



New!

SMART INSTRUMENTS

Mixer HC

Mixing • Heating • Cooling

Temperature control and
mixing of vials and plates
for sample preparation



www.starlabgroup.com

Mixer HC

Mixing! Heating! Cooling! – all combined in one instrument for maximum flexibility during sample preparation

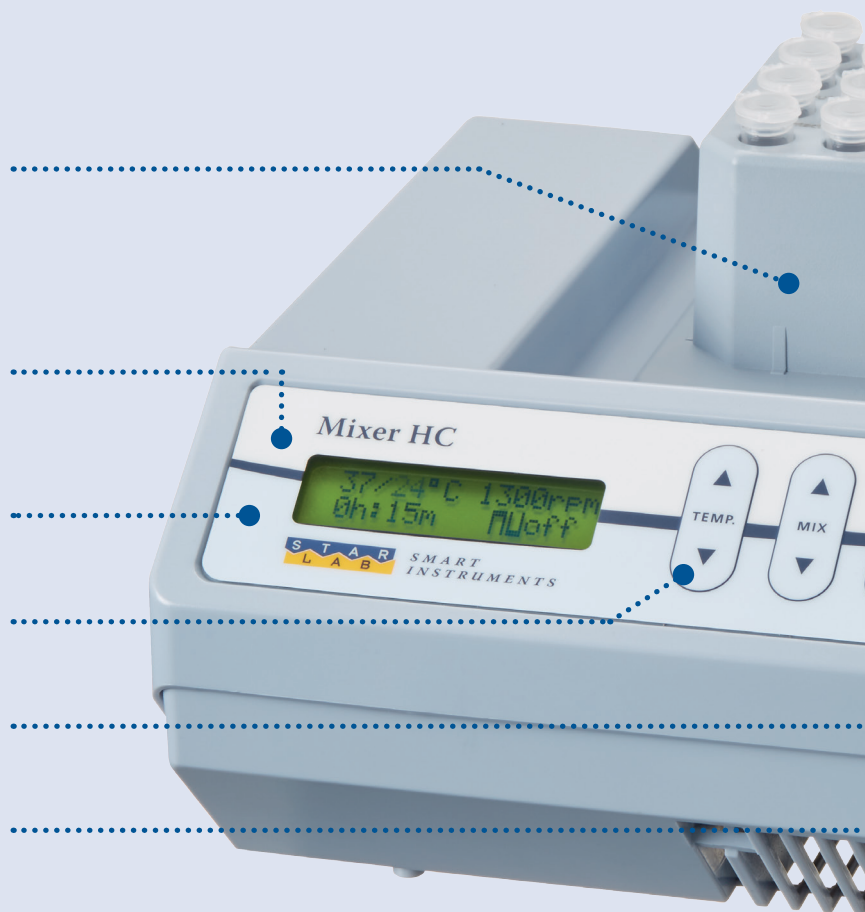
The new Mixer HC is suitable for a wide range of applications due to a selection of exchangeable thermoblocks available for all commonly used vials and plates. The powerful motor mixes up to 1500 rpm while the precise thermal element heats samples up to 99° C or cools them down as far as 13° C below room temperature. The Mixer HC is very easy to use due to intuitive setting of parameters and simple programming. The robust construction despite its small footprint makes the Mixer HC your new companion for your daily lab work.

Ideal for a broad range of applications

- ▶ Purification of plasmids, DNA, RNA
- ▶ cDNA synthesis
- ▶ Enzyme reactions (restriction digest, ligations, proteinase-K-digestion)
- ▶ Denaturation of DNA, RNA, proteins
- ▶ Labeling of DNA, RNA, proteins
- ▶ Cultivation of bacteria in microcentrifuge tubes, centrifuge tubes and deepwell plates
- ▶ Transformation of bacteria and plasmids
- ▶ Resuspension of pellets

Product features

- ▶ Mixing, heating and cooling combined in one instrument
- ▶ Nine exchangeable thermoblocks for maximum flexibility
- ▶ Automatic thermoblock recognition simplifies exchange between blocks
- ▶ Precise temperature control and broad temperature range for reliable and reproducible sample preparation
- ▶ Digital display for precise adjustment and easy reading of selected parameters
- ▶ Easy operation due to clear menu navigation and simple parameter setting
- ▶ INTERVAL MIX function for alternating between mixing and resting
- ▶ PROGRAM mode for creation of individual protocols



Nine exchangeable thermoblocks for maximum flexibility

- ▶ 0.5 ml microcentrifuge tubes (x24)
- ▶ 1.5 ml microcentrifuge tubes (x24)
- ▶ 2.0 ml microcentrifuge tubes (x24)
- ▶ Microtubes, diameter 12 mm (x24)
- ▶ 5.0 ml preparation tubes (x8)
- ▶ 15 ml conical centrifuge tubes (x8)
- ▶ 50 ml conical centrifuge tubes (x4)
- ▶ 1.5/2.0 ml cryogenic tubes (x24)
- ▶ Microplates / deepwell plates

