

COOLPEX Smart Microwave Reaction System

The COOLPEX Smart Microwave Reaction System integrates an ease of use user-interface with an on board allowing remote viewing of sensors and vessels on an Optimized industrial slope (23°) design process.

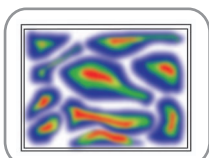
The COOLPEX System, designed for a wide pressure range. The operators can use a classic button pad.



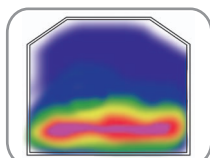
Innovation

Enhanced Microwave Focusing

- Focused Microwave Energy on the Sample
- Homogenous Microwave Field
- High Microwave Efficiency



Microwave in Plain Cavity



Microwave in COOLPEX Cavity

Control & Monitoring

- Remote Observation of Vessels & Sensors is Available through the Built in Video Camera.
- Suiting Human Engineering 23° Board

Safety by Design

- Dual Temperature & Pressure control
- Electronic Door Lock
- Cavity 316L Stainless Steel Construction

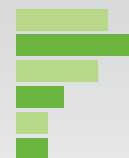
Cavity Space Design

- Excellent Cavity Design "Small Cavity, Big Space"

Turnplate Design (KJ-180 Vessel)

Number	10
Material of Inner Vessel	TFM
Material of Sleeve	PEEK
Volume of Inner Vessel	100ml
Max. Working Pressure	40bar
Max. Tolerance Pressure	100bar
Max. Working Temp.	235 °C
Max. Tolerance Temp.	260 °C

Simpler process » Easier work



Specifications

Microwave Resonant Cavity	Custom Designed Microwave Resonant Cavity
Cavity Material	316L Stainless Steel
Volume of Resonant Cavity	34L
Maximum Microwave Power Output	1200W
Microwave Frequency	2450MHz
Microwave Emission Mode	Non-pulse Continuous Microwave Output
Microwave Control Mode	High Frequency Closed-loop Feedback (PID) Control
AC Power Input	220-240V/50Hz, 8A
Turnplate	KJ-180: 10 Vessels Simultaneous Operation
Pressure Measurement & Control System	Pressure Measurement Range: 0-50bar Pressure Measurement Precision: ± 0.1 bar Pressure Control Stability: ± 0.5 bar
Temperature Measurement & Control System	Temperature Measurement Range: 0-300 °C Temperature Measurement Precision: ± 1 °C Temperature Control Stability: ± 1 °C
Exhaust System	Anti-corrosion Converting-frequency Centrifugal Blower Max. Air-flow Capacity: 3.5m ³ /min
Working Environment Temperature	0-40 °C
Relative Humidity	15-80%RH
Exterior Dimension	600mm (H) × 502mm (W) × 562mm (D)
Weight	46Kg

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