



GENERAL INFORMATION

The laboratory scale microwave rotary tube pyrolysis system is designed for use as a semi-continuous microwave processing unit in the process chain for the pyrolytic purification of silicon granules from solar modules and other granular bulk materials at temperatures up to 1000 °C.

FEATURES

- High efficiency air cooled 2000 W magnetron system
- Water cooled insulator
- Infrared pyrometer for temperature monitoring
- High quality quartz glass rotary tube
- Designed for use with inert gases
- Continuously adjustable rotary drum speed
- Gas scrubbing
- Test material storage tank
- Pyrolysis product collection tank
- Continuously adjustable angle of repose
- LabView controlling software for microwave power control, reflected power measurement, process step programming and process temperature PID control and data storage

Laboratory Scale Microwave Rotary Tube Pyrolysis System

0.2 kW - 2 kW, 2.45 GHz

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SPECIFICATION

Electrical and Technical Data

Output power, frequency	0.2 kW - 2 kW, 2.45 GHz
Supply voltage	3 x 400 V AC, 3P+N+PE, 50 Hz
Current connection	25 A
Total electrical power consumption	6 kVA

Cooling

Water cooling

Water flow	6 l/min, flow control installed
Water temperature	20 °C - 25 °C
Inlet pressure	max. 4 bar

Mechanical Data

Dimensions of housing (WxHxD)	1430 mm x 1555.2 mm x 1127 mm
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