

Technical Data

Laboratory Refrigeration Equipment RC, RF



Technical data

RC RF Laboratory Refrigeration Cabinets



Designed and manufactured for the exacting standards of Biological, Pharmaceutical, Life Sciences and Laboratories.

Features

- The Porkka electronic microprocessor controller with large easy to read LCD screen in either numeric or graph format
- Real-time temperature data logging with download to USB facility
- High temperature protection during defrost period
- Low temperature protection (RC only)
- Visual and audible high/low temperature alarm
- Door open alarm
- Probe failure alarm
- Temperature Accuracy $\pm 1^{\circ}\text{C}$
- Keyboard tamper protection
- Digital calibration for temperature probe
- Potential free alarm contact for connection to a Building Management System
- Additional thermo mass probe connected to the controller
- TTL-Mod Bus communication port (RS 485 with optional converter)
- Exterior finish in white polyester-coated sheet steel, interior finish in stainless steel grade AISI 304. All models also available in finish outside/inside stainless steel grade AISI 304
- Insulation with high density CFC/HCFC free polyurethane

- 4 pcs full-size stainless steel plate shelves, adjustable in increments of 30 mm
- Door equipped with central lock, magnetic gasket, heavy duty spring hinges with 90° dwell open
- Efficient and energy saving, hermetic air cooled CFC/HCFC refrigeration system

Optional features

- Extra shelves as required
- Drawers in lieu of shelves
- Wire baskets in lieu of shelves
- Castors in lieu of legs
- Converter TTL Mod Bus to RS 485
- Electronic locking solution with access notification of whom has opened the cabinet plus time and date
- 8 mm sleeved access port for remote monitoring
- Battery Back up for real time temperature datalogging 12h (DIN 58345)

