



MILESTONE PYRO

Advanced Microwave Muffle Furnace

MICROWAVE HARDWARE	
Microwave Cavity	18/8 stainless steel housing with multi-layer PTFE coating
Inlet/Outlet Ports	Upper flange 36 mm ID, lower 19 mm ID, plus additional multiple ports on the side walls
Chassis	Protected against acids and solvents with polymer coating on both inner and outer surfaces
Door Construction	Completely made of 18/8 stainless steel
Door Safety	Self-resealing pressure responsive door. Automatic door locking system
Safety Features	Four independent door safety interlocks to prevent microwave emission in case of improper door closure or misalignment
Exhaust System	Built-in, located on the back of the microwave cavity and separated from the electronics to prevent corrosion. Flow rate 103 m3/h.
Video Camera	Built-in, with PTFE-Teflon foil protection (depending on configuration type).
Microwave Emission	Dual magnetron system with rotating diffuser for homogeneous microwave distribution in the cavity. Exclusive magnetron protection from reflected microwave power
Magnetron Frequency	2450 MHz
Magnetron Output	2 x 950 Watt
Magnetron Control	Continuous and PID-controlled microwave emission at all power levels
Internal cavity illumination	6 high-intensity LED
Power Supply	220-240 V~ / 50 or 60Hz
Power supply safety device	2 Circuit Breaker for Equipment thermal, Snap-in type
Emission and Safety Norms	EN61010-1:2001 EN61010-2-010:2003 UL61010-1:2004 CAN/CSA-C22.2 No 61010-1:2004 CAN/CSA-C22.2 No 61010-2-010:2004 EN61326-1:2006
Microwave Cavity Volume	70,5 L
Microwave Cavity Dimensions	43 W 40 D 41 H (cm)

TECHNICAL SPECIFICATIONS



Overall Instrument Dimensions	54 W 64 D 90 H (cm)
Weight	85 kg
Noise level	75dB
USER INTERFACE	
Control terminal	Model 660 touch-screen 6,5" TFT display. 640x480 VGA resolution with 262K colors. 5 USB ports, 1 RS232 port, 1 LAN port, 2 Video ports
Operating software	Icon-driven multi-language (Chinese, English, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish, and Turkish) software allowing the user the edit, save, and run a virtually unlimited number of methods
REACTION SENSORS	
T1	Direct temperature monitor and control via shielded thermocouple up to 1000°C. For high sample throughput muffle, 1200°C also reachable with muffle space reducer. NIST traceable for ISO and GLP practice available as optional.
T2	Contact-less temperature monitor and control via infrared sensor up to 1200°C in $\pm 3^\circ\text{C}$ @ 1000°C (for ultrafast muffle).
STANDARD METHOD COMPLIANCE	
ASTM D482 ASTM D1506 (Method B) ASTM D2866 ASTM D5184 ASTM D5630 (Procedure A) IP 501 ISO 2171 ISO 3451-1 (A) ISO 3451-1 (C) USP 281 USP 733	

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