

## Technical Brochure 2024

Inventus WHE water heat exchanger chillers and freezers



# Inventus WHE product program

## Chiller and freezer cabinets – Inventus C WHE and F WHE



Inventus 6 WHE

Inventus 7 WHE

Inventus 8 WHE

Inventus 6 GW WHE

Inventus 7 GW WHE

Inventus 8 GW WHE

### Comprehensive product range

The Inventus WHE product range includes chiller and freezer cabinets, deep chiller and deep freezers, blast chillers / blast freezers, as well as various additional functionalities and equipment. The inventory is suitable for professional kitchens, bakeries, hotels, cafes, shops and similar places. It is a solution from professionals to professionals.

### For different operating environments

Professional kitchens and bakeries have different challenges compared to commercial refrigeration equipment. For example, the higher temperature of the operating environment of a commercial kitchen requires more performance from the components and insulators of the refrigerator and the possibility to lead the heat generated in the cooling out of the appliance for useful use. The preset water valve of the Inventus WHE device automatically manages the necessary liquid flow through the plate heat exchanger and ensures the best possible operation of the equipment. The Inventus WHE series is an excellent solution also in shop and cafe environments. The product program offers solutions for every need.

### Chiller and freezer cabinets for different needs

Inventus WHE heat exchanger (water/liquid) chillers are available in three different sizes; Inventus C6 WHE, C7 WHE and C8 WHE. Inventus F6 WHE, F7 WHE and F8 WHE are available in the WHE freezers, respectively.

Inventus C7 WHE and F7 WHE cabinets can use GN 2/1 depth shelves, baskets and GN containers or two GN 1/1 containers in a row. Models C8 WHE and F8 WHE can use GN 2/1 wide shelves, baskets and GN containers. The 400x600 shelves and / or baking trays are suitable for the smaller Inventus C6 WHE and F6 WHE models. Inventus uses high-quality stainless steel AISI 304.

### Cabinets with glass windows

Inventus C6 GW WHE, C7 GW WHE, C8 GW WHE, F6 GW WHE, F7 GW WHE and F8 GW WHE models with glass windows enable excellent product visibility and presentation thanks to the glass window and internal lighting. They are thus suitable for both storage and store cabinets.



Nanoksi Fotonit photocatalytic coating is an effective and harmless protection against microbes. It has been proven to destroy viruses, bacteria and mold from all surfaces. Nanoksi Fotonit coating is available as an accessory for the control panel and door handle.



Powerful and productive



Affluent and environmentally conscious



Innovative and modern



Future-proof



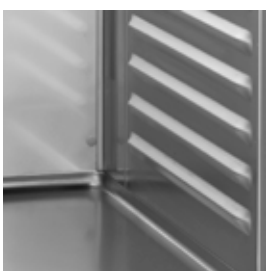
Large easy to read digital display, with simple and easy to use with a built-in microprocessor controller.



Easy to change pull out / push-in magnetic door gaskets.



Moulded anti-tilt shelf supports for increased flexibility and also making sanitising much simpler. (Note! N/A BC/BF)



One piece dished floor with rounded corners, avoiding dirt-traps and making spillages easy to clean.



Inventus 7 WHE



## Features

- Control unit with clear numeric display for temperature and other functions
- Key lock
- Can be connected to a remote system via an optional adapter
- Minimum and maximum temperature recording
- Visual "high temperature" and "low temperature" alarm
- Visual alarm of a broken sensor
- Visual alarm of a clogged condenser
- Door switch for luminaire and fan control and "door open" alarm
- The outer surface is made of stainless steel, the inner surface is made of stainless steel (AISI 304 austenitic stainless steel)
- Molded environmentally friendly HFC-free polyurethane insulation
- Anti-tilt shelf supports
- C7 WHE and F7 WHE are dimensioned for GN 2/1 and GN 1/1 containers. In C7 WHE and F7 WHE, the vessel is in depth. Instead of one GN 2/1 container, two GN 1/1 containers can be used in succession
- C8, M8 and F8 WHE are dimensioned for GN 2/1 containers. In C8, M8 and F8 WHE, the container is widthwise
- Four painted wire rack shelves, adjustable in 56 mm increments
- Lockable door, tool-free replaceable magnetic seal and durable spring hinges to keep the door open at a 90-degree angle
- Efficient and energy-saving cooling system with R290 refrigerant and water/liquid heat exchanger
- Stainless steel legs, adjustment range 130 mm – 205 mm
- Defrost water evaporation as standard,
- Power supply 230 V / 50 Hz

