PlasmaTEC-X – Atmospheric Plasma
New Atmospheric PlasmaTEC-X System with highly improved features

FEATURES:
- Easy to install and use
- Potential free discharge
- High speed production
- Digital and analogue control signals
- Automatic discharge air regulation AirTEC
- Standby air flow
- Compact and Light weight
- Output discharge control
- PlasmaREMOTE

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 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.

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.

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.
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.

<table>
<thead>
<tr>
<th>Technical Specifications</th>
<th>PlasmaTEC-X Generator</th>
<th>PlasmaREMOTE</th>
<th>PlasmaTEC-X Nozzle</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mains Voltage and Frequency</td>
<td>100-250VAC – 50/60Hz (Universal power Input)</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Output Voltage/Power</td>
<td>550VA</td>
<td>N/A</td>
<td>425 watt</td>
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<tr>
<td>Ramp up time</td>
<td>10 ms</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Shut down time</td>
<td>&lt; 1 ms</td>
<td>N/A</td>
<td>N/A</td>
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<tr>
<td>Control interface</td>
<td>M12 (8 pole)</td>
<td>M12 (4 pole)</td>
<td>N/A</td>
</tr>
<tr>
<td>Dimensions (WxLxH) mm</td>
<td>150x470x198</td>
<td>125x169x167</td>
<td>OD30x206mm</td>
</tr>
<tr>
<td>Weight in kg</td>
<td>6.1</td>
<td>2.0</td>
<td>1.1 (w. 2 mtr hose)</td>
</tr>
<tr>
<td>Treatment width in mm</td>
<td>N/A</td>
<td>N/A</td>
<td>6 - 12 mm</td>
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<tr>
<td>Compressed air supply</td>
<td>4-8 bar, dry and clean</td>
<td>N/A</td>
<td>N/A</td>
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<td>Compressed air connection</td>
<td>OD8mm - Quick connection</td>
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<td>N/A</td>
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<td>Air consumption</td>
<td>N/A</td>
<td>N/A</td>
<td>33 ltr/min</td>
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<tr>
<td>Units per PlasmaREMOTE</td>
<td>N/A</td>
<td>1-8 PlasmaTEC-X generators</td>
<td>N/A</td>
</tr>
<tr>
<td>Regulation compliance</td>
<td>CE - RoHS - WEEE</td>
<td>CE - RoHS - WEEE</td>
<td>CE - RoHS - WEEE</td>
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</tbody>
</table>

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