



CD8

All-In-One
Easy-Load
Fast





All-In-One Process

CryoDry's® All-In-One Process simplifies the freeze-drying process by combining freezing and drying into a single step. Unlike traditional passive freeze-dryers, there is no need for a separate freezing step, eliminating the need for additional manual handling. Our CD8 features programmable shelves with a temperature range of -35°C to +60°C, which provides precise control over the entire process from freezing to heat application for primary and secondary drying. This enables tailoring of the drying process to your product, resulting in efficient and effective drying. CryoDry's® All-In-One Process, with its programmable shelves and all-in-one design, is a powerful and versatile tool for freeze-drying applications.



Easy-Load

The CryoDry® freeze dryer is specifically designed for bulk applications, offering several advantages over traditional passive freeze dryers. The unit's Easy-Load feature allows for convenient cupboard-style loading and unloading of bulk product - in trays, plates, bottles and similar - without requiring heavy acrylic or stainless steel manifolds being lifted for internal access. Additionally, the CryoDry® CD8 offers a range of thermal transfer blocks that enable efficient and fast freeze-drying of tubes, vials, and ampules.

In contrast, traditional manifold freeze dryers require the use of flasks and heavy acrylic or stainless steel manifolds which can be cumbersome to load and unload due to the need to lift for access. The use of flasks historically leads to uneven drying of products, as well as carrying the potential for glass breakage and contamination. By eliminating the need for flasks and manifolds, the CryoDry® freeze dryer offers a more streamlined and efficient freeze-drying process, resulting in superior product quality and more convenient use.



Fast

The CryoDry® freeze dryer is designed to be fast and efficient in the freeze-drying process. It features temperature-controlled shelves enabling fast freezing and even faster drying.

This capability is not available in traditional passive freeze dryers that use flasks or unheated shelves. Our programmable shelves have a temperature range of -35°C to +60°C, making the freeze drying process customisable. Heated shelves for active drying energy input and the addition of programmable hysteresis settings means that the CryoDry® freeze dryer can significantly reduce drying time, resulting in time savings of typically more than 60% over traditional passive freeze drying.

Capacity

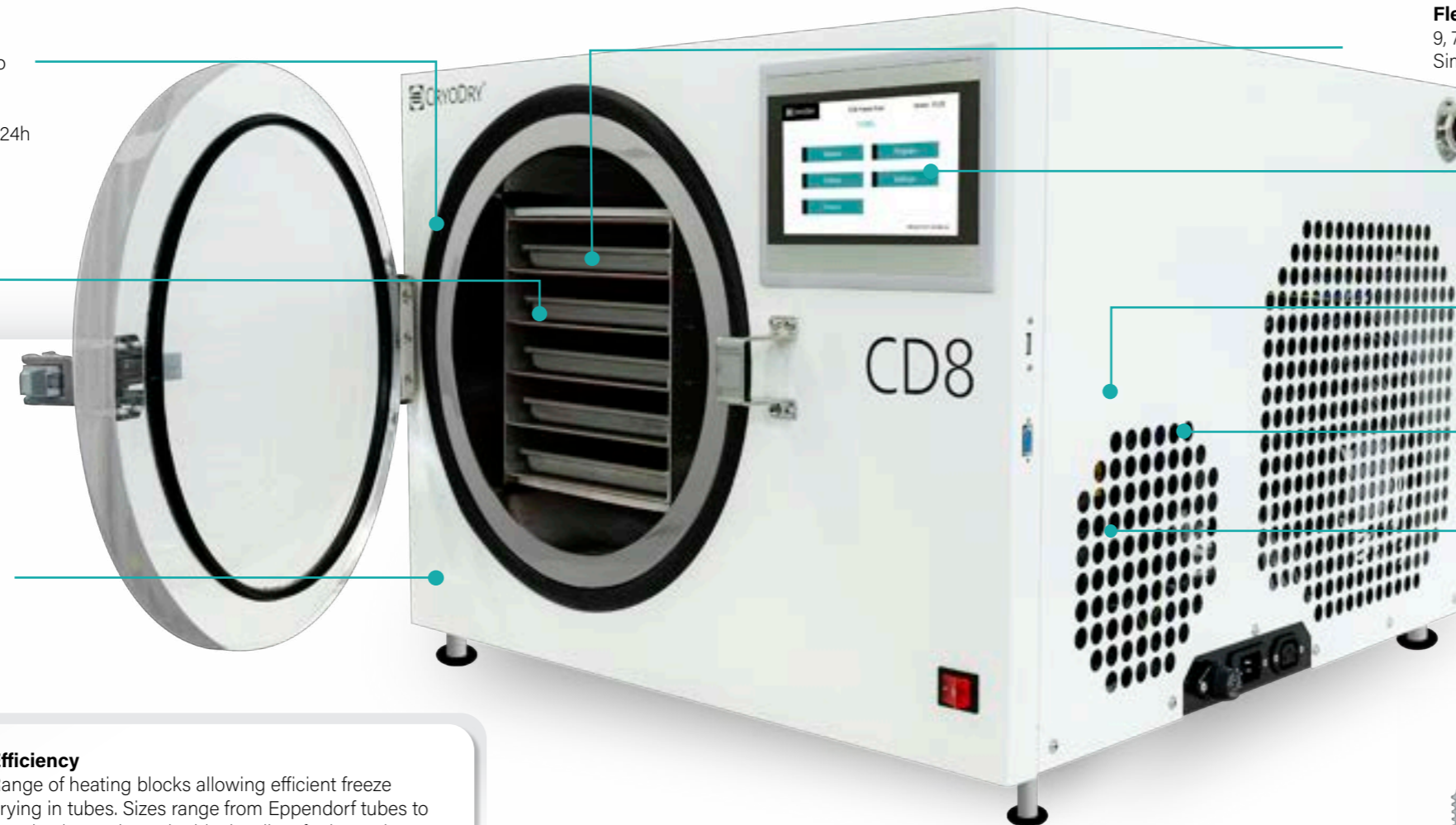
- Benchmark Size-to-Capacity Ratio
- Ice Condenser Volume 11 l
- Ice Condenser Capacity 8 kg
- Condenser Performance 4 kg per 24h