## Additional functionalities and accessories

- Nanoksi Fotonit photocatalysis coating, a new innovative self-disinfecting solution to protect control panel and handle surfaces from microbes
- Electronic iLOQ locking system
- stainless steel wire shelf
- Stainless steel panel shelf
- Stainless steel basket shelf (available for models C7 WHE, C8 WHE, F7 WHE and F8 WHE)
- LED light
- Short legs instead of long legs, adjustment 70 mm - 105 mm
- Foot pedal

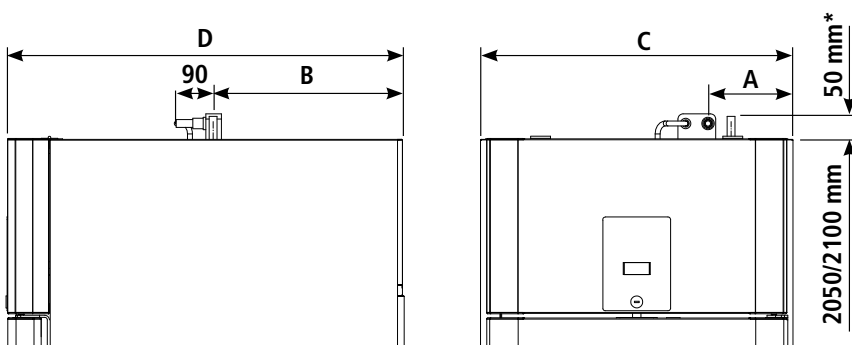


## WHE water heat exchanger and system drain valve

The Inventus WHE system leads the heat generated during cooling away from the device for useful use. The WHE system has a factory-installed liquid heat exchanger, water valve and 3/4" pipe fittings. The manufacturer has preset the water valve, but it can be fine-tuned on site if necessary. The system can be drained of liquid, for example, during maintenance.

The water valve automatically adjusts the flow through the liquid condenser according to the condensation need and optimizes the performance of the device to be as energy efficient as possible.

Technical Data		Chiller Cabinets			Freezer Cabinets		
INVENTUS		C6 WHE	C7 WHE	C8 WHE	F6 WHE	F7 WHE	F8 WHE
Volume, gross	L	421	609	619	421	609	619
Volume, net	L	324	473	474	324	473	474
External width	mm	600	730	850	600	730	850
External depth	mm	760	870	750	760	870	750
External height/standard legs	mm	2150	2150	2150	2150	2150	2150
External height/short legs	mm	2100	2100	2100	2100	2100	2100
Internal width	mm	404	534	654	404	534	654
Internal depth	mm	610	675	555	610	675	555
Internal height	mm	1485	1485	1485	1485	1485	1485
Shelves (4 pcs), width	mm	401	531	651	401	531	651
Shelves, depth	mm	600	660	540	600	660	540
Maximum load / shelf	kg	70	70	70	70	70	70
Maximum load / cabinet	kg	280	280	280	280	280	280
Ambient temperature range	°C	+10...+40	+10...+40	+10...+40	+10...+40	+10...+40	+10...+40
Storage temperature range	°C	+1...+12	+1...+12	+1...+12	-26...-15	-26...-15	-26...-15
Weight, gross	kg	142	162	162	142	162	162
Weight, net	kg	132	152	152	132	152	152
Nominal power	kW	0,3	0,3	0,3	0,42	0,42	0,42
Cord length	m	3	3	3	3	3	3
Refrigerant, R290	g	115	110	110	83	90	90
Fuse, slow	A	10	10	10	10	10	10
Voltage/Frequency	V/Hz	230/50	230/50	230/50	230/50	230/50	230/50
Sound pressure level	dB(A)	< 50	< 50	< 50	< 50	< 50	< 50
Minimum water flow rate (Fluid flow)	L/min	2	2	2	2	2	2
Pressure drop	kPa	< 1	< 1	< 1	< 1	< 1	< 1
Maximum water temperature	°C	20	20	20	20	20	20
Defrost method		Off-cycle	Off-cycle	Off-cycle	Hot gas	Hot gas	Hot gas
		Chiller cabinets with glass window			Freezer cabinets with glass window		
INVENTUS		C6 GW WHE	C7 GW WHE	C8 GW WHE	F6 GW WHE	F7 GW WHE	F8 GW WHE
Ambient temperature range	°C	+10...+30	+10...+30	+10...+30	+10...+30	+10...+30	+10...+30
Weight, gross	kg						
Weight, net	kg						
Nominal power	kW	0,32	0,32	0,32	0,52	0,52	0,52



