ISO 9001
ISO 14001
BUREAU VERITAS
Certification

PROFESSIONAL SYSTEM FOR THE MAINTENANCE AND CLEANING OF PARTICULATE FILTERS

DPF REVIVAL

TB STATION 3000

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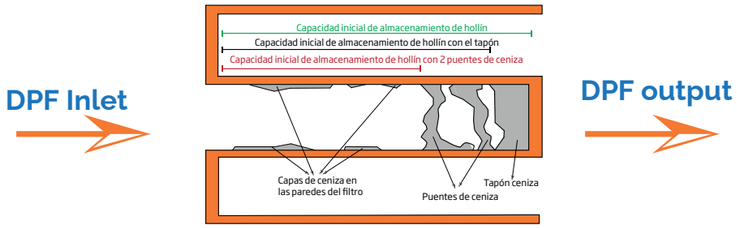
Main problem: accumulation of ash and soot.

When passing through the exhaust gases, the particulate filter captures 85% to 100% of the diesel particulate matter (DPM) captured by the DPF filter, including soot and ash from the engine oil.

Thanks to its advanced technology, our machine is able to eliminate the accumulation of ash and soot on the filter substrate, avoiding negative consequences such as pressure drop in the DPF, reduced engine efficiency and increased fuel consumption.



Costs resulting from particulate filter and catalyst problems

Direct costs

- Towing due to particulate filter failure
- Particulate filter replacement
- Loss of time for repairs
- Penalties for pollutant emissions

Indirect costs

- Loss of engine performance
- Risk of damage to other systems
- Increased fuel consumption

Cleaning operation

The cleaning process through the advanced TB 3100 pneumatic system significantly improves cleaning efficiency by combining blowing and suction simultaneously. This results in complete collection of the dirt present inside the filter. In addition to effective cleaning, this method ensures a working environment free of dirt and unwanted particles.

When used in conjunction with the innovative pyrolysis furnace TB 3300, a progressive heating and cooling of the particulate filter and/or catalytic converter is achieved, thus simulating an automatic regeneration. Thanks to this process, soot and ash accumulated on the filter walls are easily removed, which facilitates and ensures effective and professional quality cleaning.

To check the condition of the filter before and after cleaning, the TB 3200 test module is available, which performs various types of tests. This includes a visual inspection using a light source, depth tests using specific probes of different diameters, and pressure and weight tests of the filter. These tests allow a thorough and accurate assessment of the condition of the filter, thus ensuring proper and efficient maintenance of the system.

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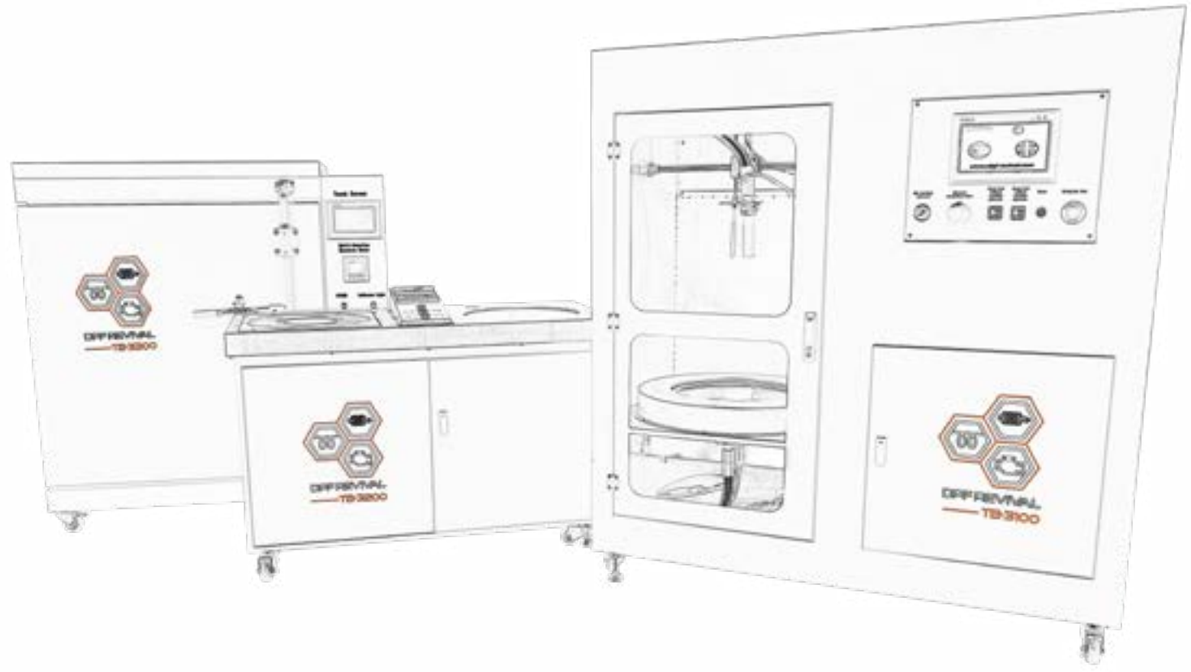
99% efficiency in DPF and CAT recovery.

