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What defines a lovable microwave digester?

Simplicity, convenience, and safety

Take on all sample types



Deliver economic value

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

Oven Body

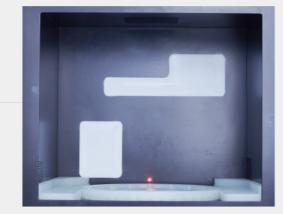
5-year Corrosion-free Warranty

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



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



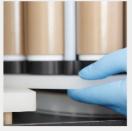




Microwave paused

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 lowered when safety door is opened to a < 90°

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





Infrared Temperature Control

Rtemp Mid-IR Temperature Sensor

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



Rtemp Mid-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



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



Rotor	HP16
No. of vessels	16
Vessel material	TFM
Protective sleeve material	Reinforced PEEK
Vessel volume	100mL
Max withstanding temperature	330°C
Max withstanding pressure	150bar

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	GT-400
	No. of vessels	40
	Vessel material	TFM
	Protective sleeve material	Reinforced PEEK
	Vessel volume	60mL
	Max withstanding temperature	330°C
	Max withstanding pressure	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, $\pm 1 \text{W}$
Microwave control mode	PID control
Ambient temperature	5-40°C
Ambient humidity	15%-80%RH
Dimension of mainframe	$665(H) \times 546(W) \times 590 (D) \text{ mm}$
Net weight	70Kg



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