	8 WHE	7 WHE	6 WHE
<b>A mm</b>	245	185	120
<b>B mm</b>	410	410	360
<b>C mm</b>	850	730	600
<b>D mm</b>	750	870	760

\* Note! In BC/BF WHE cabinets, the pipe connections increase the total height by 60 mm

## Inventus BC/BF WHE

### Blast chillers/blast freezers – Inventus BC/BF WHE



Inventus BC/BF 7 WHE

Inventus BC/BF 8 WHE



A clear 4.3" color touch screen, an efficient and optimized blast chilling / blast freezing process and ready-made standard programs ensure smooth and fast operation.

#### Masters of blast chilling and freezing

The Inventus BC / BF WHE models are an excellent solution whenever blast chilling or freezing is required. They are designed for heavy use and demanding conditions in professional kitchens, hotels, cafes, shops and similar places.

The models BC/BF 7 WHE and BC/BF 8 WHE have both blast cooling and blast freezing functions. The BC / BF WHE models are made of high-quality and long-lasting components and are the absolute best in the industry. It offers state-of-the-art usability as well as better hygiene and safety. Flexibility and ease are evident in everything.

The BC / BF WHE models are designed and manufactured in an environmentally friendly way. It is a future-proof solution where professionalism is visible both as a whole and in small details.

#### Blastly deploy with ready-made standard programs, efficient and optimized processes

Standard programs enable quick commissioning. The BC / BF WHE blast chillers / freezers have four standard programs, Soft Chill, Hard Chill, Soft Freeze and Hard Freeze. Highly efficient and optimized blast-freezing and blast-chilling processes are used. After the two-step process, the device enters storage mode. For self-monitoring (HAACP), all critical information is stored in the devices.

#### If you want more flexibility with your own programs, a product sensor as standard

It is possible to make your own programs on the device. If desired, up to a three-step process can be programmed. The evaporator melting cycle can then be defined to be performed before or alternatively after the process. The device can be programmed to finally start the storage mode. The device comes with a product sensor that is utilized for safe cooling control based on product temperature.

#### Rated for GN 1/1 containers

Both models BC/BF 7 WHE and BC/BF 8 WHE, are dimensioned for GN 1/1 containers. In the BC/BF 7 WHE, the container is placed widthwise. The BC/BF 8 WHE container is installed in depth, these models always come with 10 pairs of brackets as standard.

#### Inventus BC / BF WHE additional functionalities and accessories

A variety of additional functionalities and accessories are available, such as versatile shelf and leg options.