Plus an adapter plate is also available to convert the microplate / deepwell plate thermoblock for use with 96 x 0.2 ml PCR tubes or one PCR plate



- ▶ **SHORT MIX** function for instant mixing at the push of a button
- ▶ Robust housing and small footprint
- ▶ 2-year warranty



The Iso-Rack – Easy handling of multiple samples

Ideal for time-critical applications and high throughput sample preparation, the Iso-Rack holds 24 tubes that can be transferred into a block in a matter of seconds. Available for 0.5 ml and 1.5/2.0 ml microcentrifuge tubes.



Ordering information

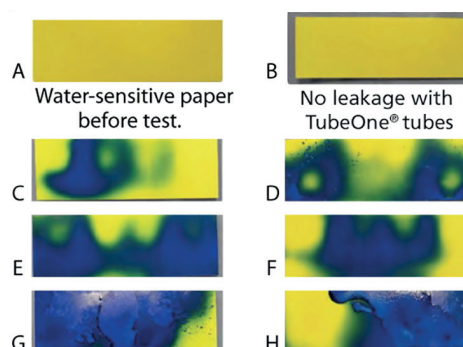
Mixer HC		
Cat. No.	Description	Pack Size
S8012-0000	Mixer HC without exchangeable Thermoblock	1
S8012-0010	Thermoblock for 24 x 0.5 ml microcentrifuge tubes*	1
S8012-0011	Thermoblock for 24 x 1.5 ml microcentrifuge tubes**	1
S8012-0012	Thermoblock for 24 x 2.0 ml microcentrifuge tubes**	1
S8012-0013	Thermoblock for 24 x micro tubes, diameter 12 mm	1
S8012-0014	Thermoblock for 8 x 5.0 ml preparation tubes	1
S8012-0015	Thermoblock for 8 x 15 ml conical centrifuge tubes	1
S8012-0016	Thermoblock for 4 x 50 ml conical centrifuge tubes	1
S8012-0017	Thermoblock for 24 x 1.5 ml – 2.0 ml cryogenic tubes	1
S8012-0018	Thermoblock for microplates / deepwell plates, with lid	1
S8012-0019	Adapter plate 96 x 0.2 ml for Thermoblock for microplates / deepwell plates	1
S8012-0020	Iso-Rack for 24 x 0.5 ml microcentrifuge tubes	1
S8012-0021	Iso-Rack for 24 x 1.5/2.0 ml microcentrifuge tubes	1

* Iso-Rack S8012-0020 for 0.5 ml microcentrifuge tubes included. ** Iso-Rack S8012-0021 for 1.5/2.0 ml microcentrifuge tubes included.

Technical specifications	
Temperature control range	
Thermoblocks for microcentrifuge tubes	13 °C below room temperature to 99 °C
Thermoblocks for microplates / deepwell plates	10 °C below room temperature to 99 °C
Mixing frequencies for thermoblocks	
0.5 ml microcentrifuge tubes	300 – 1500 1/min
1.5 / 2.0 ml microcentrifuge tubes	300 – 1400 1/min
Microplates / deepwell plates	300 – 800 1/min when loading >200 g
15 ml & 50 ml conical centrifuge tubes	300 – 750 1/min
5.0 ml preparation tubes	300 – 750 1/min
Cryo genic tubes	300 – 1400 1/min
Programmable time interval	1 min to 99:59 hours, infinitely adjustable
General Unit Specifications	
Mains connection	100 to 240 V ±10 %, 50 to 60 Hz
Power consumption	90 W
Ambient temperature	4 – 35 °C
Relative humidity	70 % max.
Dimensions (W x D x H)	220 x 250 x 125 mm
Weight basic device	3.2 kg

TubeOne® tubes are ideal for use in the Mixer HC!

Does your tube maintain a seal while heating? Although a tube may remain closed, evaporation can occur when a seal is incomplete. TubeOne® passes the test with no leaks! Water-sensitive paper has a special-coated yellow surface that turns blue when exposed to moisture. This indicating paper (A) was placed across the top of TubeOne® (B) and other brands of tube (C–H), all containing 1.0 ml of 50 % ethanol and incubated at 95°C for 15 minutes in a dry bath with a tightly closed lid. Tubes C–H showed varying levels of failure.



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► STARLAB TubeOne® microcentrifuge tubes

TubeOne® tubes offers the ultimate in sample visibility. Optically clear without compromising structural integrity, the tubes also feature a frosted writing surface. See our comprehensive range of tubes at www.starlabgroup.com

