tantec
Plasma & Corona Treaters
Leak Detection

ProductInformation

PlasmaTEC-X OEM - Atmospheric Plasma

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.

The PlasmaTEC-X OEM is based on the technology of the PlasmaTEC device. The PlasmaTEC-X OEM can be used without the Plasma-REMOTE control unit. The target group is mainly mechanical engineers and OEM customers who want to use a single device only and do not require a control unit. The control and monitoring of the device can be achieved through the I/O interface with 24 V signals. An analysis of the operating conditions is also possible through a BUS interface.

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.

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

Features

- **Easy to install**
- **Potential free discharge**
- **High speed production**
- **Digital and analoge control signals**
- **Automatic discharge air regulation AirTEC**
- **Standby air flow**
- **Compact and Light weight**
- **Output discharge control**

TechnicalData

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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 analog 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 flown
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.

Technical Specifications	PlasmaTEC-X Generator	PlasmaTEC-X Nozzle
Mains Voltage and 100-250VAC – 50/60Hz:	100-250VAC – 50/60Hz (Universal power Input)	N/A
Output Voltage/Power:	550VA	425 Watt
Ramp up time:	10 ms	N/A
Shut down time:	< 1 ms	N/A
Control interface:	M12 (8 Pole)	M12 (8 pole)
Dimensions (WxLxH) mm:	150x470x198	OD30x206
Weight in kg:	6,1 kg	1,1 (w. 2 mtr hose)
Treatment width in mm:	N/A	8-14
Compressed air supply:	4-8 bar, dry and clean	N/A
Compressed air connection:	OD8mm - Quick connection	N/A
Air consumption:	N/A	33 ltr/min.
Regulation compliance:	CE - RoHS - WEEE	CE - RoHS - WEEE