



NutriFREEZE

"Enhancing Product Quality & Profits"

"Stainless Programmable Short Cycle"

FREEZE DRYER

**2026
STANDARD**



**MODEL
FC-R 500 +
120 KW CHILLER**

PRICED AT \$1,112,000

(1100 POUNDS/16-24 HOURS)

The FC-R Range of short cycle freeze dryers use radiant heat energy, and a rapid load/unload trolley and cassette system.

Simply pre-freeze your product in a walk-in freezer, roll the trolleys to the freeze dryer, and slide the cassettes into the product chamber. Loading and unloading takes just minutes.

Some of the key features of this unit are:

- Fast drying of 1100 pounds of product in 16-24 hours
- Fully programmable cycle with a 19 inch touch screen HMI
- Tray area of 538 square feet
- Shelf spacing of 3.15 inches
- Supplied with 3 trolleys, 3 cassettes, and 2 sets of trays (144 x 2)
- This freeze dryer is supplied with a 120 KW Chiller

Built to exacting specifications at our ISO:9001 Factory.

CE Certified

Onsite commissioning will be completed by a NutriFREEZE team member.

TECHNICAL DATA

FC-R 500

CONTROL SYSTEM:	Fully Programmable
ICE CONDENSER CAPACITY:	Continuous Defrost
ICE CONDENSER TEMPERATURE:	-67°F / -55°C
DEFROSTING:	Continuous – Cold Stream
NUMBER OF TRAYS:	Shelves 24 (144 Trays)
LOADING SYSTEM:	Cassette / Trolley
TOTAL TRAY AREA:	538 Square Feet
SHELF TEMPERATURE:	Up to +266°F / +130°C
REFRIGERATION:	Screw Compressor x 2
REFRIGERANT:	R-404A (NON-CFC)
COOLING SYSTEMS:	120 KW Chiller- Water/Glycol
VACUUM SYSTEM:	Pfeiffer HENA + Pfeiffer OKTA
ELECTRICAL SPECIFICATIONS:	460/480 Volt, 60 Cycle, 3 Phase
AMPERAGE:	320 Amp Dedicated Line
UNIT DIMENSIONS:	236 x 91 x 83 Inches L x W x H
WEIGHT:	22,050 Lbs



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MODEL FC-R 500 - 120 KW CHILLER



GENERAL DATA

120 KW CHILLER	
COOLING CIRCUITS	1
COMPRESSORS	4 – Scroll
CAPACITY CONTROL	0-25-50-75-100%
POWER	460/3/60
FANS	2 – Axial
CONDENSER AIR FLOW	25,895 cfm
POWER (EACH)	2.5 kW
AVAILABLE STATIC PRESSURE	0 "wc
TANK VOLUME	132 gal
LENGTH	130 in
WIDTH	50 in
HEIGHT	85 in
WEIGHT	3633 Lbs
AMPERAGE	84 A

PERFORMANCE

120 KW CHILLER	
REFRIGERANT	R410A
HYDRAULIC KIT	P3
INLET WATER TEMPERATURE	90°F
OUTLET WATER TEMPERATURE	59°F
GLYCOL TYPE	25% Propylene Glycol
AMBIENT TEMPERATURE	95°F
COOLING CAPACITY	34.5 Tons 414,000 Btu/Hr
TOTAL ABSORBED POWER	42.2 kW
EVAPORATOR WATER FLOW RATE	85.9 gpm
AVAILABLE HEAD PRESSURE	39 psi
MIN AMBIENT TEMPERATURE	23°F
MAX AMBIENT TEMPERATURE	110°F



BOTANIQUE PRESERVATION EQUIPMENT, INC.
Young, Arizona USA 85554



PHONE: 623-826-5918
WEBSITE: www.nutrifreeze.net
EMAIL: rldelong@nutrifreeze.net

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