

## **PIRLOCK™ | FLAME RETARDANT CAM LOCK PIR PANELS FOR COLD ROOMS AND DOORS**



### **WELCOME TO PORKKA INNOVATION**

Porkka products and the brand they represent are justifiably renowned worldwide for Quality, Value and Safety. As our world changes it is important that manufacturers recognise and strive to ensure that the products they supply reflect these changes as closely as possible. Since the advent of PIR flame retardant insulation foams for continuous panels some years ago Porkka has been determined to incorporate this technology into the panels used in its Modular Cold Rooms.

It is with pride that we now announce that Porkka has received CE certification for camlock PIR panels to standard EN14509 in 80mm, 100mm and 150mm thicknesses up to 5000mm lengths performing to B-s2, d0 and with reinforced construction B-s1, d0. Both solutions are supplied complete with Porkka Camlock PIRLOCK™ technology.

This new Porkka product was launched under the PIRLOCK™ trademark at Euroshop in Dusseldorf Germany February 16th to 20th 2020.

### **ABOUT PIR**

PIRLOCK™ flame resistant technology enhances fire safety in high personnel density environments such as Schools, Hospitals and Recreational facilities.

When Porkka PIRLOCK™ panels encounter an open flame a layer of carbon forms an oxygen resistant crust on any exposed insulation preventing it from igniting and vastly reducing the production of life-threatening fumes.

While continuous PIR panel technology is not new, it is cumbersome and difficult to use. Panels must be cut to length and glued together. Likewise, floor and roof must be constructed and glued and bracketed into position. PIRLOCK™ on the other hand, is produced with integrated camlock technology in all joints including roof and floor. On site assembly time for rooms is thus reduced from days to hours.

Porkka PIRLOCK™ Cold and Freezer rooms can now be supplied as room only for use with traditional split systems OR as complete rooms fitted with Porkka panel integrated refrigeration including the PORKKA glycol filled Remote Heat Disposal System (RHDS).

## **PIRLOCK™**

# **APPLICATIONS**

### **MCR: MODULAR PIR COLD ROOMS**

Porkka modular chiller and freezer solutions are built to the highest possible standards in our state-of-the-art factories. Utilising components and materials sourced from industry leading suppliers has led to Porkka products being recognised worldwide and best in class in terms of quality, reliability and energy efficiency.

Porkka MCR rooms and doors when combined with our modular refrigeration pods become a formidable solution for any kitchen where reliable temperature control is mission critical.

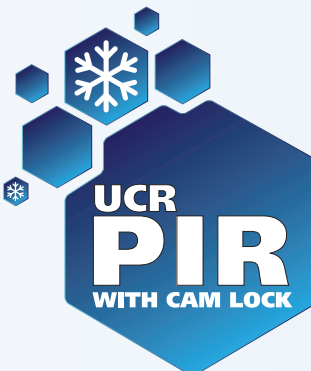
### **UCR: UNIVERSAL PIR COLD ROOMS**

Porkka Universal Cold Rooms are designed to meet the challenges experienced by your business. Porkka UCR can be customised to meet your specific needs in terms of shape, size and performance. The range of options available with Porkka is wide and includes sloped roof, traditional split system or multiple Porkka air-cooled or RHDS refrigeration pods, sliding or hinged doors, and three depth choices of PIR insulated walls, floor, and roof thicknesses, all incorporating Porkka Camlock "PIRLOCK™" technology.

In a food processing or retail environment a fully functional and reliable cold room solution is mission critical.

### **PORKKA PIR SLIDING AND HINGED DOORS**

Porkka manufactures a wide range of customisable hinged and sliding door solutions for both cold rooms and the wider construction industry. All Porkka door solutions, including our flagship SD7 range, are now available with PIR flame retardant insulation. This latest Porkka innovation enables Porkka to offer 100% PIR flame retardant solutions.





## MODULAR STEP-IN COLD AND FREEZER ROOMS



Manufactured from high quality materials and combining low energy consumption with quiet operation Porkka modular cold rooms are the ideal choice for the storage of perishable products.

Cooling units produced in our own factory have been designed to be both powerful and energy efficient.

This has been achieved by using R290 refrigerant, a natural hydrocarbon, it's high efficiency combined with a very low 'Global Warming Impact' (GWP 3) makes this new Porkka cooling unit the optimum choice.

Even more important are the massive energy savings. In tests we have achieved up to 33% reduction in electrical consumption. This will save users of Porkka modular cold and freezer rooms, vast amounts of operating costs, over the life cycle of the equipment.

A full range of rooms are also available with the traditional R452A refrigerant.



Porkka RHDS is easy to install and maintain. It utilises a glycol solution to remove heat from your integral condenser unit and move it to an external fan assisted cooling unit where it is released thus reducing the heat load on your ventilation and AC systems. This low noise solution is ideal for residential areas where the noise of a traditional system might be an issue.

