

BARE FACTS ON THE MAINTENANCE

Tips On Maintaining Your Enercon Corona Treating System



MAXIMIZE YOUR RESOURCES

Utilize Enercon's Preventative Maintenance Program

Take advantage of all the Preventative Maintenance Program has to offer....



**Inspections
Operational Checks
Cleaning
Adjustments
Calibrations
Training
Spare Parts Inventory
and Best of All SAVINGS!**

Let us do the work! And why not ...we have top of the line equipment and experienced field engineers to ensure your system is running at maximum performance.

Call Customer Service today to find out how you can take advantage of this program (414) 255-6070.



Refresher Course in Troubleshooting Basics

Even "old Pros" need to be reminded of the simple first steps that often make troubleshooting move faster and more efficiently. We have all fallen into habits we think will be a short cut to locating the problem.

So lets step back and review that very early lesson in troubleshooting:

- Talk to the person who reported and observed the problem. Additional information may be gathered to determine the root cause of the problem.
- Allow the operator to run the equipment to demonstrate the problem while the technician checks for errors.
- Check for the simple cures before going more complicated. Check controls, switches, etc.
- Narrow down the problem to either the power supply or treater station
- Check for wire bundle, terminal, or interconnect difficulties if board replacement does not determine the problem.
- Refer to your operating manual. There are several helpful tips both on maintenance and troubleshooting.
- Access Enercon's website, www.enerconind.com, for step by step directions and supporting diagrams.

For further technical assistance, call Enercon's Service Department at (414) 250-3151.

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edge**

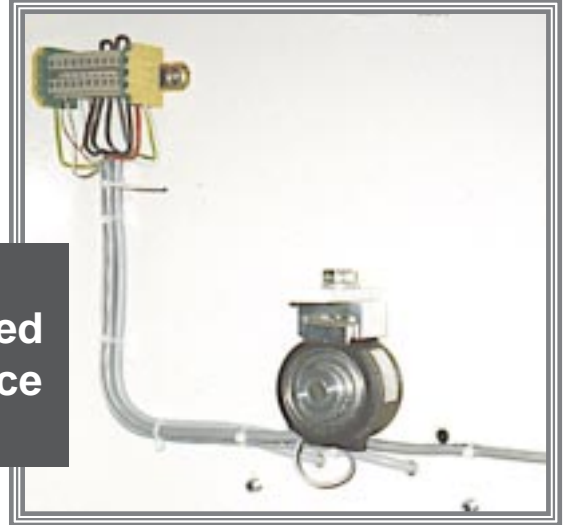
A Philosophy.....
borne of
excellence.....
rooted in
our people.....
& driven by
technology.

Enercon Corona Treating Systems

Improve Your Performance with Enercon's Encoder Upgrade Kit \$435

Replaces Gear & Sensor Assembly

Easy Adjustment
No Orientation Needed
Improved Performance
No Maintenance



The new, state-of-the-art encoder provides a reliable, accurate signal to the Series 2000 or Power Lok II Watt Density Controller and

For more information or to order your Upgrade Kit,
Contact Customer Service at (414)255-6070

REPAIRS, CREDITS, RETURNS...

Help us provide a faster response to all your repairs, credits, and replacements! It is IMPORTANT, when calling our customer service department with a return, to inform us of the following:

- Model, Serial, and Part Number
- Who should we contact with questions?
- Does a repair first require an estimate?

The customer service department will then fax you a packing slip with a return control number. If you are unable to call us before shipping your return please include the above information with packing slip.

THIS WILL PROVIDE
A FASTER RESPONSE!

SERVICE VISITS

For several months now, we have asked for your feedback about the service visits we provide. The brief questionnaires provided us with the feedback we needed. *Did the visit provide a resolution? Did we respond to your requests right away? Was our technical assistance informative?* This program has proven to be effective in building better business relationships with many of our customers. Because we are always looking for ways to improve our service, we will continue to request your feedback. In addition, the same 10% discount on any parts ordered within 30 days of the service visit, will be extended along with this program.

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CAUSES AND SOLUTIONS FOR BACKSIDE TREATMENT

Backside treatment may occur during corona treatment if air becomes trapped between the substrate and the ground roll. The trapped air ionizes when voltage is applied, just as it does in the areas intended for treatment, resulting in an increased surface energy on the backside of the web. This result is commonly referred to as backside treatment.

