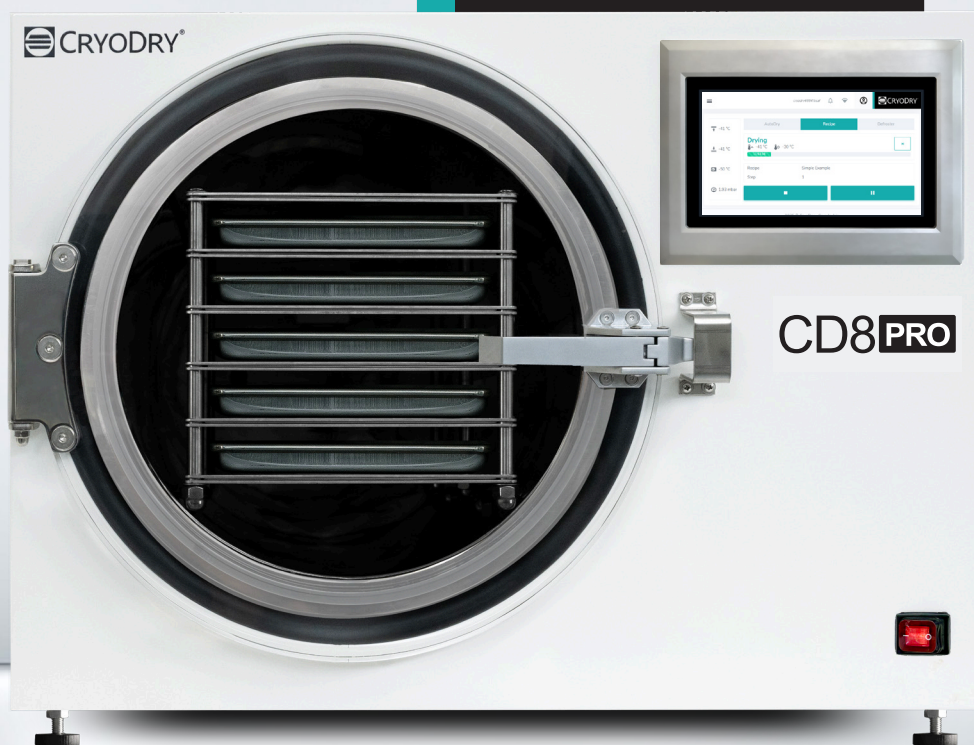




# CD8 PRO

📶 Remote Control  
All-In-One  
Automatic  
Fast





CryoDry® Console enables remote access for control of your CD8 Pro freeze dryer including limitless programming, live graphical progress tracking and even multi-machine management. Take control of your freeze dryer via Wi-Fi or Internet from any operating platform via web browser. The CryoDry support team is now literally only one click away and can assist with application questions, technical troubleshooting and your service needs.



CD8 Pro'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. CD8 Pro 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.



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



CD8 Pro is designed to be fast and efficient. 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. CD8 Pro's 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

