# PORKKA

# Product Catalogue 2017

## for Scientific & Medical Institutions

# PORKKA

# Product Catalogue for Scientific & Medical Institutions

## The next generation of the scientific and medical refrigeration equipment

Porkka offers a wide range of refrigerators, freezers, ice machines and storage rooms. All the Porkka scientific and medical range is designed and manufactured for professional use and they meet customer's most stringent demands.

The versatile range offers quality and simplicity in use, furthermore, low power consumption ensures, Porkka Scientific and Medical equipment is environmentally friendly.



## New 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 off 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**
Freezer protection is especially important for 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, for example 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.

**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 Voltage-free relay to allow the controller to be connected to a building management system to notify of power out conditions and also notify of an alarm event. All alarm events are recorded in the memory of the controller on an accurate real time basis.

**OPTIONAL: 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.

# Contents

## Small medical cabinets

## Large medical cabinets

## Flake & Cube Ice Machines

## Cold Rooms

## Other

# ProMed MC Medical Cabinets

As our most advanced refrigerator yet ProMed balances quality and design with great temperature stability to ensure your samples and products are safe.

## New Porkka Controller

- Easy to use
- Large display
- Supports multiple languages
- Display temperature accuracy down to 0,1°C
- Real-time temperature data logging
  with possibility to download to USB
  (recommended USB flash drive max 4 GB)

## Safety functions

- Intelligent self-monitoring system
- Separate control temperature probe, which corresponds with the stored product temperature
- High temperature protection during defrost period
- Low temperature protection
- Visual and audible high/low temperature alarm
- Door open alarm
- Probe failure alarm
- Temperature Accuracy ±0,5°C, tested from a reference mass according to DIN58345
- Voltage free alarm contact for connection to a Building Management System

## Cabinet features

- Environmentally friendly HFC free refrigerant R600a
- Energy efficient and environmentally friendly (HFC free polyurethane) insulation material
- Quiet operation
- Exterior finish in white polyester-coated sheet steel
- Door equipped with lock and magnetic gasket
- Digital recalibration for temperature probe with 0,1°C accuracy

## Optional equipment
(see accessory list for more details)

- Extra shelves
- Access ports
- Locking solutions
- Battery Back up
- Huurre iTOP - Smart iTOP monitoring and control service

# ProMed MC Medical Cabinets

The Porkka ProMed Series setting the new standards. Porkka products have set the standard for six decades, and the latest version of the Scientific refrigerators raises the bar.  As our most advanced refrigerator the ProMed balances quality, design, temperature stability, predictive monitoring technologies and ease of use in a device to make sure your samples and products are safe.

Evolving from its original platform, the 4 new features ensures that valuable products are not spoiled due to the wrong conditions. And that means your team can be even more effective. The Porkka ProMed ensures that  valuable pharmaceuticals and samples  are not spoiled due to the wrong  conditions. ProMeds are equipped with unique and easy to handle control unit to ensure product safety, graphical display with real-time temperature and defrost time for thermal protection.

| SPECIFICATIONS | ProMed MC 70 | ProMed MC 180 | ProMed MC 150/150 |
|---|---|---|---|
| Operating Temperature | +2…+8 ℃ | +2…+8 ℃ | +2…+8 ℃ |
| Amb. Temperature | +10…+32 ℃ | +10…+32 ℃ | +10…+32 ℃ |
| Width (mm) | 595 | 595 | 595 |
| External Depth + handle (mm) | 480+20 | 480+20 | 480+25 |
| External Height floormodel* (mm) | 900 | 1300 | 2000 |
| External Height low model (mm) | 800 | – | – |
| Ext. height wall-, table/ and undertable models (mm) | 720 | – | – |
| Internal width (mm) | 495 | 495 | 495 |
| Internal depth (mm) | 360 | 360 | 360 |
| Internal height (mm) | 495 | 940 | 780+780 |
| Net Volume (litres) EN 16825 | 37 | 93 | 81 + 72 |
| Gross (litres) | 72 | 164 | 143+143 |
| Gross weight (kg) | 42 | 51 | 88 |
| Shelves (pcs) | 2 | 5 | 4+4 |
| Door shelves (pcs) | 2 | 5 | 4+4 |
| Size of the shelves (width x depth mm) | 485 x 155 | 485 x 155 | 485 x 155 |
| Size of the door shelves (width x depth mm) | 470 x 100 | 470 x 100 | 470 x 100 |
| Connection Power (W) | 82 | 110 | 220 (110 + 110) |
| Cooling Effect (W) | 108 | 137 | 137 + 137 |
| Evaporator/Condensor Ambient | 10°C/+55°C/+32°C | 10°C/+55°C/+32°C | 10°C/+55°C/+32°C |
| Refrigerant (g)/GWP | R600a/35 g (GWP 3) | R600a/45 g (GWP 3) | R600a/45+45 g (GWP 3) |
| Temp. Accuracy (DIN58345) | ± 0,5°C | ± 0,5°C | ± 0,5°C |
| Energy Consumption (kWh/24h) | 0,71 | 0,75 | 1,5 |
| Fuse, slow (A) | 10 | 10 | 10 |
| Defrost | Electric | Electric | Electric |
| Voltage (V) | 230V, 50Hz | 230V, 50Hz | 230V, 50Hz |

*(According DIN58345 measured from 100 ml mass)

# PORKKA

# Combination Medical Storage Cabinets

Extensive range from counter top models to large upright refrigerators and freezers, for use in general practices to hospitals and operating theatres.

## Features

- Neutral, non-refrigerated cabinets
- Exterior made of durable and easy to clean melamine board
- Lockable doors and drawers, standard lock: Abloy CL104 or CL103
- Shelves and door compartments of durable plastic; especially dimensioned for storing drugs and medicines
- M1 cabinet equipped with separate narcotics locker
- Narcotics locker which is supplied with a separate lock and key different to the cabinet door
- M1 cabinet equipped with LED light automatically operated by the door switch

## Optional features

- M1 cabinet can be combined with PROMED MC70 medical refrigerator
- M3 cabinet can be either added on top or below the PROMED MC180 refrigerator



**M1 + PROMED MC70**  **M3 + PROMED MC180**



**PROMED MC70 + VL6**  **PROMED MC180 + VL4**

# Combination Medical Storage Cabinets

## M1 + PROMED MC70

Free-standing

Exterior dimensions 596 x 480 + 25 x 2000 mm (width x depth + handle x height)

Interior dimensions 500/495 x 380/360 x 1040/495 mm (width x depth x height)

Net / Gross volume 199+75 / 220+95 litres

Connection power 0,15 kW + 0,03 kW / 230 V / 50 Hz

## M3 + PROMED MC180 / PROMED MC180 + M3

Free-standing

Exterior dimensions 595 x 480 + 25 x 2000 mm (width x depth + handle x height)

Interior dimensions 560/495 x 380/360 x 425/940 mm (width x depth x height)

Net / Gross volume 85+130 / 90+170 litres

Connection power 0,19 kW / 230 V / 50 Hz

## PROMED MC70 + VL6 / VL3

Free-standing

Exterior dimensions 596 x 480 + 25 x 1620 mm (width x depth + handle x height)

Interior dimensions 495/500 x 360/380 x 495/680 mm (width x depth x height)

Net / Gross volume 75+135 / 220+95 litres

Connection power 0,15 kW / 230 V / 50 Hz

## PROMED MC180 + VL4 / VL2

Free-standing

Exterior dimensions 596 x 480 + 25 x 2000 mm (width x depth + handle x height)

Interior dimensions 495/560 x 360/380 x 940/425 mm (width x depth x height)

Net / Gross volume 130+70 / 130+70 litres

Connection power 0,19 kW / 230 V / 50 Hz

The capacity of the cabinets is declared according to the European standard of refrigeration equipment ISO 23953. The Net storage capacity according to ISO 23953 is detailed first and secondly the Gross capacity which is also measured according to ISO 23953.

The ambient temperature must not exceed +32°C or fall below +5°C.

# PORKKA

# Non-refrigerated Medical Storage Cabinets

Extensive range of specifically designed cupboards and drawer storage units, for use in general practices, hospitals and medical institutions. Easy to keep clean and equipped with locks they are the ideal solution for non-temperature sensitive medicine and drug storage.

