

# Monomode Applicator 500 W, 2400..2500 MHz

Based on Solid State Microwave Technology



## Application

Laboratory device for homogenous heating (up to 1000° C) of diverse ceramic products like silicon carbide in a monomode applicator that used in a measurement device for the reliable and very accurate detection of transition metal like mercury (quicksilver).

## Technical Data

Type of Microwave Generators	Solid State
Power	500 W stepless adjustable in 1 W - steps
Frequency	2400..2500 MHz stepless adjustable in 1 MHz - steps

## Water Cooling

Cooling water flow rate	Minimal 8 l/min.
Water temperature	20° - 25° C
Inlet pressure	min. 3.5 bar, max. 5 bar

## Dimensions

Outer dimension WxHxD	ca. 500 x 420 x 580 mm
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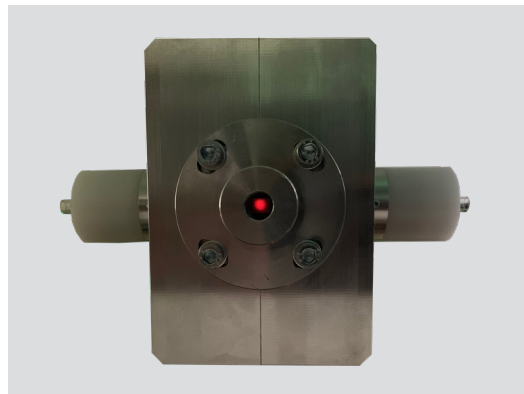
## Features

The loaded tube to be heated is heated homogeneously to 800 °C in 2-3 minutes without movement.

Control unit, which allows infinitely variable presetting of the microwave power in 1 W steps, automatic frequency shift from 2.4 to 2.5 GHz for field homogenization and reflection measurement.

Professional simulation using the software CST-STUDIO.

IR-Pyrometer, which measures the quartz glass surface.



Solid State RF Generator 500 W 2450 MHz