Technical data

RC RF Laboratory Refrigeration Cabinets



RC 520



RC 720

Technical data

RC RF Laboratory Refrigeration Cabinets

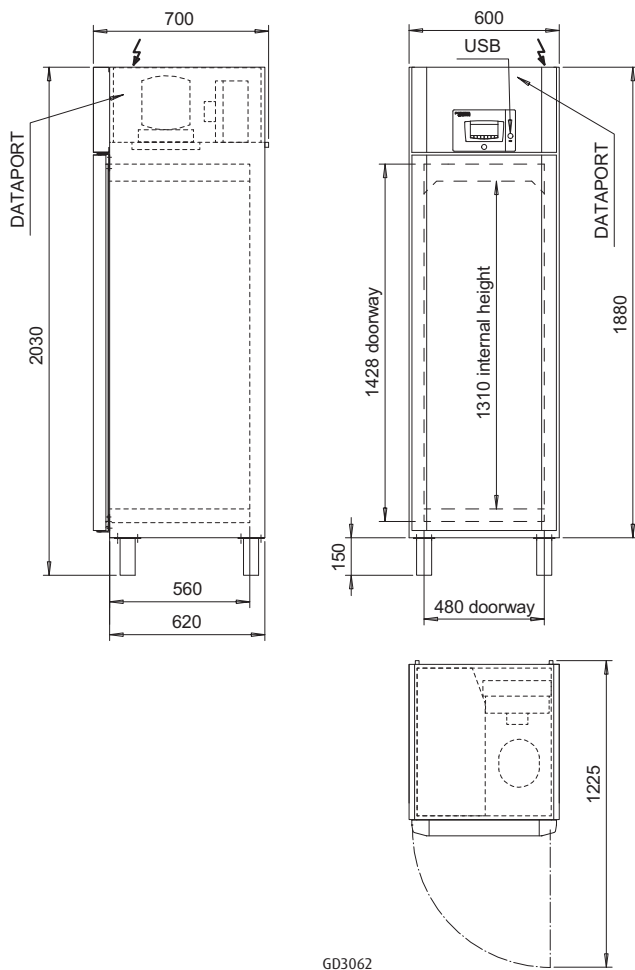


			RC 520	RF 520	RC 720	RF 720
External dimension	width	mm	600	600	850	850
	depth	mm	700	700	700	700
	height	mm	2030	2030	2030	2030
Internal dimension	width	mm	480	480	730	730
	depth	mm	560	560	560	560
	height	mm	1310	1310	1310	1310
Volume	Net	litres	287	287	464	464
	Gross	litres	410	410	595	595
Weight		kg	130	130	150	150
Shelves	width	mm	400	400	650	650
	depth	mm	530	530	530	530
Amb. Temperature		°C	+5...+32	+5...+32	+5...+32	+5...+32
Operating temperature		°C	+2...+40	-10...-30	+2...+40	-10...-30
Temperature Accuracy 125 g testpackage (EN 28187)		°C	±1°C	±1°C	±1°C	±1°C
Connection power		W	450	730	450	740
Cooling effect		W	650	595	650	595
evaporator/condensor ambient			-10°C/+45°C/ +32°C	-30°C/+45°C/ +32°C	-10°C/+45°C/ +32°C	-30°C/+45°C/ +32°C
Refrigerant			R 134a / 240g	R 404A / 275g	R 134a / 240g	R 404A / 275g
Fuse (slow)		A	10	10	10	10
Voltage		V	230/50 Hz	230/50 Hz	230/50 Hz	230/50 Hz
Defrost			2	2	2	2
1. Air						
2. Hotgas						
3. Electric						

Technical data

RC RF Laboratory Refrigeration Cabinets

RC, RF 520

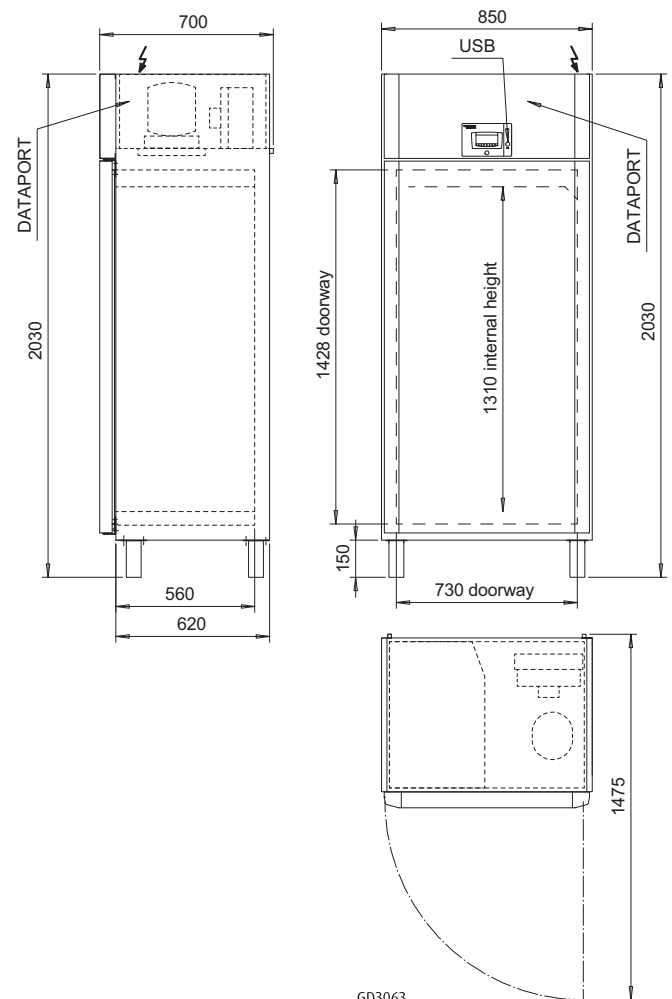


G03062



RC, RF 520

RC, RF 720



G03063



RC, RF 720

Technical data

Porkka LCD-Controller



Porkka's new controller has been developed to fulfil the exacting demands in the medical, laboratory and research sectors.

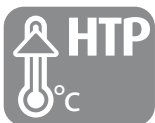
The electronic microprocessor controller:

- vastly increases the safety of products being stored within the cabinet as well as providing real-time temperature recording and details of out of temperature alarm events.
- The internal equipment temperature is displayed on a large easy to read LCD screen in either numeric or graph format.
- The operator can also download historical temperatures and alarm events via a USB memory stick, cable or optional wireless modem.



