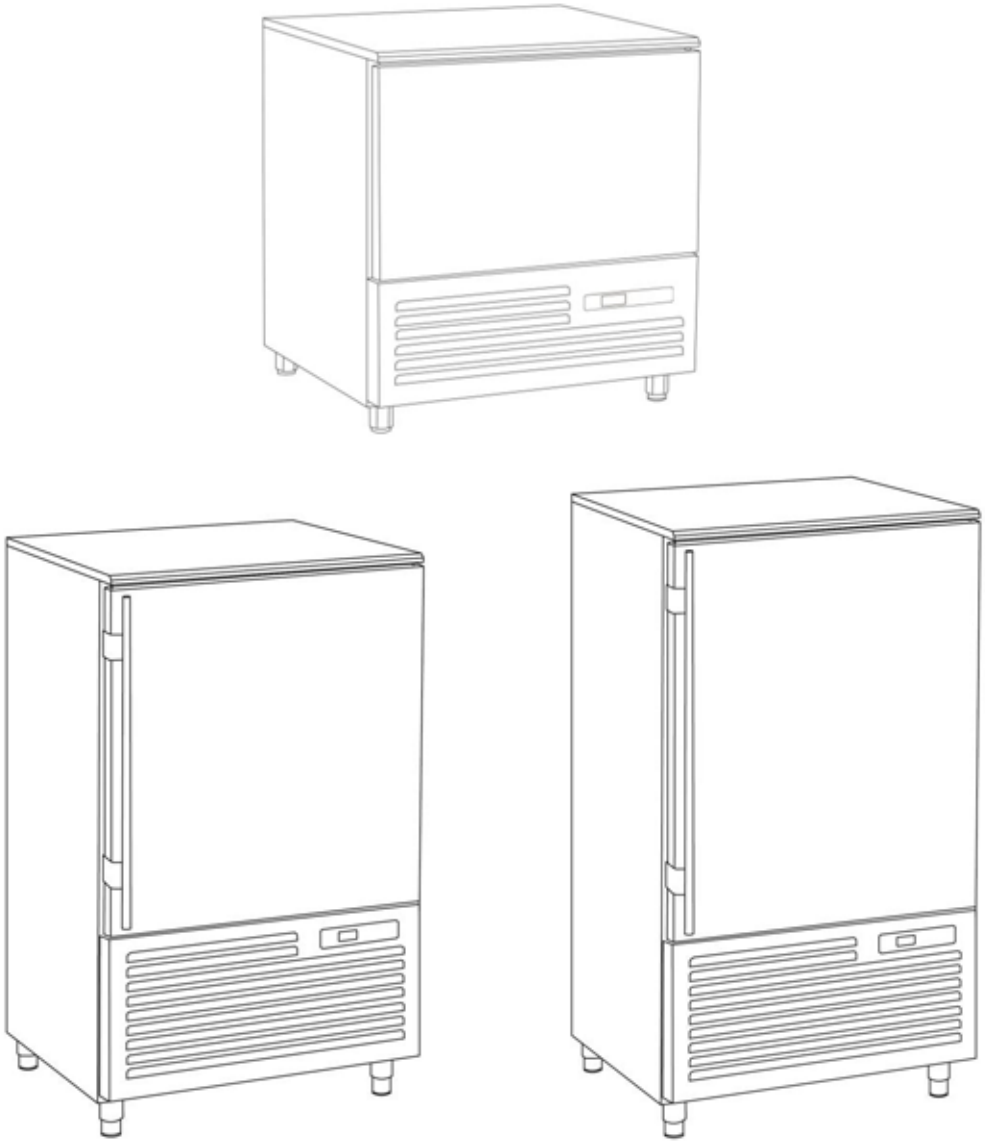
COOL HEAD®

GB **Instruction Manual**



P2M054STD-Ver1.4

Dear Customer,

Congratulations on your purchase of this product.
Please take a few minutes before starting operation of the appliance and read the following operating instructions.

