

Microwave Pyrolysis Rotary Oven 8 x 6 kW, 2455 MHz

Based on Magnetron Technology



Application

Laboratory device for increasing the energy and resource efficiency of recycling of organic-contaminated electronic scrap (aluminium).

Technical Data

Type of Microwave Generators	Magnetron Technology
Power	8 x 6 kW continuously adjustable in 1 W steps
Frequency	2455 MHz

Water Cooling

Cooling water flow rate	Minimal 50 l/min.
Water temperature	22.5° - 26° C
Inlet pressure	min. 3 bar, max. 4 bar

Dimensions

Outer dimension WxHxD	ca. 1100 x 2500 x 4100 mm
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Features

Operating temperature 1000° C.

Slider to push the material into the tube.

An outer, gas-tight and fixed jacket housing that reflects microwave radiation and holds it in place.

An inner, gas-tight rotary tube, transparent to microwave radiation, in which the goods are transported. The rotary tube with 3° inclination is driven by a motor whose speed can be adjusted.

Connections for introducing and extracting nitrogen.

Professional simulation using the software CST-STUDIO.

