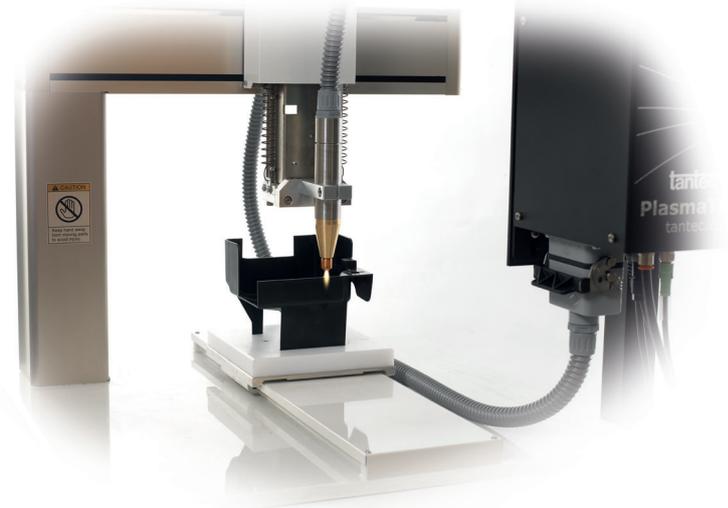


# Product Information

## PlasmaTEC-X - Atmospheric Plasma



### PlasmaTEC-X – Atmospheric Plasma

New Atmospheric PlasmaTEC-X System with highly improved features

**Tantec's New PlasmaTEC-X Atmospheric Plasma treatment system is built around the concept of a high voltage DC Plasma discharge in atmospheric air. The versatility of this unit allows for use in fully integrated robotic cells, as a standalone unit, or most any production line.**

To ensure proper Plasma Discharge from the Discharge Nozzle the compressed air must be within a certain level of pressure and volume, the new AirTEC system, which is built into the PlasmaTEC-X ensures a constant flow to the Discharge Nozzle at all times. With the AirTEC System the Generator automatically adjusts the air flow of the Discharge nozzle regardless of the cable/hose length.

The AirTEC System in conjunction with the universal power input makes the PlasmaTEC-X very user friendly. No adjustments are necessary, simply connect to mains power and compressed air and the unit is ready for use.

A Daisy Chain system is offered where any combination of 1-8 PlasmaTEC-X

Generators can be controlled through a single control unit – the PlasmaREMOTE HMI unit. The units can be controlled individually through conventional relay system or from the Digital interface as a group with the same master signal.

Tantec's latest feature now being offered is "Stand-By air low." Through the HMI an operator can set an air flow during stand-by to avoid dust being attracted to the discharge head.

All connections from the PlasmaTEC-X Generator to the discharge nozzle is made through a standard plug, making it very easy to connect and use. Thanks to the DC technology and the AirTEC system no adjustments are necessary in case of cable length changes.

### TECHNICAL DATA



#### Features:

Easy to install

Potential free discharge

High speed production

Control signals

Automatic discharge air regulation

Standby air flow

Compact and Light weight

Output discharge control

PlasmaREMOTE

### Easy to install

The system must be connected to mains power and compressed air, no adjustment of air or power is necessary.

### Potential free discharge

Allows treatment of both conductive, non-conductive as well as semi-conductive surfaces.

### High speed production

High power Plasma Discharge allows for high line speeds.

### Control signals

A large number of various signals are available on a digital interface to control and monitor the Plasma discharge at all times.

### Automatic discharge air regulation

No matter the length of the power/air cable, the generator will adjust automatically to ensure the correct air pressure and flow.

### Standby air flow

The air flow is controlled electronically which allows for switching the on/off, A minor flow of air is part of stand-by, to avoid dust being attracted to the discharge nozzle.

### Compact and Light weight

Compact and light weight makes the PlasmaTEC-X easy to integrate in almost any production line or robot cell.

### Output discharge control

Should the power drop below a pre-set level, the generator offers necessary alarm signals.

### PlasmaREMOTE

A HMI Control unit offers easy control and adjustment of parameters. The HMI Control unit can monitor and control from 1-8 units of the PlasmaTEC-X.

Technical Specifications	PlasmaTEC-X Generator	PlasmaREMOTE	PlasmaTEC-X Nozzle
Mains Voltage and Frequency	100-250VAC – 50/60Hz (Universal power Input)	N/A	N/A
Output Voltage/Power	550VA	N/A	425watt
Ramp up time	10 ms	N/A	N/A
Shut down time	< 1 ms	N/A	N/A
Control interface	M12 (8 pole)	M12 (4 pole)	N/A
Dimensions (WxLxH)mm	150x470x198	125x169x167	OD30x206mm
Weight in kg	6,1	2,0	1,1 (w. 2 mtr hose)
Treatment width in mm	N/A	N/A	8-14mm
Compressed air supply	5-6 bar, dry and clean	N/A	N/A
Compressed air connection	OD8mm Quick connection	N/A	N/A
Air consumption	N/A	N/A	33 ltr/min
Units per PlasmaREMOTE	N/A	1-8 PlasmaTEC-X generators	N/A
Regulation compliance	CE- RoHS - WEEE	CE- RoHS - WEEE	CE- RoHS - WEEE