CE

Table of Contents

Product Overview

Article Description
Blast Chiller – N.5 Trays (GN and Euronorm)
Blast Chiller – N.7 Trays (GN and Euronorm)
Blast Chiller – N.10 Trays (GN and Euronorm)

Safety Tips

IMPORTANT: For your safety read the manual carefully before installing or using this product. Save this manual for future reference.

Consult Local and National Standards to comply with the following:

1. Health and Safety at Work Legislation
2. Fire Precautions
3. IEE Wiring Regulations
4. Building Regulations
5. **DO NOT** use the appliance outside.
6. **DO NOT** attempt to service the item yourself.
7. **DO NOT** use damaged appliances. If you are in any doubt, consult service agent.
8. **DO NOT** use electrical appliances inside the appliance (e.g. heaters, ice-cream makers etc.), unless they are of the type recommended by the manufacturer.
9. Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction.
10. **DO NOT** use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
11. **DO NOT** damage the refrigerant circuit.
12. **DO NOT** stand or support yourself on the base, drawers or doors.
13. **DO NOT** allow oil or fat to come into contact with the plastic components or door seal. Clean immediately if contact occurs.
14. This unit can be used by children aged above 8 years and persons with reduced physical, sensory or mental capabilities or lacking of experience and knowledge who have been given supervision or using instruction of the device and understand the resulting risks (for European market).
15. Do not let children play with the appliance.
16. Cleaning and user maintenance must not be carried out by children without supervision.
17. **DO NOT** place combustible, explosive or volatile articles, corrosive acids or alkalis or liquids in the appliance.

Safety Tips

18. **DO NOT** use this appliance to store medical supplies.
19. **DO NOT** use jet/pressure washers to clean the appliance.
20. **DO NOT** allow children to play with the packaging, and dispose plastic bags safely.
21. Bottles that contain a high percentage of alcohol must be sealed and placed vertically in the refrigerator.
22. Always carry, store and handle the appliance in a upright orientation and move by holding the base of the appliance.
23. Always switch off and disconnect the power supply to the unit before cleaning.
24. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
25. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety (for market beyond European).
26. Children should be supervised to ensure that they do not play with the appliance.
27. For indoor use only. Not suitable for installation in an area where a water jet could be used. Shall not be cleaned by a water jet.
28. To guarantee safe operation, ensure that the appliance is set up and connected as described in the instruction manual.
29. Any repairs and work on the appliance should only be carried out by the customer service department/ qualified technician.
30. The key to the electrical cabinet should be kept out of the reach of children and users.
31. Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

Intended Use

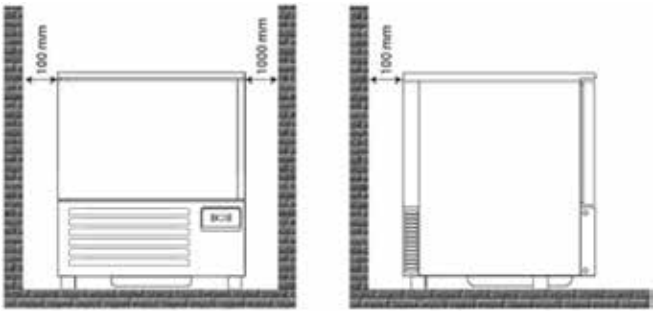
Only use this appliance to blast chilling/freezing food for commercial purposes.

Location and Installation

- Remove the appliance from the packaging. Make sure that all protective plastic film and coatings are thoroughly removed from all surfaces. To prevent injury or damage to the unit, we recommend that the appliance should be unpacked and set up by two people.
- The climatic class can be found on the rating plate. It specifies the ambient temperatures at which the appliance may be operated. The rating plate can be found behind the appliance.