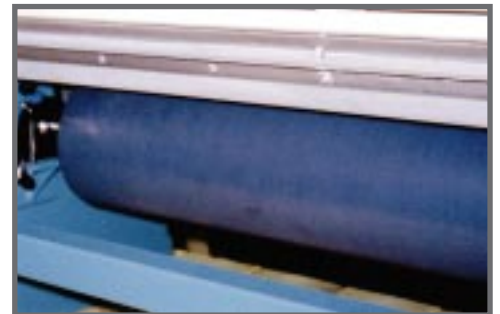


Several conditions can lead to air entrapment on the back side of the web, including wrinkles in the film as it passes over the treater roll, low web tension, and a web moving so fast that it actually lifts off the treater roll. Other possible causes are foreign materials on the roll, such as dirt, oxidation, resin dust and slip buildup.

The intensity of the corona is reduced on the desired treat side of the film and applied to the backside. This is especially evident when wrinkles are present in the film. The backside treatment is easily visible as bands of high and low treatment, running in parallel strips on the material.

Backside treatment can cause weak heat seals in the converting process, problems in the rewind stage, or blocking, making it difficult or impossible to unwind the film. Detecting backside treating involves conducting dyne tests on the backside of the film and comparing the results with the similar test of an untreated film sample.

The appropriate action depends on the cause of the problem. If the unwanted treatment is a result of foreign matter on the roll, the roll must be cleaned and a maintenance program should be instituted to prevent further occurrences of this problem. If oxidation is the problem, it might be necessary to replace the roll with one that has a higher resistance to oxidation or coat the roll surface to prevent oxidation. Generally, a conductive ceramic covering is suggested.



When using a covered roll system, problems with backside treatment can occur as the dielectric surface deteriorates. To prevent this, the covered treater roll must be kept clean and free of all slip, corrosion, resin dust, and foreign materials. It must be replaced when erosion occurs. Erosion can be kept to a minimum if the roll diameter has been properly sized for the application and the corona is allowed only where the film is present. Ceramic covered rolls are the most resistant to this erosion.



Installing a rubber-covered nip roll as an in-feed idler to the treater station will prevent backside treatment caused by a fast moving web, a web with insufficient wrap, or low web tension. The nip roll prevents air from being trapped behind the film. However, nip rolls can not be used with films that stretch.



Special 25th Anniversary Maintenance Planner

The **1999 Monthly Maintenance Planner** is now available. The special Edition commemorates Enercon's 25 years of Products and Service. The handy pocket sized planner is a useful guide for scheduling maintenance and ordering parts. The planner includes the following:

Monthly Calendar- Convenient for recording maintenance reminders. A Maintenance Checklist for each month provides a subtle reminder for maintenance checks that should be performed.

Power Supply Parts Lists- Contains replacement part numbers for Compak 2000, Compak 9000, and Power Lok II power supplies. Reference designators are provided to ensure the proper parts can be easily identified.

Component Identification and Parts Lists- Expanded parts lists and components identification diagrams, including the Electrode Assembly, the Segmented Electrode Assembly, and Treater Station.

Spare Parts- A complete list of recommended Spare Parts and Part Numbers.

Corona Treating Lab/Surface Tension Testing- Enercon's large-scale, 760 sq. foot corona treating laboratory can help you determine the proper pre-treat and post-treat surface tension in dynes/cm., as well as important sizing data for your particular treating applications. Unlike a smaller laboratory, Enercon's lab can effectively test substrates at actual production line speeds and web width, yielding more accurate data.

Additional information included in the planner describes the laboratory facilities and policies for testing materials, the policy for in-house equipment trials, and directions, and local accommodations.

If you wish to receive your free copy of the **1999 Monthly Maintenance Planner**, call Customer Service at (414)255-6070.

**NOW YOU CAN EMAIL US
WITH ALL YOUR CUSTOMER SERVICE NEEDS**

We have made yet another enhancement to our Customer Service Department. Now you can email us directly with any parts orders, service requests, or questions. Just another way of demonstrating our commitment to your business!

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Director of Customer Service



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