

ULT-Freezer Performance Data Sheet



Capacity

Storage volume	725 L
Number of compartments	3
Adjustable shelves	Yes
Racks per self	6
Racks per freezer	18
Box capacity	50 mm (2 in) box 504
	75 mm (3 in) box 360
per freezer	100 mm (4 in) box 216
Sample capacity	50 mm (2 in) box 50,400
	75 mm (3 in) box 36,000
per freezer	100 mm (4 in) box 21,600
Temperature rating	-50 °C to -86 °C

Technical Specifications: U725-G – Air Cooled

Intended use	<ul style="list-style-type: none"> > Cold storage of standard laboratory materials > Indoor use only, between 15 and 32 °C > Altitude up to 2000 m > Non-corrosive, non-flammable, non-explosive environment
Environmental conditions	<ul style="list-style-type: none"> > Good air ventilation required > Maximum relative humidity 80 % for temperatures up to 31 °C > No mains/power supply voltage fluctuations
Electrical rating (1 phase)	230 V/50 Hz
Current rating	8.5 A
Power plug	Schuko
Agency listing	<ul style="list-style-type: none"> > WEEE > All components tested to CE specifications

Dimensions and Construction

Internal dimensions (H x W x D)	1365 x 865 x 615 mm (54.7 x 34.1 x 24.2 in)
External dimensions (H x W x D)	1925 x 1025 x 867 mm (75.8 x 40.4 x 34.1 in)
Interior	Stainless steel grade 304 2B
Insulation	Vacuum insulation panels and polyurethane foam
Shipping weight	315 kg (694.5 lbs)
Casters/level legs	Standard

User Interface

Alarms	Adjustable high/low temperature, power fail, battery low, filter clean, fault
Password protection (freezer settings)	Yes
Remote alarm port	Standard
RS-485 interface	Optional
Power switch	Secured by lockable plate
Lock	Standard
Temperature control	Microprocessor
Cabinet control probe	PT 100

