



CD8

Easy-Load
All-In-One
Automatic
Fast



www.radleys.com/cryodry



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 -40°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.



autodry
The new and innovative autodry mode is perfect for beginners or users who do not want to setup their own drying programs. The program uses an advanced algorithm to determine drying progress. It automatically adapts drying parameters and identifies process end.



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.



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 -40°C to +60°C, making the freeze drying process customisable. Heated shelves for active drying energy input 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

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.

ERGONOMIC

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

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.

PROGRAMMABLE SHELVES

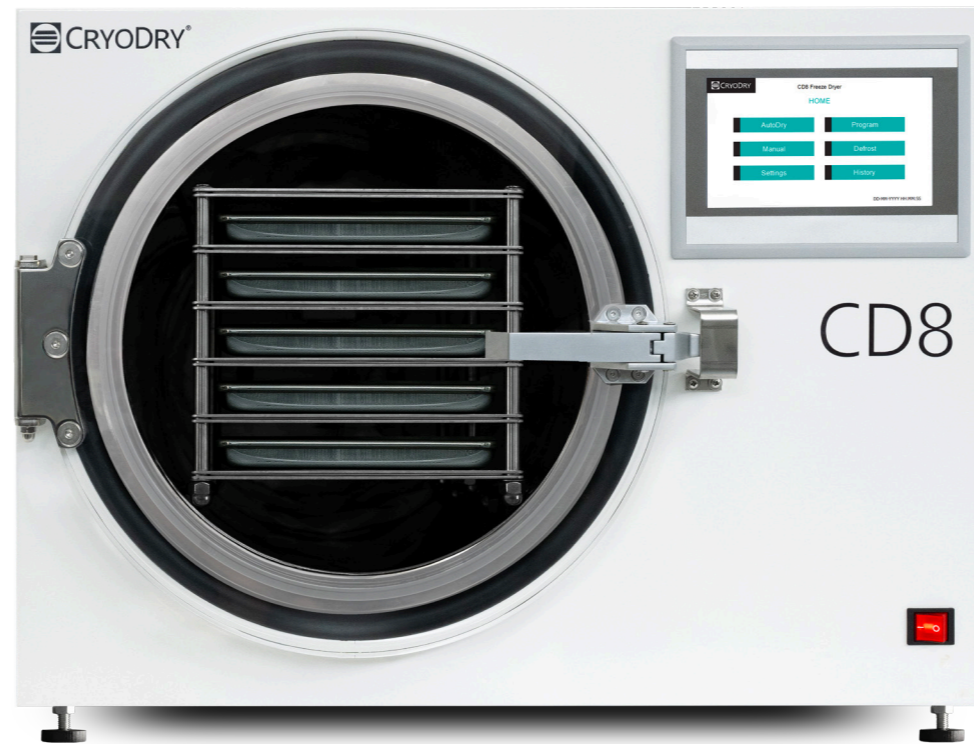
Temperature range of -40°C to +60°C allows for precise control of the entire process from freezing on shelf to programmable heat application during drying.

SAMPLE INTEGRITY

Our unique Sandwich Shelf Stack design eliminates the need for heater adhesives. This improves sample integrity, process compatibility and food / product safety. The heaters themselves are food safety certified.

FLEXIBILITY

9, 7, 5, 3 or 1 heated shelf options. Shelf distances from 16 mm to 188 mm. Simple plug-and-play interchange of shelf stack configurations.



autodry MODE

The CD8 automatically dries your product and determines process completion. This eliminates the need for guesswork, cycle development and programming.

VACUUM OVEN MODE

Vacuum Oven Mode enables energy saving operation as well as shorter heat up times unlocking a wide range of new applications outside of the traditional freeze drying space.

GLOBAL CERTIFICATION

For your peace of mind, the CD8 offers certification according to UL (USA), CSA (Canada) CE (Europe) and RCM (Australia/New Zealand)



GLOBAL POWER SUPPLY

The CD8 can operate at low and high voltages as well as variable frequencies (50/60Hz), making it compatible with power supplies worldwide.

POWER RECOVERY

Our power outage recovery function retains cycle progress and re-starts automatically in transient power outages.

POWER EFFICIENCY

The combination of our inverter-based wide range compressor, a highly efficient global power supply, solid state relays and other highly efficiency components result in the CD8 having market leading energy efficiency.



DRYING 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 HiScroll Vacuum Pump offers market leading performance, lowest energy consumption and class leading service intervals for lowest 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	< -45 °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 16 mm
	7 Shelves 22 mm
	5 Shelves 33 mm
	3 Shelves 59 mm
	1 Shelf 188 mm

Tray Size	200 x 450 x 15 mm
Minimum Shelf Temperature	-40 °C
Maximum Shelf Temperature	+60 °C

POWER REQUIREMENTS

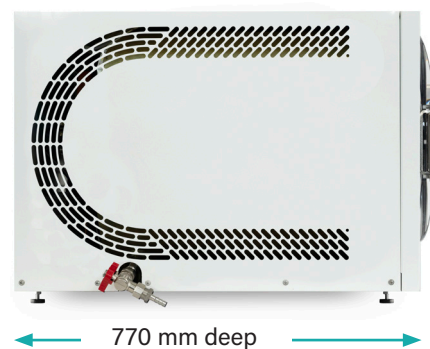
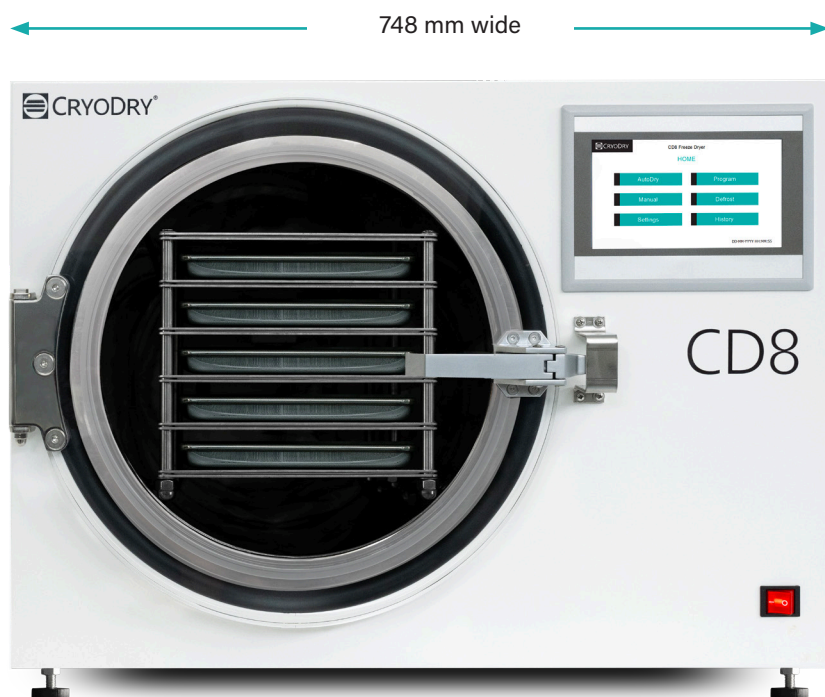
Electrical	AC 120V 14A 50/60Hz
	AC 220-240V 8A 50/60Hz (Not for UL-mark)
Maximum Vacuum Pump Current	AC120V, 50/60Hz; 2.8A AC220-240V, 50/60Hz; 1.6A

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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