Total removal of ash, oil and soot.

Rapid return on investment.

New innovative service that generates new customers and opens a new line of business.



Professional system for cleaning particulate filters in trucks, buses and commercial vehicles. Consisting of:

- Cleaning module TB 3100
- Test module TB 3200
- Pyrolysis oven TB 3300

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TB 3100 - CLEANING MODULE WITH BI-DIRECTIONAL SCANNING TECHNOLOGY FOR EACH CELL

It uses unique bi-directional scanning technology to remove soot and ash from each particulate filter cell, ensuring efficient particulate filter cleaning and regeneration.

It includes a bi-directional scanning device, an automatic turntable, a powerful dust collection system, intelligent control units and a touch control panel for all kinds of settings.

Performs cleaning between 15 and 30 minutes depending on the condition and size of the particulate filter.

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Advantages

1.- Each cell clean: the intelligent rotating plate and air scanning nozzles ensure complete cleaning for each individual cell of the particulate filter.

2.- Bi-directional scanning: automatic cleaning is carried out from both ends of the particulate filter simultaneously, achieving optimum cleaning.

3.- Configurable time: the cleaning time is fully configurable, the alarm is automatically activated after the end of cleaning.

4.- Configurable positioning: cleaning areas are adjustable to focus cleaning on specific areas or heavily loaded areas as required.

5.- Fully visible: the top and bottom sides are visible during the entire cleaning process.

6.- Wide range: various sizes of particle filters can be cleaned, fully adjustable diameter between 150 mm and 420 mm with height between 150 mm and 1000 mm.

7.- Flexible adjustment: the nozzle system allows deep access to hard-to-reach flanges and complicated cavities. The particulate filter can be rotated with variable speed.

8.- Two-stage filtration: primary filtration and two-stage HEPA filtration, final efficiency up to 99.97%.

9.- Powerful dust collector: quickly captures ash and soot during cleaning without causing secondary air pollution or harming the respiratory safety of operators.

Technical data

TECHNICAL DATA	
Weight	300 Kg
Dimensions	1660X850X1820 mm
Power supply	220V - 1ph - 50 Hz
Power	3 kw
Air swept pressure	3 - 7 bar
Negative air collection pressure	-0,25 - 0 bar
Air supply	The inlet air pressure must not be less than 8 bar with a production of more than 2m³/min.
Cleaning range	Diameter between 150 mm and 420 mm. Height less than 620 mm
Filtration system	2-stage filtration: cyclonic dust collector and HEPA filter for 2-stage filtration

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TB 3200 - BACK PRESSURE ANALYSIS, WEIGHT AND VISUAL INSPECTION OF DPF OR CAT CONDITION

The test bench is used to measure the particulate filter blockage, soot and ash loadings and report the evaluation data.

Advantages

1.- Back pressure test: accurate back pressure test and blockage assessment for the particulate filter with an accuracy of up to 0.5%.

2.- Light transmission analysis: assessment of particulate filter blockage and detection of cracks and defects in the particulate filter by means of a powerful internal light source showing clogged areas.

3.- Weighing test: measurement of the weight of the particulate filter before and after cleaning to see the difference in weight before and after. The scale has an accuracy of 0.1g.

4.- Probe test: analysis and detection of melted cores or problem areas by inserting wire probes included with the module.

Light transmission analysis

Back pressure test

Weighing test

Probe test

Technical data

TECHNICAL DATA	
Weight	120 Kg
Dimensions	1400X650X900 mm
Power supply	220V - 1ph - 50 Hz
Power	2 kw
Weighing range	0 - 40 kg bar
Negative air collection pressure	-0,25 - 0 bar

TB 3300 - THERMAL REGENERATION MODULE IN CASE OF EXTREME BLOCKAGES

By performing thermal regeneration in addition to cleaning with the bi-directional air cleaning module, we can ensure the best regeneration even for DPFs with severe blockages.

