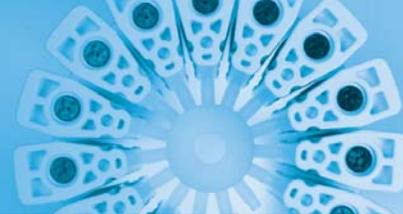


Rotor Guide

Milestone Ethos UP



SK-15

Number of Samples

15

Vessel Volume

100 mL

Max. Temp. & Pressure

Max. Press. 100 bar

Max. Temp. 300°C

Max. Sample Weight

Up to 1 g

Vessel Material

TFM

Venting Technology

Vent-and-reseal



MAXI-44

Number of Samples

44

Vessel Volume

100 mL

Max. Temp. & Pressure

Max. Press. 35 bar

Max. Temp. 300°C

Max. Sample Weight

Up to 0.5 g

Vessel Material

TFM

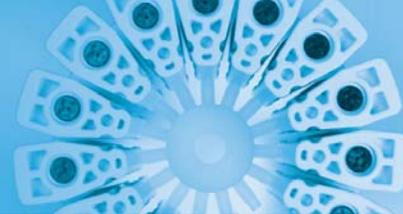
Venting Technology

Self-regulating

Application	SK-15	MAXI-44
Environmental	✓	✓
Food / Feed	✓	✓
Agriculture	✓	✓
Chemical	✓	
Metals / Alloys	✓	
Plastic Polymers	✓	
Catalysts Pigments	✓	
Clinical	✓	✓
Pharmaceutical	✓	
Geochemistry / Mining	✓	
Ceramics Refractory	✓	
Petrochemical / Energy	✓	

*Legacy rotors (SK-10/12, NOVA-8, Q-20, PRO-16/24, and MUP-41) can be used in the Ethos UP. However, the new Ethos UP rotors (SK-15, MAXI-44) cannot be used in legacy Ethos microwave units due to space constraints.



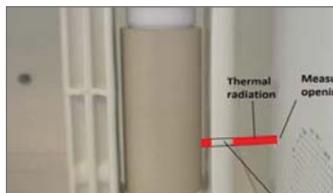


Sensors & Control Modules



Direct temperature control

The direct temperature sensor, standard with the Ethos UP package, is a thermocouple which is much more rugged than fiber optic designs. Temperature in the vessel is displayed in real time via EasyCONTROL software.



Indirect (IR) temperature control

Indirect temperature control is by an IR sensor that measures the external temperature of the vessels. Temperature monitoring in all vessels in real time is displayed via EasyCONTROL software.



Direct pressure control

Direct pressure monitoring and control in a reference vessel. Suitable for method development and challenging 'unknown' samples to keep pressure levels within the vessel's specifications.



Indirect pressure sensor

The P2 sensor detects venting in all vessels simultaneously. Automatically reduces microwave power to prevent overpressure situations. Works in tandem with the "vent-and-reseal" vessels to provide unmatched protection from exothermic reactions.



Magnetic stirrer

Variable speed magnetic stirrer with large turning magnet in base of chassis for continuous stirring, and homogeneous mixing in all vessels.

Vessel Inserts

(Compatibility: SK rotor only)



35 mL and 50 mL Inserts

Designed for ultratrace analysis: manufactured from quartz or extra high purity TFM for lowest possible blank contribution. Also used to digest difficult organics.

Max. temp. 300°C

Typical acid vol. 5 mL



Microsampling Inserts

For very small sample sizes: Quartz or TFM microsampling inserts (3 mL or 6 mL). Increases rotor capacity 3x (SK-15 increases to 45 positions).

Max. temp. 300°C

Typical acid vol. < 2-4 mL