## THE SOLUTION

Porkka MCR and UCR cold rooms provide a high quality, easy to use and versatile walk in solution for frozen, medium, and chilled food storage. Porkka cold rooms are designed and built to exacting standards to provide a safe, environmentally sound and cost-effective resource to any busy kitchen or retail store.

### Space requirements

Porkka MCR are designed to be built from the inside which allows them to utilise every centimetre of available space.

Low profile handles and condenser units help provide an extremely efficient solution that can eliminate waste space.

### Assembly site

All Porkka medium and low temperature rooms are supplied with floors as standard. Chill rooms can be supplied without a floor provided that the floor on which they are built is insulated, moisture resistant, and constructed of a non-slip material.

### Trolley access

Where trolley access is required Porkka cold rooms may be supplied with a ramp or, alternatively the insulated floor may be recessed.

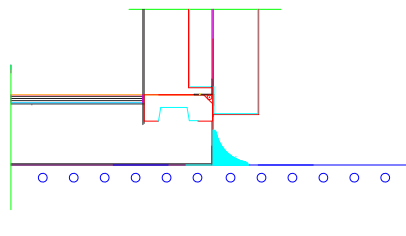
### Special requirements for low temperature storages

The insulated floors in Porkka freezer rooms have been designed to prevent ice build-up underneath the room and offer a unique solution that also protects from excess humidity.

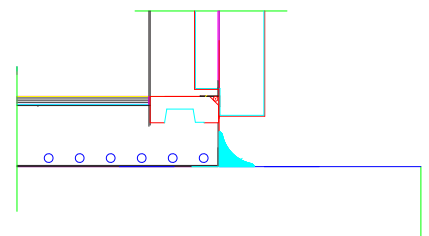
### Low temperature storage

Porkka recommend that under floor heaters are used in low temperature installations to avoid ice build-up below the floor which may cause damage or fall off in efficiency.

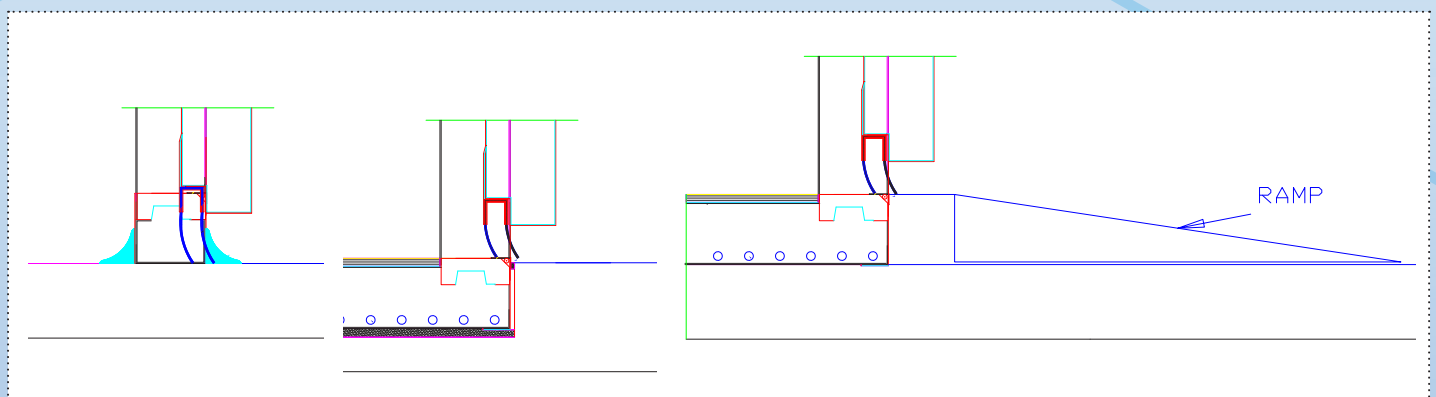
### Traditional vs. MCR floor heating



Traditional floor with heating allows ice build-up to proceed outside of the freezer room floor element creating possible moisture problems or excess energy consumption.



Porkka MCR floor with heating keeps the cold inside the floor element and doesn't allow any creation of moisture.



## GENERAL INFORMATION

Cooling units produced in our own factory have been designed to be both powerful and energy efficient. Digital temperature displays have built-in high/low alarms which are both audible and visual. These can be connected via a volt free relay to a building management system. The unit or units can be connected to Porkka iTOP™ temperature data logging and control system for more advanced monitoring.

### Carefully planned materials and details

Porkka rooms are produced from modular HFC/HFC-free polyurethane insulated panels which are moulded with male / female joints and held by eccentric action cam-locks, giving great all-round strength. The visible exterior surfaces of the panels are coated with durable scratch resistant polyester. Insulation thickness with excellent thermal efficiency is 80mm as standard with an option of 100mm, if required.