Refrigeration System Specifications

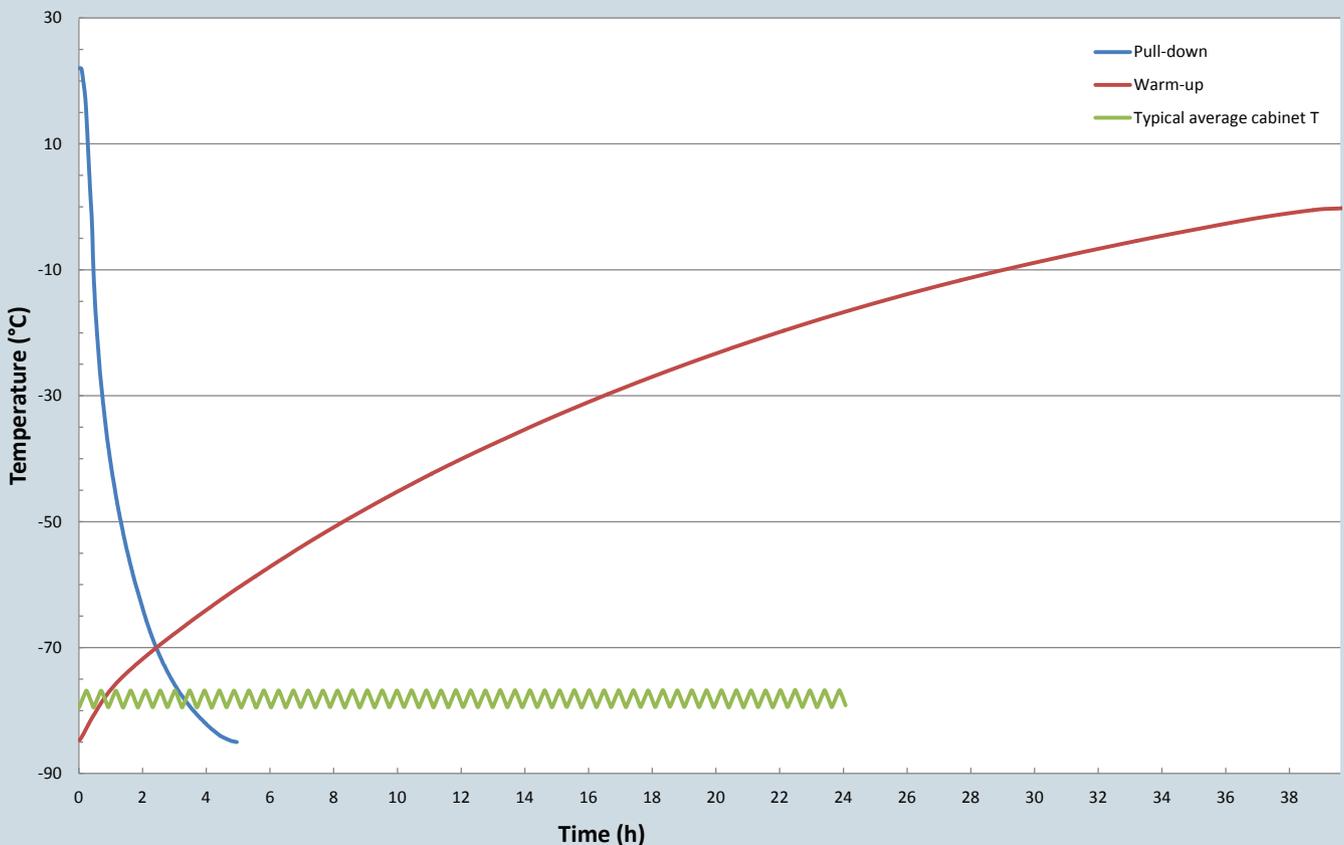
Refrigeration system	2 stage cascade cooling system
Compressors	Commercially available, heavy duty compressors
Defrost method	Manual
Refrigerant charge	High stage: R290 Low stage: R170
Condensing method	Air-cooled
Expansion device	Capillary tubes
Evaporator type	Cold wall

Typical Performance Characteristics at 22 °C +/- 1 (Ambient Temperature)

Pull down time (freezer empty, from ambient to -85 °C)	4 h 44 min			
Power consumption (freezer set to -80 °C)	12.2 kWh/day			
Cabinet uniformity (freezer set to -80 °C)	+4.6 °C/-0.0 °C ¹			
Heat output	502 W (1713 BTU/h)			
Warm up time (freezer 2/3 full, from -85 °C to 0 °C)	39 h 39 min			
Noise level	57.6 dB			
Door open recovery (freezer set to -80 °C)	120 s	60 s	30 s	15 s
	51 min	36 min	23 min	20 min
Duty cycle (on/off)	13/12 min			
Electric/mains	8.5 A			