Climate Class	Max. Ambient Temperature	Relative Humidity
3	25	60%
4	30	55%
5	40	40%

- Maintain a distance of 10 cm between the appliance and walls or other objects for ventilation. Increase this distance if the appliance is near an a heat source.



- The appliance should be placed on a solid flat and stable floor to reduce noise and vibration. Level the appliance by adjusting the feet.
- Avoid locating the unit in direct sunlight or near heat sources such as ovens or radiators.
- Please make sure the appliance is properly ventilated.
- Check that the power supply and voltage used comply with the details on the rating plate. The plug must be accessible after installation.
- Correctly connect and disconnect the plug. When inserting ensure the plug is fully engaged. While unplugging hold the body of the plug. Never pull the supply cord directly.
- Is advisable to install a bipolar switch with a NC contact (Normal Close) for the wire section at least 3 mm. between socket and the appliance. This switch is mandatory when the load exceeds 1000 watts or when the blast chiller is connected directly without plug. The thermal-braker switch must be placed near the blast chiller so that it can be clearly visible by the technician in case of maintenance.
- Blast chiller is equipped with a built-in refrigeration engine, is necessary to avoid obstruct the air circulation of the unit in correspondence at front grille, in this way it will allow a correct air exchange. Avoid depositing products or other materials on the perimeter of the blast chiller. Remember that a rise of ambient temperature or insufficient air to the condenser of the refrigeration unit, reduce the performance of the blast chiller with possible deterioration of the products and with more energy consumption.
- If the unit is to be shut down for long period, switch it off and disconnect the plug from socket outlet. Clean the appliance and leave the door open to prevent odour.
- **Important! For your personal safety, this appliance must be properly grounded (earthed).** This appliance is equipped with a cord having a grounding wire with a grounding plug. The plug must be inserted into an outlet that is properly grounded and installed. Consult a qualified electrician or service centre if you do not completely understand the grounding instructions. If doubt exits whether the appliance is properly grounded, have a qualified electrician check the circuit to make sure the outlet is properly grounded.

Location and Installation

- If the cable does not reach the nearest socket, either rearrange your store layout or ask a qualified electrician to fix a new socket.
- If power is cut off, wait for at least 3 minutes before restarting the appliance to avoid damaging the compressor.

Note: If the unit has not been stored or moved in an upright position, let it stand upright for approximately 12 hours before operation.
Note: Before using the appliance for the first time, clean the shelves and interior with soapy water.

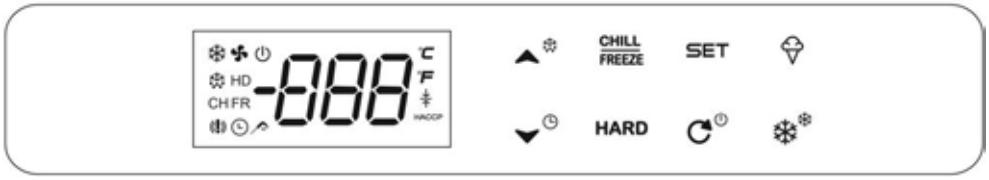
Operation

ATTENTION:

- This is a plug-in unit; once the blast chiller will be connetct to supply the item is in "**Stand-by**" mode; on the display the icon is **ON**.

- For switch **ON** the unit hold START/STOP key for **3s**. The items will display the inner room chamber temperature.
- At the end of the blast chilling cycle, the item switch in automatic to storage mode at a temperature from **+1°C** to **+4°C**.
- At the end of the blast freezing cycle, the item switch in automatic to storage mode at a temperature from **-20°C** to **-18°C**.
- To comply with the time required by law, while a blast chilling/freezing cycle is in progress, it is strongly reccomended don't open the door of the blast chiller.

