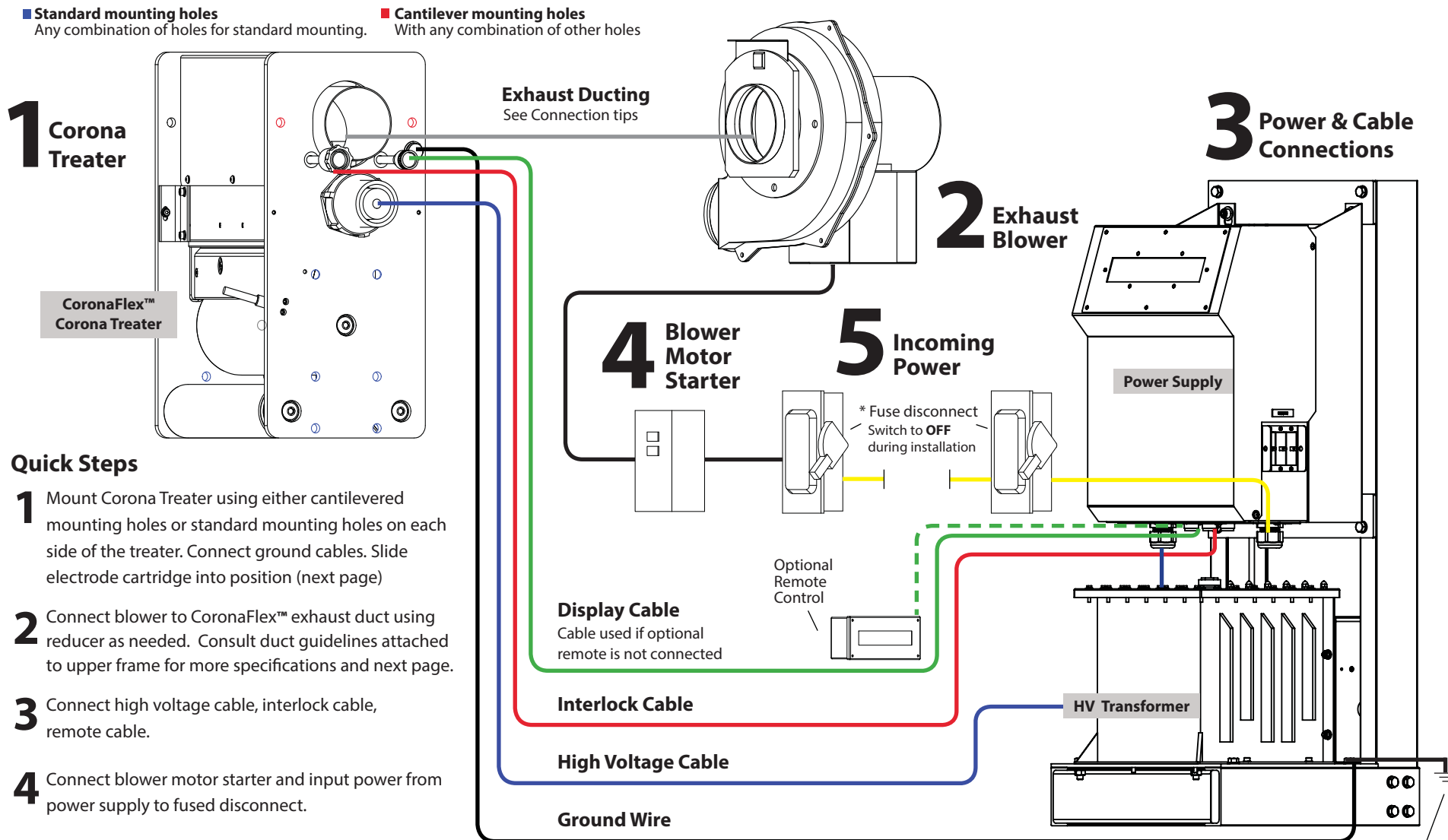


CoronaFlex™ Quick Start Guide



Quick Steps

- 1 Mount Corona Treater using either cantilevered mounting holes or standard mounting holes on each side of the treater. Connect ground cables. Slide electrode cartridge into position (next page)
- 2 Connect blower to CoronaFlex™ exhaust duct using reducer as needed. Consult duct guidelines attached to upper frame for more specifications and next page.
- 3 Connect high voltage cable, interlock cable, remote cable.
- 4 Connect blower motor starter and input power from power supply to fused disconnect.
- 5 Connect power to fused disconnect.