Doors are semi-rebated and supplied with heavy duty hinges and a lockable door handle with emergency entrapment release. Thresholds and surrounds are produced from durable stainless steel with a heater supplied for freezer application. Doors are already pre-mounted on a panel for ease of assembly in the field.

Floors, when supplied, are insulated and have a strong marine plywood surface, which is coated with a non-slip glass fibre resin. Load limit for a standard floor max. 40 kN/m<sup>2</sup> or max 1,0 kN/per 40mm castor. Heavy duty floor with stainless steel surface available as an additional accessory.

An ultra-hygienic shelving system allows the operator to wash individual shelves in a commercial dishwasher whilst larger dimensions increase storage areas within our rooms.

Select from our extensive range, for a room to suit your requirements.

- Three temperature ranges; +2 to +8°C (+12°C) adjustable in increments of 1°C for chilled (C) produce. For the storage of fresh meat or fish use -2 to +5°C (M) and for frozen (F) select -18 to -22°C.
- Insulation options of either 80 or 100mm.
- 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.
- Cooling units can be manufactured for placement either to the left or right hand side of the door and can also be made for connection to a central cooling system.
- Door can be hung either left or right-hinged or changed in the field if required (except 1200 mm or 1350 mm wide rooms).
- Standard external height 2100mm or 2400 mm.
- 4 tier fully adjustable shelving is supplied for either 2 or 3 walls depending on model selected. Standard shelves are made of ABS-plastics which is classified as food safe and can be washed in a commercial dishwasher. Stainless steel shelves are available as an optional accessory.



## Combined digital temperature display with built-in control functions

- |   |                                    |   |
|---|------------------------------------|---|
| 1. Compressor RUN light                 | 5. Temperature/information display | 9. Light switch button with light to indicate ON mode |
| 2. Automatic defrost in operation light | 6. Temperature adjustment button   | 10. ON/OFF Stand-by mode button                       |
| 3. Evaporator fan RUN light             | 7. Manual defrost button           | 11. Humidity control button (C models only)           |
| 4. Alarm activated light                | 8. Settings button                 | 12. Probe display button                              |

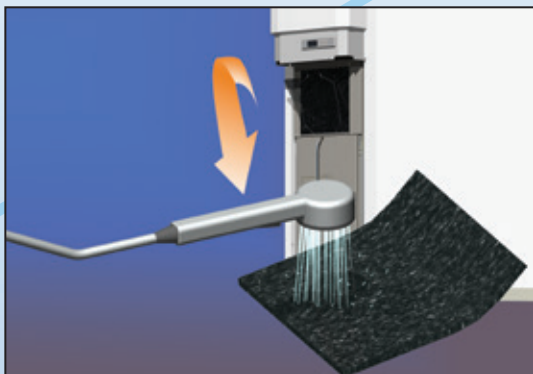


## Alarm functions

The Porkka temperature display is supplied with a built-in high/low temperature alarm which is both audible and visual and can also be connected to a building management system by means of a volt free connection.

## Air-cooled condenser dust filter

The air inlet to the condenser is on the lower part of the refrigeration unit, ensuring the coolest air is always used helping to reduce running costs and extending the service life of the unit. The dust filter behind the air grill is easy to clean or replace. The controller provides information on when the filter requires cleaning or changing.



## Shelving system

The Porkka modular cold room shelving system is highly practical and easy to clean. Standard shelving delivery includes four (4) tier dishwasher safe polycarbonate (food safe) inserts and supporting material. Shelving is supplied for either 2 or 3 walls dependent on model selected.



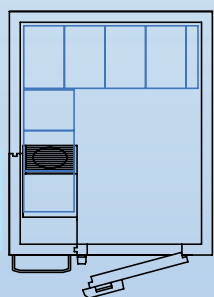
## Safety

The door is supplied with heavy duty hinges and a lockable door handle with a luminous emergency entrapment release, which overrides the lock at all times, should someone accidentally be shut in the room. Door threshold and surround is fitted with a heater to prevent freezing of the gasket to the frame in low temperature models. If required floor panels can also be supplied with built-in heaters to prevent freezing or moisture damage below a larger freezer room.

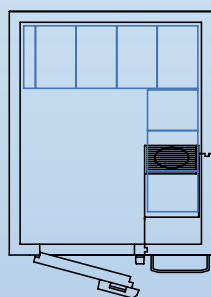
## A LARGE COMPREHENSIVE RANGE

with volumes up to 22 m<sup>3</sup>

Porkka Modular Step-in Rooms are available in a range of 81 different sizes with volumes from 1.2 m<sup>3</sup> up to 22 m<sup>3</sup>. The rooms are available in three temperature variations with optional insulation thickness and external heights. When this is combined with unit positions and door options, our range is truly massive. Porkka is the perfect partner to work with as we are bound to have a storage solution to suit your requirements.