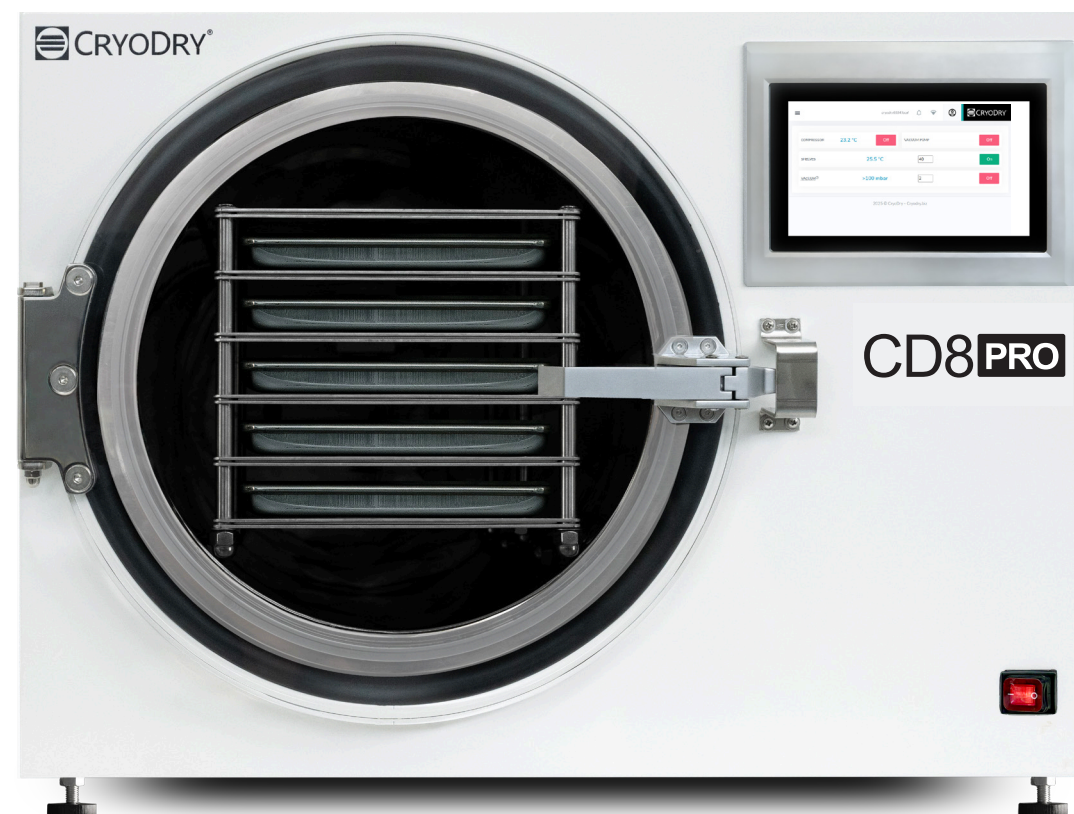
- Benchmark Size-to-Capacity Ratio
- Ice Condenser Capacity 8 kg
- Condenser Performance 4 kg per 24h
- Up to 8,100 cm<sup>2</sup> shelf area for large loads

## REMOTE CONSOLE

- Real Time Full Remote Control via Console
- Multi-machine Management
- SMS and Email Status Notifications
- Over-The-Air Software and Firmware Updates
- CryoDry Remote Support
- Wi-Fi Connectivity

## LIMITLESS PROGRAMMING

CD8 Pro controller features infinite recipe editing and naming, conversion of optimised runs into programs, graphic preview, recipe version tracking and recipe usage tracking. This includes user level access management.



## autodry® MODE

CD8 Pro 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 Pro offers certification according to UL (USA), CSA (Canada) CE (Europe) and RCM (Australia/New Zealand)





#### MULTI-MACHINE REMOTE MANAGEMENT

The CryoDry Console allows users to manage multiple CD8 Pro freeze dryers from a single interface. Recipes can be copied and shared between machines without the need for USB drives or manual transfer. This makes it easy to apply optimised settings across your entire fleet, improving consistency and efficiency.

#### REAL TIME FULL REMOTE CONTROL VIA CRYODRY CONSOLE

The CryoDry Console allows users to access, monitor, control and program the CD8 Pro remotely via Wi-Fi or the Internet. Compatible with any device and operating system, it works through a standard web browser without the need for special software.

#### NEW HIGH RESOLUTION ONBOARD TOUCHSCREEN CONTROLLER

The CD8 Pro is operated via a high-resolution 7" capacitive touchscreen. The interface is designed to be intuitive and easy to use. The CryoDry Console remote access portal closely matches the onboard menu layout, helping users stay familiar and efficient.

#### PROGRAMABLE 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

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.

#### 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.



#### GLOBAL POWER SUPPLY

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

#### POWER RECOVERY

CD8 Pro power outage recovery function retains cycle progress and restarts automatically in transient power outages.

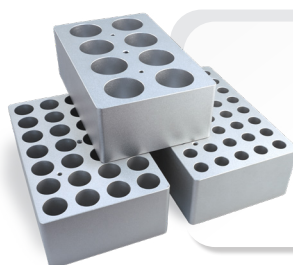
#### ENERGY EFFICIENCY

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 Pro having market leading energy efficiency. Average consumption is below 700W per hour when used with HiScroll 6.



#### 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.



#### 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.



## CRYODRY REMOTE SUPPORT



**Expert support, just a click away**, whether it's troubleshooting, fault diagnosis or application advice, CryoDry's expert support team is ready to assist you remotely. Quick, efficient and just a click away. We are here to keep your CD8 Pro operating at its best.

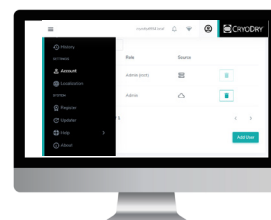
## SMS AND EMAIL STATUS NOTIFICATIONS



Stay informed, wherever you are. Receive real-time alerts, for example, when a run finishes, power is interrupted or an unexpected event occurs. React quickly and keep your freeze-drying on track.



