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EasySyn 2000 Advanced Reactor system

/// Data Sheet

EasySyn is the reactor system for organic or aqueous syntheses. It ensures safe and reproducible chemical reactions on the way from laboratory to pilot scale.

Our EasySyn 2000 Advanced package comprises a complete reactor system for use in the laboratory. You can also control it with the IKA lab software labworldsoft® 6 to automate all processes. The high quality of the used materials allows operation at temperatures from -50 to 200 °C and up to a vacuum of 3 mbar.

EasySyn Advanced includes the LT 5.40 draining set. With its special valves, it enables fast and clean draining of the

tempering fluid from the double jacket and easy replacement of the reactor vessel.

EasySyn 2000 Advanced also includes:
Ergonomically designed stand system for quick and easy replacement of the reactor vessels and adjustment of the working height to your body size.
DN 150 vessel clamp for holding the reactor vessel
Double-walled 2000 ml reaction vessel made of chemically resistant borosilicate 3.3 glass with bottom discharge valve
Spring-loaded valve spindle of the drain valve to prevent glass breakage
Reactor lid with various openings (1 x NS 29/32 center glass joint, 3 x NS 29/32, 1 x NS 14/23, 2 x GL 18) for flexible adaptation to the desired application
DN 150 clamp ring and DN 150 FEP-coated O-ring to ensure chemical resistance
Powerful overhead stirrer EUROSTAR 100 control with 200 Ncm, including keyless chuck for easy and fast mounting of the stirring tool, high precision torque monitoring (+/- 1 Ncm accuracy) and viscosity measurement (mPas).
Additional functions such as timer, overload protection and temperature measurement integrated in the overhead stirrer
PTFE-coated propeller stirrer for optimum mixing and chemical resistance
High-quality stirrer guide for vacuum operation up to 3 mbar
Drainage set LT 5.40 with valves and temperature control hoses for easy draining of the double-walled reactor vessel and for fast changing of the reactor vessels
RS 232, Ethernet, USB or Wireless connection interfaces on the stirrer for external control using our lab automation software labworldsoft® 6, available as an accessory.

Further reactor vessels (with and without bottom discharge), reactor lids, stirring tools, temperature sensors, circulators, laboratory automation and much more can be found in the " Accessories" section.

To complete your system, you get all the complementary components from a single source: overhead stirrers, circulators, vacuum pumps and controllers, sensors and automation software. All from IKA and all perfectly matched to each other.

Would you like your own desired configuration? Or do you need an offer? You are welcome to contact our sales team.

Note: The scope of delivery does not include temperature hoses for connecting a thermostat.

Scope of delivery
•EUROSTAR 100 control
•LT 5.40 Draining set
•R 4012 SY Propeller stirrer
•SY guide
•SY O-ring 150
•SY clamp ring 150
•SY clamp 150
•SY 150.2 Reactor lid

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•SY 2000 D Reactor vessel
•SY stand

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Technical Data

Volume [l]	2
Flange dimension	DN150
Vacuum application	yes
Lid center neck	NS 29/32
Lid side necks	3x NS 29/32, 1x NS 14/23, 2x GL18
Working temperature [°C]	-50 - 200
Useable volume min. [ml]	120
Useable volume with temperature probe min. [ml]	400
Attainable vacuum [mbar]	3
Torque max. at stirring shaft [Ncm]	200
Reversible direction of rotation	yes
Short-term - Torque max at stirring shaft at 30-600 rpm / up to 20 min [Ncm]	200
Torque max. at stirring shaft at 600-1300 rpm [Ncm]	120-100
Torque measurement	yes
Deviation of torque measurement I [Ncm]	±1
Dimensions (W x H x D) [mm]	500 x 950 x 580
Weight [kg]	20
RS 232 interface	yes
USB interface	USB-C
WPAN interface	yes
WiFi Interface	yes
Ethernet interface	yes