TruPlasma RF 1000 Air Series

Innovative 1000 W air cooled RF solution

Features

- Plug & Play solution
- Air cooled
- 100 kHz pulsing
- Smart auto frequency tuning
- Highly accurate arc management
- Patented Combineline Technology with true 50 Ω impedance
- Cable length independency

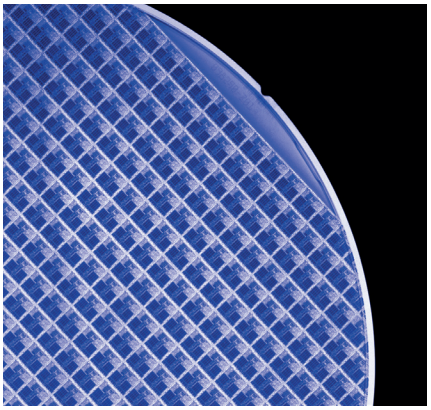
Applications

Semiconductor applications

- Chemical Vapor Deposition (CVD)
- Plasma activated CVD processes
- Etching applications
- Atomic layer deposition
- Atomic layer etch
- Reactive ion etching

Industrial coating applications

- Tool coating
- Hard coating
- Decorative coating



Benefits

	Flexible adaption to the process
	Extremely efficient and cost effective
	Stable process power for best productivity and reproducability
	Substantial contribution to process homogenity and highest uptime

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Technical data

RF output	TruPlasma RF 1000-0.6/13 Air	TruPlasma RF 1000-1/13 Air
Output power	0.6 kW	1 kW
Rated power	0.6 kW	1 kW
Nominal load impedance	50 Ω	50 Ω
Output frequency	13.56 MHz	13.56 MHz
Networking connection data		
Line voltage	190 – 240 V	190 – 240 V
Line frequency	50 – 60 Hz	50 – 60 Hz
Line input power	1.0 kVA	1.6 kVA
Power factor	> 0.9	> 0.9
Communication interfaces		
Sync interfaces	yes	yes
Analog / digital	yes	yes
RS 232 / RS 485	yes	yes
Profibus	no	no
EtherCAT	yes	yes
DeviceNet	yes	yes
Housing		
Weight	< 15 kg	< 15 kg
IP protection class	20	20
Cooling requirements		
Maximum water pressure	Air	Air
Minimum pressure difference	Air	Air
Minimum flow rate	Air	Air
Coolant temperature	Air	Air
General		
Overall efficiency	> 70 %	> 70 %
Certificates / standards	Semi S2, SEMI F47, UL, CE, RoHs	Semi S2, SEMI F47, UL, CE, RoHs
Ambient conditions		
Outside temperature	5 °C – 40 °C	5 °C – 40 °C
Humidity	5 % – 85 %	5 % – 85 %
Barometric pressure	79.5 kPa – 106 kPa	79.5 kPa – 106 kPa

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