



**MILESTONE**  
H E L P I N G  
C H E M I S T S

**THE FIRST STEP TO**  
SUPERIOR ELEMENTAL ANALYSIS  
WITH A TRUE PARTNER



**ETHOS LEAN**

Compact  
Microwave Digestion



PLUG & PLAY



SMART



COMPACT & ECONOMICAL



EXPERTISE AVAILABLE 24/7



TRUE DIGESTION CAPACITY

## YOUR TRUSTED PARTNER IN SAMPLE PREPARATION FOR METALS ANALYSIS

Sample preparation feeds the AAS/ ICP/ ICP-MS techniques, therefore the analysis quality is directly reliant on this important step. With over 50 patents and more than 25,000 microwave instruments installed in laboratories around the world, Milestone has been widely recognized as the microwave technology leader for the past 30 years. The ETHOS LEAN collects Milestone experience and embraces all these values into a compact and economical solutions for sample preparation, matching the requirements of laboratories that approach microwave digestion without the needs of high-volume labs. Selecting the right digestion system is a key step for your lab. Whether you're setting up a new lab, or improving your elemental analysis, you need a partner that can support you with proper expertise. Some of the most crucial parameters that should be considered when choosing a microwave digestion system include the following:

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RELIABLE AND DURABLE HARDWARE

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USER-FRIENDLY INTERFACE

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ADVANCED REACTION CONTROL

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EASY AND FAST HANDLING

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FAST DIGESTION PROCESS

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### | THE ETHOS LEAN

The ETHOS LEAN was specifically designed to provide high-quality closed-vessel acid digestion for labs with limited throughput needs. The system features reliable hardware, made completely of stainless steel with a corrosion-resistant coating to ensure long durability. The system also offers an intuitive, icon-driven user interface with hundreds built-in methods, advanced reaction control that ensures high digestion quality, and digestion vessels to meet the unique needs of your lab.



# INDUSTRY LEADING TECHNOLOGIES TO ENHANCE YOUR DIGESTION EFFICIENCY



## | PLUG & PLAY



Easy to use and to implement are pivotal ingredients that defines the ETHOS LEAN. From the rotor's ease-of-use to the smart software, the ETHOS LEAN is the plug and play solution for your lab to quickly get up-and-running. The comprehensive Milestone Validation Package further boost the system implementation, enabling to match GMP requirements. The ETHOS LEAN user centric design makes it an essential and reliable tool for elemental analysis, even right after its installation.

## | COMPACT AND ECONOMICAL



The ETHOS LEAN takes almost half of the conventional microwave footprint. The reliability and quality of the components and materials used, along with unique Milestone know-how in microwave sample preparation makes the ETHOS LEAN a great investment even for whom approach microwave digestion for the first time but chase the best-in-class technology.



## | SMART



The easyTEMP technology controls the digestion temperature in all vessels, while the easyCONTROL software provides a large methods library to handle your samples, eliminating the tedious method development. The software, fully compliant with CFR 21 part 11, includes the most advances features to simplify the control of the digestion process.

## | EXPERTISE AVAILABLE 24/7



Milestone Connect provides instant answers to your requirements through a wide selection of application referrals (scientific papers, methods, recovery studies), maintenance tips, training and troubleshooting videos, and list of spare parts. It is like having a Milestone Specialist right at your side 24/7.



# THE PERFORMANCE REQUIRED TO MEET YOUR NEEDS



## MAXI-14 ROTOR

The MAXI-14 rotor features 14 high-purity PTFE-TFM vessels and robust shield to achieve high temperature and pressure. The unique vessels constructions simplify the rotor handling with fast and trouble-free vessels assembly. Safety is ensured in every vessel through the vent-and-reseal technology, invented and patented by Milestone, that acts as individual pressure release mechanism. The rotor operates in perfect synergy with easyTEMP sensor and easyCONTROL software to ensure complete and safe digestions of a wide array of matrices, such as organic and environmental samples in compliance with US EPA methods.