¹Average multiple probe temperature deviation

U725-G 230 V/50 Hz Performance Graph



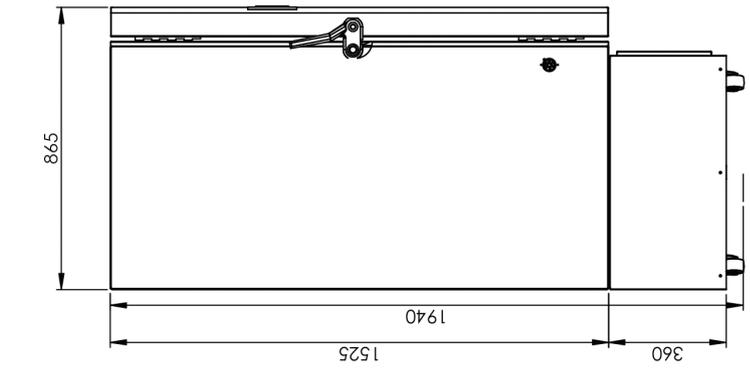
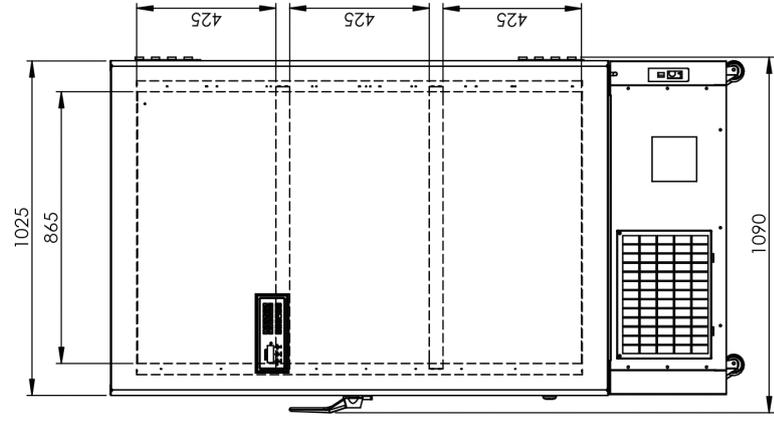
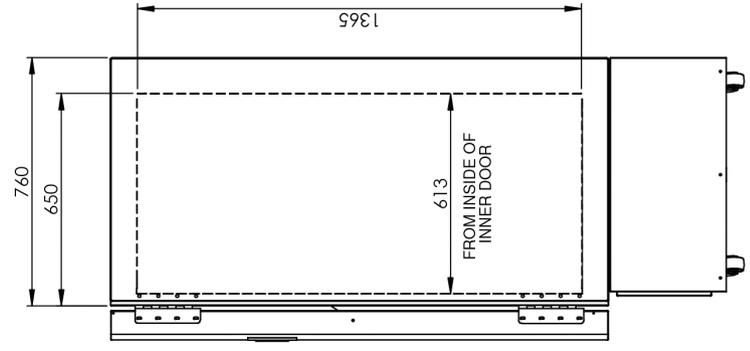
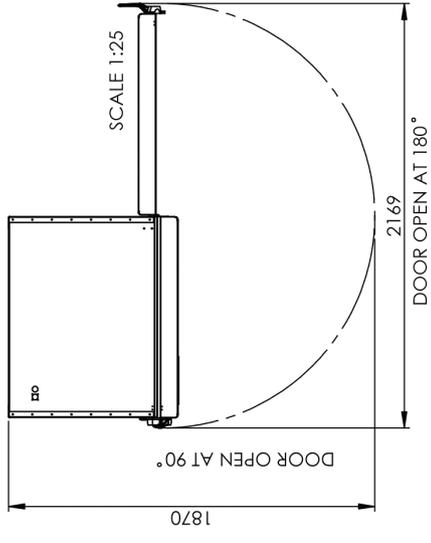
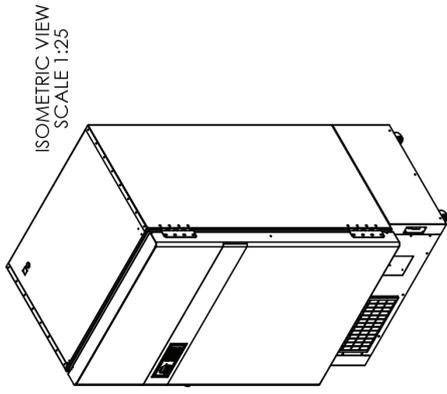
Technical specifications subject to change

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DRAWN	G Mason	Scale	1:15	EPENDORF CRYOTECH LTD	TOLERANCES -	MATERIAL	N/A	Title	U725-G ASSEMBLY OUTLINE
APPROVED	DC	ALL DIMENSIONS	IN MILLIMETRES	BATES ROAD, MALDON, ESSEX. CM5 5FA	GEN - ±1.0mm HOLE CTRS -	FINISH	N/A	Drawing No	UT9440-0000-300
EPENDORF CRYOTECH Ltd owns the copyright of this drawing which is not to be copied or disclosed to a third party without written permission. Copyright © 2014									Third angle projection
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