## USER LEVEL ACCESS MANAGEMENT



Access levels can be assigned to manage permissions on the CD8 Pro, helping maintain security and prevent unintended changes to settings or recipes.

## LIMITLESS PROGRAMMING



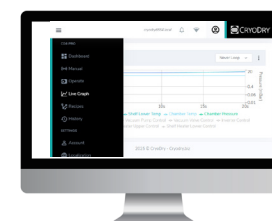
CD8 Pro controller supports unlimited recipe creation and editing, with the ability to name, version and track recipes over time. Optimised runs can be converted into reusable programs and a graphical preview helps users review steps before starting a run. Recipe usage tracking also supports process consistency and record keeping.

## OVER-THE-AIR SOFTWARE AND FIRMWARE UPDATES



CD8 Pro notifies users and administrators when software or firmware updates are available. Updates can be installed directly via the internet, ensuring your system stays up to date with the latest features, improvements and fixes, without the need for manual updates or service calls.

## LIVE GRAPHIC DISPLAY



Visualise Your Process in Real Time. Monitor your freeze dryer with live, easy-to-read graphics showing key parameters like time, condenser temperature, shelf temperatures, chamber pressure and system status. All data is automatically recorded and saved, giving you a full record of each cycle for review, analysis or export when needed.





## 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	$1.5 \times 10^{-1}$ 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

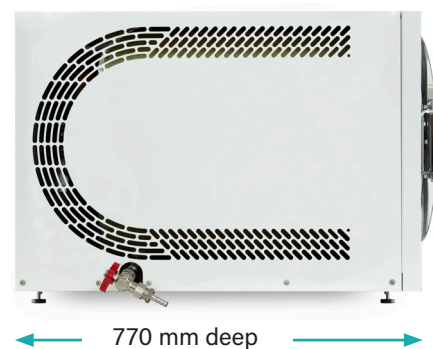
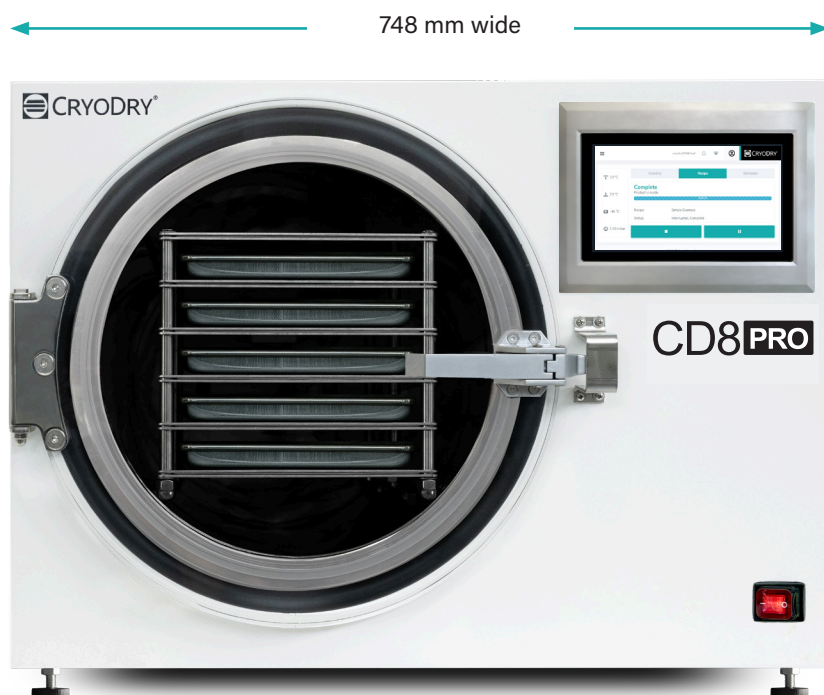
Electrical	AC 120V 14A 50/60Hz
	AC 220-240V 8A 50/60Hz (Not for UL-mark)
Maximum Vacuum Pump Current	AC120V, 50/60Hz; 2.8A AC220-240V, 50/60Hz; 1.6A

### INTERFACES

Interfaces	USB-A, Wi-Fi
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### SIZE AND WEIGHTS

External Dimensions (DxWxH)	770 x 748 x 507 mm
Weight	87 kg
Noise Level	54 dB(A)



Your CryoDry® Local Distributor

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