1518 L



1518 R

### Units can be ordered for left or right hand positioning'

All Porkka Chiller & Freezer Rooms can be placed next to each other. The refrigeration unit can be placed on the left front side (standard) or on the right front side if required.

**L** = Refrigeration unit left side, door opening right hand hinged  
**R** = Refrigeration unit right side, door opening left hand hinged



## RHDS®

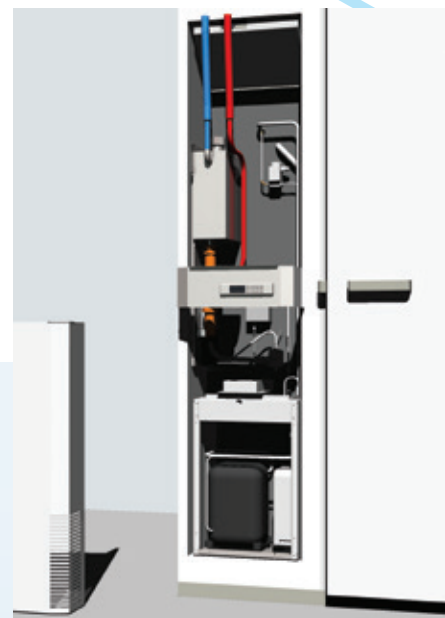
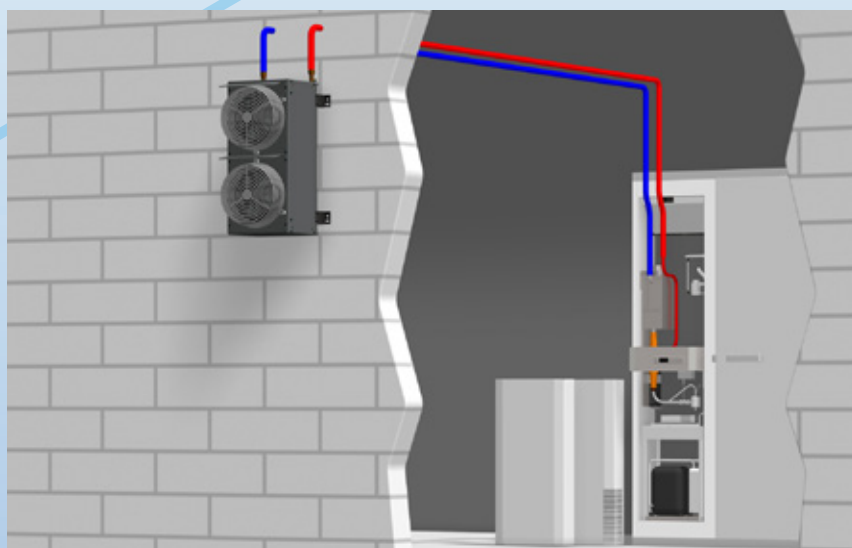
### Porkka Remote Heat Disposal System

Porkka RHDS is a heat disposal system unique to Porkka. Its main function is to remove waste heat from your condenser unit and then reject it outdoors rather than in the immediate environment. To achieve this heat-transfer the RHDS system utilises a glycol solution to collect waste heat in a gas to liquid heat exchanger. The glycol solution containing the waste heat is then automatically pumped to a low noise fan assisted outdoor condenser unit where the heat is rejected.

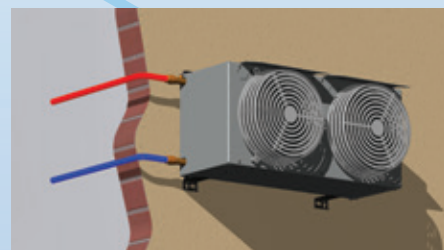
The main advantage of Porkka RHDS is that you get the heat removal consistent with a traditional split system without the noise which is problematic in residential areas and at a far lower cost. While the heat is being rejected outdoors the main condenser unit remains indoors offering easy access for servicing.

Porkka RHDS is fully compatible with all modern refrigerants including R452 and R290.

Pump Options	Horizontal Distance (Max)	Vertical Distance (Max)	Total distance (Max)
STANDARD PUMP	15 m	5 m	20 m
HEAVY-DUTY PUMP PICO 28/1-8	30 m	10 m	40 m
EXTRA HEAVY-DUTY PUMP MAX	45 m	15 m	60 m















































The Porkka RHDS® unit is equipped with a refrigerant-to-liquid heat exchanger waste refrigeration heat is transferred to the water solution where it is circulated to the condenser where the heat is given up to the ambient air.







