

Enercon Dyne-A-Flame Surface Treating Systems



Secure adhesion of decorations, inks, coatings, labels



Long lasting, uniform, high treatment levels



Fail Safe Design



Advanced control ensures reliability



Efficient surface decontamination and polishing



Dyne-A-Flame Systems



Dyne-A-Flame optional electronic control



Standard Dyne-A-Flame



Dyne-A-Flame Deluxe

Standard

- Closed loop air/gas ratio control provides constant flame over the entire adjustment range.
- Flow meters for air & gas provide precise reproduction of process parameters.
- Adjustment of flame power with a single control.
- Operates on natural gas or propane.
- Optional integrated electronics package for both local and remote user operation

Deluxe

- Touch screen display
- Precise control of air/gas ratio and power output
- No manual adjustments or calibration procedures required

How flame plasma treating works

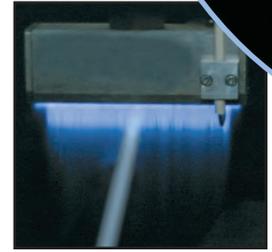
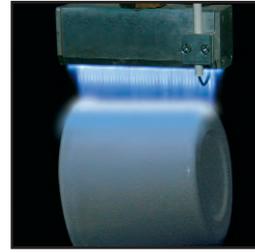
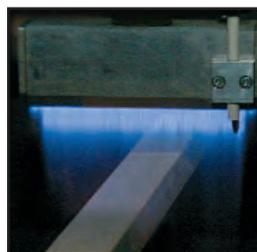
A plasma field is formed when flammable gas and air are combined and combusted to form an intense blue flame. Brief exposure to the energized particles within the flame affects the distribution and density of electrons on the substrate's surface and polarizes surface molecules through oxidation.

This method also deposits other functional chemical groups that further promotes wetting and adhesion. Flame Plasma treatment generates more heat than other treatment methods, but creates greater surface energies with a longer shelf life relative to corona.

Safety Features

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|----------------------------------|--|
| Fail Safe Design | Ceases gas flow if any critical device in the cabinet fails. |
| Safety Solenoid Valves | Prevents gas flow if monitored variables are not satisfied. |
| Pressure Switches | Mounted to air and gas lines to detect adequate pressure. |
| Flame Safety Relay | Monitors flame & controls the redundant safety solenoid gas line valves. |
| Flame Detection Electrode | Works with the flame safety relay to detect flame at the burner. |
| Reverse Flow Valve | Prevents backflow into the gas line. |

Flame plasma gallery of industry applications



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