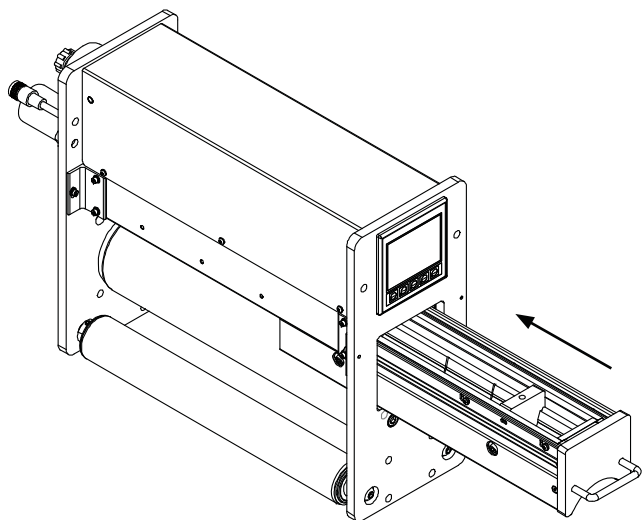


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Customer earth ground must be connected to a minimum 8 American wire gauge cable.

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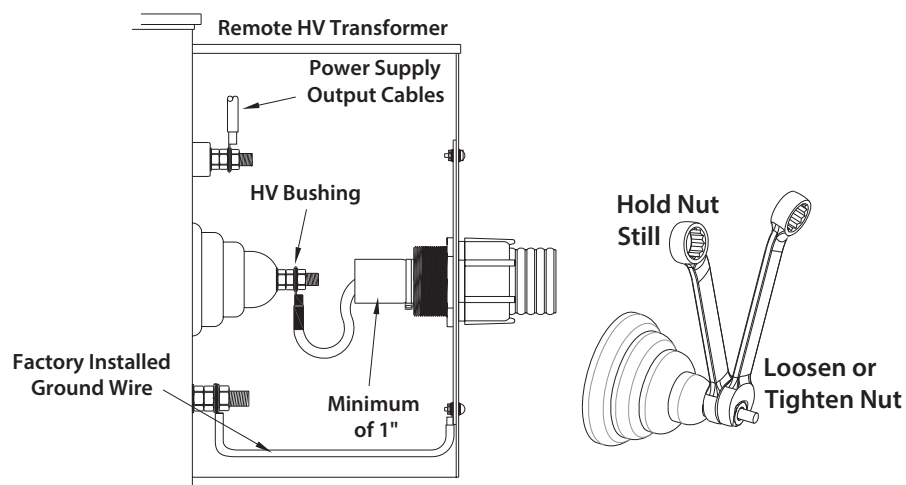
CoronaFlex™ Assembly



Inserting Electrode Cartridge Assembly

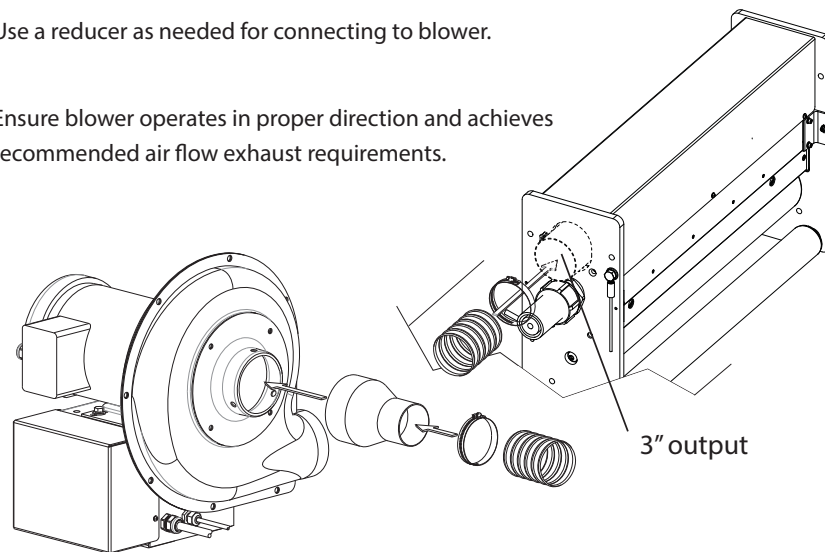
- 1 Align the base of the electrode assembly with the drawer slide.
- 2 Slide the cartridge into position, note that when reinserting the cartridge some pressure is required to reactivate locking mechanism.

