



CM 330

POWER SUPPLY FOR 1 kW MAGNETRON @ 2.45 GHz

The CM 330 magnetron power supply is a compact, air-cooled, switch-mode power supply with an integrated filament transformer designed to drive a 1 kW magnetron. The CM 330 is able to power and control 2M244 type magnetrons with a maximum power of 1 kW @ 2.45 GHz. The output power of the CM 330 can be adjusted from 10% up to 100% using an external, linear 0 – 10 V analog signal.

The CM 330 incorporates a power factor correction (PFC) stage that provides a usable input line voltage range from 160 VAC to 260 VAC and also stabilizes the filament control. The compact and innovative design of the CM 330 makes it a highly competitive alternative to traditional, transformer based, power supplies.

The CM 330 is designed to power the MKS, Alter® TXA10 microwave magnetron heads, however it may be used to power electrically compatible microwave magnetron heads from other manufacturers. In addition, it autonomously manages the working status of the magnetron, providing power to drive the correct pre-heating of the filament and to automatically shut off the output power in the event of an alarm condition, such as over current or over voltage of the magnetron.

The CM 330 is enclosed in a lightweight and compact aluminum housing designed to be easily mounted inside an electrical enclosure. Industry standard electrical terminal blocks with separate terminals for all electrical functions provide simple and easy set up. The high voltage (HV) output, carrying the anodic current and the filament current, is available via two preassembled HV wires. As the unit includes the filament transformer, it should be assembled as close as possible to the magnetron, within the length of output wires.

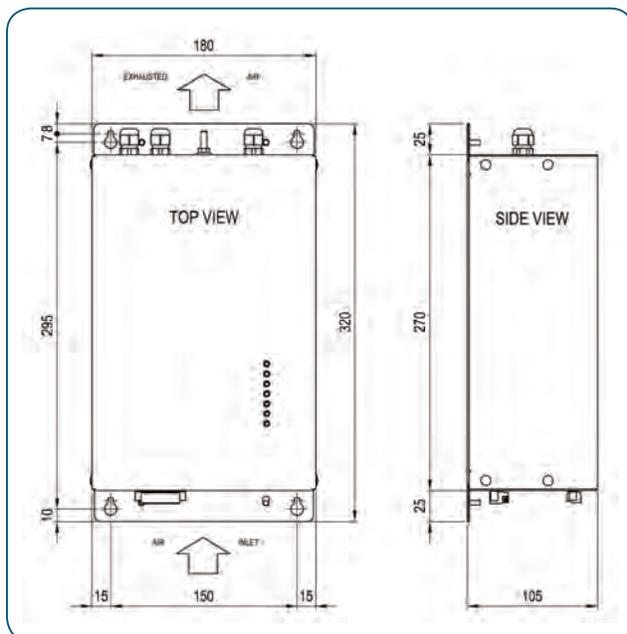
Features & Benefits

- Compact and lightweight form factor makes it ideal for installations where the space saving is critical.
- The CM 330 is a highly competitive alternative to larger and heavier traditional L-C power supplies.
- High efficiency power supply design requiring only air cooling simplifies installation and reduces cost.
- Low output ripple makes it suitable for laboratory and professional oven equipment.
- System designed for easy assembly inside an electrical enclosure, with access to the terminal block on the bottom of the unit and output on the top.



Specifications and Ordering Information

Output Power	1400 W
Input Voltage Range	160 to 260 VAC
Line Frequency	50/60 Hz
Efficiency	92%
Output Current	340 mA
Alarm Management	In the event of an alarm condition, the alarm contact opens, the output power is switched off and the alarm contact is latched. A reset procedure is required to turn the unit back on.
Dimensions	
Width	180 mm (7.1 in.)
Height, total (mm)	105 mm (4.1 in.)
Length, total (mm)	320 mm (12.6 in.)
Weight	3.8 kg / 8.4 lbs.
Cooling	Forced air, 80 m ³ /h
Ambient Operating Temperature (max)	40° C / 104° F
Compliance	CE
Preferred Microwave Magnetron Head	TXA10 (Open frame head, waveguide size WR340), Other manufacturers electrically compatible heads



Dimensional Drawing —

Note: Unless otherwise specified, dimensions are nominal values in millimeters.

Model and Version

CM 330	Standard version, with HV output wires 1 m length
44SET330	Plug set for CM 330
TXA10 Ver. 0	Microwave head, open frame, with 1 kW magnetron, no fan
TXA10 Ver. 1	Microwave head, open frame, with 1 kW magnetron, fan



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