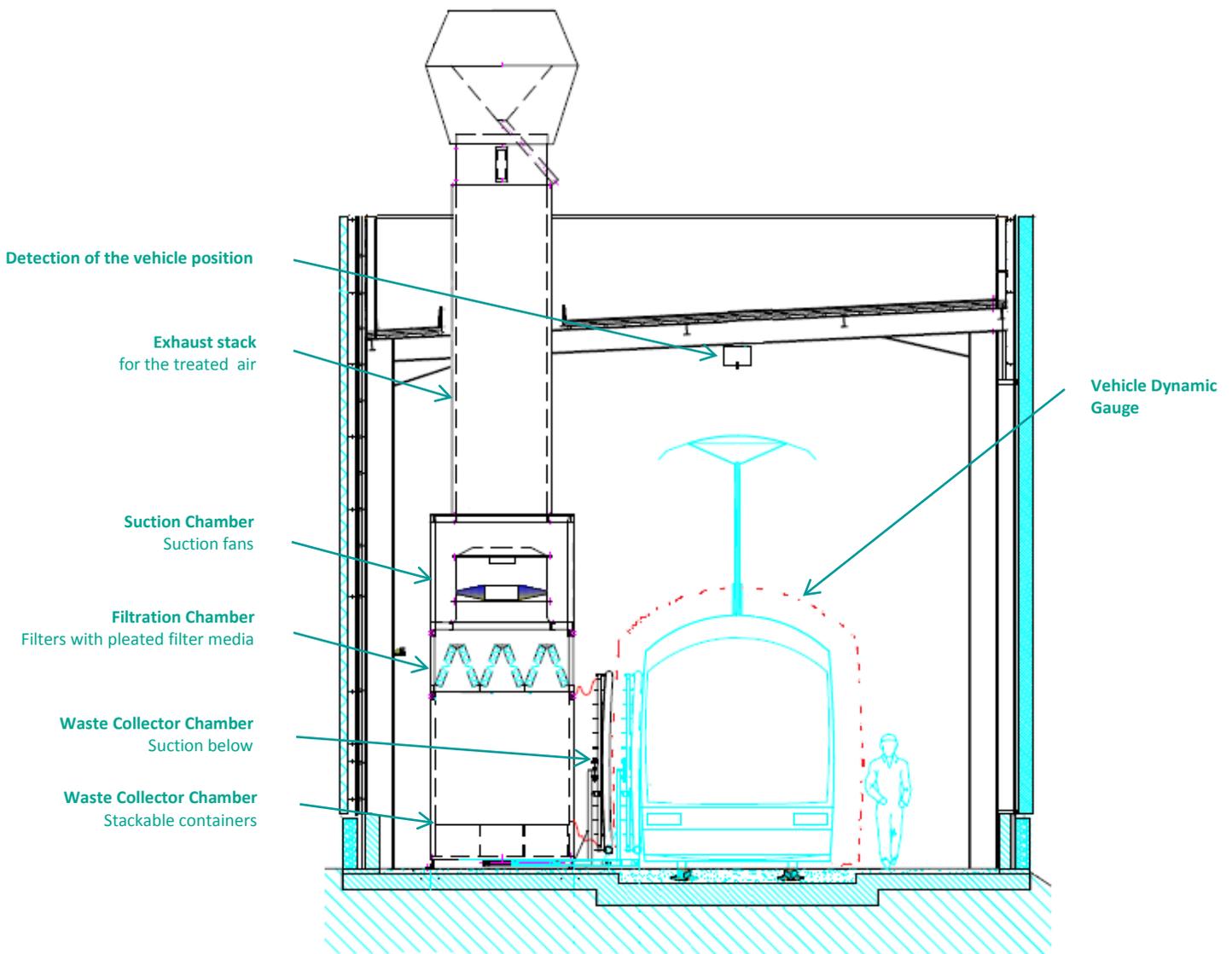
- ✓ Cleaning cycle time : from 1 to 4 min (average time: 2 min)
- ✓ **Waste stackable containers capacity** allowing significant work autonomy (up to 1 m<sup>3</sup> of waste storage),
- ✓ **Suction speed** : 10 m/s inside the vehicle and 8 m/s inside the NEU ASPIROTRAM allowing an intensive and efficient cleaning,
- ✓ **Suction bellow** adapted to the vehicle to be cleaned,
- ✓ Collection of all type of waste (cigarette stubs, boxes, newspapers, cardboard, etc.) and dust particles (steel and organic dust),
- ✓ **No manual operation** required before and after an cleaning cycle,
- ✓ **Reduction** of maintenance costs,
- ✓ **Reduction** of cleaning operation costs.

### NEU RAILWAYS REFERENCES

- Marseille,
- Porto,
- Brussels,
- Rouen,
- Nice.

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## ASPIROTRAM – PRINCIPLE



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