Programable Shelves

Temperature range of -35°C to +60°C allows for precise control of the entire process from freezing on shelf to programmable heat application for primary and secondary drying.

Compact

CryoDry® CD8 is a true benchtop unit. With dimensions of only 770 (d) x 748 (w) x 507 (h) mm the unit sits comfortably on most laboratory benches.



Flexibility

9, 7, 5, 3 or 1 heated shelf options. Shelf distances from 19 mm to 204 mm. Simple plug-and-play interchange of shelf stack configurations.

Powerful Controller

- Full colour touchscreen
- Easy to program recipes with up to 16 steps
- Full manual operation
- USB interface

Ergonomic

Easy access to power switch, interfaces, power supply, vacuum and drain. Easy-access fuse.

Quality

High-end refrigeration and electronic components. Solid state relays.

Natural Refrigerant

Use of R290 is environmentally friendly, with minimal carbon footprint and ultra-low greenhouse warming potential (GWP). Guaranteed long term availability (unlike ozone depleting CFC and HCFC). Easy and affordable service.

Efficiency

Range of heating blocks allowing efficient freeze drying in tubes. Sizes range from Eppendorf tubes to 50 ml Falcon tubes. The blocks allow for better heat transfer, resulting in shorter run times. Custom sizes available.



Powerful, Pure & Quiet

The PSP12 Scroll Vacuum Pump offers excellent performance at an extremely attractive price and low cost of ownership.



SPECIFICATIONS

REFRIGERATION

Total Condenser Volume	11 litres
Ice Condenser Capacity	8 kg
Condenser Performance	4 kg per 24 hours
Ice Condenser Temperature	< -40 °C
Refrigerant	R290
Typical Product Capacity	9.6 kg at 80% moisture
Defrost Function	Shelf heating

VACUUM

Ultimate Vacuum	1.5×10^{-1} mbar
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SHELVES

Number of Shelves	5
Shelf Stack Options	9, 7, 3 and 1 shelves
Inter-shelf Distance	9 Shelves 19 mm
	7 Shelves 28 mm
	5 Shelves 40 mm
	3 Shelves 68 mm
	1 Shelf 204 mm

Tray Size	200 x 450 x 15 mm
Minimum Shelf Temperature	-35 °C
Maximum Shelf Temperature	+60 °C

POWER REQUIREMENTS

Electrical	110V +/-10% 60Hz 8.5A
	230V +/-10% 50Hz 6.8A
	Other voltages on request
Maximum Vacuum Pump Current	3A

INTERFACES

Interfaces	USB-A, USB-B
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SIZE AND WEIGHTS

External Dimensions (DxWxH)	770 x 748 x 507 mm
Weight	87 kg
Noise Level (without vacuum pump)	54 dB(A)



Your CryoDry® Local Distributor

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