

IKA lab reactors are the most unique systems when it comes to optimizing and reproducing chemical reactions, mixing, dispersing and homogenization processes on a lab scale. The lab reactors can be individually customized to perform numerous tasks, including production of creams and lotions, grinding and disintegrating of solids and fibers in liquids or polymers, etc. Single-walled or double-walled vessels made from borosilicate glass or stainless steel are available, each with or without bottom discharge valve.

LR 1000 CONTROL SYSTEM

/// Reactor with weighing function and cooling water control

The LR 1000 control is a cost efficient, modular laboratory reactor designed to optimize chemical reaction processes as well as for mixing, dispersing and homogenization tasks on a lab scale particularly in the cosmetic and pharmaceutical industry. The system can be adapted quickly and easily to a wide range of applications and specific requirements.

Prominent features are its intuitive menu navigation, integrated pH and temperature sensor connection as well as several interfaces that allow display and storage of process-relevant data on a PC. By using the laboratory software labworldsoft® (accessory) it is possible to even control the reactor via PC and make further settings. In addition, a control valve connection to attach a magnetic valve (accessory) for program-based cooling water control is integrated.



LR 1000 basic Package
\$ 11,248.00
Ident. No. 0008040101



With just one base unit multiple vessels can be used!

LR 1000 control System
\$ 14,007.00
Ident. No. 0025001992



TECHNICAL DATA	LR 1000 BASIC*	LR 1000 CONTROL SYSTEM*
Usable volume (with disperser tool)	500 – 1000 ml	500 – 1000 ml
Attainable vacuum	25 mbar	25 mbar
Max. viscosity	100 000 mPas	100 000 mPas
Speed range	10 – 150 rpm	10 – 150 rpm
Display	LED	TFT
Working temperature max.	120 °C	120 °C
Vessel specification	FKM sealing; achhor stirrer	FFKM sealing; anchor stirrer with scraper
pH measurement	–	Yes (BNC)
Cooling water control	–	Yes
Heat control accuracy of medium with sensor	± 0.2 K	± 0.2 K
Heat output	1000 W	1000 W
Dimensions (W x H x D)	443 x 360 x 295 mm	443 x 360 x 295 mm

* PT 100.30 included in delivery

LR-2.ST
The High-Performer

\$ 15,903.00
Ident. No. 0020013404

LR-2.ST stand system
+ LR-2.SI safety disconnection
+ EUROSTAR 200 control P4
overhead stirrer



LR-2.ST
The Allrounder

\$ 14,768.00
Ident. No. 0020013402

LR-2.ST stand system
+ LR-2.SI safety disconnection
+ EUROSTAR 200 control
overhead stirrer



LR-2.ST
The Versatile

\$ 14,313.00
Ident. No. 0020013408

LR-2.ST stand system
+ LR-2.SI safety disconnection
+ EUROSTAR 100 control
overhead stirrer



LR-2.ST
The Compact Power

\$ 12,850.00
Ident. No. 0020013406

LR-2.ST stand system
+ LR-2.SI safety disconnection
+ EUROSTAR 60 control
overhead stirrer



TECHNICAL DATA	LR-2.ST
Min. volume (anchor stirrer)	500 ml
Min. volume (T 25 digital)	800 ml
Max. volume	2000 ml
Max. working temperature	230 °C
Attainable vacuum	25 mbar
Max. viscosity (EUROSTAR 200 control P4)	150 000 mPas
Speed range (EUROSTAR 200 control P4)	0 4 – 530 rpm
Max. torque at stirring shaft (EUROSTAR 200 control P4)	660 Ncm
Materials in contact with medium	Stainless steel (AISI 316L) FFPM Borosilicate glass 3.3
Height of telescopic stand	620 – 1010 mm
Dimensions (W × H × D)	460 × 1240 × 430 mm

LR-2.ST STARVISC 200
/// Stirs and displays viscosity

The reactor system is particularly helpful during product development, because the measuring stirrer STARVISC 200-2.5 control already clearly indicates while running research programs as to whether the stirred substance can be used as desired. The system is particularly characterized by the agitator mounting, which allows for a safe transfer of the higher motor torque. In combination with STARVISC it is possible to intensively stir even highly viscous substances and at the same time display their viscosity.