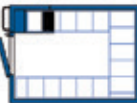
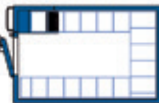



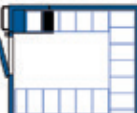


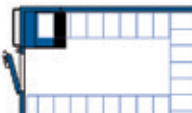

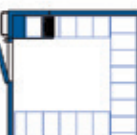
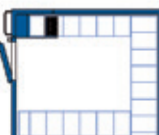
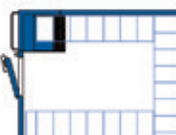
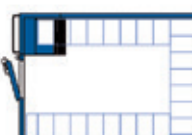
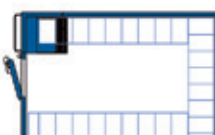

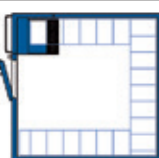
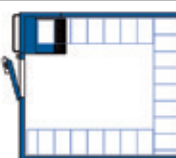
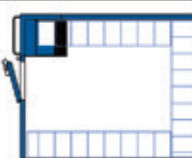
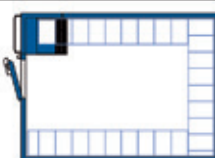



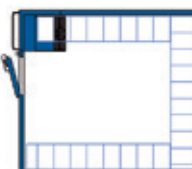


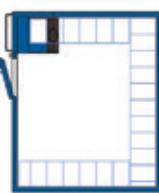








RHDS® liquid to air condenser can be wall, floor or roof mounted either externally or ideally within an area where the heat can be utilised such as a warehouse, etc. Noise levels are kept low as only fans are run on the external unit.



**Porkka Modular Cold Rooms offer hundreds of rooms to select from**

	Depth 900	Depth 1200	Depth 1350	Depth 1500	Depth 1800	Depth 2100
Width 1200	 1209 * (1,4 B)	 1212 * (1,8 A)	 1213 * (2,3 A)	 1215 * (2,6 A)	 1218 * (3,1 A)	 1221 * (3,7 A)
Width 1350	 1309 * (1,6 B)	 1312 * (2,3 B)		 1315 * (2,9 A)	 1318 * (3,6 A)	 1321 * (4,2 A)
Width 1500	 1509 * (1,7 B)	 1512 (2,6 B)	 1513 (2,9 B)	 1515 (3,5 A)	 1518 (4,0 A)	 1521 (4,8 A)
Width 1800	 1809 * (2,2 B)	 1812 (3,1 B)	 1813 (3,6 B)	 1815 (4,0 B)	 1818 (5,0 A)	 1821 (5,9 A)
Width 2100		 2112 (3,7 B)	 2113 (4,2 B)	 2115 (4,8 B)	 2118 (5,9 B)	 2121 (6,9 A)
Width 2400		 2412 (4,3 B)		 2415 (5,5 B)	 2418 (6,7 B)	 2421 (8,0 B)
Width 2700		 2712 (4,9 B)		 2715 (6,1 B)	 2718 (7,6 B)	 2721 (8,9 B)
Width 3000		 3012 (5,4 B)		 3015 (7,0 B)	 3018 (8,5 B)	 3021 (10,1 B)
Width 3300					 3318 (9,5 B)	 3321 (11,2 B)
Width 3600					 3618 (10,3 B)	 3621 (12,3 B)

Depth 2400	Depth 2700	Depth 3000	Depth 3300	Depth 3600
 1224* (4,3 A)	 1227* (4,9 A)	 1230* (5,4 A)		
 1524 (5,5 A)	 1527 (6,1 A)	 1530 (7,0 A)		
 1824 (6,7 A)	 1827 (7,6 A)	 1830 (8,5 A)	 1833 (9,5 A)	 1836 (10,3 A)
 2124 (8,0 A)	 2127 (8,9 A)	 2130 (10,1 A)	 2133 (11,2 A)	 2136 (12,3 A)
 2424 (9,0 A)	 2427 (9,0 A)	 2430 (11,6 A)	 2433 (12,9 A)	 2436 (14,2 A)
 2724 (10,4 B)	 2727 (11,8 A)	 2730 (13,3 A)	 2733 (14,7 A)	 2736 16,0 A
 3024 (11,6 B)	 3027 (13,3 B)	 3030 (14,9 A)	 3033 (16,4 A)	 3036 (18,0 A)
 3324 (12,9 B)	 3327 (14,7 B)	 3330 (16,4 B)		
 3624 (14,2 B)	 3627 (16,0 B)	 3630 (18,0 B)	<p>** Special shelf layout, height 2400</p> <div>  1833** (9,5 A)  1836** (10,3 A) </div>	

## MODEL MK 5 (R290 REFRIGERANT)

As part of Porkka's ongoing commitment to developing greener and safer technology - Porkka MK5 CFC and HCFC free, and optionally PIR insulated camlock panels, when combined with Porkka's R290 powered integral condenser units deliver a truly green option for food storage.