## Features

- Neutral, non-refrigerated cabinets
- Exterior made of durable and easy to clean melamine board
- Lockable doors and drawers,
  standard lock: Abloy CL104 or CL103
- Shelves and door compartments of durable plastic;
  especially dimensioned for storing drugs and medicines
- M1 cabinet equipped with separate narcotics locker
- Narcotics locker equipped with separate lock with different
  key series to the cabinet door
- M1 cabinet equipped with LED light automatically operated
  by the door switch
- Lower section of M2 medicine cupboard can be
  equipped with either three or six-drawer storage unit or a
  neutral cabinet

## Optional features

- M1 cabinet can be combined with MC 70 medical refrigerator
- M3 cabinet can be either added on top or below the MC180
  refrigerator



**M2-AK**          **M2-VL 6**

# Non-refrigerated Medical Storage Cabinets

## M1 medicine cabinet

Wall installation

Exterior dimensions 596 x 425 + 25 x 1100 mm (width x depth + handle x height)

Interior dimensions 500 x 380 x 1040 mm (width x depth x height)

Net / Gross volume 199 / 220 litres

Connection power 0,03 kW / 230 V / 50 Hz

## M2-VL6 / VL3 cabinet with a set of drawers

Free-standing

Exterior dimensions 596 x 425 x 2000 mm (width x depth x height)

Cupboard interior dimensions 500 x 380 x 680 mm (width x depth x height)

Drawers interior dimensions 508 x 376 (width x depth)

Drawers 6 pcs VL6 interior dimension 74 (height)

Drawers 3 pcs VL3 interior dimension 148 (height)

Net / Gross volume 199+135 / 220+145 litres

Connection power 0,03 kW / 230 V / 50 Hz

## M2-AK with two cabinets

Free-standing

Exterior dimensions 596 x 425+25 x 2000 mm (width x depth + handle x height)

Cupboard interior dimensions 500 x 380 x 1040+680 mm (width x depth x height)

Net / Gross volume 199+135 / 220+145 litres

Connection power 0,03 kW / 230 V / 50 Hz

## VL3 / VL6 a set of drawers

Free-standing

Exterior dimensions 596 x 425+25 x 900 mm (width x depth + handle x height)

Drawers interior dimensions 508 x 376 (width x depth)

Drawers 6 pcs VL6 interior dimension 74 (height)

Drawers 3 pcs VL3 interior dimension 148 (height)

Net / Gross volume 199+135 / 220+145 litres

## AK cabinet

Free-standing

Exterior dimensions 596 x 425+25 x 900 mm (width x depth + handle x height)

Cupboard interior dimensions 500 x 380 x 680 mm (width x depth x height)

Net / Gross volume 135 / 145 litres

The capacity of the cabinets is declared according to the European standard of refrigeration equipment ISO 23953. The Net storage capacity according to ISO 23953 is detailed first and secondly the Gross capacity which is also measured according to ISO 23953.

# Accessories
## MC Small Medical Cabinets, Combination and Non-refrigerated Medical Storage Cabinets

| | |
|---|---|
| APC12000 | PA92 ALARM CONNECTION BOX |
| APC12030 | RJ45 ALARM CONNECTION CABLE |
| APC12300 | EARTH CABLE |
| APC13005 | 6P47 PT100 PROBE |
| APC13004 | 8MM SLEEVED ACCESS PORT FOR REMOTE MONITORING |
| APM21210 | ASSA LOCK |
| iLOQ S10 | ELECTRONIC LOCKING SOLUTION |
| APM20600 | iLOQ S10 ELECTRONIC LOCKING SOLUTION + 1 KEY |
| APM20601 | iLOQ S10 ELECTRONIC LOCKING SOLUTION + 1 KEY FOR N-LOCKER |
| APM20605 | S10 ADDITIONAL KEY |
| APM20200 | NARCOTIC LOCKER (NOT AVAILABLE WITH MC 70) |
| APM20210 | NARCOTIC LOCKER HEAVY (NOT AVAILABLE WITH MC 70) |
| APM20301 | BASIN MC70 H=800MM (INSTEAD OF STANDARD STAND) |
| APM20410 | SHELF PLASTIC |
| | |

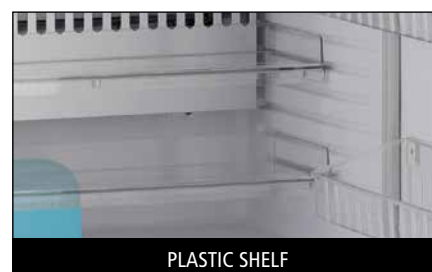HEAT TREATED WOOD PACKING EXTRA COST :
MC70, MC180*
MC150/150*
*Standard packing suitable for containerised shipment


ILOQ S10


NARCOTIC LOCKER


PLASTIC SHELF

# PORKKA

# MC MF PC Medical Cabinets

LTP °C | HTP °C | RTG | USB | Alarm | Battery

Porkka medical cabinets are designed for the storage of temperature critical medicines and drugs. They are energy efficient, safe and reliable.
Porkka medical chillers (MC) and freezers (MF) come with 4 pcs of full-size stainless steel plate shelves, adjustable in increments of 30 mm as standard **Interior.** For Pharmacys (PC): Glass window and extractable drawers are recommended as Interior. For optional Interior and Exterior please see accessory list for details.

## Features

- New Porkka controller
- Easy to use
- Large display
- Supports multiple languages
- Display temperature accuracy down to 0,1°C
- Real-time temperature data logging with possibility to download to USB (recommended USB flash drive max 4GB)
- Safety functions
- Intelligent self-monitoring system
- Separate control temperature probe (P4), which corresponds with the stored product temperature
- High temperature protection during defrost period
- Low temperature protection (Not for freezers)
- Visual and audible high/low temperature alarm
- Door open alarm
- Probe failure alarm
- Temperature Accuracy ±1°C, tested according to EN16825
- Voltage free alarm contact for connection to a Building Management System

## Cabinet features

- Extra-thick energy efficient and environmentally friendly (HFC free polyurethane) insulation material.
- Self-closing door
- Exterior finish in white polyester-coated sheet steel, Interior finish in stainless steel grade AISI 304.
- Door equipped with lock, magnetic gasket, heavy duty hinges with 90° dwell open
- Digital recalibration for temperature probe with 0,1°C accuracy

## Optional features

- Extra shelves
- Drawers
- Wire baskets
- Castors
- Access ports
- Locking solutions
- Battery Back up
- Huurre iTOP – Smart ITOP monitoring and control service

MANUFACTURED IN COMPLIANCE with DIN 58345



**MC 520**          **MC 720**          **MC 722**

**PC 520GW**          **PC 720GW**          **PC 722GW**

# MC MF PC Medical Cabinets

## MC 520 (+2...+12 °C)

Exterior dimensions 600 x 700 x 2030 mm (width x depth x height)

Interior dimensions 480 x 560 x 1430 mm (width x depth x height)

Net / Gross volume 291 / 410 litres

Connection power 0,33 kW / 230 V / 50 Hz

## MF 520 (-10...-26 °C)

Exterior dimensions 600 x 700 x 2030 mm (width x depth x height)

Interior dimensions 480 x 560 x 1430 mm (width x depth x height)

Net / Gross volume 291 / 410 litres

Connection power 0,56 kW / 230 V / 50 Hz

## MC 720 (+2...+12 °C)

Exterior dimensions 850 x 700 x 2030 mm (width x depth x height)

Interior dimensions 730 x 560 x 1430 mm (width x depth x height)

Net / Gross volume 471 / 595 litres

Connection power 0,33 kW / 230 V / 50 Hz

## MF 720 (-10...-26 °C)

Exterior dimensions 850 x 700 x 2030 mm (width x depth x height)

Interior dimensions 730 x 560 x 1430 mm (width x depth x height)

Net / Gross volume 471 / 595 litres

Connection power 0,56 kW / 230 V / 50 Hz

## MC 722 (+2...+12 °C)

Exterior dimensions 730 x 800 x 2030 mm (width x depth x height)

Interior dimensions 610 x 660 x 1430 mm (width x depth x height)

Net / Gross volume 453 / 615 litres

Connection power 0,33 kW / 230 V / 50 Hz

## PC 520GW (+2...+12 °C)

Exterior dimensions 600 x 700 x 2030 mm (width x depth x height)

Interior dimensions 480 x 560 x 1430 mm (width x depth x height)

Net / Gross volume 291 / 410 litres

Connection power 0,33 kW / 230 V / 50 Hz

## PC 720GW (+2...+12 °C)

Exterior dimensions 850 x 700 x 2030 mm (width x depth x height)

Interior dimensions 730 x 560 x 1430 mm (width x depth x height)

Net / Gross volume 471 / 595 litres

Connection power 0,33 kW / 230 V / 50 Hz

## PC 722GW (+2...+12 °C)

Exterior dimensions 730 x 800 x 2030 mm (width x depth x height)

Interior dimensions 610 x 660 x 1430 mm (width x depth x height)

Net / Gross volume 453 / 615 litres

Connection power 0,33 kW / 230 V / 50 Hz



**MC 722 GD**



**MC 722 GW**

The capacity of the cabinets is declared according to the European standard of refrigeration equipment ISO 23953. The Net storage capacity according to ISO 23953 is detailed first and secondly the Gross capacity which is also measured according to ISO 23953.