In addition, ULTRA-TURRAX® dispersers, temperature sensors, flow breakers and other accessories can be attached to the open ports of the reactor cover.

TECHNICAL DATA	LR-2.ST STARVISC 200
Min. volume (anchor stirrer)	500 ml
Max. volume	2000 ml
Max. working temperature	230 °C
Attainable vacuum	25 mbar
Max. viscosity	100 000 mPas
Speed min.	6 rpm
Max. torque at stirring shaft	200 Ncm
Materials in contact with medium	Stainless steel (AISI 316L) FFPM Borosilicate glass 3.3
Telescope stand stroke	620 – 1010 mm
Dimensions (W × H × D)	460 × 1240 × 430 mm





WiCo LR 1000 LR 1000.3



LR 1000.10 LR 1000.20



LR 1000.41 LR 1000.64



LR 1000.70 MV 1



LR 2000.10



LR 2000.11



LR 2.1



LR 2000.1



LR 2000.2



LR 2000.3



LR 2000.4

Product	Description	Ident. No.	Price
ACCESSORIES LR 1000			
WiCo LR 1000	Wireless controller	0020007267	on request
LR 1000.1	Reactor vessel, 1000 ml, FKM sealings, 4 connectors, anchor stirrer	0003602000	\$ 3,845.00
LR 1000.3	Reactor vessel, 1000 ml, FFKM sealings, 6 connectors, anchor stirrer with PEEK scrapers	0025001955	\$ 3,581.00
LR 1000.10	Anchor stirrer with PEEK scrapers	0004663100	\$ 983.00
LR 1000.11	Anchor stirrer, stainless steel	0004663000	\$ 402.00
LR 1000.20	Flow breaker / baffle, stainless steel	0004663200	\$ 532.00
LR 1000.41	Shaft receptacle for dispersing tool	0004664300	\$ 743.00
LR 1000.61	Temperature sensor receptacle	0004664400	\$ 719.00
LR 1000.62	Sensor receptacle GL 14	0020010508	\$ 586.00
LR 1000.64	pH electrode	0004663300	\$ 969.00
LR 1000.65	pH electrode receptacle	0004663400	\$ 826.00
LR 1000.70	Lid holder	0025003123	\$ 448.00
MV 1	Magnetic valve for cooling water control, max. 100 °C	0020003763	\$ 623.00
Holder MV 1	Holder for cooling water control valve	0020019816	on request

ACCESSORIES LR-2.ST			
LR-2.SI	Safety stop	0003318300	on request
LR 2000.10	Anchor stirrer with PEEK scraper	0002508400	\$ 1,781.00
LR 2000.11	Anchor stirrer, stainless steel	0002509500	\$ 831.00
LR 2000.20	Flow breaker / baffle, stn. steel	0002508500	\$ 826.00
LR 2.1	Glass reactor vessel, single-walled, 2000 ml	0003070000	\$ 2,078.00
LR 2000.1	Glass reactor vessel, double-walled, 2000 ml	0002508300	\$ 3,059.00
LR 2000.2	Glass reactor vessel, double-walled, bot. drain 2000 ml	0002509600	\$ 4,096.00
LR 2000.3	Stainless steel reactor vessel, double-walled, 2000 ml	0002509700	\$ 5,894.00
LR 2000.4	Stainless steel reactor vessel, double-walled, bot. drain, 2000 ml	0003064900	\$ 10,019.00



HBR 4 control LR



LT 5.24



T 25 digital LR

Product	Description	Ident. No.	Price
ACCESSORIES LR-2.ST			
LR 2000.40	Shaft receptacle	0002509200	\$ 929.00
LR 2000.60	Sensor receptacle	0002509300	\$ 718.00
LR 2000.64	pH process electrode	0020010075	on request
LR 2000.65	pH measuring sensor receptacle	0003172600	\$ 970.00
LR-2.SP	Splinter shield	0003326400	\$ 1,591.00
LT 5.23	Hose adapter set	0002235000	on request
LT 5.24	Hose adapter	0002578100	on request
LT 5.25	Lock coupling set	0020000878	on request
LT 5.26	Lock adapter set	0020000879	on request
LT 5.27	Hose adapter set	0020000880	on request
H 68.55	Temp. sensor, stn. steel, Ø 8 mm	0025007921	on request
HBR 4 control LR	Heating bath, 4 l	0010001849	on request
PT 1000.61	Temperature sensor, Ø 6 mm	0020009881	\$ 434.00

