

Better Chemical Synthesis More Successful Experiments



Improved Usability

EasyMax allows chemists to run reactions without an ice bath, oil bath, heating mantle or cryostat. With an instantly familiar touch screen, chemists control reaction parameters at all times, including changing preprogrammed conditions when unattended.



Reactor Flexibility

Interchangeable sleeves and reactors provide flexibility to synthesize, optimize, and characterize chemistry at volumes from 0.5 mL to 400 mL.



Develop Better Chemistry

Chemists explore new reaction conditions and innovative chemistry by setting temperature to any point from $-40\text{ }^{\circ}\text{C}$ to $180\text{ }^{\circ}\text{C}$. Record all reaction conditions, making it easy to export data or repeat identical experiments.



Increased Personal Safety

Personal safety is ensured by controlling all parameters via remote touchscreen without opening the hood. Active temperature control allows chemists to run exothermic reactions without significant temperature increase, and formation of unstable byproducts is avoided by holding temperature constant while dosing.



EasyMax™ 102 and 402 Basic

Demand for innovative chemistry has resulted in the adoption of robust, easy to use synthesis workstations to increase quality, reduce costs and increase speed of research and development. By replacing traditional round bottom flasks and jacketed lab reactors with EasyMax, scientists can synthesize more new compounds, eliminate non-viable candidates earlier and perform reaction optimization. Synthesis workstations deliver key information to help researcher's reduce failed experiment and complete more successful investigations.

METTLER TOLEDO

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Upgrade Options

For the EasyMax 102 Basic and the EasyMax 402 Basic, two upgrade packages are available that increase the functionalities of the system. These packages are easy to install and ensure more flexibility and usability.

EasyMax Basic Plus Upgrade –

This upgrade adds data export, task programming and a trend viewer to the EasyMax Basic.

EasyMax Advanced Upgrade –

This package upgrades the EasyMax Basic Plus to an EasyMax Advanced giving access to all supported EasyMax functionalities like automated data capture, pH-Control, the option for PC control and many more.

Technical Specifications

	EasyMax 102 Basic	EasyMax 402 Basic
Temperature Range	–40 °C to 180 °C (jacket temperature)	
Temperature Modes	Jacket control, reaction mixture control, distillation, crystallization	
Thermostat Technology	Solid state (heating: electric, cooling: Peltier)	
Instrument Cooling	Tap water or ethylene glycol (3 L / min) for temperatures to approximately –10 °C Cryostat with a capacity of 720 W at 20 °C for temperature to approximately –10 °C Cryostat with a capacity of 450 W at –10 °C for temperature to approximately –40 °C	
Reactors	8, 10, 25, 50 and 100 mL one-piece reactors 50 mL and 100 mL two-piece reactors 50 mL and 100 mL pressure reactors	400 mL one-piece reactors 100 mL and 400 mL two-piece reactors
Covers	Glass, 4 and 5 port (one-piece reactor) Glass, 6 port PTFE, 6 port	Glass, 7 port (one-piece reactor) Glass, 6 port PTFE, 6 port
Stirrer	Magnetic and overhead stirring	Overhead stirring
Stirring Speed	50 rpm to 1000 rpm	
Stirring Types	Pitch blade (glass, Alloy C-22) Anchor (glass, Alloy C-22) Rushton Turbine (Alloy C-22) Half-moon blade (PTFE)	
Backlight	2 LED (white) per reactor	
Dimensions, WxDxH	330 mm x 360 mm x 280 mm (13" x 14" x 11")	420 mm x 360 mm x 280 mm (17" x 14" x 11")
Weight	15 kg, including touchscreen	20 kg, including touchscreen
Power Supply	100 V to 240 V AC; 50/60 Hz	
Data Logging	All measured data, every two seconds	
Data Transfer and Evaluation	USB memory stick – Microsoft® Excel®	
Connectivity	CAN bus to connect to METTLER TOLEDO accessories; Ethernet connection	
Touchscreen	135 mm x 195 mm (5.3" x 7.7"), protected by a replaceable cover	
Supported Languages	English, German, French, Spanish, Japanese, Chinese	
pH Measurement	Connection to METTLER TOLEDO SevenMulti™ pH meter	

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