Temperature Setting and Control



Setting parameter key SET

Start/Stop cycle; Stand-by mode

Chilling/Freezing cycle CHILL FREEZE

Arrow DOWN / Time cycle

HARD/SOFT cycle HARD

Arrow UP / Defrost cycle

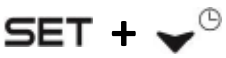
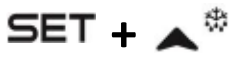
ICE CREAM cycle

Frost buster (-40°C) Cycle

Note: Button combination *(COMBO)* need to be push at the same time in order to activate the function correctly

- **First Combo Keys: Lock or Unlock the keyboard:** If the end user **LOCK IN** the keyboard no additional action will be active, thermostat let blast chiller complete the running cycle/operation in progress.
- To **LOCK IN** press and hold for 3s and keys until **"PoF"** label will shows on the display, viceversal to **UNLOCK** press and hold for 3s and until "**Pon**" label will show on the display.
- **Second/Third Combo Keys: Enter to the "programming mode":** End user by pressing SET+ keys for 3s (The °C led icon will flashing) and the label of first parameter "**Sef**" will appear on the display. Below the other next steps:
    - Press SET key for display "**SeF**" value and press again to proceed with the other parameters.
    - Use and keys for change value.
    - Press again SET to store the new value and move to following parameter.
    - To exit procedure: Press SET + or wait **15s** without pressing any key.

Operation

KEY COMBIANTIONS:	
	Keyboard **UNLOCK** or **LOCK** combination: lock status does not allow editing the parameters while the instrument function are still active.
	Enter in the programming mode.
	Return the room temperature display.

LED ICON DISPLAY LEGENDA:	
	If switch **ON** a Defrost cycle is in progress.
CH	If switch **ON** a Chilling cycle is in progress; if flashing cycle has been selected.
FR	If switch **ON** a Freezing cycle is in progress; if flashing cycle has been selected.
HD	If switch **ON** a **HARD** blast mode chilling cycle is in progress.
	If switch **ON** a temperature-controlled cycle is in progress; if flashing cycle has bee selected (Temperature is detected by Needle probe "**n2P"**).
	If switch **ON** blast chiller is in "**Stand-by**" mode.
	If switch **ON** a time-controlled cycle is in progress; if flashing cycle has bee selected (Temperature is detected by Chamber probe "**rNP"**).
	If flashing a "**Storage**" cycle is in progress (Temperature is detected by Chamber probe **"rNP"**).
	If switch **ON** a "**Frost buster -40°C**" cycle is in progress (Temperature is detected by Chamber probe **"rNP"**).
CH+FR	If switch **ON** a "**ICE CREAM**" cycle is in progress, if both of the icons flashing a cycle has been selected (Temperature is detected by Chamber probe **"rNP"**).
	If switch **ON** an **ALARM** is in progress, check "trouble shooting" instruction (Page.29)

Note: Alarm icon/Alarm displayed labels:

- When the are one or more than one alarm events, it or them must be visible on the display and buzzer will be **ON** (Acoustic alarm)
- Whatever button will be pushed, the buzzer will be switched **OFF**, but the alarm icon and label will be still visible.
- The alarm icon and labels will be visible until the user will check and acknowledge the alarm situation. Press button SET for **5s** to manual reset.

Operation

1. To switching the device ON/Stand-by mode

- Hold the START/STOP key for 3s, the icon will be **ON**.
- Hold the START/STOP key for 3s, the icon will be **OFF** and the display will show the chamber temperature **"rNP".**

2. To select Temperature cycle

- Press and release the chilling/freezing cycle key CHILL FREEZE, needle probe icon + CH will be flashing and selected.

Note: Temperature cycle has been chose as a default setting for both Chilling/Freezing cycle.

3. To select Time cycle

- Press and release the chilling/freezing cycle key CHILL FREEZE, press and hold key for 3s.
- Time cycle icon + CH will be flashing and selected.

4. To start or stop the cycle

- Press and release the START/STOP key, the running cycle will be ending and on the display will appear the room temperature **"rNP"**.