## Features

- Control unit with 4.3 "color touch screen for temperature and other functions
- Advanced quick cooling / quick freezing process
- Storage function
- In BC/BF blast chillers / freezers 4 soft or standard programs Soft Chill, Hard Chill, Soft Freeze and Hard Freeze. In all, a 2-step process, after which the device enters storage mode
- 12 memory slots for your own programs. Possibility to program a 3-stage process, evaporator defrost cycle programmable before or after the process, finally programmable start of storage mode if desired
- Product sensor for safe cooling control based on product temperature
- USB connector for data transfer
- Can be connected to a remote system
- Recording of self-monitoring and alarm / deviation data
- Audiovisual alerts locally
- Door switch for door open alarm
- The outer surface is made of stainless steel, the inner surface is made of stainless steel (AISI 304 austenitic stainless steel)
- Molded environmentally friendly HFC-free polyurethane insulation
- BC/BF 7 WHE and BC/BF 8 WHE are dimensioned for GN 1/1 containers. In the BC/BF 7 WHE, the container is widthwise. In the BC/BF 8 WHE, the container is in the depth direction, with 10 pairs of brackets as standard
- Anti-tilt shelf supports for GN 1/1 containers
- Tool-free replaceable magnetic seal and durable spring hinges to keep the door open at a 90-degree angle
- Efficient and energy-saving cooling system with R452A refrigerant and water/liquid heat exchanger
- Stainless steel legs, height adjustable from 130 to 205 mm
- Meltwater drainage as standard
- Power supply 230 V / 50 Hz

## Additional functionalities and accessories

- Nanoksi Fotonit photocatalysis coating, a new innovative self-disinfecting solution to protect control panel and handle surfaces from microbes
- UV-C sterilization light that goes out when the door is opened
- Stainless steel panel shelf
- Short legs instead of long legs, adjustment margin 70 mm - 105 mm
- Electronic locking system
- Evaporation of defrost water instead of drainage
- Foot pedal door opener

Technical data	Blast chillers/freezers		
	INVENTUS	BC/BF 7 WHE	BC/BF 8 WHE
Blast chilling capacity*	kg/90min	30	30
Blast freezing capacity**	kg/2.5h	25	25
Internal fittings, Gastronorm		1/1	1/1
Internal fittings, trayslides	pair	19	10
External width	mm	730	850
External depth	mm	870	785
External height/standard legs	mm	2160	2160
External height/low legs	mm	2110	2110
Internal width	mm	530	325
Internal depth	mm	325	570
Internal height	mm	1510	1510
Ambient temperature range	°C	+10...+32	+10...+32
Storage temperature range	°C	+90...-20	+90...-20
Weight, gross	kg	162	162
Weight, net	kg	152	152
Nominal power	kW	2	2
Cord length	m	3	3
Refrigerant R452A	g	1000	1000
Fuse, slow	A	16 (13)	16 (13)
Voltage/Frequency	V/Hz	230/50	230/50
Sound pressure level (1m)	dB(A)	< 65	< 65
Minimum water flow rate (Fluid flow)	L/min	10	10
Pressure drop	kPa	< 10	< 10
Maximum water temperature	°C	10	10
Defrost method		Electric	Electric

\* GN 1/1-65, product thickness 50 mm, initial temperature +70 C, end temperature +3 C

\*\* GN 1/1-65, product thickness 50 mm, initial temperature 0 C, end temperature -18 C

### Note!

Freezing amounts are indicative and are affected by the composition of the food and the amount of food in the dish (layer thickness).



Inventus BC/BF 8 WHE

# Inventus DC and DF WHE

Light duty chillers and freezers – Inventus DC WHE and DF WHE



Inventus DC8 WHE

- DC8 WHE and DF8 WHE are dimensioned for GN 2/1.
- DC8 WHE and DF8 WHE the container is widthwise
- Four stainless steel wire shelves, adjustable in 56 mm increments
- Lockable door, tool-free replaceable magnetic seal and durable spring hinges to keep the door open at a 90-degree angle
- 25% more efficient and energy-saving cooling system with R290 refrigerant and water/liquid heat exchanger
- Stainless steel legs, adjustment range 130 mm – 205 mm
- Defrost water evaporation as standard, drainage as an accessory
- Power supply 230 V / 50 Hz

## Additional functionalities and accessories

- Nanoksi Fotonit photocatalysis coating, a new innovative self-disinfecting solution to protect control panel and handle surfaces from microbes
- Can be connected to a remote system via the optional TTL adapter
- Electronic iLOQ locking system
- Hot gas defrost for DC models
- Stainless steel panel shelf
- Stainless steel basket shelf (available for DC8 WHE and DF8 WHE)
- Short legs instead of long legs, adjustment 70 mm - 105 mm
- Foot pedal door opener

