PreeKem

M6

# M6

## Intelligent Microwave Digestion System

ES France - Département Bio-tests & Industries
127 rue de Buzenval BP 26 - 92380 Garches
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# What defines a lovable microwave digester?

Simplicity, convenience, and safety

Take on all sample types


Deliver economic value

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## Guaranteed user friendliness

- Pre-loaded digestion methods
- Intuitive software interface
- Convenient switch between rotors
- Multiple safety features in the hardware

## Guaranteed digestion performance

- Complete solutions to samples of diverse background
- Precise dual temperature/pressure control
- Max batch time (including cooling)  NMT 60 min

## Guaranteed Return on Investment

- Maximized sample throughput (160 per shift)
- Reduced average acid consumption
- Minimized consumables and extended vessel lifetime

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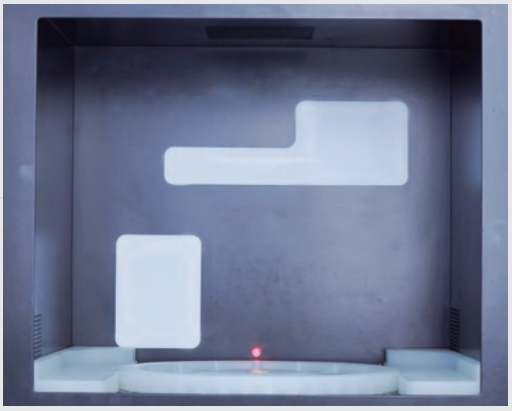
## Oven body

5-year corrosion-free warranty

- 316L Stainless Steel oven body construct
- Seamless Laser Soldering
- 5-Layer Premium Teflon Coating



## Microwave emitter

Proprietary microwave focusing

- Optimized dual-magnetron positioning
- Creative microwave guiding technology to streamline the energy density and distribution
- Delivers rapid, safe, and reproducible batch digestions for as many as 40 samples

## Enhanced safety design

Buffered safety door concept

- Floating Safety Lock
- Automatic depressurize and re-close
- Secure microwave emission upon fully closed door

Microwave in action

Microwave paused

## Vertical rotor release and engagement

- Rotor can be vertically raised or lowered by the motion of mechanically interlocked safety door
- Rotor handling greatly facilitated

Rotor raised when safety door is opened to a ⩾90°

Rotor lowered when safety door is opened to a < 90°

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Microwave Digestion System

## Smart status indicator

- Automatically adjusts the illuminance as the digestion status changes (standby – in progress – complete – standby)

## TwinAir technology - the art of cooling

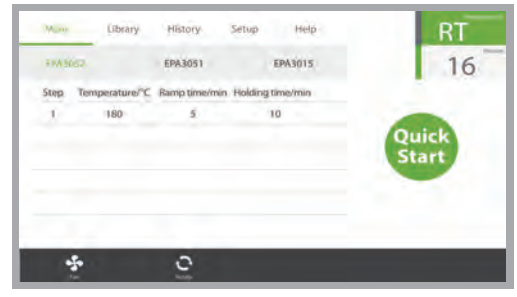
- Rapid duo airway cooling
- Streamlined air passage
- Automatic airflow rate control
- Max 10 min to safe temperature

## Automatic rotor identification

- Enabled by dual photoelectric sensors and high precision motor
- Vessels identified individually
- Intelligent method requisition based on rotor choices

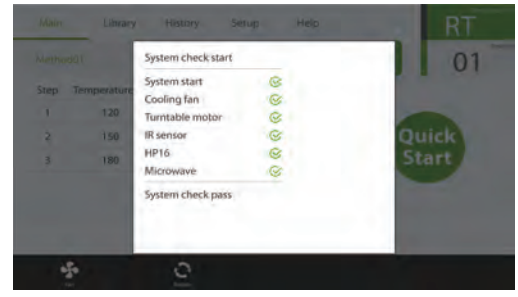

## Hassel-free software interface

- Secured user access
- Simple method setup, edit, retrieval
- Fast track of three recent methods




## Hardware initiation sequence

- Checking the general status of the hardware and readiness of key electronic components

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## Infrared temperature control

### Rtemp enhanced IR Temperature Sensor

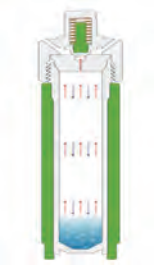
- Powerful and accurate temperature detection
- Instant temperature profiling of digestion process
- Operational convenience by contactless measurement

Rtemp enhanced IR sensor to provide real-time and full characterization of in-vessel temperature of the digestion process

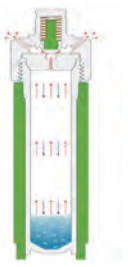
## Precision of pressure control

### Intelligent reaction vessel with Auto-Venting

- Patented self-regulating over-pressure management technology
- Ensures smooth reaction progress and safe vessel operation



Fully sealed



Venting in action

## Easy vessel assembly

- Effortless vessel assembling without tools
- Batch and vessel numbers inscribed on inner vessels
- Hexagonal bottom design to enable easy vessel handling

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## Ultra High Performance rotor UHP10

- Unrivalled temperature and pressure tolerance in microwave digestion
- Tailored digestion solution ideal for the toughest sample types such as graphite, activated carbon, zircon, alumina, etc.
- Guaranteed performance durability and reliability

## High performance rotor HP16

- Greater temperature and pressure tolerance for tough sample matrices
- Max 16 samples in a single batch
- Powered by Rtemp Mid-IR technology
- Contactless and real-time T/P control in full vessel set

## High throughput rotor GT400

- Max 40 samples in a single batch
- Powered by Rtemp Mid-IR technology
- Contactless and real-time T/P control in full vessel set

| Rotor | UHP10 | HP16 | GT-400 |
|---|---|---|---|
| No. of vessels | 10 | 16 | 40 |
| Vessel material | TFM | TFM | TFM |
| Protective sleeve material | Reinforced PEEK | Reinforced PEEK | Reinforced PEEK |
| Vessel volume | 100mL | 100mL | 60mL |
| Max withstanding temperature | 330°C | 330°C | 330°C |
| Max withstanding pressure | 150bar | 150bar | 120bar |

## Specifications

| | |
|---|---|
| Touch screen | 7’ High def colour LCD |
| Microwave oven | Industrial grade resonance oven |
| Oven body | 316L Stainless Steel |
| AC input | 220-240V/50Hz，16A |
| Total power | 3200W |
| Microwave frequency | 2450MHz |
| Microwave emission mode | Unpulsed, ±1W |
| Microwave control mode | PID control |
| Ambient temperature | 5-40°C |
| Ambient humidity | 15%-80%RH |
| Dimension of mainframe | 665(H) × 546(W) × 590 (D) mm |
| Net weight | 70Kg |

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