

9. Vacuum technology, Drying, Dry storage

GENERAL CATALOGUE EDITION 20

Laboratory Freeze drying/Freeze dryers

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1 Laboratory Freeze Dryer ALPHA 1-2 LDplus Package

Martin Christ

Small but big in performance in routine applications. Complete, universal package for sample drying in up to 8 flasks, alternatively for handling materials in dishes on up to 3 unheated shelves. With new user-friendly controller "Lyo Display LDplus".

- Graphic LC display with a clear layout showing the most important process data (ice condenser temperature, process time, section time and vacuum).
- Comfortable and self-explaining menu guidance in German, English or French language.
- Vacuum control for optimization and reduction of process time.
- Conversion of product temperature and vacuum according to the vapour pressure curve above ice.
- RS232 communication interface available as an option.

Equipped with 8 rubber valves for flasks and 3 unheated shelves (diameter 200 mm) for drying in dishes.

Required for operation: two-stage rotary vane vacuum pump with a suction capacity of min. 2 m³/h suction capacity, final vacuum approx. 5x10⁻³ mbar (e.g. type RZ 2.5, manufacturer VACUUBRAND).

Universal applicable accessories for almost all drying applications such as flasks, dishes, ampoules, injection bottles available.

Specifications

Total ice capacity:	2.5 kg
Ice condenser temperature:	-55 °C
Line voltage:	230V/50Hz
Dimensions (W x D x H):	315 x 460 x 345 mm (basic unit)
Weight:	approx. 28 kg

Type	PK	Cat. No.
ALPHA 1-2 LDplus Package	1	9.883 151
Rotary vane pumps RZ 2.5, 2 steps, 230V/50-60Hz	1	9.880 123

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2 Laboratory Freeze Dryer Alpha 2-4 LDplus Package

Martin Christ

Large-capacity laboratory freeze dryer for routine applications in up to 8 flasks, due to low ice condenser temperature most suitable for drying of samples containing organic solvents (e. g. alcohols). With new user-friendly controller "Lyo Display LDplus".

- Graphic LC display with a clear layout showing the most important process data (ice condenser temperature, process time, section time and vacuum).
- Comfortable and self-explaining menu guidance in German, English or French language.
- Vacuum control for optimization and reduction of process time.
- Conversion of product temperature and vacuum according to the vapour pressure curve above ice.
- RS232 communication interface available as an option.

Equipped with stainless steel manifold for up to 8 flasks.

Required for operation: chemically resistant two-stage rotary vane vacuum pump with a suction capacity of min. 5 m³/h suction capacity, final vacuum approx. 5x10⁻³ mbar (e.g. type RC 6, manufacturer VACUUBRAND).

Specifications

Total ice capacity:	4 kg
Ice condenser temperature:	-85 °C
Line voltage:	230V/50Hz
Dimensions W x D x H:	390 x 555 x 415 mm (basic unit)
Weight:	approx. 65 kg

Type	PK	Cat. No.
ALPHA 2-4 LDplus Package	1	9.883 152
Chemistry Hybrid Pump RC 6 230V/50-60Hz, with plug CEE	1	9.882 235

9. Vacuum technology, Drying, Dry storage

Laboratory Freeze drying/Freeze dryers

1 Laboratory Freeze Dryer BETA 1-8 LDplus Package

Laboratory freeze dryer for routine drying processes of larger sample quantities. This complete package provides a universal system for drying in up to 12 flasks, alternatively in dishes on 5 unheated shelves. With new user-friendly controller "Lyo Display LDplus":

Martin Christ

- Graphic LC display with a clear layout showing the most important process data (ice condenser temperature, process time, section time and vacuum).
- Comfortable and self-explaining menu guidance in German, English or French language.
- Vacuum control for optimization and reduction of process time.
- Conversion of product temperature and vacuum according to the vapour pressure curve above ice.
- RS232 communication interface available as an option.

Equipped with 12 rubber valves for flasks and 5 unheated shelves (diameter 265 mm) for drying in dishes.

Required for operation: two-stage rotary vane vacuum pump with a suction capacity of min. 5 m³/h suction capacity, final vacuum approx. 5x10⁻¹ mbar (e.g. type RZ 6, manufacturer VACUUBRAND).

Specifications

Total ice capacity:	8 kg
Ice condenser temperature:	-55 °C
Line voltage:	230 V/50 Hz
Dimensions W x D x H:	780 x 545 x 415 mm (basic unit)
Weight:	approx. 63 kg

Type	PK	Cat. No.
BETA 1-8 LDplus Package	1	9.883 153
Rotary vane pump RZ6, 2 steps, 230V/50-60Hz	1	9.880 124

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 Vacuum-Concentrators - please see page 1304.

