



Overview

The Alchemist 1600 is the
culmination of over 20 years
of continuous refinement.

- User-set parameters for time, heat and pressure
- 1000 Watts of variable power
- Advance Safety Systems
- 7" Color Touchscreen
- Easy to Use, Tool-less Finger Tight Vessels
- 1-16 Vessel Capacity
- Storage for 255 Methods
- Triple TFM Coated
- Price Match Guarantee

Simple

Our Easy to use 7" touchscreen can store 255 user installed methods making start-up a breeze. No costly temperature probes to replace or pesky rupture disc to deal with.

Efficient

Our tool-less vessels give you quicker set-up times, eliminating the frustration of searching for tools.

Effective

Powerful tools allow users to set power output 0-1000 watts, time, temperature and pressure. All settings are monitored and controlled by the on-board computer.

Program Method

- General digestion method
- Pure milk
- Skimmed milk powder
- Herb
- Medicine : Capsule
- Meat
- Soil
- Water

Steps	Pressure (Bar)	Temperature (°C)	Power (W)	Heat-time (s)	Hold-time (s)
1	5	100	1000	300	60
2	10	150	1000	240	60
3	20	180	1000	240	600
4	0	0	0	0	0
5	0	0	0	0	0
6	0	0	0	0	0
7	0	0	0	0	0
8	0	0	0	0	0
9	0	0	0	0	0
10	0	0	0	0	0

Program No.

Large 7" Color touchscreen

Alchemist 1600

Microwave Digestion System

System Details

Our patented finger tight vessels are designed to be the safest and easiest to use on the market. Our patented pressure relief system automatically reseals in, the event of an over-pressurization

The high-tensile steel door features double interlocks which ensures operator safety.

Audible Anomaly Detection System will notify the user with an alarm in case of vessel rupture.

The Alchemist 1600's on-board computer can store and edit up to 255 user pre-set methods for fast and easy operation. Each preset method has parameters for time, temperature, pressure, and microwave power (0-1000 watts). 10 common methods come preloaded.

The Alchemist 1600 will automatically adjust power output to ensure your samples stay within the heat and temperature parameters you set.

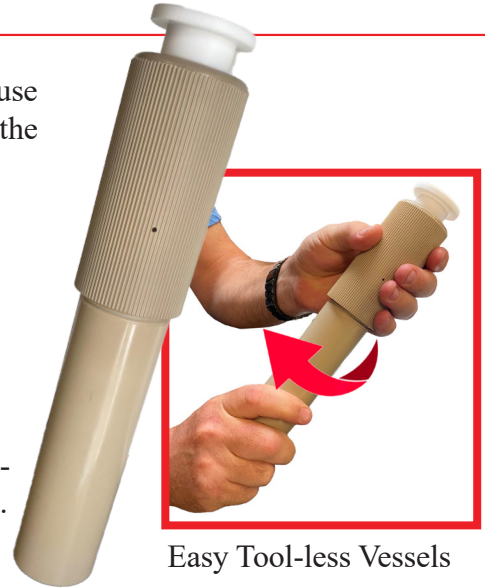
The wireless temperature and pressure monitoring allows our carousel to continuously rotate. This distributes heating more evenly and eliminates carousel motor wear from constant direction changes

The 7" (17.78 cm) color touchscreen displays real-time temperature and pressure reading of each vessel, along with working time and tendency curves.

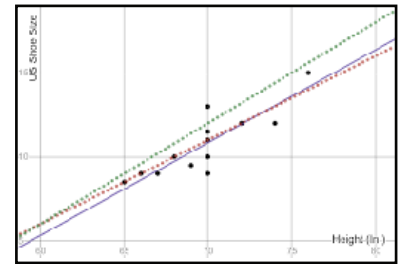
Triple coated TFM coated 316 stainless steel construction ensures years of corrosion resistance.

The Alchemist 1600 can operate with 1-16 vessels.

The system will automatically count the vessels at the beginning of each run & adjust the power accordingly.



Easy Tool-less Vessels
No rupture discs
or costly temperature
probes to replace



Tendency Curve

Alchemist 1600

Microwave Preparation System

System Specs

MODEL	ALCHEMIST 1600
Vessel Quantity	16
Temperature Monitoring System	Contact-less IR Sensor Temperature Monitoring Each Vessel Temperature Controlled Temperature Controlling Range: 0~400°C Temperature Accuracy :±0.1°C Display Accuracy :±0.1°C
Pressure Monitoring System	Contact-less Sensor Pressure Monitoring Each Vessels Pressure Controlled Pressure Controlling Range: 0~15MPa Pressure Accuracy :±0.1MPa Display Accuracy :±0.1MPa
Vessel Volume	50ml
Material	
Protection Vessel Material	Peek + Glass Fiber
Display	7 Inch Touch Screen
Rotation	One Direction 360° continuous rotating
Microwave Tank	316L Stainless Steel tank w/ corrosion-proof coating
Microwave Power	0-1000W (Adjustable)
Microwave Leakage	<5mw/cm ²
Air Exhaust	High power corrosion-proof air blower
Power	220V
Dimension	19.2x22x24.8 inches (LxWxH)
Weight	103.6 lbs

LIMITED TIME OFFER

Discounted Heating Block!



Get a Alchemist 42 Heating Block for 25% off with the purchase of every Microwave Preparation System.

Great for evaporating left-over acids and pretreatment of samples

BUCK
Scientific



Other Products from BUCK!

Atomic Absorption Spectrophotometer

235ATS

- RELIABLE, EASY TO USE
- HIGH ENERGY FOR GREATER SENSITIVITY
- RUGGED BUILD FOR TOUGH ENVIRONMENTS
- 10" COLOR TOUCHSCREEN
- PRICE MATCH GUARANTEE



235ATS AA spectrophotometer for trace metals analysis

Starting at \$17,955

BUCK AA's Trive where others fail!

NEW! Microwave Digestion System

Alchemist 4000



Our Easy to use 7" touchscreen can store 255 user installed methods making start up a breeze.

Our tool-less finger tight vessels give you quicker set-up times, eliminating the frustration of searching for tools.

User selectable power output and 3000 watts of power make our sample preparation systems capable of the toughest digestions.

NEW! UV/Vis Spectrophotometers

Vision 1041

Visible Spectrophotometer



4nm bandwidth,
4 cell changer

Vision 3041

UV-Visible Spectrophotometer



2nm bandwidth
7" Color touchscreen

Vision 7041

Double Beam UV-Visible Spectrophotometer



Variable slit, .5/1.0/2.0/4.0
10" Color touchscreen