High Voltage Cable Connection to HV Transformer Tips



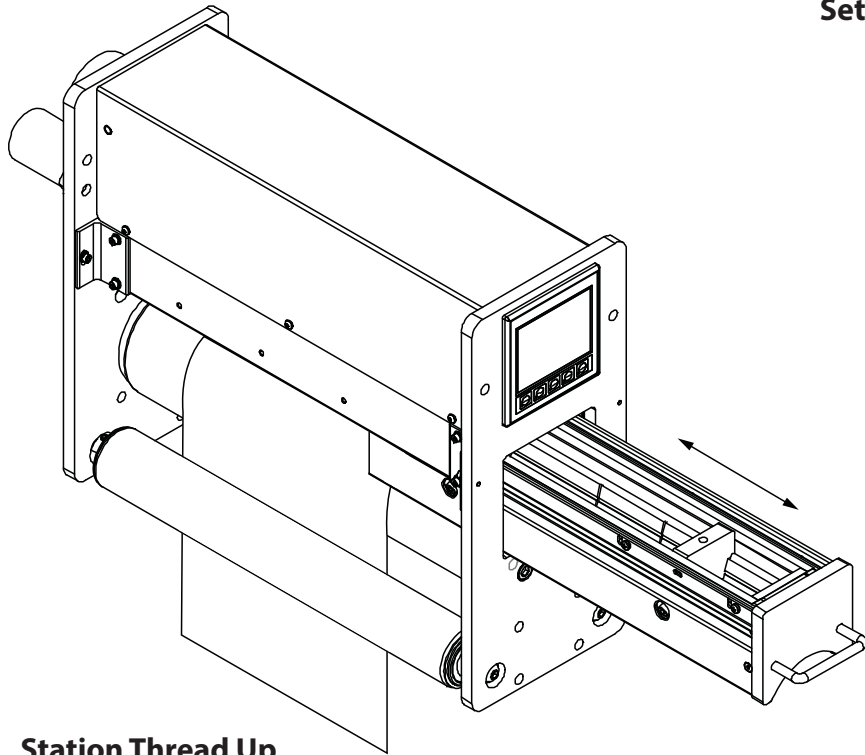
Exhaust Ducting Tips

- 1 Consult Exhaust Guidelines attached to upper frame for proper CFM, exhaust duct sizing, materials and configurations.
- 2 Use a reducer as needed for connecting to blower.
- 3 Ensure blower operates in proper direction and achieves recommended air flow exhaust requirements.



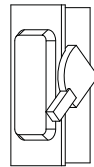
CoronaFlex™ Quick Start Guide

CoronaFlex™ Operation



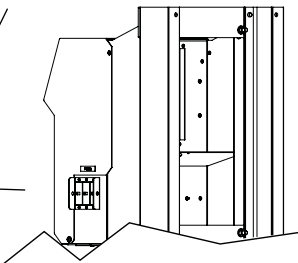
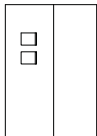
Station Thread Up

- 1 Pull electrode assembly out to drawer lock
- 2 Thread film through Corona Treater
- 3 Push electrode assembly closed

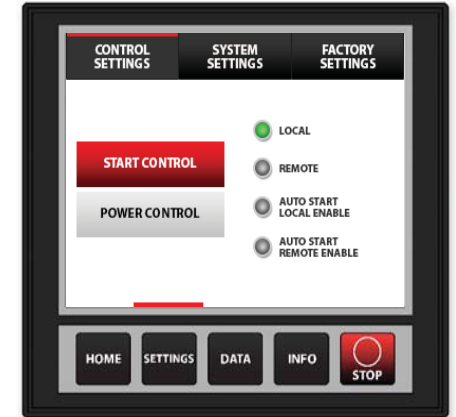


Power On*

- 1 Switch fused disconnect to ON
- 2 Turn Blower ON
- 3 Turn Power Supply ON



Touchscreen Operation Settings



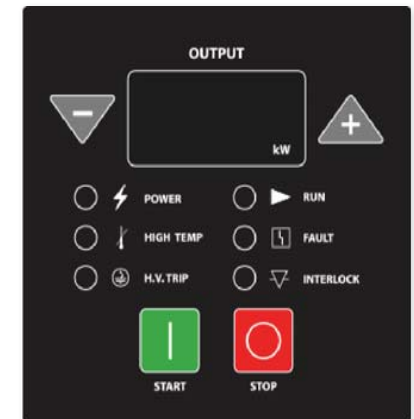
- 1 Set power control to Manual, Computer Interface, Watt Density or Proportional Speed Mode
- 2 Set operation mode - Local, Remote, Auto Start Local Enable or Auto Start Remote Enable