The thermal regeneration module has an intelligent step temperature control, it also injects ambient air while heating to oxidise clogged soot particles.

Ensures that the DPF is in the best environmental condition for regeneration.

The whole process takes about 8 hours. It consists of heating for 2-3 hours, plus the cooling time of 5-6 hours.

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Advantages

1.- Large capacity: with internal dimensions of 750mmx700mmx910mm, the oven allows several particle filters to be introduced simultaneously.

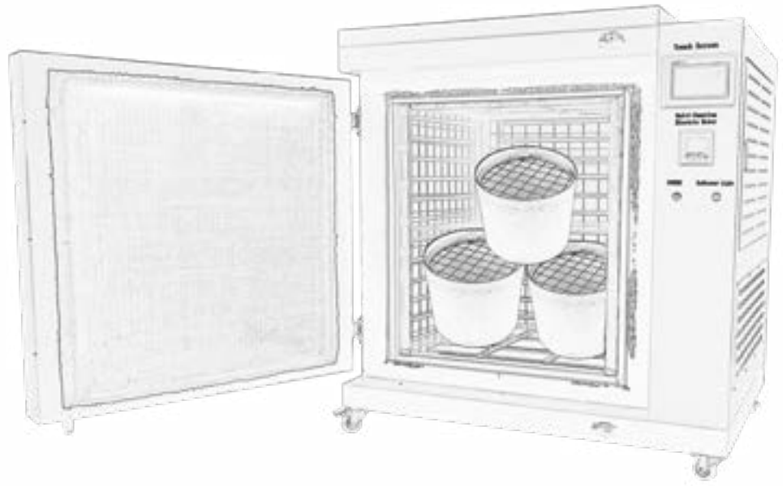
2.- Intelligent temperature control: once the recommended temperature has been reached, it is maintained with a precision of +/- 1ºC, reducing consumption.

3.- Adjustable air flow: the injected air flow can be adjusted with pressure to guarantee the perfect state of regeneration.

4.- Oxygen control: precise measurement of the oxygen in the interior to guarantee a perfect regeneration of the particulate filter.

5.- Quick loading: thanks to the platform for placing the filters, it allows a quick loading without effort using a pallet truck or forklift.

6.- Simple operation: quick and easy configuration through the touch screen.



Technical data

TECHNICAL DATA	
Weight	300 Kg
Dimensions	1410X1080X1500 mm
Power supply	380V - 3ph - 50 Hz
Power	24 kw
Temperature	600 - 800 ºC
Temperature accuracy	+/- 1ºC

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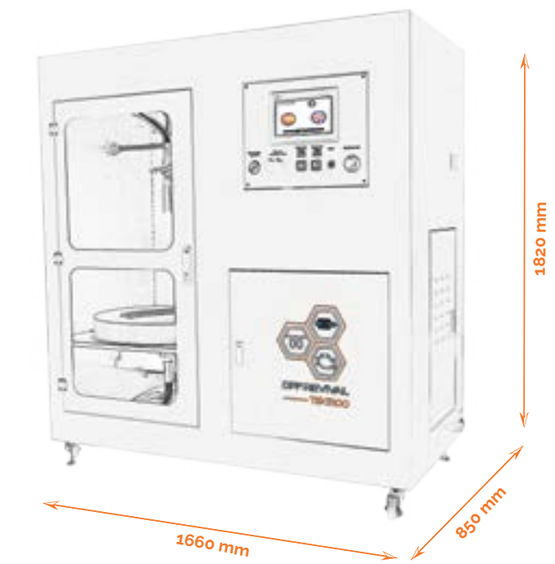
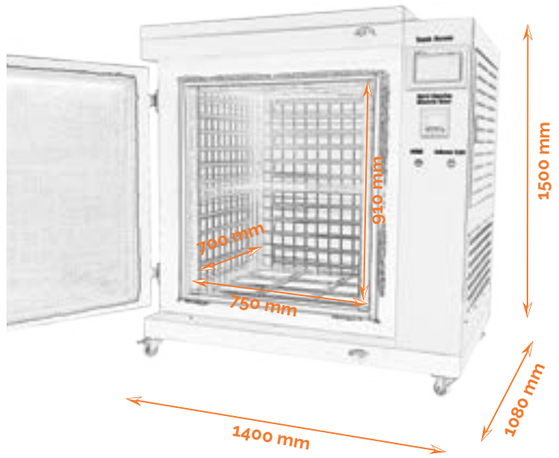
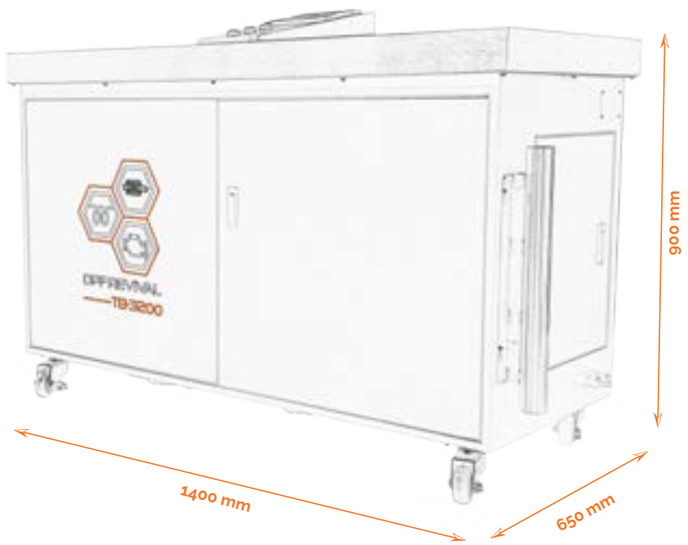
Measures TB 3100