Porkka insulated camlock PUR and PIR panels are 100% recyclable and Porkka's MK5 R290 powered condenser unit, with a global warming potential of three (GWP 3) yields a 33% energy saving compared to more traditional refrigerants.

Suitable for all applications from food storage to pharmaceutical the Porkka MK5 is a truly modern, safe, and efficient asset to future proof your business temperature-controlled storage.



### R290

	C950	M950	F850	F851
Temperature range	+2°C ... +12°C	-2°C ... +5°C	-22°C ... -18°C	-22°C ... -18°C
Volume	< 10 m³	< 10 m³	< 5 m³	5-10 m³
Connection power (plug-in)	0.7 kW	0,7 kW	1,43 kW	1,9 kW
Fuse	1 x 10 A	1 x 10 A	1 x 10 A	1 x 16 A
Voltage	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz
Ambient temperature	+5°C ... +32°C	+5°C ... +32°C	+5°C ... +32°C	+5°C ... +32°C
Refrigerant	R 290	R 290	R 290	R 290
Plug-in Unit	•	•	•	•
RHDS®	•	•	•	

## Model MK 5 (R290 refrigerant)

	1209	1212	1213	1215	1218	1221	1224	1227	1230		
	(1,4 B)	(1,8A)	(2,3A)	(2,6 A)	(3,1 A)	(3,7 A)	(4,3 A)	(4,9 A)	(5,4 A)		
2,1											
2,4											
	1309	1312	1315	1318	1321						
	(1,6 B)	(2,3 B)	(2,9 A)	(3,6 A)	(4,2 A)						
2,1											
2,4											
	1509	1512	1513	1515	1518	1521	1524	1527	1530		
	(1,7 B)	(2,6 B)	(2,9 B)	(3,5 A)	(4,0 A)	(4,8 A)	(5,5 A)	(6,1 A)	(7,0 A)		
2,1											
2,4											
	1809	1812	1813	1815	1818	1821	1824	1827	1830	1833	1836
	(2,2 B)	(3,1 B)	(3,6 B)	(4,0 B)	(5,0 A)	(5,9 A)	(6,7 A)	(7,6 A)	(8,5 A)	(9,5 A)	(10,3 A)
2,1											
2,4											
	2112	2113	2115	2118	2121	2124	2127	2130	2133	2136	
	(3,7 B)	(4,2 B)	(4,8 B)	(5,9 B)	(6,9 A)	(8,0 A)	(8,9 A)	(10,1 A)	(11,2 A)	(12,3 A)	
2,1											
2,4											
	2412	2415	2418	2421	2424	2427	2430	2433	2436		
	(4,3 B)	(5,5 B)	(6,7 B)	(8,0 B)	(9,0 A)	(10,4 A)	(11,6 A)	(12,9 A)	(14,2 A)		
2,1											
2,4											
	2712	2715	2718	2721	2724	2727	2730	2733	2736		
	(4,9 B)	(6,1 B)	(7,6 B)	(8,9 B)	(10,4 B)	(11,8 A)	(13,3 A)	(14,7 A)	(16,0 A)		
2,1											
2,4											
	3012	3015	3018	3021	3024	3027	3030	3033	3036		
	(5,4 B)	(7,0 B)	(8,5 B)	(10,1 B)	(11,6 B)	(13,3 B)	(14,9 A)	(16,4 A)	(18,0 A)		
2,1											
2,4											
	3318	3321	3324	3327	3330						
	(9,5 B)	(11,2 B)	(12,9 B)	(14,7 B)	(16,4 B)						
2,1											
2,4											
	3618	3621	3624	3627	3630						
	(10,3 B)	(12,3 B)	(14,2 B)	(16,0 B)	(18,0 B)						
2,1											

F850, C950, M950	< 5 m <sup>3</sup>
F851, C950, M950	5 < 10 m <sup>3</sup>
N/A	10 m <sup>3</sup> <

## MODEL MK 4 (R452A REFRIGERANT)

Easy to install, manufactured from high quality components, Porkka modular step-in rooms are versatile and automatic in operation. Available in a range of sizes and operating temperatures and can be supplied with or without floors, for trolley operation.

Thousands of Porkka modular step-in cold rooms have sold throughout the world, their ease of installation and use our own manufactured refrigeration unit combined with large range of size and shape configurations makes Porkka cold rooms a popular choice.

Supplied in three temperature ranges Chill, Medium and Freezer a large range of temperature sensitive products can be stored.

CC models are available as R404A compatible (e.g. R448A, R449A, R404A and R454A). CC / C-models available for R134a as an option.