## Features

- Control unit with clear numeric display for temperature and other functions
- Key lock
- Chilling timer clock (DC WHE models only)
- Minimum and maximum temperature recording
- Visual "high temperature" and "low temperature" alarm
- Visual alarm of a broken sensor
- Visual alarm of a clogged condenser
- Door switch for luminaire and fan control and Door open alarm
- The outer surface is made of stainless steel, the inner surface is made of stainless steel (AISI 304 austenitic stainless steel)
- Molded environmentally friendly HFC-free polyurethane insulation
- Anti-tilt shelf supports



Inventus DC8 WHE



Technical data		DC WHE light duty chillers		DF WHE light duty freezers	
INVENTUS		DC6 WHE	DC8 WHE	DF6 WHE	DF8 WHE
Volume, gross	L	421	619	421	619
Volume, net	L	324	474	324	474
External width	mm	600	850	600	850
External depth	mm	785	785	785	785
External height/standard legs	mm	2150	2150	2150	2150
External height/low legs	mm	2100	2100	2100	2100
Internal width	mm	404	654	404	654
Internal depth	mm	610	555	610	555
Internal height	mm	1455	1455	1455	1455
Shelves (4 pcs), width	mm	401	651	401	651
Shelves, depth	mm	600	540	600	540
Maximum load / shelf	kg	70	70	70	70
Maximum load / cabinet	kg	280	280	280	280
Ambient temperature range *	°C	+10...+30	+10...+30	+10...+30	+10...+30
Storage temperature range	°C	+1...+12	+1...+12	-26...-15	-26...-15
Weight, gross	kg	142	162	142	162
Weight, net	kg	132	152	132	152
Nominal power	kW	0,74	0,92	0,66	0,86
Cord length	m	3	3	3	3
Refrigerant R290	g	150	150	150	150
Fuse, slow	A	16	16	16	16
Voltage/Frequency	V/Hz	230/50	230/50	230/50	230/50
Sound pressure level (1m)	dB(A)	< 55	< 55	< 55	< 55
Minimum water flow rate (Fluid flow)	L/min	5	5	5	5
Pressure drop	kPa	< 5	< 5	< 5	< 5
Maximum water temperature	°C	10	10	10	10
Defrost method (DC hot gas defrost is an accessory)		Off-cycle (Hot gas)	Off-cycle (Hot gas)	Hot gas	Hot gas

\* These devices are intended for use during the chilling or freezing operation at an ambient temperature of up to 30 °C (during the storage period at an ambient temperature of up to 40 °C).

## Chilling (DC)

The cooling power of the devices is in accordance with the regulation that entered into force in Finland on February 1, 2009:

DC6 WHE: + 60°C...+6°C 32-37 kg / in less than 4 hours

DC8 WHE: + 60°C...+6°C 46-60 kg / in less than 4 hours

The cooling power has been measured with 35 or 50 mm thick layer that has been chilled in a stainless steel GN 1/1-65 or 40 container.

## Freezing (DF)

Freezing amount and time (kg / 24h)

DF6 WHE: +0°C...-18°C 60 kg

DF8 WHE: +0°C...-18°C 80 kg

## Note!

Chilling and freezing amounts are indicative and are affected by the composition of the food and the amount of food in the dish (layer thickness).

