

CONTROL MODES:

- Simple mode
- Digital protocol
- Operator interface
- PLC configuration

OTHER FEATURES:

- Output discharge control
- Watt density control
- Advanced treatment
- Electrode matching

HV-X Plasma & Corona Generator Series

Power Generators and Transformers
For Vacuum Plasma and Corona Treaters



Tantec's HV-X Generator line is a series of advanced corona and plasma power supplies, versatile for stand-alone surface treaters or as a fully integrated treater component in automated lines built by OEM's.

For stand-alone treaters the HV-X series is either controlled by an operator interface control with a 5.7" graphic touch display including a built-in PLC with 16 inputs and 16 outputs and RS485 Modbus port for data management or via a hard wired PLC interface.

For OEM's the standard RTU 4-Wire Modbus control offers a unique communication platform. Profibus, CANopen and others are optional and require a separate protocol converter to provide instant bus connectivity, i.e. Anybus Communicator.

Generator HV-X02, HV-X10 and HV-X20

HV-X generators are available with 200, 1000 and 2000 Watt power output, and operate with 17 different high voltage transformers in configurations ranging from 2 kV up to 80 kV output voltage. This extensive span provides surface treatment solutions for all products regardless of part size, shape or capacity.

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Control modes:

The microprocessor controlled HV-X series includes four selective control modes:

Simple mode

Only the very basic parameters can be adjusted using the knob and the LCD display on the front panel.

Modbus (Standard)

Full parameter controlling incl. setting, storing, verification and surveillance of all parameters. (Profibus, CANopen and other bus controls are optional).

Operator interface control, Tantec Remote-X. (Optional)

Full parameter controlling incl. setting, storing, verification and surveillance of all parameters.

PLC configuration (Standard)

Via main machine PLC or similar central control the most important parameters can be controlled and adjusted.

Other features:

Output discharge control

Either voltage or power limitation.

Watt density control

Based on parts/min., m/min. or m²/min. (Bus/Operator Interface Control mode only).

Advanced treatment

Timer with 5 modes, 0.02-60 seconds.

Electrode matching

70, 80, 90 and 100%.

Technical Specifications	HV-X02	HV-X10	HV-X20	HT-Transformers
Mains voltage and frequency	100-240 VAC 50/60 Hz	100-240 VAC 50/50 Hz	100-240 VAC 50/50 Hz	400 V
Output voltage/power	Max. 400 Vp 0-200 Watt	Max. 400 Vp 0-1000 Watt	Max. 400 Vp 0-2000 Watt	1-40 kV (17 types) 0-2000 Watt
Power consumption	300 VA	1200 VA	2150 VA	0-2000 Watt
Ramp up time	5-30 ms, depending on power load	5-30 ms, depending on power load	5-30 ms, depending on power load	5-30 ms, depending on power load
Shut down time	<1 ms	<1 ms	<1 ms	<1 ms
Dimensions in mm (LxWxH)	430 x 470 x 200	430 x 470 x 200	430 x 470 x 200	210 x 164 x 218 (Dry) 242 x 242 x 267 (Oil)
Weight in kg	12.5	12.5	14.5	5-11 kg, depending on type of transformer
Operator Interface Control (Optional)	5.7" STN color touch display. Ports: (I) USB - (I) Ethernet. - (I) Serial RS485	5.7" STN color touch display. Ports: (I) USB - (I) Ethernet - (I) Serial RS485	5.7" STN color touch display. Ports: (I) USB - (I) Ethernet - (I) Serial RS485	N/A
Bus communication system	Standard: RTU 4-Wire Modbus, 57.6Kbaud, 8bit. Optional: CANopen/Profibus and others	Standard: RTU 4-Wire Modbus, 57.6Kbaud, 8bit. Optional: CANopen/Profibus and others	Standard: RTU 4-Wire Modbus, 57.6Kbaud, 8bit. Optional: CANopen/Profibus and others	N/A
Regulation compliance	CE – RoHs - WEEE	CE – RoHs - WEEE	CE – RoHs - WEEE	CE – RoHs - WEEE