ACCESSORIES LABORATORY REACTORS			
T 25 digital LR	Disperser	0020008821	\$ 1,985.00
S 25 KV - 25 G	Dispersing element, Ø 25 mm	0002466900	\$ 2,468.00
S 25 KV - 25 F	Dispersing element, Ø 25 mm	0002404000	\$ 2,417.00
S 25 KV - 26 LR	Dissolver stirrer, high speed	0020015397	\$ 2,254.00
S 25 KD - LR - 18 G	Dispersing element, Ø 18 mm	0025007071	on request
S 25 KD - LR - 25 G	Dispersing element, length: 267 mm	0025007321	\$ 2,470.00
S 25 KD - LR - 25 F	Dispersing element, length: 267 mm	0025007322	\$ 2,470.00



S 25 KD - LR - 25 G



S 25 KD - LR - 25 F

magic PLANT basic

Price on request
Ident. No. 0020001210

The ideal small laboratory plant for perfect mixing and homogenizing of liquid to pasty products.



magic PLANT inline

Price on request
Ident. No. 0020004243

Effective dispersing and homogenizing. In connection with the IKA magic LAB, the magic PLANT is specially adapted to the requirements of batch plants.



magic PLANT powder

Price on request
Ident. No. 0020001795

Efficient but gentle mixing and drying of all free flowing solids, including products with different bulk densities and particle sizes.



The IKA magic PLANT is an ideal laboratory scale process plant. This system is used for batch-wise mixing, homogenizing, emulsifying, in addition to forming sample suspensions for capacities of up to 2 liters. Whether it is involved with the

manufacturing of liquids, pastes or powders – the magic PLANT delivers, enabling a seamless transition from product development to production.

TECHNICAL DATA	MAGIC PLANT BASIC	MAGIC PLANT INLINE	MAGIC PLANT POWDER
Max. admissible temperature	150 °C	80 / 120 °C	150 °C
Working pressure range	-1 to 2.5 bar (5 bar*)	-0.5 to 2.5 bar	-1 to 2.5 bar (5 bar*)
Useful volume	1 – 2 l	0.5 – 2 l	0.5 – 1.5 l
Stirring tool	Anchor and propeller	Anchor	Spiral
Speed range	0 – 2000 rpm (Propeller, Dissolver) 0 – 350 rpm (Anchor, Spiral)	0 – 2000 rpm (Propeller, Dissolver) 0 – 350 rpm (Anchor, Spiral)	0 – 350 rpm (Spiral)

* with optional safety valve

Algaemaster 10 control

\$ 32,254.00
Ident. No. 0020015196

ALGAEMASTER 10 CONTROL
/// Growing algae made easy

Algae are becoming increasingly interesting for different industries. The IKA Algaemaster 10 control is a fully autonomous photo bioreactor that provides researchers with the equipment necessary for producing mass densities of sensitive microalgae.



Min. usable volume: 6 l
Max. usable volume: 10 l

TECHNICAL DATA	ALGAEMASTER 10 CONTROL
Useable volume	6000 – 10 000 ml
Viscosity max.	100 mPas
Speed range	10 – 100 rpm
Temperature measurement resolution	0.1 K
pH measuring range	0 – 13 pH
Accuracy of pH measurement	0.1 pH
pH measurement resolution	0.01 pH
Cooling medium temperature	4 – 60 °C
Speed deviation	±5 rpm
Speed display	TFT
Dimensions (W x H x D)	800 x 1000 x 600 mm
Weight	46 kg

- > Ocean water resistant and completely autoclavable lid and vessel
- > Metal-free components for sensitive bioactive materials
- > Material touching the product: borosilicate glass, PTFE, Ultem®
- > Computerized control of lighting, temperature, stirring, pH and dosing of liquid or gas
- > Customizable lid with nine receptacles
- > Effortless data collection via USB drive
- > Attractive cost / performance ratio