LTP - Low Temperature Protection

Anti-freezer protection is especially important in vaccine or temperature sensitive drugs storage. This will not allow the equipment to go below +2°C to prevent accidental freezing. In this event the refrigeration system is automatically switched off, but starts operating again when the cabinet reaches above set point temperature.



HTP - High Temperature Protection during defrost period

HTP-function stops the product temperature rising above the set safety limit say +8°C which is adjustable, say during a defrost period.



RTG - Real time temperature graphic display

When the display is in graphic mode the LCD displays the last 100 temperature recordings in a graph format. The time interval between recordings is also adjustable, for example a 5 minute recording frequency period will display a graph showing approximately 8 hours temperature logging.

Technical data

Porkka LCD-Controller



USB, DATA

Temperature and alarm information is stored within the controller in real time and can be downloaded via a USB stick, cable or optional wireless in *.txt format and the recorded data can be read from an MS Office e.g. Excel computer program.

The monitored temperature data capacity is between several months to a few years, dependent on the recording frequency selected.



Alarm Info

Porkka's controller has a large range of alarm information, which is both audible and visual i.e. displayed on the large LCD screen as well as audible notification with an alarm beep.

There is also a potential-free relay to allow the controller to be connected to a building management system to notify of power out conditions and also notify an alarm event.

All alarm events are recorded in the memory of the controller on an accurate real time basis.



12 Hour Battery Back Up

Optional battery backup is included with the controller giving up to 12 hours real time temperature recordings in the event of power failure.

The battery back up system also ensures the visual and audible alarms are functional where the audible alarm will beep every few minutes during power out but will give a continuous tone when the temperature within the cabinet rises above set alarm temperature.



Porkka in Finland is an internationally recognised designer and manufacturer of Medical Refrigeration Equipment

Porkka in Finland is an internationally recognised designer and manufacturer of Refrigeration and Food Storage/Display Equipment. The range incorporates Chilled, Frozen and Heated options. Major clients include commercial kitchens, restaurants, fast food outlets, hotels, industrial canteens, hospitals, laboratories and retailers throughout the World.

Our main markets outside of Finland include Scandinavia, United Kingdom, Germany, Switzerland, Holland, Belgium, Russia and the Baltic regions. 80% of the companies' turnover is derived from foreign transactions and exports. On going and adaptive development by numerous foreign representatives ensures our continued growth.

Porkka's success is based on decades of experience, customer focused design and continuous product development.

Porkka is part of the Huurre Group. Porkka and Huurre brands are well known for their quality and reliability throughout the world.



Porkka designs and manufactures to a quality standard ISO 9001 which is controlled and certified by Lloyd's Register Quality Assurance. We also hold the environmental certificate ISO 14001 which also has been issued by LRQA, where environment impact in production is kept to a minimum.

CE marked products. The manufacturer through continuous research and development reserves the right to change technical specification and design without notice.

Porkka reserves the right to make any changes without prior notice.

PORKKA

Porkka in Finland
Mukkulankatu 19
FI-15210 Lahti, Finland
Tel. +358 20 5555 12
Fax +358 20 5555 497
e-mail: contact@porkka.com
www.porkka.com

Porkka in Sweden
Industrigatan 21
S-61933 Trosa, Sverige
Tel. +46 156 348 40
Fax +46 156 167 50
e-post: porkka@porkka.se
www.porkka.se

Porkka in Norway
Lensmannsliia 30
N-1386 Asker, Norge
Tel. +47 66 98 77 77
Fax +47 66 98 77 88
e-post: salg@porkka.no
www.porkka.no

Porkka in UK
29B Greenhill Crescent
Watford Business Park, Watford
Hertfordshire, WD18 8YB, UK
Tel. +44 1923 23 36 75
Fax +44 1923 80 57 17
e-mail: sales@porkka.co.uk
www.porkka.co.uk