HIGH PURITY PTFE-TFM VESSELS

LARGE VESSEL VOLUME

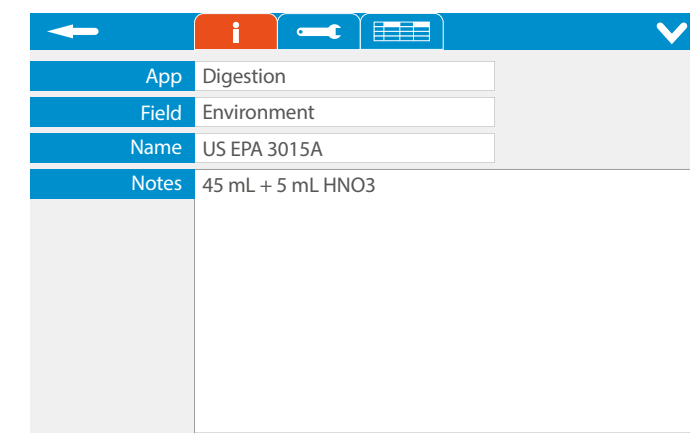
SIMPLIFIED VESSELS HANDLING

WIDE APPLICATIONS CAPABILITIES

INDIVIDUAL PRESSURE MECHANISM

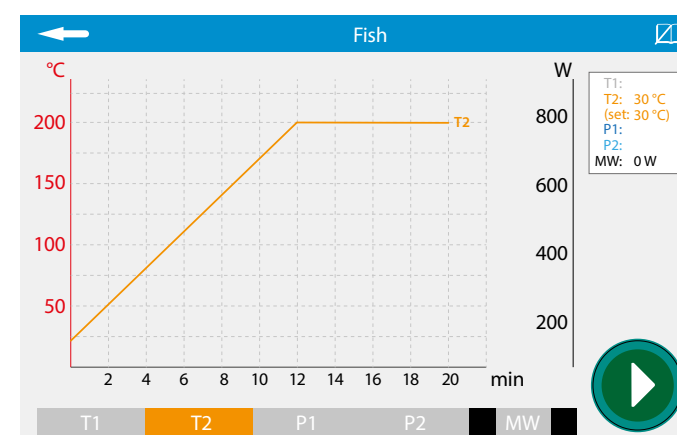


*easyCONTROL software.  
Built-in application library*

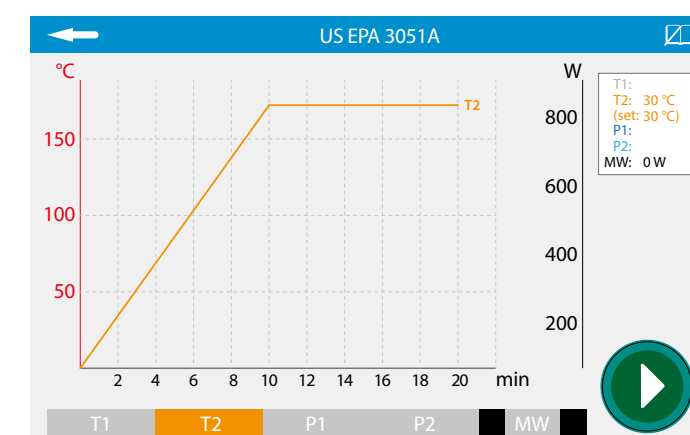


*easyCONTROL software.  
Detailed information on the specific application*

## TYPICAL APPLICATIONS



*Digestion profile of Fish sample  
with 5 mL of HNO<sub>3</sub>*



*Typical digestion profile in accordance  
with US EPA 3051A*



*Environmental*



*Officials*



*Food*



*Pharmaceutical*



*Agriculture*



*Cannabis*

# MILESTONE HELPING CHEMISTS

Established in 1988, Milestone is headquartered in Italy and has offices in Germany, Switzerland, the United States, China, Japan and Korea. We operate worldwide through a network

of over 100 exclusive distributors, all providing our customers premium application and service support. Milestone's mission is to help chemists by offering them the most advanced instrumentation for sample preparation and direct mercury analysis in the world. Our industry-leading technology, in combination with fast, responsive service and applications support, allows Milestone to support our goal of providing you the highest return on investment possible.

## ADDITIONAL MILESTONE SOLUTIONS FOR ELEMENTAL ANALYSIS



### ETHOS UP

High Performance  
Microwave Digestion System



### ultraWAVE

The Game Changer in Microwave  
Digestion



### DMA-80 *evo*

Direct Mercury Analyzer



### traceCLEAN

Acid Steam Cleaning System



### duoPUR/subCLEAN

Acid Purification System

# WWW.MILESTONESRL.COM

## MILESTONE



HELPING  
CHEMISTS

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MILESTONE Srl - Via Fatebenefratelli, 1/5 - 24010 Sorisole (BG) - Italy  
Tel: +39 035 573857 - Fax: +39 035 575498  
www.milestonesrl.com - email: analytical@milestonesrl.com

MILESTONE INC. - 25 Controls Drive - Shelton, CT 06484 - USA  
Tel: (203) 925-4240 - Toll-free: (866) 995-5100 - Fax: (203) 925-4241  
www.milestonesci.com - email: mwave@milestonesci.com

MILESTONE GENERAL K.K. - KSP, 3-2-1, Sakado - Takatsu-Ku,  
Kawasaki 213-0012 - Japan - Tel: +81 (0)44 850 3811 - Fax: +81 (0)44 819 3036  
www.milestone-general.com - email: info@milestone-general.com

MLS GmbH - Auenweg 37 D-88299 Leutkirch im Allgäu - Germany  
Tel: +49 (0)7561 9818-0 - Fax: +49 (0)7561 9818-12  
www.mls-mikrowellen.de - email: mws@mls-mikrowellen.de