# Inventus WHE - factory installed accessories

## Accessories Inventus 6 WHE, 7 WHE and 8 WHE

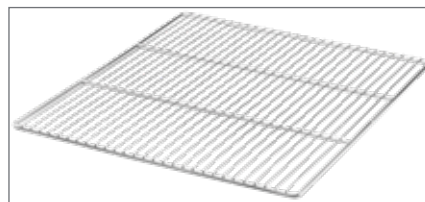
Code	Accessory
APC12100	TTL-ADAPTER
APF12010	iLOQ S10 ELECTRONIC LOCK + ONE KEY
APM20605	S10 ADDITIONAL KEY
APF10320	STAINLESS STEEL PANEL SHELF 6, 400 X 595 MM
APF10520	STAINLESS STEEL PANEL SHELF 7, 530 X 650 MM
APF10420	STAINLESS STEEL PANEL SHELF 8, 650 X 530 MM
API10103	STAINLESS STEEL WIRE SHELF 6, 400 X 600 MM
API10104	STAINLESS STEEL WIRE SHELF 7, 530 X 650 MM
API10105	STAINLESS STEEL WIRE SHELF 8, 650 X 530 MM
APF10970	STAINLESS STEEL BASKET SHELF 8
APF11020	STAINLESS STEEL BASKET SHELF 7
APF13200	4 PCS SHORT LEGS INSTEAD OF LONG LEGS, ADJUSTMENT 70 MM TO 105 MM
APF12400	FOOT PEDAL DOOR OPENER
APF16600	LED LIGHT TO THE HINGE SIDE
APF19045	NANOKSI FOTONIT COATING FOR THE CONTROL PANEL AND DOOR HANDLE



iLOQ S10



STAINLESS STEEL PANEL SHELF



STAINLESS STEEL WIRE SHELF



STAINLESS STEEL BASKET SHELF



SHORT LEGS



FOOT PEDAL

## Accessories Inventus BC/BF WHE

Code	Accessory
APC12100	TTL-ADAPTER
APF13200	4 PCS SHORT LEGS INSTEAD OF LONG LEGS, ADJUSTMENT 70 MM TO 105 MM
APF12400	FOOT PEDAL DOOR OPENER
APF16500	ELECTRICAL EVAPORATION OF DEFROST WATER
APF19045	NANOKSI FOTONIT COATING FOR THE CONTROL PANEL AND DOOR HANDLE



SHORT LEGST



FOOT PEDAL

ELECTRICAL EVAPORATION  
OF DEFROST WATER

## Accessories Inventus DC WHE and DF WHE

Code	Accessory
APC12100	TTL-ADAPTER
APF12010	iLOQ S10 ELECTRONIC LOCK + ONE KEY
APM20605	S10 ADDITIONAL KEY
EF2980	HOT GAS DEFROST FOR DC MODELS
APF10320	STAINLESS STEEL PANEL SHELF 6, 400 X 600 MM
APF10420	STAINLESS STEEL PANEL SHELF 8, 650 X 530 MM
API10103	STAINLESS STEEL WIRE SHELF 6, 400 X 600 MM
API10105	STAINLESS STEEL WIRE SHELF 8, 650 X 530 MM
APF10970	STAINLESS STEEL BASKET SHELF (AVAILABLE FOR MODELS DC8 AND DF8)
APF13200	4 PCS SHORT LEGS INSTEAD OF LONG LEGS, ADJUSTMENT 70 MM TO 105 MM
APF12400	FOOT PEDAL DOOR OPENER
APF19045	NANOKSI FOTONIT COATING FOR THE CONTROL PANEL AND DOOR HANDLE



iLOQ S10



STAINLESS STEEL PANEL SHELF



STAINLESS STEEL BASKET SHELF



SHORT LEGS



FOOT PEDAL

# PORKKA

Porkka Finland Oy is an internationally renowned designer and manufacturer of professional refrigeration solutions. The main areas of activity are HoReCa, medical and research and marine. Porkka is part of the Finnish Festivo-Porkka Group.

The Porkka brand is known for its quality and reliability - the long life cycle of the products, high quality and technical know-how. Porkka's success is based on decades of experience, customer-centric design and continuous product development. The materials used in Porkka products are as recyclable and environmentally friendly as possible. The recyclability of our products is over 95%.



Porkka's solutions are designed and manufactured in accordance with the quality standard ISO 9001: 2015. Porkka's quality system has been certified by Lloyd's Register. Porkka also has an environmental certificate ISO 14001: 2015 issued by LRQA.

We reserve the right to make changes without prior notice.