

EasyMax™



EasyMax™ 102

Easier

Faster

Better



Chemistry Made Easy

The Next Generation Synthesis Tool

METTLER TOLEDO

EasyMax™ – Making Your Chemistry Easier, Faster, and Better than Today

The first automated chemistry development system that requires no training and is as easy to use as your traditional equipment.

- Touchpad for local control
- No oil and ice baths
- New thermostat principle
- Excellent control algorithms
- Local data logging capability

EasyMax™ is a new generation of reactor system for the synthesis lab and the synthetic organic chemist.

It allows for development of robust processes at lab scale together with excellent knowledge about scalable parameters (temperature, dosing, heat output, safety parameters) over a broad volume range.

Ease-of-use and the exceptionally high quality design of EasyMax™ improves the working environment in your lab.

EasyMax™ is a single, self-contained box with a built-in solid state thermostat covering the entire temperature range without an additional cryostat.

EasyMax™ stands for

- Ease-of-use
- Self-sufficient
- Compact design
- Efficiency and Productivity
- Reproducibility
- Reduction of experiment costs
- High quality information
- Improved work place safety

EasyMax™ – The Window to your Chemistry

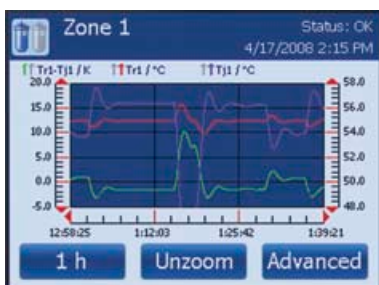
EasyMax™ has a small footprint and occupies only a minimal bench space. It hosts two vessels that operate completely independent from each other.

Operation is simple and you are in control of all functions at all times.

EasyMax™ is equipped with a wide range of accessories to provide the highest possible operating flexibility.



A window in the front in combination with a strong backlight enables observation of changes that occur during the course of the reaction.



Powerful Heating and Cooling

The powerful heating and cooling system controls the temperature of the reaction mixture accurately and reproducibly without the need for any cryostat.

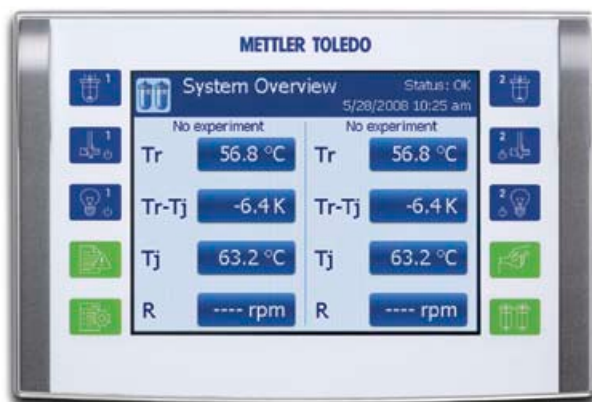
The heating/cooling block provides the necessary performance to ensure outstanding heating and cooling rates across the temperature range from -28 °C to 183 °C. Even chemical reactions with a large heat of reaction are kept at a constant temperature ensuring that the reaction kinetics are unaffected.

One-Touch Control

All functions are easily accessible with one simple click. Temperature, stirring speed, and the addition of chemicals are controlled using an easy-to-operate and chemically resistant touchpad. The measured data are displayed instantaneously and show up as numbers or trend curves on pre-defined or user-defined screens.



Multiple languages are available and can be activated with a few clicks.



Data and Information

EasyMax™ captures all measured data together with the individual tasks that were executed during the course of the synthesis. For further processing, the stored information can be transferred from the local touchpad to a PC using a USB memory stick.



Therefore, no information is lost and the experiments become comparable and traceable.



Flexible working volumes

The size of the reactor and the working volume can be adapted to meet individual needs. EasyMax™ can host different sizes of reactors that vary from 10 to 150 mL which translates into working volumes between 1 and 150 mL.

EasyMax™ – As simple as your round bottom flask – only better

Efficient Mixing

Vigorous stirring and efficient mixing are key for any chemical synthesis. The broad range of different types of stirrers will cope with the requirements of your specific application.



EasyMax™ – Synthesis at your fingertips

METTLER TOLEDO's EasyMax™ was developed together with organic chemists from the chemical and pharmaceutical industry to increase productivity in the synthesis lab.

It combines proven conventional techniques with state-of-the-art technology.

EasyMax™ 102 Product Specification

Temperature range	-28 °C to 183 °C, jacket temperature (Tj)
Temperature modes	Jacket control, reaction mixture control, distillation (constant or ramp)
Heating/cooling technology	Solid state thermostat
Reactor sizes	10, 50, 150 mL, and 100 mL one-piece reactor
Working volumes	1 to 150 mL
Stirring type	Built-in magnetic or overhead, anchor, pitched-blade or Rushton turbine (HC-22 or glass)
Stirring speed	50 to 1000 rpm
Backlight	2 LED (white) per reactor
Dimensions	WxDxH: 33 x 36 x 28 cm (13" x 14" x 11")
Weight	15 kg, including touchpad
Power supply	100 to 240 V AC; 50/60 Hz
Data logging	All measured data
Data transfer to PC	USB memory stick
Connectivity	CAN bus to connect to METTLER TOLEDO accessories, Ethernet connection
Touchpad	13.5 x 19.5 cm (5.3" x 7.7"), resolution: 320 x 240 pixels, 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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For more information



Quality certificate. Development, production and testing according to ISO 9001.



Environmental management system according to ISO 14001.



European conformity. The CE conformity mark provides you with the assurance that our products comply with the EU directives.