Our own design of shelving using easy to clean, foodsafe materials ensures Porkka modular cold rooms are ideal in many sectors of professional food manufacturing business, such as commercial kitchens, restaurants, retail and catering.

### Porkka refrigeration unit technical data

	C940	C1240	M940	M1240	F840	F1140	F1540
Temperature range	+2°C ... +12°C	+2°C ... +12°C	-2°C ... +5°C	-2°C ... +5°C	-22°C ... -18°C	-22°C ... -18°C	-22°C ... -18°C
Volume	< 12 m³	< 22 m³	< 12 m³	< 22 m³	< 11 m³	< 14 m³	< 22 m³
Connection power (plug-in)	0,81 kW	1,07 kW	1,20 kW	1,62 kW	1,42 kW	1,91 kW	2,19 kW (2,27 kW)
Connection power CC	0,33 kW	0,39 kW	1,32 kW	1,83 kW	1,32 kW	1,83 kW	1,83 kW
Connection power H <sub>2</sub> O *	0,73 kW	0,99 kW	1,12 kW	1,54 kW	1,33 kW	1,83 kW	2,08 kW (2,16 kW)
Connection power RHDS®*	0,86 kW	1,13 kW	1,26 kW	1,68 kW	1,48 kW	1,97 kW	2,27 kW (2,35 kW)
Fuse	1 x 10 A	1 x 10 A	1 x 10 A	1 x 10 A	1 x 10 A	1 x 16 A	3 x 10 A
Voltage	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	230 V / 50 Hz	400V/50Hz 3-Ph (220V 3-ph N)
Cooling effect ( CC )	1 330 W	1 900 W	1 240 W	1 800 W	1 200 W	1 430 W	2 025 W
Evaporating temperature ( CC )	-8°C	-8°C	-10°C	-10°C	-28°C	-28°C	-28°C
Ambient temperature	+5°C ... +32°C	+5°C ... +32°C	+5°C ... +32°C	+5°C ... +32°C	+5°C ... +32°C	+5°C ... +32°C	+5°C ... +32°C
Refrigerant	R 452A	R 452A	R 452A	R 452A	R 452A	R 452A	R 452A
Level of sound pressure 1m / 1,5 m ( dB re 20 µPa )	53 dB ( A )	53 dB ( A )	53 dB ( A )	53 dB ( A )	55 dB ( A )	58 dB ( A )	59 dB ( A )
Level of sound pressure 1m / 1,5 m ( dB re 20 µPa ) RHDS®	49 dB ( A )	49 dB ( A )	49 dB ( A )	49 dB ( A )	51 dB ( A )	54 dB ( A )	55 dB ( A )
RHDS® liquid condenser	RHDS® 2140	RHDS® 2160	RHDS® 2140	RHDS® 2160	RHDS® 2140	RHDS® 2160	2 x RHDS® 2140
Fluid condenser acoustic pressure at location 10m ( dB re 20 µPa )	34 dB ( A )	34 dB ( A )	34 dB ( A )	34 dB ( A )	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°C	-40°C ... +35°C	-40°C ... +35°C	-40°C ... +35°C	-40°C ... +35°C

Note: If there is a lack of ventilation or ambient temperatures are likely to remain above or below recommended levels for considerable periods of time please contact us for solutions.

\*Includes RHDS® fluid condenser



## Model MK 4 (R452A refrigerant)

	1209	1212	1213	1215	1218	1221	1224	1227	1230		
	(1,4 B)	(1,8A)	(2,3A)	(2,6 A)	(3,1 A)	(3,7 A)	(4,3 A)	(4,9 A)	(5,4 A)		
2,1											
2,4											
	1309	1312	1315	1318	1321						
	(1,6 B)	(2,3 B)	(2,9 A)	(3,6 A)	(4,2 A)						
2,1											
2,4											
	1509	1512	1513	1515	1518	1521	1524	1527	1530		
	(1,7 B)	(2,6 B)	(2,9 B)	(3,5 A)	(4,0 A)	(4,8 A)	(5,5 A)	(6,1 A)	(7,0 A)		
2,1											
2,4											
	1809	1812	1813	1815	1818	1821	1824	1827	1830	1833	1836
	(2,2 B)	(3,1 B)	(3,6 B)	(4,0 B)	(5,0 A)	(5,9 A)	(6,7 A)	(7,6 A)	(8,5 A)	(9,5 A)	(10,3 A)
2,1											
2,4											
	2112	2113	2115	2118	2121	2124	2127	2130	2133	2136	
	(3,7 B)	(4,2 B)	(4,8 B)	(5,9 B)	(6,9 A)	(8,0 A)	(8,9 A)	(10,1 A)	(11,2 A)	(12,3 A)	
2,1											
2,4											
	2412	2415	2418	2421	2424	2427	2430	2433	2436		
	(4,3 B)	(5,5 B)	(6,7 B)	(8,0 B)	(9,0 A)	(10,4 A)	(11,6 A)	(12,9 A)	(12,4 A)		
2,1											
2,4											
	2712	2715	2718	2721	2724	2727	2730	2733	2736		
	(4,9 B)	(6,1 B)	(7,6 B)	(8,9 B)	(10,4 B)	(11,8 A)	(13,3 A)	(14,7 A)	(16,0 A)		
2,1											
2,4											
	3012	3015	3018	3021	3024	3027	3030	3033	3036		
	(5,4 B)	(7,0 B)	(8,5 B)	(10,1 B)	(11,6 B)	(13,3 B)	(14,9 A)	(16,4 A)	(18,0 A)		
2,1											
2,4											
	3318	3321	3324	3327	3330						
	(9,5 B)	(11,2 B)	(12,9 B)	(14,7 B)	(16,4 B)						
2,1											
2,4											
	3618	3621	3624	3627	3630						
	(10,3 B)	(12,3 B)	(14,2 B)	(16,0 B)	(18,0 B)						
2,1											
2,4											