The ambient temperature must not exceed +32°C or fall below +5°C.

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## MC MF Medical Cabinets

MANUFACTURED IN COMPLIANCE with DIN 58345



MC 722 GD



MC/MF 722 Combi

## MC 722 GD (+2...+12 °C)

Exterior dimensions 730 x 800 x 2030 mm (width x depth x height)

Interior dimensions 610 x 660 x 1430 mm (width x depth x height)

Net / Gross volume 453 / 615 litres

Connection power 0,37 kW / 230 V / 50 Hz

## MF 722 GD (-10...-26 °C)

Exterior dimensions 730 x 800 x 2030 mm (width x depth x height)

Interior dimensions 610 x 660 x 1430 mm (width x depth x height)

Net / Gross volume 453 / 615 litres

Connection power 0,62 kW / 230 V / 50 Hz

## MC/MC 722 Combi (+2...+12 °C / +2...+12 °C)

Exterior dimensions 730 x 800 x 2030 mm (width x depth x height)

Interior dimensions 610 x 660 x (2x) 565 mm (width x depth x height)

Net volume 2 x 156 litres

Connection power 0,46 kW / 230 V / 50 Hz

## MC/MF 722 Combi (+2...+12 °C / -10...-26 °C)

Exterior dimensions 730 x 800 x 2030 mm (width x depth x height)

Interior dimensions 610 x 660 x (2x) 565 mm (width x depth x height)

Net volume 2 x 156 litres

Connection power 0,87 kW / 230 V / 50 Hz

## MF/MF 722 Combi (-10...-26 °C / -10...-26 °C)

Exterior dimensions 730 x 800 x 2030 mm (width x depth x height)

Interior dimensions 610 x 660 x (2x) 565 mm (width x depth x height)

Net volume 2 x 156 litres

Connection power 1,19 kW / 230 V / 50 Hz

The capacity of the cabinets is declared according to the European standard of refrigeration equipment ISO 23953. The Net storage capacity according to ISO 23953 is detailed first and secondly the Gross capacity which is also measured according to ISO 23953.

The ambient temperature must not exceed +32°C or fall below +5°C.

# PORKKA

## Accessories: MC MF Medical Cabinets

| | |
|---|---|
| APC12000 | PA92 ALARM CONNECTION BOX |
| APC12030 | RJ45 ALARM CONNECTION CABLE |
| APC12300 | EARTH CABLE |
| APC13005 | (P4) PT100 PROBE |
| APC13004 | 8MM SLEEVED ACCESS PORT FOR REMOTE MONITORING |
| APC11010 | BATTERY BACK-UP FOR REAL-TIME TEMPERATURE DATA LOGGING 12H |
| | |
| APF12000 | ABLOY LOCK CL104 |
| APF12010 | iLOQ S10 ELECTRONIC LOCKING SOLUTION + 1 KEY |
| APM20605 | S10 ADDITIONAL KEY |
| APF10310 | SS PANEL SHELF WITH ANTI TILT SHELF SUPPORT 520 |
| APF10610 | WIRE SHELF WITH ANTI TILT SHELF SUPPORT 520 POWDER PAINT COATING |
| | |
| APF10640 | SS WIRE SHELF WITH ANTI TILT SHELF SUPPORT 520 |
| APF10410 | SS PANEL SHELF WITH ANTI TILT SHELF SUPPORT 720 |
| APF10710 | WIRE SHELF WITH ANTI TILT SHELF SUPPORT 720 POWDER PAINT COATING |
| | |
| APF10740 | SS WIRE SHELF WITH ANTI TILT SHELF SUPPORT 720 |
| APF10510 | SS PANEL SHELF WITH ANTI TILT SHELF SUPPORT 722 |
| APF10810 | WIRE SHELF WITH ANTI TILT SHELF SUPPORT 722  POWDER COATING |
| | |
| APF10840 | SS WIRE SHELF WITH ANTI TILT SHELF SUPPORT 722 |
| | |



ABLOY LOCK



iLOQ S10



SS PANEL SHELF



WIRE SHELF POWDER PAINT COATING



SS WIRE SHELF

| APF10910 | WIRE BASKET WITH ANTI TILT SHELF SUPPORT 520 |
| APF10960 | WIRE BASKET WITH ANTI TILT SHELF SUPPORT 720 |
| APF11010 | WIRE BASKET WITH ANTI TILT SHELF SUPPORT 722 |
| APF11100 | STAINLESS STEEL DRAWER 520 |
| APF11110 | STAINLESS STEEL DRAWER 720 |
| APF11120 | STAINLESS STEEL DRAWER 722 |
| APF11950 | WIRE DRAWER 520 |
| APF11960 | WIRE DRAWER 720 |
| APF11970 | WIRE DRAWER 722 |
| APF13800 | CASTORS 100 4 PCS (2 LOCKABLE) |
| APF12600 | PERSPEX INNER STABLE DOORS 520* |
| APF12700 | PERSPEX INNER STABLE DOORS 720* |
| APF12800 | PERSPEX INNER STABLE DOORS 722* |
|  | *Not available for Combi Cabinets |
|  |  |
| APF16012 | HEAT TREATED WOOD PACKING EXTRA COST |
|  | Standard packing suitable for containerised shipment |


SS WIRE BASKET


STAINLESS STEEL DRAWER


WIRE DRAWER


CASTORS


24/7 MONITORING

## HUURRE ITOP – YOUR PARTNER IN QUALITY ASSURANCE

Huurre iTOP is an ideal solution for business-critical condition monitoring in laboratories and pharmaceutical industry. Easy to implement, scalable and remote-controlled, the service ensures that pharmaceuticals and samples are under reliable and safe monitoring around the clock.

**Benefits of the Huurre iTOP service:**

+ Saves time – Monitors, reacts and reports on your behalf
+ Saves cost – Minimises loss, decreases manual recording and unnecessary service visits
+ Saves energy – Benefits economy and environment
+ Gives peace of mind – Facilitates equipment management and improves product and sample safety

v.102017

# PORKKA

# BB Medical Blood Banks

LTP °C  |  HTP °C  |  RTG  |  USB  |  Alarm  |  Battery  |  BB

Porkka blood banks are designed for the storage of blood. They are energy efficient, safe and reliable. The BB cabinets comes with 5 pcs full-size stainless steel plate shelves, adjustable in increments of 30 mm as standard interior. Perspex inner stable doors to reduce temperature fluctuation when exterior door is open

## Features

- New Porkka controller
- Easy to use
- Large display
- Supports multiple languages
- Display temperature accuracy down to 0,1ºC
- Real-time temperature data logging with possibility to download to USB (recommended USB flash drive max 4 GB

## Safety functions

- Intelligent self-monitoring system
- Separate control temperature probe (P4), which corresponds with the stored product temperature
- High temperature protection during defrost period
- Low temperature protection (Not for freezers)
- Visual and audible high/low temperature alarm
- Door open alarm
- Probe failure alarm
- Temperature Accuracy ±1ºC, tested according to EN16825
- Voltage free alarm contact for connection to a Building Management System

## Cabinet features

- Extra-thick energy efficient and environmentally friendly (HFC free polyurethane) insulation material.
- Self-closing door
- Exterior finish in white polyester-coated sheet steel, interior finish in stainless steel grade AISI 304.
- Door equipped with lock, magnetic gasket, heavy duty hinges with 90° dwell open
- Digital recalibration for temperature probe with 0,1ºC accuracy

## Optional extras

- Extra shelves as required
- Drawers in lieu of shelves
- Blood/Plasma baskets to place on 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 data logging 12h



BB 520

### Mediline BB 520 (+2...+6 °C)

| Exterior dimensions 600 x 700 x 2030 mm (width x depth x height) |
| Interior dimensions 480 x 560 x 1310mm (width x depth x height) |
| Net / Gross volume 284 / 410 litres |
| Connection power 0,45 kW / 230 V / 50 Hz |

### Mediline BB 720 (+2...+6 °C)

| Exterior dimensions 850 x 700 x 2030 mm (width x depth x height) |
| Interior dimensions 730 x 560 x 1310 mm (width x depth x height) |
| Net / Gross volume 464 / 595 litres |
| Connection power 0,45 kW / 230 V / 50 Hz |

