



Our action of offer particularly for you:
Plasma device MiniFlecto® + notebook + pumping stand as a system package



MiniFlecto® – Laboratory plasma device for use in research and development

MiniFlecto® is a laboratory and small series plasma device for use in surface pre-treatment of small components. It has a superior performance in the development and validation of processes in the area of laboratory and development. The manifold applicability of this device extends from cleaning of surfaces (before bonding, soldering, lacquering, printing or gluing), activation of surfaces (for instance before printing, lacquering or gluing), structuring (for instance etching of PTFE) up to coating of surfaces by means of polymerization (hydrophobic or hydrophilic films). With its compact dimensions of approximately 200 x 400 x 400 mm and a chamber volume of 1.7 L, this device is very easily to use, and only takes up very little place. The equipment of the place of work can be arranged individually by means of suited dimensions. MiniFlecto® can be operated easily due to a practical and clearly organised foil keyboard.

Internal control via foil keyboard

As a relevant characteristic, MiniFlecto® does not require a fatiguing programming of process parameters. The device is provided with 10 pre-programmed plasma processes. The designation of the process contains the desired effect such as ‚Cleaning of metal‘ or ‚Activation of polymers‘. Thus, the device also can be operated by users with little experiences in programming. For individual processes, the device can be connected to a PC. The pre-programmed processes can be altered according to individual demands.

Technical data	
Range of application:	Cleaning of surfaces Activation of surfaces Structuring of surfaces Coating of surfaces
External dimensions	
Width x depth x height:	400 mm x 410 mm x 220 mm
Mass:	20 Kg
Vacuum chamber :	stainless steel
Internal dimensions	
Diameter:	approx. 100 mm
Depth:	approx. 210 mm
Volume:	approx. 1.7 Litres
Sight glass for looking into the chamber of treatment nearly 100 mm	

PC control

The device can be connected with a commercial PC or laptop. Using the software programmed by plasma technology, processes can be compiled and stored.

The device also can be switched into a manual operating mode. Each automatic process is documented and can be evaluated and filed via time diagram.



Goods carriers and swing doors

Due to the tubing of the treatment chamber, the components which are to be treated can be put in uncomplicated and without enhanced expenditure of time. Even for special demands of customers, plasma technology also is able to develop and supply most different constructions of goods sheet metals.



Electrode

The form of the electrode is designed so that the optimal plasma propagation in the total chamber is ensured. Thus, perfect results are obtained.

Pressure measuring sensor

The Pirani pressure measuring sensor enables a rapid measurement in a large range of measurement.



Plasma generator

The plasma generator selected by plasma technology was selected under the criteria of ensuring the highest possible homogeneity of the plasma.

Performance	approx. 80 Watt
Adjustable in steps of 10	10-100%
Frequency	24 kHz

Pumping station

Pfeiffer Duo 5M vacuum pump is a compact two-step rotary slide-valve pump in an easy design. The operation takes place very quietly with a low noise level. The maintenance-poor pump develops a suction power of 5 m³/h and is available including an oil mist filter. The time of evacuation up to a process pressure of 0.2 mbar amounts approx. 20 seconds. The time of aeration up to the opening of the door amounts nearly 5 seconds.

