

LR 2000 V (vacuum)



Stand LR 2000.70 for vacuum variant LR 2000 V. Please contact IKA® for a detailed quotation for the complete system.

The system LR 2000 V is a modularly expandable laboratory reactor, designed and planned for reproducing and optimizing chemical reaction processes as well as mixing, dispersing and homogenization processes at laboratory scales.

Some examples for these processes are:

- Manufacturing of cremes, lotions, emulsions, and liposome preparations in the pharmaceutical and cosmetic sector
- Mixing of solids such as calcium carbonate, talc, titanium oxide, etc. into liquid polymers
- Mixing of additives and solid polymer compounds into mineral oils
- Grinding and disintegrating of solids and fibers in liquids and polymers

The laboratory reactor LR 2000 V (vacuum) is especially designed for the use in the pharmaceutical and cosmetic sector.

The system can be adapted individually to a wide range of different applications and specific requirements. IKA® laboratory devices, e.g. temperature and pH measuring instruments, laboratory stirrers and dispersing instruments, pumps and thermostats can be combined and controlled via PC using labworldsoft®. The torque measuring instruments VK 600 control VISCOCLICK® or VM 600 basic allow for evaluation of rheological properties.

The IKA® laboratory reactor features among others are:

- Modularly expandable to accommodate interchangeable instruments for various applications (3 x NS 29 and 2 x NS 14 ground joints)
- Single- and double-walled jacketed 2 liter vessels available made of borosilicate glass or stainless steel, with or without bottom discharge valve
- Sealing materials (FFPM) resist solvents and temperatures for applications up to 230 °C

Configuration example (not included in delivery) LR 2000 V system variant vacuum - please ask for a detailed quotation:

- LR 2000.70 Stand for vacuum variant
- LR 2000.1 Reactor vessel
- LR 2000.11 Anchor stirrer with flow borings
- EUROSTAR power control-visc P7 Overhead stirrer
- T 25 basic Disperser
- S 25 KV - 18 G Appropriate dispersing element
- LR 2000.40 Shaft receptacle
- LR 2000.80 Reactor cover

Technical Data			
Usable volume min. [ml]	500	Usable volume max. [ml]	2000
Working temperature min. [°C]	room temp.	Working temperature max. [°C]	230
Pressure max. [bar]	1	Attainable vacuum [mbar]	25
Viscosity max. [mPas]	150000	Speed range [1/min]	8 - 290
Telescope stand stroke [mm]	260	Material in contact with medium [-]	borosilicate glass, FFPM, PTFE, steel 1.4571
Reactor vessel openings (units/standard) [-]	3/NS 29/32 2/NS 14/23"	Dimensions (W x H x D) [mm]	500 x 1350 x 500
Weight [kg]	30	Permissible ambient temperature [°C]	5 - 40
Permissible relative moisture [%]	80	Protection class according to DIN EN 60529 [-]	IP 42
RS 232 interface [-]	yes	Analog output [-]	yes

Voltage [V]	230	Frequency [Hz]	50/60
Power input [W]	130		