

## Vaccine Storage Rooms

WIC 10, 30, 40 | WIF 20 | WIC/WIF 40

ENG Technical datasheet



# PORKKA

## Vaccine Storage

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  $+2^{\circ}\sim +8^{\circ}\text{C}$  or  $-15^{\circ}\sim -25^{\circ}\text{C}$ .

PORKKA Vaccine Storage refrigerated rooms size range is  $10\text{m}^3$ ,  $30$  or  $40\text{m}^3$ . Standard freezer room's size is  $20\text{m}^3$  and combined room's size total  $40\text{m}^3$ .

### Features

- Dual refrigeration system, 100% safety backup
- Air cooled units, monoblock or split type
- Complete delivery for full site installation
- Cold room operating temperature  $+4^{\circ}\text{C}$  (max. ambient temperature  $+43^{\circ}\text{C}$ )
- Freezer room operating temperature  $-20^{\circ}\text{C}$  (max. ambient temperature  $+43^{\circ}\text{C}$ )
- Insulation material used is polyurethane foamed in place to a density  $40\text{ kg/cbm}$
- Insulation thickness: Cold Rooms  $100\text{ mm}$ , U-value  $0.23\text{ W/mK}$ . Freezers  $150\text{ mm}$ , U-value  $0.15\text{ W/mK}$
- Surfaces: hot-dipped galvanized steel sheet, with a white polyester coating. The floor clad with non-slip material.
- Heavy-duty doors:  $800\text{mm}$  wide,  $2000\text{mm}$  high.
- Fully adjustable self standing helving system, hygienic plastic slatted shelves supplied in 5 levels,
- LED lighting, external switch complete, IP67
- Refrigerant: R452A (Freezer rooms), R449A (Cold rooms)
- Dial thermometer
- Plastic strip curtain on the doorway
- Alarm Unit

### Options

- Extra shelves
- Spareparts package (2 years)
- Stainless steel surfaces

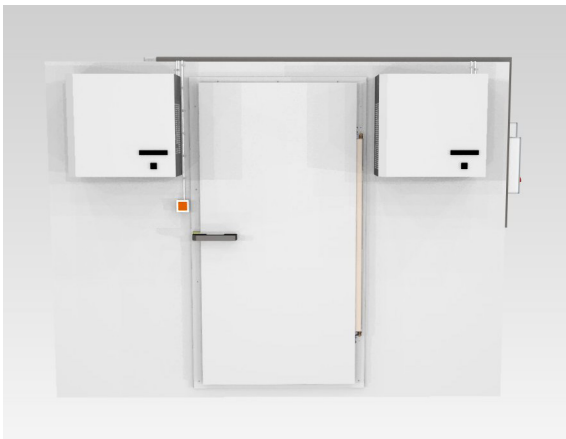


## PORKKA – Over 70 years of expertise

PORKKA Vaccine storage rooms are designed and manufactured by experts in the modern factory in Finland. PORKKA has designed and manufactured cold rooms over 70 years for customers all over the world.

## Designed to meet your needs

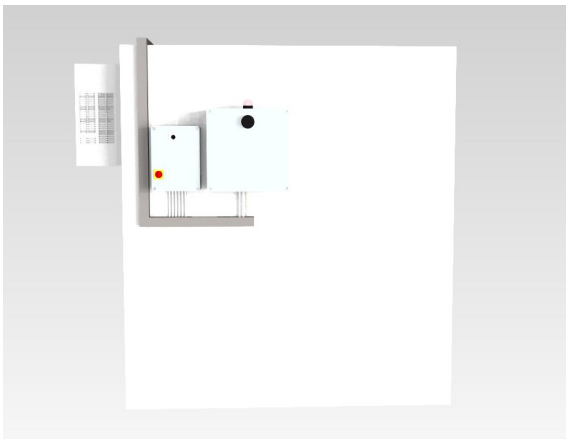
PORKKA is continuously developing its professional and scientific products. We have designed with our customers five standard models for vaccine storage keeping in mind the changing conditions in the field.



## 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.

The PORKKA Vaccine storage has been listed by WHO and we have delivered our rooms in all continents around the world.



## Quick and easy installation

The cold rooms will be prefabricated walk-in type and be supplied with all necessary mechanical and electrical fittings and equipment for quick and easy installation in the field.

The delivery includes all the documentation needed for the installation and the manuals for daily use.

## Product safety

The complete refrigeration system will be supplied with essential spare parts per room, for two years operation. Our high quality polyurethane panel production line brings the best panels to the market.

In case of failure the dual cooling unit system ensures operational reliability and keeps your valuable medical products in safe.

Type	Cold room	Freezer room	Cold room	Cold room	Combined
<b>ENCLOSURE CONSTRUCTION OPTIONS</b>					
<b>Model</b>	<b>WIC 10</b>	<b>WIF 20</b>	<b>WIC 30</b>	<b>WIC 40</b>	<b>WIC/WIF 40</b>
Capacity (m <sup>3</sup> )	10 m <sup>3</sup>	20 m <sup>3</sup>	30 m <sup>3</sup>	40 m <sup>3</sup>	40 m <sup>3</sup> (25 m <sup>3</sup> cold room, 15 m <sup>3</sup> freezer)
Dimensions (W x D x H mm)	2700 x 2100 x 2300	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/m <sup>2</sup> K) 100 mm	0.23	0.23	0.23	0.23	0.23
U-value (W/m <sup>2</sup> K) 150 mm	0.15	0.15	0.15	0.15	0.15
<b>Chiller:</b> Panel insulation thickness (mm)	100 mm	n/a	100 mm	100 mm	100 mm
<b>Freezer:</b> Panel insulation thickness (mm)	n/a	150 mm	n/a	n/a	150 mm
Panel connection system	Camlock	Camlock	Camlock	Camlock	Camlock
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	Self-standing	Self-standing	Self-standing	Self-standing	Self-standing
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), Insulation thickness (mm), Door Model	800 x 2000 100 M	800 x 2000 150 S01	800 x 2000 100 S01	800 x 2000 100 S01	<b>C</b> 800 x 2000 <b>F</b> : 800 x 2000 <b>C</b> : 100 <b>F</b> : 150 S01
Temperature zones	Hot / Temperate / Cold	Hot / Temperate / Cold	Hot / Temperate / Cold	Hot / Temperate / Cold	Hot / Temperate / Cold
<b>EQUIPMENT OPTIONS</b>					
Refrige. Units options	Mono Block / Split	Mono Block / Split	Mono Block / Split	Mono Block / Split	Mono Block / 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	No	Yes	No	No	WIF: Yes
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
<b>COOLING UNITS DETAILS</b>					
Type	Mono Block or Split	Mono Block or Split	Mono Block or Split	Mono Block or Split	Mono Block or Split
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	230V, 50Hz	220/400V, 50Hz	220/400V, 50Hz	220/400V, 50Hz	220/400V, 50Hz
Refrigerant	HFC-free R449A	HFC-free R452A	HFC-free R449A	HFC-free R452A	R449A (C) / R452A (F)
Fuse (A)	10	3*16	3*10	3*10	3*10 + 3*16
Temperature recording	Optional	Optional	Optional	Optional	Optional
Alarm system	Yes	Yes	Yes	Yes	Yes
<b>STANDARDS, SERVICE AND WARRANTY</b>					
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