flash cleaner® machine

A SINGLE MACHINE FOR ALL TYPES OF PARTICULATE FILTERS

Manufacturers of machinery
for regeneration since 2002

FCM5000
EVOLUTION

THE COMPANY

Active in the field of regeneration since 1995, NUOVA A.F.R. S.r.l. is an Italian company specialized in the design and construction of machinery for cleaning particulate filters.

Our products are designed and manufactured in Italy

QUALITY MADE IN ITALY

AFTER MORE THAN TEN YEARS OF EXPERIENCE IN THE FIELD OF RECOVERY AND RECYCLING, WAS BORN IN 2008

A.F.R. Air Filter Recycling S.r.l. for the regeneration of used air filters. In the following years, the company acquired valuable expertise in the activity and in 2011 developed the

Flash Cleaner Machine,for the regeneration not only of the air filters, but of all the fine dust abatement systems mounted in motor vehicles according to the regulations in force. The invention of the Flash Cleaner Machine, patented at European level, leads to the birth of

NUOVA A.F.R. Air Filter Recycling S.r.l., which since the year of its foundation continues to develop and offer practical and efficient solutions for the recovery of particulate filters, offering not only high quality products but also competence and reliability.

THE FIRST TO USE WATER

THE METHOD

Flash Cleaner Machine works with a technology based on the combined use of **water and air**. The strong point of this technology is the use of a **single dispensing tube** for all phases of the cleaning process: detection of DPF values, washing and drying. Thanks to this feature, Flash Cleaner Machine optimizes time, space and labor costs.

Not only! Flash Cleaner Machine is able to clean any type of fine dust suppression device of any type of vehicle. For DPF trucks, it performs a **two-way cleaning program** for a guaranteed result: bottom-up / top-down.

The cleaning cycle takes place in four phases

1. Airflow and back pressure test of the incoming DPF. These two values are essential to determine the state of obstruction of the filter.
2. Washing. Flash cleaner machine can work in automatic mode, with a predefined program, or through manual commands.
3. Drying. Drying can take from 20 minutes to 1 hour depending on the size and type of filter.
4. Air flow and back pressure test of the recovered DPF. Measuring the DPF values after the cleaning process is essential to determine the effectiveness of the cleaning.

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DEFINITIONS

- **Dispensing pipe:** the rubber tube supplies air during the back pressure measurement and drying phases; water during the washing phase.
- **Support for truck DPF:** inside the cabin there is a stainless steel platform for cleaning truck DPFs, consisting of a height-adjustable rotating disc and a height-adjustable locking chassis.
- **Washable pre-filter:** the washing water passes through a first PPL filter placed on the work surface inside the cabin. This pre-filter separates solid particles. The filter can be washed and reused.
- **Pressure regulator:** Flash Cleaner Machine must be connected to an external compressor. To clean the various types of filters, a pressure of 4 to 10 BAR is required.
- **Pneumatic actuator:** Connected to compressed air, the pneumatic actuator is used to adjust the height of the chassis.
- **Control panel:** all Flash Cleaner Machine functions can be controlled from the control panel, both using the buttons and the touch display. Here is also the printer that prints the DPF values on thermal paper before and after the cleaning cycle.
- **Electrical panel:** the electrical panel is the heart of the Flash Cleaner Machine. Here are all the electronic components that allow the correct operation of the machine and the execution of its main functions.
- **Connection tube for cleaning from bottom to top:** Flash Cleaner machine can work in two directions. For 100% effective cleaning, after a first cleaning cycle from top to bottom, it is possible to perform a second cycle from bottom to top, thanks to the special connection pipe located inside the cabin.
- **PM10 filters:** after an initial passage through the pre-filter, the water is further filtered by a system of two five-micron filtering cartridges placed outside the cabin in special stainless steel containers. In this way, the water used by the Flash Cleaner Machine is always clean and can be reused.
- **Water tank:** the 180-liter tank has to be filled during the first installation and if necessary when the level drops below the minimum.

TECHNICAL SPECIFICATIONS

GENERAL CHARACTERISTICS

Dimensions	L 1100 x W 1300 x H 2000 mm
Weight	Kg 300
Material	Stainless steel
Tank capacity	180 lt

ELECTRICAL REQUIREMENTS

Voltage	380-400 V
Auxiliary Voltage	24 V
Frequency	50/60 Hz
Electricity	12 A
Phases	3 PH + PE
Energy	5.5 kW

AIR LINE REQUIREMENTS

An external air compressor is required, not included in the machine equipment.

Operating pressure	4-10 BAR
Compressor capacity	100 LT

YouTube

Use the QR code to connect to our site and see videos on how the machine works

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CONSUMABLES

Flash Cleaner Machine is made of stainless steel to ensure greater resistance to oxidation and corrosion.
All machine components, both mechanical and electronic, come from European suppliers.
All machine parts are easily replaceable, have low prices and are shipped via express couriers to all destinations.
Flash Cleaner Machine does not require major maintenance work.
The only periodic operation required is the replacement of the filter cartridges which are integrated in the Flash Cleaner Machine to keep the water and pipes always clean.

THE MAIN CONSUMABLES OF FLASH CLEANER MACHINE:

Filtering cartridges: a set of 2 elements to be replaced approximately every 150/200 cleaning cycles

T8 Plus cleaning liquid: a 25-liter drum which corresponds to approximately 125 clean car DPF, 60 truck DPF, 50 truck SCR

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Nuova A.F.R.

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