



| HARDWARE

- › Microwave cavity: stainless steel housing with multi-layer of corrosion resistant coating
- › Inlet/Outlet ports: large flange with 36 mm ID
- › Chassis protected: against acids & solvents with polymer coating on both inner and outer surfaces
- › Door: completely made of stainless steel, 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
- › Cooling system: selectable speed to ensure fast cooling
- › Microwave emission: single magnetron with static diffuser for homogeneous microwave distribution in the cavity. Thermal switch on the magnetron for protection from reflected microwave power.
- › Magnetron frequency: 2450 MHz
- › Magnetron max power: 1000 Watt, continuous and PID-controlled microwave emission at all power levels
- › Emission and safety norms: UL 61010-1:2012/R:2016-04, UL 61010-2-010:2015-01, CAN/CSA C22.2 No.61010-1:2012/U2:2016-04, CAN/CSA-C22.2 No.61010-2-010:2015-01
- › Microwave cavity volume: 30 L
- › Microwave cavity dimensions: 300 (w) x 300 (d) x 330 (h) mm

| REACTION SENSORS

- › **easyTEMP**: contact-less direct temperature control in all vessels
- › Temperature control: up to 300°C

| USER INTERFACE

- › Control terminal touch-screen 5" display, 800x480 pixel, n°1 USB ports
- › Operating software: icon-driven multi-language software (Chinese, English, French, German, Italian, Japanese, Polish, Portuguese, Russian, Spanish, and Turkish), software with multilevel access allowing the user/administrator the edit, save and run a virtually unlimited number of methods
- › Software features: built-in application library divided by application fields, including all digestion parameters (sample amount, reagents type and volume, time, power, temperature, pressure)
- › Additional features: PDF creator; 21 CFR part 11 compliant; auto-save of the runs

| PRESSURE VESSELS

- › **MAXI-14**: up to 14 vessels, caps and covers made of high-purity PTFE-TFM
- › Reinforced safety shields
- › Vessel volume of 100 mL
- › Maximum temperature 300°C
- › Working pressure 35 bar (ca. 507 psi) with built-in pressure release mechanism on every vessel
- › Rotor handling: one-step-simultaneous removal of all PTFE-TFM vessels
- › **Flexibility**: with the suitable selection of accessories, the system can perform also microwave solvent extraction, microwave synthesis and other microwave applications in a single platform

| MILESTONE CONNECT

- › Web based app for most devices (PC, tablets or smartphones) to control/monitor the unit
- › Database with an extensive library of information (list of parts, technical notes, user manuals, video tutorials, updated application notes, a complete library of relevant scientific articles, and an online help section)



| STANDARD METHOD COMPLIANCE

- › **US EPA 3052:** Microwave-assisted acid digestion of siliceous and organically based matrices
- › **US EPA 3051A:** Microwave-assisted acid digestion of sediments, sludge, soils, and oils
- › **US EPA 3015A:** Microwave-assisted acid leach of aqueous samples and extracts
- › **US EPA 3546:** Microwave extraction of semi-volatile organic compounds, organophosphorus and organochlorine pesticides, chlorinated and phenoxyacid herbicides, substituted phenols, PCBs, and PCDDs/ PCDFs, which may then be analyzed by a variety of chromatographic procedures
- › **ASTM D4309-96:** Standard practice for sample digestion using closed-vessel microwave heating technique for the determination of total metals in water
- › **ASTM D-5765:** Standard Practice for solvent extraction of total petroleum hydrocarbons from soils and sediments using closed vessel microwave heating
- › **ASTM D-6010:** Standard practice for closed vessel microwave solvent extraction of organic compounds from solid matrices
- › **RoHS, WEEE and ELV** Suitable for RoHS (Restriction of the use of certain Hazardous Substances in electrical and electronic equipment), WEEE (Waste Electrical and Electronic Equipment) and ELV (End-of-Life Vehicles) sample preparation
- › **ICH Q3D, USP <232>, <233>:** to be implemented respectively Dec, 2017 and Jan, 2018. EMA and ICH Q3D applicable for authorized drug products in the EU and Implementation of USP new chapter <232>/<233>

| GENERAL INFORMATION

- › Dimensions: 415 (w) x 640 (d) x 665 (h) mm
- › Weight: 50 Kg
- › Power supply: 230 V, 50-60 Hz