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

<table>
<thead>
<tr>
<th>Application</th>
<th>SK-15</th>
<th>MAXI-44</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Food / Feed</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Agriculture</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Chemical</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Metals / Alloys</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Plastic Polymers</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Catalysts Pigments</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Clinical</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>Pharmaceutical</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Geochemistry / Mining</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Ceramics Refractory</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Petrochemical / Energy</td>
<td>✓</td>
<td></td>
</tr>
</tbody>
</table>

*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-resell” 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