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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 flow." 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, furthermore the DC technology offers longer life time on cables as no heat is generated inside cables and hoses

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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.

Digital and analogue 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 AirTEC

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.

Control unit 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	425 watt
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	6 - 12 mm
Compressed air supply	4-8 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