EFT

Application:

The PLC-controlled electronic flame treatment systems of type EFT are, due to their modular design and in combination with appropriately dimensioned burners, suitable for a wide variety of industrial applications as well as for robot applications.

They are used for the pre-treatment of plastic, metal and glass surfaces. Moulded parts, sheets, films and cardboard packaging can be treated in this way.

The system generates a defined gas-air mixture that is fed to the burners for combustion. The resulting flame plasma activates plastic, glass and metal surfaces, allowing printing inks, varnishes, and adhesives to adhere more effectively.

Construction:

The electronic flame treatment system (EFT) consists a pneumatic and an electric cabinet. The burners are connected to the system by means of a flexible tube.

Compressed air is supplied via a built-in blower or a compressed air connection. The flame output can be adjusted, for example, from 30 to 100%. The air and gas flow are monitored by thermal mass flowmeters. All process parameters are output digitally and displayed on a touch panel.

All process parameters are read out digitally and displayed on a touchpanel. Burner output and mixture settings can be adjusted via the touch panel or the external interface.

Technical specifications:

Supply voltage	400 V, 50/60 Hz
Connected electrical load	0.4 – 3.5 kVA
Burner output (air flow)	100 – 4000 l/min
Gas consumption	0.5 – 20 kg/h propane / 0.6 – 24 m³/h natural gas
Compressed air connection	6 – 8 bar
Thermal output	6 – 250 kW
Flame width	according to customer specifications
Control	Siemens S7
Interface	Profinet/Profisafe, hardware, others available upon request
Dimensions W×H×D	800 × 2100 × 400 mm