# Accessories

| | |
|---|---|
| APC12000 | PA92 ALARM CONNECTION BOX |
| APC12030 | RJ45 ALARM CONNECTION CABLE |
| APC12300 | EARTH CABLE |
| APC13005 | (P4) PT100 PROBE |
| APC13004 | 8MM SLEEVED ACCESS PORT FOR REMOTE MONITORING |
| APC11010 | BATTERY BACK-UP FOR REAL-TIME TEMPERATURE DATA  LOGGING 12H |
| | |
| APF12000 | ABLOY LOCK CL104 |
| APF12010 | iLOQ S10 ELECTRONIC LOCKING SOLUTION + 1 KEY |
| APM20605 | S10 ADDITIONAL KEY |
| APF10310 | SS PANEL SHELF WITH ANTI TILT SHELF SUPPORT 520 |
| APF10610 | WIRE SHELF WITH ANTI TILT SHELF SUPPORT 520 POWDER |
| | |
| APF10640 | SS WIRE SHELF WITH ANTI TILT SHELF SUPPORT 520 |
| APF10410 S | S PANEL WITH ANTI TILT SHELF SUPPORT 720 |
| APF10710 | WIRE SHELF WITH ANTI TILT SHELF SUPPORT 720 POWDER PAINT COATING |
| | |
| APF10740 | SS WIRE SHELF WITH ANTI TILT SHELF SUPPORT 720 |
| APF10910 | WIRE BASKET WITH ANTI TILT SHELF SUPPORT 520 |
| APF10960 | WIRE BASKET WITH ANTI TILT SHELF SUPPORT 720 |
| APF11100 | STAINLESS STEEL DRAWER 520 |
| APF11110 | STAINLESS STEEL DRAWER 720 |
| APF11950 | WIRE DRAWER 520 |
| APF11960 | WIRE DRAWER 720 |
| APF11200 | BLOOD BASKET (6140 mm X 460 mm X 175 mm) |
| APF13800 | CASTORS 100 mm 4 PCS (2 LOCKABLE) |
| APF16012 | HEAT TREATED WOOD PACKING EXTRA COST |
| | Standard packing suitable for containerised shipment |



ABLOY LOCK



iLOQ S10



SS PANEL SHELF



WIRE SHELF POWDER PAINT COATING



SS WIRE SHELF

The capacity of the cabinets is declared according to the European standard of refrigeration equipment ISO 23953. The Net storage capacity according to ISO 23953 is detailed first and secondly the Gross capacity which is also measured according to ISO 23953. The ambient temperature must not exceed +32°C or fall below +5°C.

# PORKKA

# LAB Laboratory Refrigeration Equipment

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

## Features

- Digital temperature display with built-in microprocessor controller
- Real time clock with date and time display
- Controller with 3 password protections levels
- Visual and audible high/low temperature alarm
- Probe failure alarm
- Recording of alarms max./min. temperature with date and time
- Digital calibration for temperature probe
- Voltage free alarm contact for connection to a Building Management System
- TTL-Mod Bus communication port (RS 485 with optional converter)
- Exterior finish in white polyester-coated sheet steel, interior finish in stainless steel AISI 304
- Insulation with high density CFC/HCFC free polyurethane
- Stainless steel plate shelves
- Door equipped with lock and magnetic gasket, standard lock: Abloy CL104 or CL103
- Efficient and energy saving, hermetic air cooled CFC/HCFC refrigeration system
- Spark proof interior

## Optional features

- Extra shelves as required for LAB 300
- Door open alarm
- Real-time temperature data logging with download to USB facility
- Low temperature protection
- Electronic locking solution with access notification of whom has opened the cabinet plus time and date
- 8 mm sleeved access port for remote monitoring



**LAB 75 FREE STANDING**



**LAB 300**

### LAB 75 (+2...+15 °C)

LAB 75, Wall mounting

LAB 75, Undertable

Exterior dimensions 595 x 480 + 25 x A mm (width x depth + handle x height A)

Free standing A = 900, Wall mounting and undertable A = 730

Interior dimensions 525 x 320 x 515 mm (width x depth x height)

Net / Gross volume 75 / 95 litres

Connection power 0,15 kW / 230 V / 50 Hz

### LAB 300 (+2...+15 °C)

Exterior dimensions 595 x 480 + 25 x 2000 mm (width x depth + handle x height)

Interior dimensions 495 x 360 x 780 + 780 mm (width x depth x height)

Net / Gross volume 95+95 / 137+137 litres

Connection power 0,22 kW / 230 V / 50 Hz

The capacity of the cabinets is declared according to the European standard of refrigeration equipment ISO 23953. The Net storage capacity according to ISO 23953 is detailed first and secondly the Gross capacity which is also measured according to ISO 23953.

The ambient temperature must not exceed +32°C or fall below +5°C.

# Accessories: LAB Laboratory Refrigeration Equipment

| | |
|---|---|
| APC12000 | PA92 ALARM CONNECTION BOX |
| APC12030 | RJ45 ALARM CONNECTION CABLE |
| APC12300 | EARTH CABLE |
| APC13005 | (P4) PT100 PROBE |
| APC13004 | 8 MM SLEEVED ACCESS PORT FOR REMOTE MONITORING |
| APM21010 | DOOR OPEN ALARM |
| APC11000 | TEMPERATURE RECORDER XDL01-PWR |
| APM21210 | ASSA LOCK (LAB 75. 300) |
| APM21220 | RUKO LOCK (LAB 75, 300) |
| APM20600 | iLOQ S10 ELECTRONIC LOCKING SOLUTION + 1 KEY |
| APM20605 | S10 ADDITIONAL KEY |
| APM20414 | SHELF LAB 300 |
| APC13010 | LOW TEMPERATURE PROTECTION |
| | |
| | HEAT TREATED WOOD PACKING EXTRA COST: |
| | LAB 75* |
| | LAB 300* |
| | *Standard packing suitable for containerised shipment |


ASSA, RUKO LOCK


TEMPERATURE RECORDER


ILOQ S10


SHELF LAB 300

## Temperature recorder XDL01-PWR

XDL is a temperature recorder for independent monitoring. Temperature of the air or of a product is saved to a USB memory stick in .txt form and the data recorded is read by computer in Excel form.

# RC RF Laboratory Refrigeration Equipment

Designed and manufactured for the exacting standards of Biological, Pharmaceutical, Life Sciences and Laboratories. Porkka research chillers (RC) and research freezers (RF) come with 4 pcs full-size stainless steel plate shelves, adjustable in increments of 30 mm as standard interior. For optional interior and exterior please see accessory list for details.

## Features

- New Porkka controller
- Easy to use
- Large display
- Supports multiple languages
- Display temperature accuracy down to 0,1ºC
- Real-time temperature data logging with possibility to download to USB (recommended USB flash drive max 4 GB)

## Safety functions

- Intelligent self-monitoring system
- Separate control temperature probe (P4), which corresponds with the stored product temperature
- High temperature protection during defrost period
- Low temperature protection (Not for freezers)
- Visual and audible high/low temperature alarm
- Door open alarm
- Probe failure alarm
- Temperature Accuracy ±1ºC, tested according to EN16825
- Voltage free alarm contact for connection to a Building Management System

## Cabinet features

- Extra-thick energy efficient and environmentally friendly (HFC free polyurethane) insulation material.
- Self-closing door
- Exterior finish in white polyester-coated sheet steel, interior finish in stainless steel grade AISI 304.
- Door equipped with lock, magnetic gasket, heavy duty hinges with 90° dwell open
- Digital recalibration for temperature probe with 0,1ºC accuracy

## Optional features

- Extra shelves
- Drawers
- Wire baskets
- Castors
- Access ports
- Locking solutions
- Battery Back up
- Huurre iTOP – Smart iTOP monitoring and control service

**RC 520**

## RC 520 (+2...+40 °C)

Exterior dimensions 600 x 700 x 2030 mm (width x depth x height)

Interior dimensions 480 x 560 x 1310mm (width x depth x height)

Net / Gross volume 287 / 410 litres

Connection power 0,45 kW / 230 V / 50 Hz

## RF 520 (-10...-30 °C)

Exterior dimensions 600 x 700 x 2030 mm (width x depth x height)

Interior dimensions 480 x 560 x 1310 mm (width x depth x height)

Net / Gross volume 287 / 410 litres

Connection power 0,73 kW / 230 V / 50 Hz

## RC 720 (+2...+40 °C)

Exterior dimensions 850 x 700 x 2030 mm (width x depth x height)

Interior dimensions 730 x 560 x 1310 mm (width x depth x height)

Net / Gross volume 464 / 595 litres

Connection power 0,45 kW / 230 V / 50 Hz

## RF 720 (-10...-30 °C)

Exterior dimensions 850 x 700 x 2030 mm (width x depth x height)

Interior dimensions 730 x 560 x 1310 mm (width x depth x height)

Net / Gross volume 464 / 595 litres

Connection power 0,74 kW / 230 V / 50 Hz

**RC 720**

The capacity of the cabinets is declared according to the European standard of refrigeration equipment ISO 23953. The Net storage capacity according to ISO 23953 is detailed first and secondly the Gross capacity which is also measured according to ISO 23953.

