

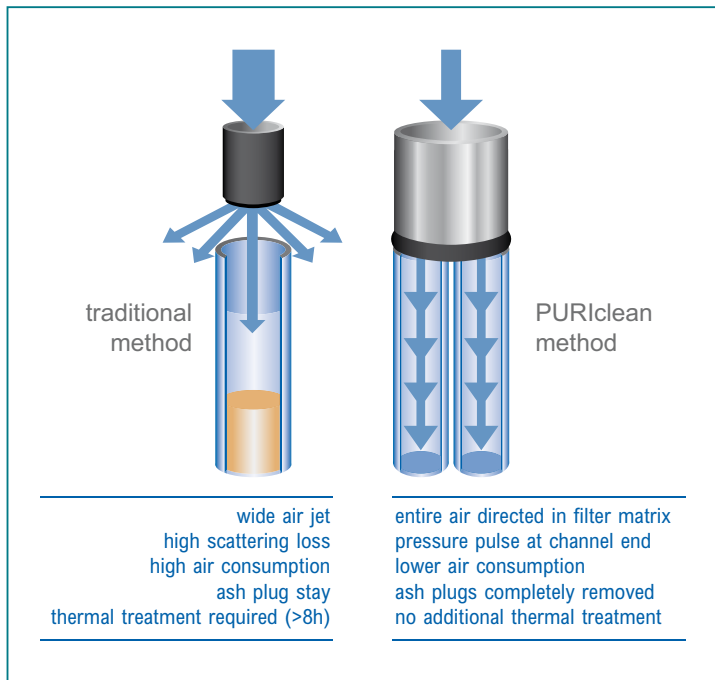




# PURclean

## Diesel Particulate Filter Cleaning Equipment

### The patented technology



**PURclean** the process is currently the only technology available that provides complete filter cleaning even with filters with high cell densities up to 350 cpsi. The high and gentle cleaning performance is made possible by the patented „precision pulse“ air method.

The compressed air pulses with extremely high speed in the channels of the filter matrix. The cleaning nozzle is thereby placed directly on the filter. Therefore wastage can be prevented and ensures the targeted insertion of the entire compressed air in the filter channels. The high pressure momentum achieved in this way acts even at the end of the filter channel and dissolves persistent ash plugs. **PURclean** method achieves a more than 99% cleaning efficiency, and after cleaning the entire channel length is available like a new filter. The catalytic coating remains protected, yet ash deposits are thoroughly removed. The patented gentle method ensures the preservation of the function to > 99%, which is an investment protection for your customers! By other cleaning methods, such as water or dry ice, the catalytic filter coating can be damaged and the filter function decreases dramatically.



**PURclean** with simple filter-handling and „push-button control“ / automatic process.

**PURclean** is designed for all ceramic filters from 3“ to 15“ diameter – regardless of manufacturer.



A cleaned filter – nearly like new!



A damaged and a dirty filter.

### Cooperation with vehicle, equipment, engine and filter manufacturers

Well-known manufacturers rely on the cleaning expertise of **PURclean** and are already working closely with **PURitech** to clean their serial systems for Euro 6 and TIER 4 with the required process safety.

**PURclean** pays for itself over 5 cleanings per day. This innovative technology is available as a workshop facility as well as a full automatic wholesale / series purification system.

The core properties of **PURclean** are:

- Highly effective „precision pulse“ technology
- Diagnosis and measurement for effective process control
- Suitable for all commercially available ceramic filters
- 60-80% greater cleaning power than conventional methods
- 99% cleaning efficiency within a short cleaning time
- Low operating and maintenance cost / space requirements

This combination represents the world's most innovative and powerful cleaning system at this time.

# PURiclean

## Diesel Particulate Filter Cleaning Equipment

### General aspects of the test equipment PURiclean

To enable fast and reliable evaluation of diesel particulate filter, both before and after cleaning, **PURitech** has developed a number of new, patented instruments. This measurement and diagnostic equipment complete the **PURiclean** cleaning system and thus allow a filter cleaning only during regular vehicle maintenance in the workshop. The advantage is that it creates no additional waiting time for cleaning the filter and thus no „down time costs“ for the vehicle or machine.

**This measurement and diagnostic equipment allow:**

- Determine the required cleaning steps.
- Detect any possible damage in the filter element accurately and document it.
- Verify that the diesel particulate filter was purified up to > 90 % in order to ensure that the filter has again the properties of a new filter.

### Measurement and diagnostic equipment

#### PURivision

PURivision is a new optical test set to consider the ceramic filter after the cleaning for damage – especially for cracks (bypass).

#### PURitest

As an essential part of the cleaning process, this instrument is used to check if the high cleaning efficiency has been achieved. It is used for input and output control that is used before and after the cleaning process for quality testing.

#### PURitraining

In order to achieve the best results with **PURiclean** you will receive individual training programs based on our 15 years of cleaning experience.

#### PURideep

Is the complementary measurement process to PURitest. This new physical cell depth test checks whether the ash plugs were removed at the channel end completely. This ensures the full performance of your system – like new filters.

### Technical Data

Major dimension	footprint: 800 mm x 1300 mm, working space min. 1600 mm x 1600 mm x 2200 mm (B x T x H)
Air connections	8 bar – 1000 liters / min, dehydrated, deoiled
Electricity supply	400 V / 50 Hz / 1,5 KW / 16 A (optional 230 V); separate earth (PE)
Weight	250 kg
Exhaust air	Exhaust filtration of air through integrated dust extraction with HEPA filtration. Exhaust air can be discharged into workspace.
Noise level	< 75 decibel
Certifications	CE, ATEX



### About PURitech

**PURitech** specializes in the development of technologies for diesel emission control and has been a market leader for over a decade. **PURiclean** is the result of testing other conventional cleaning methods and then developing advanced technologies during 15 years of cleaning experience with over 50,000 filter cleanings. **PURitech** has many OEM homologations and retrofit approvals all over the world. **PURitech** is the exclusive retrofit partner of Daimler AG for Mercedes-Benz duty vehicles in Europe. You can rely on the judgment of a leading manufacturer.

For further information please contact: