

CORONA EQUIPMENT TRANSFORMER & CONTROL CABINET



Corona Equipment Transformer & Control Cabinet - ToronCorona™ CH Series

ToronCorona™ CH Series Corona Equipment Transformer & Control Cabinet is a high-performance power and control system designed to support industrial corona surface treatment processes. Engineered as the core electrical unit of a corona treatment machine, this system delivers stable high-frequency, high-voltage output required for consistent and effective surface activation.

This advanced corona treatment equipment integrates intelligent power matching, real-time protection monitoring, and oil-immersed high-voltage transformer technology. The system ensures safe, efficient, and precise control of corona discharge across a wide range of production speeds and materials, making it suitable for continuous industrial operation.

APPLICATIONS

Corona Equipment Transformer & Control Cabinet - ToronCorona™ CH Series Applications

The ToronCorona™ CH Series is used as the power and control backbone in corona surface treatment systems for:

- Packaging and Flexible Films – Provides stable corona power for improving ink, coating, and adhesive adhesion on plastic films.
- Aluminum Foil and Metal Processing – Supports corona surface treatment of aluminum and copper foils to enhance surface energy and cleanliness.
- Paper and Coated Substrates – Enables controlled corona discharge for improved printability and coating uniformity.

- Battery and Electronics Materials – Supplies precise high-voltage control for surface activation in electrode and functional material production.
- Industrial Converting Lines – Integrates seamlessly with high-speed coating, laminating, and slitting equipment.



Standards

- CE Certification – Confirms compliance with European safety, electromagnetic compatibility, and electrical standards.
- ISO 9001 – Certified quality management system ensuring consistent manufacturing and product reliability.

FEATURES

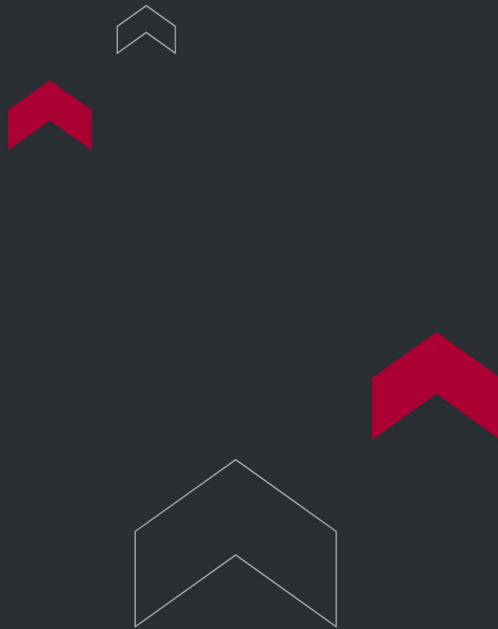
Corona Equipment Transformer & Control Cabinet – ToronCorona™ CH Series Key Features

- Intelligent Protection System
 - Automatic protection against over-temperature, over-current, short circuit, cylinder opening, and drum stop conditions.
- Smart Power Matching and Tracking
 - Real-time matching of output power with line speed and load conditions for stable corona discharge.
- Oil-Immersed High-Voltage Transformer
 - High-efficiency, oil-cooled transformer design ensures long service life and reliable high-voltage output.
- High-Frequency Operation
 - Delivers stable corona discharge with precise frequency control for consistent surface treatment results.
- Optional High-Humidity Pre-Heating Function
 - Enhances corona performance in humid production environments.
- Industrial Control Cabinet Design
 - Robust enclosure with clear status indicators, safety labeling, and easy maintenance access.
- Certified Industrial Reliability
 - Designed for continuous operation in demanding industrial environments with proven electrical safety.

TECHNICAL SPECIFICATIONS

Corona Equipment Transformer & Control Cabinet - ToronCorona™ CH Series Technical Specifications

Model	ToronCorona™ CH 12	ToronCorona™ CH 15	ToronCorona™ CH 25
Input Voltage	220V ±10%, 50/60Hz (110V is also available)	380V ±10%, 50/60Hz	380V ±10%, 50 / 60Hz
Output Power	1-3 kW	4-15 kW	15-30 kW
Maximum Output Voltage	7-12 kV	8-15 kV	8-25 kV
Output Frequency	15-40 kHz	14-40 kHz	15-40 kHz
Transformer Type	Oil-immersed high-frequency, high-voltage transformer		
Protection Functions	Over-temperature, over-current, short circuit, cylinder open, drum stop		
Control System	Intelligent power matching and tracking		
Optional Functions	High-humidity pre-heating		
Certification	CE, ISO 9001		
Application	Corona surface treatment equipment		



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