The ambient temperature must not exceed +32°C or fall below +5°C.

# Accessories: RC RF Laboratory Refrigeration Equipment

| | |
|---|---|
| APC12000 | PA92 ALARM CONNECTION BOX |
| APC12030 | RJ45 ALARM CONNECTION CABLE |
| APC12300 | EARTH CABLE |
| APC13005 | (P4) PT100 PROBE |
| APC13004 | 8MM SLEEVED ACCESS PORT FOR REMOTE MONITORING |
| APC13003 | ADDITIONAL NTC PROBE T4 (PRODUCT PROBE) |
| APC11010 | BATTERY BACKAUP FOR REALATIME TEMPERATURE  DATA LOGGING |
| | |
| APF12000 | ABLOY LOCK CL104 |
| APF12010 | iLOQ S10 ELECTRONIC LOCKING SOLUTION + 1 KEY |
| APM20605 | S10 ADDITIONAL KEY |
| APF10310 | SS PANEL SHELF WITH ANTI TILT SHELF SUPPORT 520 |
| APF10610 | WIRE SHELF WITH ANTI TILT SHELF SUPPORT 520 POWDER COATED |
| | |
| APF10640 | SS WIRE SHELF WITH ANTI TILT SHELF SUPPORT 520 |
| APF10410 | SS PANEL SHELF WITH ANTI TILT SHELF SUPPORT 720 |
| APF10710 | WIRE SHELF WITH ANTI TILT SHELF SUPPORT 720 POWDER COATED |
| | |
| APF10740 | SS WIRE SHELF WITH ANTI TILT SHELF SUPPORT 720 |
| APF10910 | WIRE BASKET WITH ANTI TILT SHELF SUPPORT 520 |
| APF10960 | WIRE BASKET WITH ANTI TILT SHELF SUPPORT 720 |
| APF11100 | STAINLESS STEEL DRAWER 520 |
| APF11110 | STAINLESS STEEL DRAWER 720 |
| APF11950 | WIRE DRAWER 520 |
| APF11960 | WIRE DRAWER 720 |
| APF13800 | CASTORS 100 MM 4 PCS (2 LOCKABLE) |
| APF12600 | PERSPEX INNER STABLE DOORS 520 |
| APF12700 | PERSPEX INNER STABLE DOORS 720 |
| APF16012 | HEAT TREATED WOOD PACKING EXTRA COST |
| | |


ABLOY LOCK


iLOQ S10


SS PANEL SHELF


WIRE SHELF POWDER PAINT COATING


SS WIRE SHELF


STAINLESS STEEL DRAWER

# KD3  Porkka Ice Cube Dispenser

The Porkka KD 3 Ice Dispenser, in line with all Porkka Ice machines offers reliability, durability and dependability all as standard. Porkka have incorporated a totally hygienic dispensing system which is both user friendly and designed to allow for ease of routine cleaning and house maintenance. The Porkka KD 3 delivers hygiene as standard.

## Features

- Spray system producing crystal clear, hygienic compact ice
- All parts can be easily cleaned
- AISI 304 stainless steel bodywork
- Water or air cooled condensing units (boxed in)
- Water dispenser available upon request
- Air cooled front ventilation for boxing in available upon request
- Ideal ratio between production and bin capacity
- Automatic production cycle
- Low water and power consumption
- Compact size
- Automatic Defrosting with water and hot gas
- Easy access to components
- R404A refrigerant

| Technical Specification | Air (A) | Water (W) |
|---|---|---|
| Production | | |
| Kg per 24hrs | 30 | 31 |
| Lbs per 24hrs | 66 | 68 |
| Bin Capacity Kg | 13 | 13 |
| Lbs | 28 | 28 |
| Production of ice cubes (quantity per 24hrs) | 1666 | 1722 |
| Bin capacity of ice cubes (quantity) | 722 | 722 |
| Power (T=43OC)-W | 420 | 420 |
| Nett weight Kg | 46 | 46 |
| Gross weight Kg | 49 | 49 |
| Volume packing m3 | 0.20 | 0.20 |
| Refrigerant | R404A | R404A |
| Standard voltage | 230v/50Hz/1 | 230v/50Hz/1 |

v.102017

# KL Cube Ice Machines

Cube ice can be used to improve patient comfort on wards and especially in the area of immunosuppressed clients where a cool drink is greatly appreciated.

Porkka offer a comprehensive range from counter top to under bench models. Each machine is supplied with a high quality stainless body work AISI grade 304. They are easy to sanitise and fully automatic in operation.

## Features

- Stainless steel bodywork AISI 304 with one piece insulated storage bin
- Spray system (KL)
  Belt system (KF)
- Automatic production cycle (KL)
  Electronic controlled production (KF)
- Built-in cleaning system (KL)
- Low power and water consumption
- Crystal clear, hygienic and compact ice cubes with the size of ø 27x32 mm (kl)
- Hygienic and dry flake ice with a temperature of -0,5 °C
- Production rates are based on water entering the ice machine at +10°C and air on condenser at +10°C

# KL Cube Ice Machines

## KL 22

Air cooled, production 24 Kg / 24 h

Water cooled, production 25 Kg / 24 h

Exterior dimensions 345 x 460 x 588 + 25 mm (width x depth x height + feet)

Bin storage 6,5 kg

Connection power 0,35 kW / 230 V / 50 Hz

Gross weight 32 Kg

## KL 32

Air cooled, production 30 Kg / 24 h

Water cooled, production 31 Kg / 24 h

Exterior dimensions 417 x 531 x 654 + 25 mm (width x depth x height + feet)

Bin storage 11 kg

Connection power 0,42 kW / 230 V / 50 Hz

Gross weight 43 Kg

## KL 42

Air cooled, production 40 Kg / 24 h

Water cooled, production 42 Kg / 24 h

Exterior dimensions 495 x 573 x 705 + 140 mm (width x depth x height + feet)

Bin storage 11 kg

Connection power 0,46 kW / 230 V / 50 Hz

Gross weight 59 Kg

**KL 22**          **KL 32**          **KL 42**

v.102017

# PORKKA

# KF Flake Ice Machines

Flake ice can be used in many areas both in laboratories and medical institutions from physiotherapy to instrument calibration or transportation of donated organs. The ice remains free flowing, even during long storage periods.

We offer a comprehensive range from counter top to under bench models. Each machine is supplied with a high quality stainless body work AISI grade 304. They are easy to sanitise and fully automatic in operation.

## Features

- Stainless steel bodywork AISI 304 with one piece insulated storage bin
- Spray system (KL)
  Belt system (KF)
- Automatic production cycle (KL)
  Electronic controlled production (KF)
- Built-in cleaning system (KL)
- Low power and water consumption
- Crystal clear, hygienic and compact ice cubes with the size of ø 27x32 mm (kl)
- Hygienic and dry flake ice with a temperature of -0,5 °C
- Production rates are based on water entering the ice machine at +10°C and air on condenser at +10°C.

# KF Flake Ice Machines

### KF 45

Air cooled, production 40 Kg / 24 h

Water cooled, production 42 Kg / 24 h

Exterior dimensions 345 x 520 x 610 + 25 mm (width x depth x height + feet)

Bin storage 10 kg

Connection power 0,41 kW / 230 V / 50 Hz

Gross weight 41 Kg

### KF 85

Air cooled, production 80 Kg / 24 h

Water cooled, production 83 Kg / 24 h

Exterior dimensions 485 x 586 x 720 + 140 mm (width x depth x height + feet)

Bin storage 25 kg

Connection power 0,52 kW / 230 V / 50 Hz

Gross weight 62 Kg

### KF 145

Air cooled, production 135 Kg / 24 h

Water cooled, production 141 Kg / 24 h

Exterior dimensions 680 x 588 x 890 + 140 mm (width x depth x height + feet)

Bin storage 42 kg

Connection power 0,59 kW / 230 V / 50 Hz

Gross weight 72 Kg



**KF 45**  **KF 85**  **KF 145**

# PORKKA

# CT Chromatography Refrigerators

Designed to accept a wide range of gas chromatography/mass spectrometry equipment, as well as samples and a multitude of other items, in a clean temperature controlled environment.

## Features

- Digital temperature display with built-in microprocessor controller
- Keyboard tamper protection
- Recording of max./min. temperature
- Visual and audible high/low temperature alarm
- Door open alarm
- Probe failure alarm
- Digital calibration for temperature probe
- Voltage free alarm contact for connection to a Building Management System
- TTL-Mod Bus communication port (RS 485 with optional converter)
- Low temperature protection
- 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
- 3 pcs full-size stainless steel plate shelves, adjustable in increments of 30 mm
- Glass door, equipped with central lock, magnetic gasket, heavy duty spring hinges and LED light with switch
- Internal electrical power out-let within cabinet to IP66 rating
- Two 50mm sleeved access ports
- Efficient and energy saving, hermetic air cooled CFC/HCFC refrigeration system

## Optional features

- Extra shelves as required
- Castors in lieu of legs
- 25 mm access ports
- 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


R290 REFRIGERANT



CT 722

CT 1422

### CT 722 GD (+2...+12 °C)

Exterior dimensions 730 x 800 x 2030 mm (width x depth x height)

Interior dimensions 610 x 660 x 1430 mm (width x depth x height)

Net / Gross volume 453 / 615 litres

Connection power 0,37 kW / 230 V / 50 Hz

Maximum Equipment Heat Load Input 0,3 kW

### CT 1422 GD (+2...+12 °C)

Exterior dimensions 1460 x 800 x 2030 mm (width x depth x height)

Interior dimensions (2x) 610 x 660 x 1430 mm (width x depth x height)

Net / Gross volume 906 / 1300 litres

Connection power 1,38 kW / 230 V / 50 Hz

Maximum Equipment Heat Load Input 1 kW

The capacity of the cabinets is declared according to the European standard of refrigeration equipment ISO 23953. The Net storage capacity according to ISO 23953 is detailed first and secondly the Gross capacity which is also measured according to ISO 23953.

The ambient temperature must not exceed +32°C or fall below +5°C.

# CT Chromatography Refrigerators

| | |
|---|---|
| APC12000 | PA92 ALARM CONNECTION BOX |
| APC12030 | RJ45 ALARM CONNECTION CABLE |
| APC12300 | EARTH CABLE |
| APC13005 | (P4) PT100 PROBE |
| APC13004 | 8MM SLEEVED ACCESS PORT FOR REMOTE MONITORING |
| APF12000 | ABLOY LOCK CL104 |
| APF12010 | iLOQ S10 ELECTRONIC LOCKING SOLUTION + 1 KEY |
| APM20605 | S10 ADDITIONAL KEY |
| APF10510 | SS PANEL SHELF WITH ANTI TILT SHELF SUPPORT 722, 1422 |
| APF10810 | WIRE SHELF WITH ANTI TILT SHELF SUPPORT 722, 1422 POWDER PAINT COATING |
| | |
| APF10840 | SS WIRE SHELF WITH ANTI TILT SHELF SUPPORT 722, 1422 |
| APF11010 | WIRE BASKET WITH ANTI TILT SHELF SUPPORT 722, 1422 |
| APF11120 | STAINLESS STEEL DRAWER 722, 1422 |
| APF11970 | WIRE DRAWER 722, 1422 |
| APF13800 | CASTORS 100 4 PCS (2 LOCKABLE) |
| APF13900 | CASTORS 100 5 PCS (2 LOCKABLE) |

**EXTRA POWER OUTLET WITHIN CABINET**

| | |
|---|---|
| | WIRE BASKET WITH ANTI TILT SHELF SUPPORT 722, 1422 |
| APC15140 | SINGLE SOCKET IP66 EU |
| APC15130 | DUAL SOCKET IP66 UK |
| APF16012 | HEAT TREATED WOOD PACKING EXTRA COST |
| | Standard packing suitable for containerised shipment |
| | |
| | |

If other type of shelving or if wire baskets are required, or if more than 4 levels are required, either add extra shelves or baskets, or deduct (standard 4 x stainless steel panel shelves with anti tilt supports and add prices of selected equipment above) i.e. 4 x SS panel shelves and add 4 x wire basket shelves with anti tilt supports


ABLOY LOCK


iLOQ S10


SS PANEL SHELF


WIRE SHELF POWDER PAINT COATING


SS WIRE SHELF

# Porkka Vaccine Storage

## Qualified with WHO's PQS (Performance Quality Safety) status

The WHO Performance, Quality and Safety (PQS) process prequalifies products and devices so that its member states and UN purchasing agencies are assured of their suitability for use in immunization programs.

### Five WI-models designed for vaccine storage

The PORKKA Vaccine cold room is suitable to freeze or refrigerate vaccine articles for medical service, scientific research, agricultural, biological and chemical industries to name a few.

Vaccine storage room's interior temperature can be controlled respectively within the range of +2˚~ +8˚C or -15˚~-25˚C. PORKKA Vaccine Storage refrigerated rooms size range is 10m$^3$, 30 or 40 m$^3$. Standard freezer room's size is 20m$^3$ and combined room's size total 40m$^3$.





## Features

- Dual refrigeration system
- Air cooled units, plug-in or split type
- Complete delivery for full site installation
- Cold room operating temperature +4˚ C (max. ambient temperature +43˚ C)
- Freezer room operating temperature –20˚ C (max. ambient temperature +43˚ C)
- Insulation material: 100mm (optionally 150mm) thick, CFC free polyurethane, foamed in place to a density of 40 kg/cbm K-value 0.23 W/m2 K
- Surfaces: hot-dipped galvanized steel sheet, with a white polyester coating. The floor clad with non-slip material.
- Heavy-duty doors: 800 mm wide, 2000 mm high.
- Fully adjustable shelving system, hygienic plastic slatted shelves supplied in 5 levels, 490 mm deep.
- Tungsten lighting, external switch complete with pilot lamp
- Refrigerant: CFC-free R404a
- Dial thermometer
- 7 day wall mounted pen recording thermometer
- Plastic strip curtain in the doorway



## Options

- Extra shelves
- Spareparts package (2 years)
- 150 mm insulation material
- Stainless steel panel and door surfaces

| Type | Cold room | Freezer room | Cold room | Cold room | Combined |
|---|---|---|---|---|---|
| **ENCLOSURE CONSTRUCTION OPTIONS** | | | | | |
| Model | WIC 10 | WIF 20 | WIC 30 | WIC 40 | WIC/WIF 40 |
| Capazity (m³) | 10 m³ | 20 m³ | 30 m³ | 40 m³ | 40 m3 (25 m³ cold room, 15 m³ freezer) |
| Dimensions (W x D x H mm) | 2700 x 2100 x2300 | 3750 x 3000 x 2300 | 4500 x 3600 x 2300 | 4700 x 3750 x 2300 | 7350 x 3000 x 2300 |
| Wall & ceiling panel finish | Polyester coated steel | Polyester coated steel | Polyester coated steel | Polyester coated steel | Polyester coated steel |
| Panel insulation material | Polyurethane high density of 40kg/cbm | Polyurethane high density of 40kg/cbm | Polyurethane high density of 40kg/cbm | Polyurethane high density of 40kg/cbm | Polyurethane high density of 40kg/cbm |
| U-value (W/m²K) | 0.23 | 0.23 | 0.23 | 0.23 | 0.23 |
| Panel insulation thickness options (mm) | 100 mm (stardard), 150 (optional) | 100 mm (stardard), 150 (optional) | 100 mm (stardard), 150 (optional) | 100 mm (stardard), 150 (optional) | 100 mm (stardard), 150 (optional) |
| Panel connection system | Cam-lock | Cam-lock | Cam-lock | Cam-lock | Cam-lock |
| Floor panel finish | Glassfiber re-enforced anti-slip plywood | Glassfiber re-enforced anti-slip plywood | Glassfiber re-enforced anti-slip plywood | Glassfiber re-enforced anti-slip plywood | Glassfiber re-enforced anti-slip plywood |
| Shelve mounting | Wall | Wall | Wall / Self-standing | Wall / Self-standing | Wall |
| Shelving system | Fully adjustable | Fully adjustable | Fully adjustable | Fully adjustable | Fully adjustable |
| Shelving material | Hygienic plastic | Hygienic plastic | Hygienic plastic | Hygienic plastic | Hygienic plastic |
| Door opening (W x H mm) | 800 x 2000 | 800 x 2000 | 800 x 2000 | 800 x 2000 | 800 x 2000 |
| Temperature zones | Hot/Temperate/Cold | Hot/Temperate/Cold | Hot/Temperate/Cold | Hot/Temperate/Cold | Hot/Temperate/Cold |
| **EQUIPMENT OPTIONS** | | | | | |
| Refrige. Units options | Monoblock / split | Monoblock / split | Monoblock / split | Monoblock / split | Monoblock / split |
| Duty sharing | Automatic / Manual changeover | Automatic / Manual changeover | Automatic / Manual changeover | Automatic / Manual changeover | Automatic / Manual changeover |
| Plume guard | Yes | Yes | Yes | Yes | Yes |
| Door frame heater | No | Yes | No | No | Yes |
| Pressure relief valve | Yes | Yes | Yes | Yes | Yes |
| Refrigerant | CFC-free R404a | CFC-free R404a | CFC-free R404a | CFC-free R404a | CFC-free R404a |
| Cold climate protection | Yes | Yes | Yes | Yes | Yes |
| Auto-defrost | Yes | Yes | Yes | Yes | Yes |
| Strip curtain | Yes | Yes | Yes | Yes | Yes |
| Surge protection | Yes | Yes | Yes | Yes | Yes |
| **COOLING UNITS DETAILS** | | | | | |
| Internal Temp. Range (°C) | +2…+8 | -15…-25 | +2…+8 | +2…+8 | +2…+8 /-15… -25 |
| Ambient temp. (°C) | Max. +43 | Max. +43 | Max. +43 | Max. +43 | Max. +43 |
| Power Supply | 220V, 50Hz | 220/380V, 50Hz | 220/380V, 50Hz | 220/380V, 50Hz | 220/380V, 50Hz |
| Power (W) | 1210 | 1460 | 1510 | 1990 | 1460 + 1460 |
| Refrigeranting Output (W) | 1789 | 1230 | 2678 | 3452 | 2181 + 1327 |
| Max. Input Current (A) | 7,8 | 9,3 | 5,9 | 7,1 | 9,7 + 8,3 |
| Temperature recording | 7 day pen recorder | 7 day pen recorder | 7 day pen recorder | 7 day pen recorder | 7 day pen recorder |
| Alarm system | Yes | Yes | Yes | Yes | Yes |
| **STANDARDS, SERVICE AND WARRANTY** | | | | | |
| Quality standard | ISO 9001 / ISO 14001 | ISO 9001 / ISO 14001 | ISO 9001 / ISO 14001 | ISO 9001 / ISO 14001 | ISO 9001 / ISO 14001 |
| PQS code | WHO/PQS E001/001 | WHO/PQS E001/001 | WHO/PQS E001/001 | WHO/PQS E001/001 | WHO/PQS E001/001 |
| Warranty | 1 year | 1 year | 1 year | 1 year | 1 year |
| Installation and maintenance service | Advisory service | Advisory service | Advisory service | Advisory service | Advisory service |
| Country of origin | Finland | Finland | Finland | Finland | Finland |

