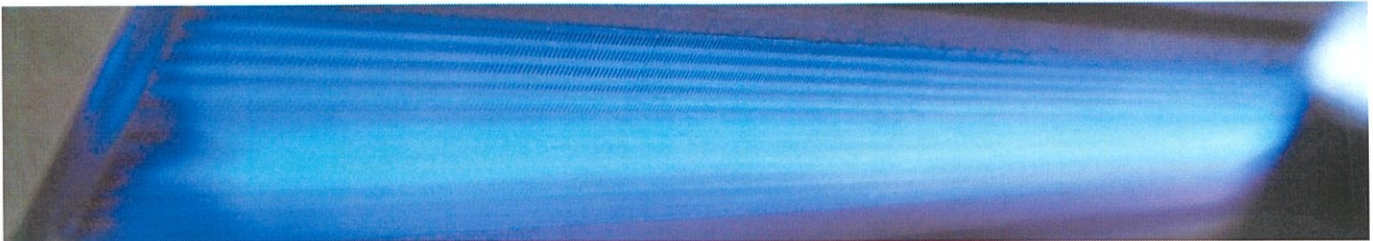


What is a Flame Plasma?

A flame plasma is formed when a flammable gas and atmospheric air are combined and combusted to form an intense blue flame. The surface of materials are made polar as species in the flame plasma affect the electron distribution and density on the surface. This polarization is made through oxidation. In addition, functional groups are deposited on the surface.

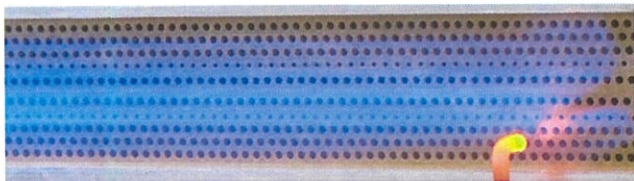
What applications benefit from flame plasma treatment?

Flame Plasma effectively functionalizes BOPP, PET, OPP, PE, Coextruded films, paperboard, metal foils, and foams for numerous product applications in the food, automotive, medical, industrial tape & textile industries.



PowerFlame™ High Velocity Burner Technology

- High-velocity ports for powerful treatment
- Multiple burner designs for optimal dwell time
- Uniform treatment across entire width of burner
- Eliminates laning or striations
- Brass inserts are easily removed for cleaning
- Variable treat widths utilizing burner deckling



High Velocity Design

Flame Plasma Safety

FAIL SAFE DESIGN

Stops gas flow if any critical device in the cabinet fails

SAFETY SOLENOID VALVES

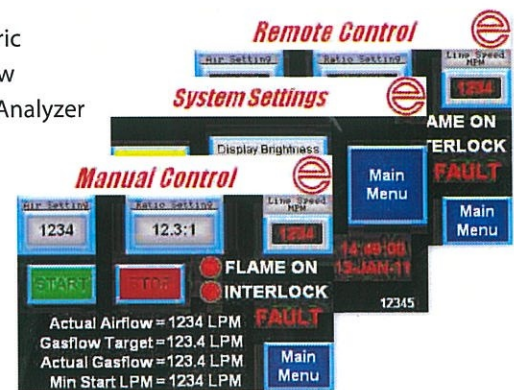
Mounted to air and gas lines to detect adequate pressure

PRESSURE SWITCHES

Works in conjunction with the flame safety relay to monitor the presence of the flame at the burner.

Advanced Combustion Control

- Air/gas ratio control provides a consistent flame over the entire power adjustment range
- Manual
- Volumetric
- Mass Flow
- Oxygen Analyzer



SAFETY SOLENOID VALVES

Redundant valves in the gas train immediately prevent gas flow if any of the monitored variables are not satisfied.

REVERSE FLOW VALVE

Prevents backflow into the gas line

FLAME SAFETY RELAY

Monitors flame & controls the redundant safety solenoid gas line valves

Enercon systems are designed to operate in a maximum ambient temperature of 40°C (104°F) @ 80% relative humidity, non-condensing.

+1.262.255.6070 / www.enerconind.com/treating

Enercon Industries Corp, USA
tel +1 262 255 6070

STA. CRUZ ACAYUCAN 165-001
COL. SANTA APOLONIA
DEL. AZCAPOTZALCO
02790 CDMX, MEXICO.
ventas@ttemsa.com
dgutierrez@ttemsa.com

Telefonos:
(55) 5352-0593
5352-6070
5352-1301
5352-0191

 **ttemsa**
www.ttemsa.com

Flame Plasma for Webs

High Velocity Flame Treatment with Advanced Control

Ideal for cleaning & increasing surface energy of films, foils and paperboard

Enercon Flame Treaters feature a unique high velocity power burner for highly effective and long lasting treatment. Superior web handling and advanced combustion control options ensure reliable and repeatable treatment results.



**Innovative People.
Ensuring Your Treating Success**

**LONG LASTING, UNIFORM,
HIGH TREATMENT LEVELS**

**IDEAL FOR CLEANING
AND COATING APPLICATIONS**

FAIL SAFE DESIGN

**ADVANCED CONTROL
ENSURES RELIABILITY**

**EFFICIENT SURFACE
DECONTAMINATION AND
POLISHING**

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ttemsa
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