Measures TB 3300



Measures TB 3200



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Optimise your maintenance and recover your investment with our state-of-the-art technology! Our modules offer a complete and professional solution for the care and restoration of particulate filters and catalytic converters - discover the benefits that await you!

Efficiency guaranteed: Thanks to the combination of simultaneous blowing and suction in our TB 3100 pneumatic system, you can achieve deep and effective cleaning, removing all the dirt from inside the filter. Keep your working environment free of impurities and ensure optimum performance.

Automatic regeneration: In collaboration with our pyrolysis furnace TB 3300, you will experience a progressive heating and cooling process that simulates an automatic regeneration. This means that soot and ash will easily peel off the filter walls, facilitating effective and professional cleaning.

Total control: Our TB 3200 test module allows you to verify pre- and post-cleaning status through a variety of tests. Perform visual inspections, depth tests, pressure and filter weight measurements to make sure everything is in top condition.

Smart savings: By investing in our joint technology, you will not only achieve superior results, but also reduce maintenance costs. Our modules are designed to offer a fast return on investment, providing you with a cost-effective and efficient long-term solution.

Don't waste any more time and money on obsolete methods. Rely on our state-of-the-art technology for the maintenance and recovery of particulate filters and catalytic converters to make your business a benchmark of excellence and profitability! Contact us today and find out how our solution can transform your business.

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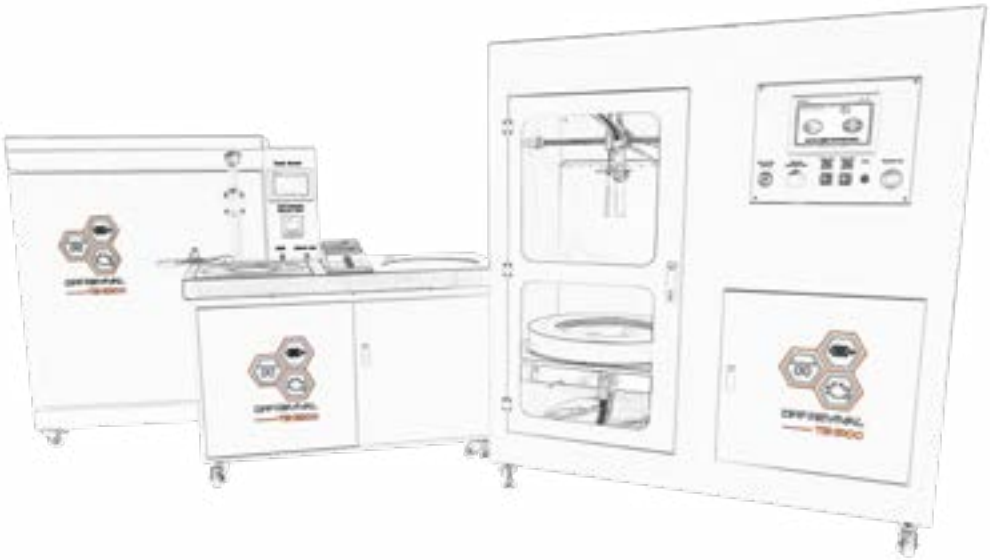

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