v.102017

**PORKKA**

# MCR Porkka Modular Cold and Freezer Room

Porkka has sold thousands of cold storage rooms all over the world. Their popularity is based on the ease of installation and functionality. Our Step-in Rooms made from high-quality materials combine low energy consumption and quiet operation.

Porkka cold and freezer rooms have been designed to comply with the most stringent hygiene requirements and are for professional use.





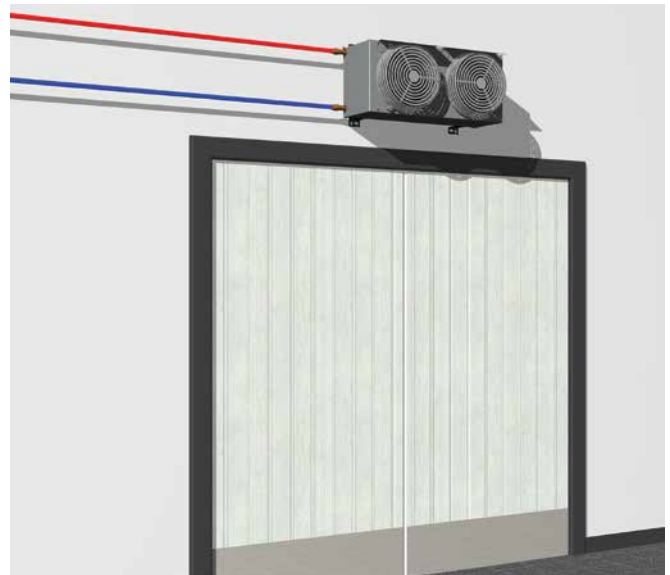## MCR Modular Step-In Cold and Freezer Rooms

The rooms are simple and easy to install, and use. All rooms are equipped with self-monitoring capability as standard interface. Porkka offers a wide range of modular room sizes, selectable in different temperature ranges and sizes from 1.2 m$^3$ to 22 m$^3$.

### Three temperature ranges:

C | +2 … + 8 °C
M | -2 …. + 5 °C
F | -18 …- 22 °C

## Porkka Remote Heat Disposal System (RHDS)

When placing modular rooms within a building, lack of ventilation can cause heat to build up and increase running costs.

The RHDS is an easy and inexpensive method of transferring waste heat produced by the refrigeration systems to either an external area or an area where the warm air could be utilised.

# UCR Porkka Universal Cold and Freezer Room

UCR Cold and Freezer rooms are customized according to the customer's needs. The shape of the room, the location of the door(s), partition walls (if needed) and the location of the cooling unit(s) are designed to suit your needs. With a partition wall and two different cooling units, a combined cold and freezer room is also possible.

**Carefully planned materials and details**

UCR rooms are constructed of modular panels with male/female joints, which are mounted by eccentric action cam locks giving them all-round strength. The visible exterior surfaces of the panels are hot zinc-coated and rustproof polyester-coated steel, which is classified as food safe. Stainless steel surfaces are also available. The CFC/HCFC-free polyurethane insulation is 80mm, 100mm or 150mm thick. The UCR room door supplies include hinged or sliding doors for chiller and freezer rooms.

Double leaf doors are also available on request. The insulated floors have a strong marine plywood surface coated with non-slip glass fiber resin. The load limit for a standard floor is max. 40 KN/m2 or max 1.0 KN/40 mm castor. A heavy duty floor with stainless steel surface is available on request. Individual shelves of the hygienic shelving system can be washed in a commercial dishwasher. The shelves' dimensions allow the maximum storage space available. Our chiller and freezer room assortment offers a wide variety of choices for diverse needs.

## Three temperature ranges:

**C** +2 to +12°C

**M** −2 to +5°C

**F** −18 to −22°C.

Set point temperature is the warmest storage temperature: the unit starts to run and goes 2 degrees colder than the set point and starts again when the set point temperature has been reached.

• Insulation options of 80mm, 100mm or 150mm.
• Select floorless chill rooms for trolley operation. (Chill temperature only.)
• Medium and freezer rooms must be supplied with a floor which can be either recessed or with a ramp if a trolley is required.
• A cooling unit integrated in the wall panel (width 900 mm) can be placed on any side of the room.

| Cooling unit | C1240 | M1240 | F1540 |
|---|---|---|---|
| Temperature range | +2°C … +12°C | -2°C … + 5°C | -22°C … -18°C |
| Volume | < 22 m³ | < 22 m³ | < 22 m³ |
| Connection power (plug-in) | 1,07 kW | 1,62 kW | 2,19 kW (2,27 kW) |
| Connection power CC 0, | 39 kW | 1,83 kW | 1,83 kW |
| Connection power H2O * | 0,99 kW | 1,54 kW | 2,08 kW (2,16 kW) |
| Connection power RHDS®* | 1,13 kW | 1,68 kW | 2,27 kW (2,35 kW) |
| Fuse | 1 x 10 A | 1 x 10 A | 3 x 10 A |
| Voltage (220V 3-ph N) | 230 V / 50 Hz | 230 V / 50 Hz | 400V/50Hz 3-Ph |
| Cooling effect( CC ) | 1 900 W | 1 800 W | 2 025 W |
| Evaporating temperature ( CC ) | -8°C | -10°C | -28°C |
| Ambient temperature | +5°C … +32°C | +5°C … +32°C | +5°C … +32°C |
| Refrigerant | R 404a | R 404a | R 404a |
| Level of sound pressure 1m / 1,5 m ( dB re 20 µPa ) | 53 dB ( A ) 53 dB ( A ) | 59 dB ( A ) | |
| Level of sound pressure RHDS® 1m / 1,5 m ( dB re 20 µPa ) | 49 dB ( A ) | 49 dB ( A ) | 55 dB ( A ) |
| RHDS® liquid condenser | RHDS® 2160 | RHDS® 2160 | 2 x RHDS® 2140 |
| Fluid condenser acoustic pressure at location 10m ( dB re 20 µPa ) | 34 dB ( A ) | 34 dB ( A ) | 37 dB ( A ) |
| Permitted temperature range at fluid condenser location | -40°C … +35°C | -40°C … +35°C | -40°C … +35° |

v.102017

# PORKKA

# Clean rooms

Porkka have strong expertise in the design and manufacture of pharmaceutical and electronics cleanrooms. Porkka is also internationally recognised as designers and manufactures of cold rooms with dedicated refrigeration. Porkka rooms have the option of hinged or sliding doors as well as fire-safe doors for the ship industry and ramped entries for the food industry.

