

Nicool – FREEZAL

“Freezing for Life”



Controlled
Rate
Freezer
for all
kinds of
biological
samples

Compact Freezer

Compliant to MDD 93/42

Intuitive Programming
MS Windows XP™

For Straws, Vials and Bags

Nicool – FREEZAL

The Nicool FREEZAL is a programmable cryogenic freezer designed to freeze all kinds of sensitive biological samples. The FREEZAL has been designed by AIR LIQUIDE DMC's (Cryogenic Material Division) research and development team to be the next generation of NICOOL freezers.



Benefits & Key Characteristics

Easy to use – Plug N' FREEZE

- ▶ For straws, vials and bags
- ▶ Compliant to MDD 93/42 & 21CFR part 11
- ▶ Easy to create and save protocols
- ▶ Print freezing graphs with USB commercial printers
- ▶ Intuitive programming (MS Windows XP™)
- ▶ Integrated **industrial** PC and **industrial** touch screen for reliability & safety
- ▶ Connection for a 2nd viewer screen for remote monitoring
- ▶ Language options: 5 languages (UK, FR, SP, IT and DE), others available upon request
- ▶ Multi-programmable: manual, semi-automatic, automatic
- ▶ Data is stored in the computer in case of electrical failure
- ▶ Automatic data back-up system
- ▶ 3 USB ports
- ▶ RJ45 Network connection
- ▶ Compact and light system

Technical DATA

Characteristics

Freezing capacity per cycle		A: vertical rack	B: horizontal rack
≤ 0.5 ml straws (incl. CBS)		196	30
≥ 1 ml straws (incl. CBS)		169	–
C: 2 ml/5 ml vials		595/298	
D: Bags (up to 700 ml)		10 + 1 (for test sample)	
Electricity consumption	W	800	
Electricity supply	V/Hz	220/50	
Measurment accuracy	°C	± 0.1	
Dimensions of freezing chamber			
L x W x H	mm	210 x 210 x 320	
Temperature range	°C	40 to -180	
Cooling speed	°C/min	0.1 to 25	
External Dimensions			
L x W x H	mm	534 x 536 x 467	
Weight	kg	30	

The FREEZAL Solution

Reference	Description
FREEZAL-1	Nicool Freezal (220 V) Chamber + integrated PC + software
ACC-FREEZAL-1	Rack for bags (up to 700 ml)
ACC-FREEZAL-2	Rack for vials (2ml/5 ml)
ACC-FREEZAL-3	Horizontal rack for straws
ACC-FREEZAL-3	Vertical rack for straws