C 940, M 940, F 840

C 1240, M 1240, F1140

C 1240, M 1240, F1541

# PORKKA UNIVERSAL COLD ROOMS



Porkka Universal Cold room solution is built to the highest possible standards in our state-of-the-art factories in Finland. Our cold rooms are designed and manufactured by Porkka experts and may be individually customized to meet customer's needs. Porkka Universal Cold Room solution can accommodate angles, irregular shapes, and sizes. Sloped ceilings, multiple doors, and triple glazed glass panels are also available.

Porkka UCR rooms can be cooled using our modular integral refrigeration pods or traditional split systems can be fitted to become a formidable solution for any place of business where reliable temperature control is mission critical. The Porkka UCR is at its best in demanding environments such as busy kitchens and high-volume food retail outlets.

### **GET MORE COLD CAPACITY WITH EXTRA COOLING UNIT**

Porkka cold rooms (MCR) condenser units are designed and built primarily as plug-in units. In general Porkka rooms have a single condenser unit sized to optimise the temperature performance of your room. Additional condenser units can be fitted to larger rooms or to provide a backup refrigeration solution.

### **RELIABLE AND SECURE**

Porkka rooms and condenser units are designed to be low maintenance requiring only periodic attention to critical parts. All routine servicing can be achieved by the operator by following the clear instructions and recommendations outlined in the comprehensive user manual supplied with every room.

### **GOOD CONTROLLABILITY OF THE LIFE CYCLE**

Functional refrigeration and freezing room can be a significant part of your successful business. The materials used in Porkka products are as recyclable and eco-friendly as possible. The recyclability of our product is more than 95%

### **THREE TEMPERATURE RANGES**

The UCR is available in three temperature ranges:

Chill		+2°C... +12°C
Medium		-2°C... +5°C
Freeze		-22°C... -18°C

### **PLUG IN COOLING UNIT**

Porkka Plug-In Cooling units have been designed to be both powerful and energy efficient. Digital temperature displays have built-in high/low alarms which are both audible and visual. These can be connected via a volt-free relay to a building management system.

### **DOORS AS YOU LIKE**

Porkka rooms can be supplied with Hinged, Sliding, or Double doors depending on size, use, and local requirements.

### **MODULAR SHELVING SYSTEM**

The Porkka modular cold room shelving system is highly practical and easy to clean. Standard shelving delivery includes four (4) tier dishwasher safe polycarbonate (food safe) inserts and supporting material. Shelving is supplied for either 2 or 3 walls dependent on model selected.

### **FLOORING AND UNDERFLOOR HEATING**

Porkka rooms are supplied with an insulated floor as standard for Freezer and Medium temperature applications. Chill applications can be supplied with or without floors provided that the floor they are to be built on is of a sufficiently high standard in terms of finish and insulation.

### **WALL AND ROOF ELEMENTS**

All Porkka Wall, Roof, Floor, and Door frame panels are assembled using state of the art eccentric action camlocks. The result is a tightly assembled, close joint, and rigid construction which provides unparalleled reliability and safety.

### **PORKKA RHDS® REMOTE HEAT DISPOSAL SYSTEM**

The RHDS® system is similar to the standard Porkka unit with the addition of a liquid condenser, header tank and pump. Glycol filled pipework connects the condenser unit to a remote fan assisted condenser where waste heat is rejected quietly and efficiently.

### **CUSTOMISATION OF YOUR UCR**

Porkka UCR can be customised to meet your precise needs. UCR rooms can be built to allow you to fully utilise the available space regardless of size or shape.

### **CONTROL UNIT**

Porkka controllers with digital display can be expanded to include temperature alarms and can be connected through zero volt connection to most BMS systems.