A clean room functions so that the air pressure is greater in the clean room than in its surroundings. With this approach, non-cleaned air cannot flow from adjacent rooms into the clean room. Clean room technology aims to control the number of organic and inorganic particles, air temperature, moisture, and pressure difference with the surrounding rooms.
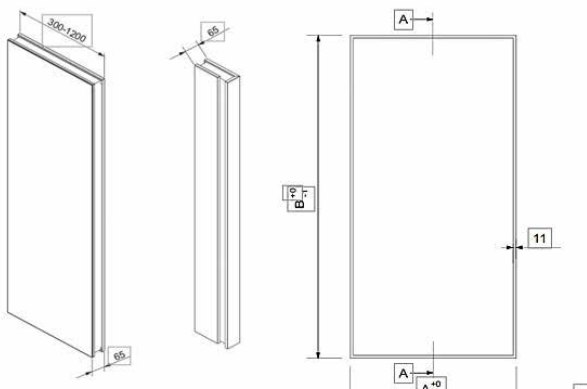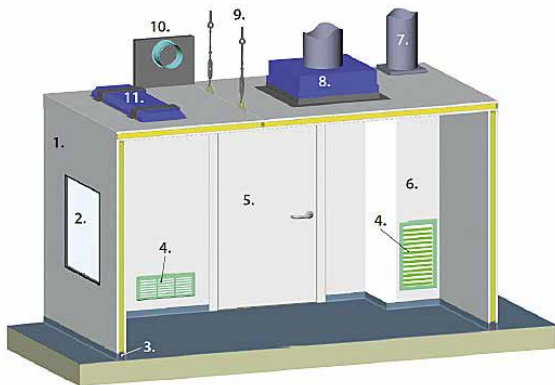


## Clean Rooms are widely applied across many industries:

• Pharmaceutical
• Electronics
• Biotechnology and Bioindustry
• Space technology
• Food industry
• Companies and industries requiring particle-free clean rooms for product development, for the product itself, or during the manufacturing stage.

## Clean room elements

Clean room panels CFC insulation is foamed in the mold and is HCF-free, currently the most environmentally friendly polyurethane. The density is approx. 40 kg / m3. The panel surface is 0.6 mm hot dip galvanized or stainless steel sheet. Hot-dip plating surface plates approved food polyester, which is anti-static. If required, the surface sheet can be coated with semi-conductive polyester. The stainless steel quality options are either AISI 304 2B or 4N (milled). Panel standard thickness is 65 mm. Standard panels are 1200 mm maximun width x 6000 mm maximum length.

## Clean room doors

Clean room doors are made of the same materials as the clean room elements and are 65 mm deep. Clean room doors are manufactured to the customer needs, taking into account the 100 mm modular spacing.

# Porkka Doors for rooms / manufacturing facilities and industries

### Model M | Cold and freezer rooms, catering kitchens and stores

M-doors are designed for daily use and are a quality conscious professional choice

Cold room door KHO ®-M – temperature +0…+60 °C

Freezer-room door PHO®-M – temperature -25…-0 °C

Cold room double door KHPO®-M – temperature +0…+60 °C

### Model S | Cold and freezer rooms, manufacturing facilities, stores

S01 and S02 doors have been designed to work in demanding conditions.

Cold room door KHO®-S01 – temperature +0…+60 °C
Freezer room door PHO®-S01 – temperature -40…-0 °C
Cold room double door KHPO®-S02 – temperature +0…+60 °C
Freeze room double door PHPO®-S02 – temperature -30…-0 °C

### Model SD | Sliding doors
### Cold and Freezer Rooms, Manufacturing Facilities, Stores

Top quality hygiene and functionality – Environmentally friendly solution

Cold / freezer room door, light duty  – temp. -25…+60 °C
Cold / freezer room door, heavy duty – temp. -50…+60 °C

### Model T | Industrial non-refrigerated Processing and Auxiliary facilities, Food Industry

T1 and T2 –doors are designed for facilities where high hygienic and corrosion resistant
 PROBErties are required.

Cold room door KHO®-S01 – temperature +0…+60 °C
Freezer room door PHO®-S01 – temperature -40…-0 °C
Cold room double door KHPO®-S02 – temperature +0…+60 °C
Freeze room double door PHPO®-S02 – temperature -30…-0 °C

# HACCP (EN 12830 compatible)
## Temperature data monitoring, recording and alarms

The control unit includes the following HACCP PROB-Erties  (Hazard Analysis and Critical Control Point):

- Visual and audible alarm
- Built-in automatic recording of minimum/maximum temperature
- Adjustable high/low temperature alarm limits and delays
- Easy-to-use button lock to prevent accidental use of buttons
- Data connection readiness for computer-aided remote monitoring, control and alarm operations

## XDL01-PWR, refrigerator-specific temperature data recording system.

- Digital display
- Real-time clock and calendar
- Memory size 32K

(XDL01 continues)
- Memory recording at 15-minute intervals is sufficient for approximately one year; recording interval can be adjusted as needed
- Temperature data is transferred to the computer by means of a USB port/memory stick in about 15 seconds
- Data can be processed by computer, for example, using the  Excel spreadsheet application

## 24-hour battery back-up with voltage loss alarm, available as an accessory for the XDL01-PWR system

- XLD01+XJDL40D+ BAT+ALM

# iLOQ S10 electronic locking solution

## S10 - electronic locking solution for access control of high security locations such as commercial and office buildings

- System is managed via the Internet. Reprogramming of the cylinder lock and keys is made by the iLOQ Programmer
- Locking solution consists of cylinder lock, battery free keys

## The principle of operation

- iLOQ is the world's first electronic locking system with cylinder lock powered when a key is inserted
- Lock identifies keys securely using strong encryption SHA-1 (264 = 1,8 x 1019)
- Lock checks access authorization of the key
- Lock opens, if key is authorized
- Locks automatically when key is removed

## Intelligence key

- Battery free electronic key
- Manufactured from stainless steel the keys are robust and durable and can operate in temperatures down to -40 °

## Key Programming:
- Access rights are programmed in the key - no reprogramming of the lock is required
- Access rights are quickly and easily removed

## Completely self-powered by insertion motion of the key

- Standard sized, easy installation in existing lock cases
- Meets prEN15684/EN1303 requirements

## Accessories for cylinder

### Clock function (S10 solution):

- Key validity time and days in week calendar
- Time stamp on audit trail

## Optional iLOQ N001 network connection:

- Networked access right definition

# Huurre iTOP™ temperature data logging and control system

Huurre iTOP is an ideal solution for business-critical condition monitoring in laboratories and pharmaceutical industry. Easy to implement, scalable and remote-controlled, the service ensures that pharmaceuticals and samples are under reliable and safe monitoring around the clock.

Huurre iTOP records and backs up measurement data automatically and securely. The easy and clear user interface lets you monitor the condition of equipment using all terminal devices. You can also connect all of your equipment to the system,regardless of the manufacturer. The Huurre iTOP service has been approved as part of customers' quality assurance processes.

*"Ensure that valuable pharmaceuticals and samples are not spoiled due to the wrong conditions."*

## Benefits:

+ Saves time – Monitors, reacts and reports on your behalf.
+ Saves costs – Minimises loss, decreases manual recording and unnecessary service visits.
+ Saves energy – Benefits the economy and environment.
+ Gives peace of mind – Facilitates equipment management and improves product and sample safety.

## HUURRE iTOP SERVICES AVAILABLE ACCORDING TO YOUR NEEDS:

+ Condition monitoring service
+ Remote control service
+ Alarm management service 24/7
+ Energy monitoring service
+ Door status data and usage monitoring and utilisation rate reporting
+ Fault and disturbance data of refrigeration equipment

You can also complement monitoring with many other solutions – ask for more information!

Porkka is an internationally recognised designer and manufacturer of professional refrigeration solutions. Key target industries include HoReCa, Medical and Research and Marine. Porkka's products are well known on its long life cycle, high quality and technical advantage.

Porkka is a brand of the Huurre Group. Porkka brand is well known for its quality and reliability throughout the word. The success of Porkka is based on decades of experience, customer focused design and continuous product development. The materials used in Porkka products are as recyclable and eco-friendly as possible. The recyclability of our product is more than 95%.

Porkka solutions are designed and manufactured according to a quality standard ISO 9001, controlled and certified by Lloyd's Register Quality Assurance. Porkka also hold the environmental certificate ISO 14001, issued also by LRQA. Huurre Group reserves the right to make any changes without prior notice.