

TOPEX Microwave Digestion System

The TOPEX Microwave Digestion System embodies PreeKem's philosophy combining the intelligent technologies and ease of use. Specifically designed with flexibility for 3 categories vessels, it offers an integrated approach to microwave sample preparation with solid safety protective system and precisely control.

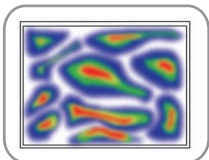
The TOPEX system, designed in Germany, is perfect for sample preparation applications in obtaining excellent analysis results. The operators can choose a preset or customized method via the 7 inch HD LCD screen in just a 3-step.



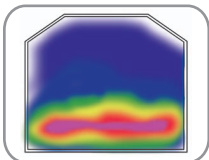
Innovation

Enhanced Microwave Focusing

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



Microwave in Plain Cavity



Microwave in TOPEX Cavity

Control & Monitoring

- Remote Observation of Vessels & Sensors is Available through the Built in Video Camera.
- All Operations are Easily Performed via Touch Screen.

Safety by Design

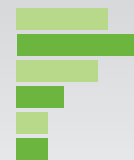
- Dual Temperature & Pressure control
- Electronic Door Lock
- Cavity 316L Stainless Steel Construction

Flexible Accessories Mode

- One Single System offers 3 Categories Replaceable Turnplates.
- Achievement of Wide Application Solutions

| 3 Categories Vessels | KJ-100 | KJ-160 | GT-400 |
|--------------------------|--------|--------|--------|
| Number | 10 | 15 | 40 |
| Material of Inner Vessel | TFM | TFM | TFM |
| Material of Sleeve | PEEK | PEEK | PEEK |
| Volume of Inner Vessel | 100ml | 100ml | 60ml |
| Max. Working Pressure | 60bar | 50bar | 20bar |
| Max. Tolerance Pressure | 150bar | 120bar | 50bar |
| Max. Working Temp. | 260 C | 250 C | 200 C |
| Max. Tolerance Temp. | 300 C | 300 C | 250 C |

Simpler process » Easier work



Specifications

| | |
|---|---|
| Touch Screen | 7" HD LCD Screen |
| Microwave Resonant Cavity | Industrial Special Designed Microwave Resonant Cavity |
| Cavity Material | 316L Stainless Steel |
| Volume of Resonant Cavity | 56L |
| Maximum Microwave Power Output | 1800W |
| 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, 15A |
| Turnplate | KJ-100: 10 Vessels Simultaneous Operation KJ-160: 15 Vessels Simultaneous Operation GT-400: 40 Vessels Simultaneous Operation |
| Pressure Measurement & Control System (For Vessels of KJ Series) | Pressure Measurement Range: 0-100bar Pressure Measurement Precision: ± 0.1 bar Pressure Control Stability: ± 0.5 bar |
| Pressure Control System (For Vessels of GT Series) | Self-regulating Pressure Control to Eliminate the Risk of Over Pressurization |
| Temperature Measurement & Control System | Temperature Measurement Range: 0-300 °C Temperature Measurement Precision: ± 0.1 °C Temperature Control Stability: ± 1 °C |
| Exhaust System | Anti-corrosion Converting-frequency Centrifugal Blower Max. Air-flow Capacity: 5m ³ /min |
| Working Environment Temperature | 0-40 °C |
| Relative Humidity | 15-80%RH |
| Exterior Dimension | 660mm (H) × 540mm (W) × 640mm (D) |
| Weight | 76Kg |