Touchscreen Operation



- 1 Set output level based on your control settings
- 2 Confirm all safety interlocks are satisfied (green). When READY light is green, give START command. If in Local or Remote operations, corona discharge will begin once START command is received. When in either "Auto" operation mode, corona discharge begins when the minimum speed has been met. Screen turns green when corona is generated.
- 3 Press STOP to stop the corona discharge

Standard Operation



- 1 **Power On*** LED's are lit once all interlocks are satisfied.
- 2 When line is up to speed press START, corona discharge will begin. Adjust kW power level as desired with +/- buttons. Run LED lights up when corona is generated.
- 3 Press STOP to stop the corona discharge



CoronaFlex™ Quick Start Guide

CoronaFlex™ Watt Density

Watt Density

The ultimate goal of any surface treatment system is to increase surface tension measured in dynes which then increases the wettability and adhesion characteristics of the surface. This allows you to add value to the substrate through printing, laminating, coating etc.

$$Wd = \frac{PSO}{EW \times LS \times NST}$$

Corona treating systems achieve this by applying a given level of power over a certain period of time to the surface. This power/time parameter is measured in watt density.

Wd = Watt Density (W / ft² or m² / minute)

PSO = Power Supply Output (W)

EW = Electrode Width (feet or m)

LS = Line Speed (ft or m / minute)

NST = Number of Sides Treated

Watt Density Calculator

<http://www.enerconind.com/treating/support/calculators/watt-density.aspx>

CoronaFlex™ Power

What power level do I need?

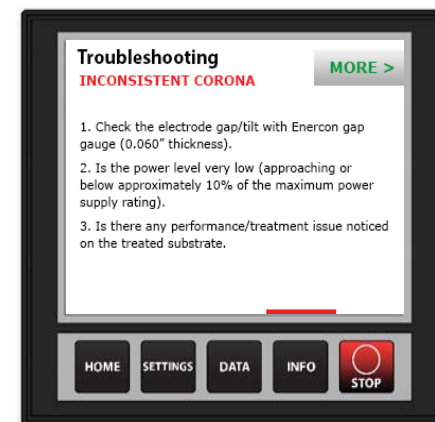
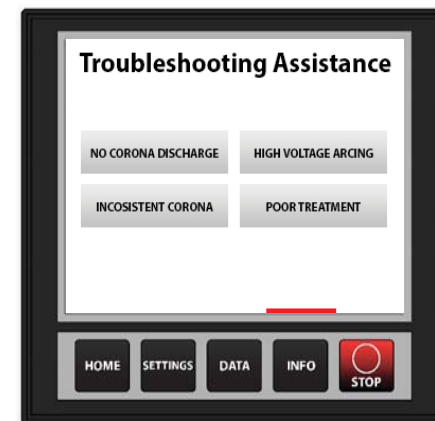
The amount of corona treatment you require may vary based on the film or label stock you are treating. Typically ink manufacturers provide a target dyne level for printing. Conducting a dyne test before and after various treatment levels is a good way to determine the effect of a specific power level for each of the films you will treat.

Please note that a consistent kW output produces different treatment results

if your line speed varies, generally slower equals higher levels of treatment and faster equates to lower treatment levels. To ensure consistent treatment either run your line at a consistent speed or use the watt density control mode (if supplied) to automatically maintain consistent treatment over varying line speeds. Ultimately, the success of your final process should be the guideline in determining the amount of corona treatment for your application.

CoronaFlex™ Troubleshooting

1 Press HELP for assistance



CoronaFlex™ Support

Thank you for choosing Enercon. Our team is committed to ensuring your success.

If you need any assistance please call us at **262.255.6070**
or e-mail service@enerconmail.com



CoronaFlex™ Quick Start Guide

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