

DATA SHEET

BLAST FREEZER | 270 L | -70°C



Reference	
CRP100E	

General specifications

Inner volume	270 liters / 9.5 cu.ft.
Dimensions : externals (H x W x D) internals (H x W x D)	1990 x 900 x 1440 mm / 78.4 x 35.5 x 56.7 in. 1070 x 630 x 400 mm / 42.1 x 24.8 x 15.7 in.
Construction : external internal	Electrogalvanised steel with epoxy paint Stainless steel inner tank Z6 CN 18/09
Insulation	6 faces Vacuum Insulation Panel (VIP) and high density polyurethane foam Thermal conductivity <0.005 W/m/K Access door sealed by a system of triple-lips silicone seals
Net weight	450 kg / 993 lb.
Standard equipment	4 swivel casters equipped with height-adjustable antivibration pads Drain for condensate recovery (do not connect to the wastewater network, possibility of contaminated condensate) Door closing by eccentric and progressive tightening
Working temperature	Air conditioning must ensure an ambient temperature <25°C
Indoor / outdoor use	For indoor use only
Environnement	Not designed for use in explosive atmospheres (ATEX)
Warranty	2 years After-sales service insured by FROILABO

Refrigeration system

Cooling engine	Water condenser Fin evaporator
Refrigerant load	1st stage : R452a/ 2nd stage : R23 (non-flammable, without CFCand HCFC)
Evaporatorwith ventilation	7000 m ³ /h (strong ventilation)
Cooling required (at your expense)	Cooling water inlet (Flow : 4m ³ / hour - 3 bars <pressure <5 bars) Inlet/Outlet connections with barrier valves Maximum dissipated power : 15 kW Two stainless steel braided hoses, length 3 meters (supply by Froilabo) Male or female BSP3/4 conical fittings
Defrost	Defrosting program of the evaporator by hot gas return (12 minutes)

Electric and electronic data

Controller	Electronic regulator and industrial controller
Temperature probe	2 x Pt100 3 wires silicone coated (T° regulator + T° real / tank & bag)
Safety	High temperature (+50°C) security (ventilation stop) On/Off switch with emergency stop High temperature alarm output on NO/ NC dry contacts (active during «storage» phase) Cable entry port ø50mm with shutter High pressure safety
Cooling capacity at -30°C	7000 W
Power supply	400V Tri + N + T 40A, protected by 30mA D curve breaker

Performances	
Finale temperature	-70°C
Temperature homogeneity	+/- 1.5°C
Controls	
Control panel	Operator panel placed at eye-level on the fast freezer
Menu (color touch)	Parameter entry menu Function menu Display panel Traceability menu Technical Menu (restricted to technical service)
Management automaton	Audible signal at the end of the «Freezing» cycle Automatic switch to the "Storage" setpoint at the end of the freezing cycle Automatic comparison at the end of the «time / temperature» cycle Information remains displayed until acknowledgment
Options et conformity	
Options	<ul style="list-style-type: none"> • Mobile stainless steel loading unit for CRP fast freezer • 1 handling cart holder with guide bar, mobility is ensured by 4 swivel casters, 2 with brakes • 1 trolley with stainless steel trays accommodating in the useful freezing volume
Documentations	1 user manual in english (implantation / installation / use / preventive maintenance - refrigeration and electrical diagrams - list of spare parts)
Certification / Conformity	<ul style="list-style-type: none"> • CE compliant • 2004/108/CEE - Electromagnetic compatibility • 2006/95/CEE - Low tension • 97/23/CE – Under pressure equipments
Shipping	
Shipping dimensions (H x W x D)	2250 x 1000 x 1510 mm / 88.6 x 39.4 x 59.5 in.
Package type	Free access for equipment installation Special handling for installation (if necessary)
On-site formation during commissioning (options)	
	Users (utilization / cleaning) Technical (preventive maintenance / default diagnosis)



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