5. How to display "Chamber temperature" probe value.

- Hold the frost buster key for 3s, the display will show the label **"rNP"**.
- Press and release SET key, the display will show chamber temperature.
- **To exit procedure:** Press and release the combination combo key SET + or don't operate for 3s, the display will show **"n2P"** value or timing cycle left.

6. How to display "Needle probe temperature" value.

- Hold the frost buster key for 3s, the display will show the label **"rNP"**.
- Press and release twice SET key, the display will show **"n2P"**, press SET key again for see the needle probe temperature value.
- **To exit procedure:** Press and release the combination combo key SET + or don't operate for 3s, the display will show **"rNP"** value or timing cycle left.

7. How to activate a Defrosting cycle.

- No any cycle should be selected or in progress
- Hold the UP ARROW key for 3s, the defrost and fans icons + will be **ON and** display will show "**dEf**" label.
- **To exit procedure: if end user prefer interrupt the defrost cycle,** Press and hold START/STOP key for 3s, item will be **OFF** and switch to stand-by mode.
- When device will be ending defrost cycle, the display will show room temperature "**rNP**" value.

Note: not mandatory, but is recommended keep the door open during defrost cycle.

Operation

Blast chilling and freezing functionality

Blast Chilling and Freezing cycle have two main working option: controlled by temperature or by time:

- If operator chooses **TEMPERATURE** cycle option, temperature will be detected by needle probe "**n2P"** and cycle will end once needle probe reaches the pre-setting temperature according to value of parameter **+3°C** for chilling and **-18°C** for freezing. After cycle ends the device will switch automatically to "**storage mode**" that will keep the stored food at a pre-setting temperature: chilling **+2°C**; freezing **-20°C** until the storage mode status will be ending by pressing "START/STOP" key.
  During the temperature cycle the display will show always the value of needle probe temperature "**n2P"**. Once storage cycle starts the display will show the value of chamber temperature "**rNP"**.

  Note: End user can modify the pre-setting ending needle probe temperature: (AFTER CYCLE SELECTION but BEFORE PRESS START/STOP key).
  Press and release the **UP** or **DOWN** keys before start the cycle, the display will show the set point of temperature meantime the " °C " icon start flashing. Then press or keys to modify the set point and confirm the new parameter pushing SET key.
  The modify value will be stored.
  If end user don't confirm the new value by SET key, the device will back to pre-setting temperature value (**-18°C**) after **15s**.

- If operator chooses **TIME** cycle option, temperature will be detected by chamber probe "**rNP"** and thermostat display will show pre-setting time cycle of **120 Min.** for chilling and **240 Min**. for freezing. Once chamber temperature reaches a pre-set value of **+3°C** for chilling and **-18°C** for freezing the compressor will stop. Cycle will end once the pre-setting duration cycle time will reach **0 min**.
  After ending cycle the device will enter in a "**storage mode**" that will keep the stored food at pre- setting temperature according to the value of parameter: chilling **+2°C**; freezing **-20°C** until the storage mode status will be ending by pressing "START/STOP" key.
  During the time cycle the display will show time left to finish the cycle. Once storage cycle starts the display will show the value of chamber temperature "**rNP"**.

  Note: End user can modify the pre-setting time as follow: (AFTER CYCLE SELCTION BUT BEFORE PRESS START/STOP key).
  Press and release the **UP** or **DOWN** keys before start the cycle, the display will show the presetting time cycle in decimal unit (1 = 1min.) meantime the "°C"+CH+ icons start flashing. Then press or keys to modify the time and confirm the new time value pushing SET key.
  The modify value will be stored.
  If end user don't confirm the new value by SET key, the device will back to pre-setting time value (**120** min.) after **15s**.

Operation

Possible operation cycles:

- **SOFT CHILLING CYCLE**
- **HARD CHILLING CYCLE**
- **SOFT FREEZING CYCLE**
- **HARD FREEZING CYCLE**
- **ICE CREAM CYCLE**
- **FROST BUST -40°C CYCLE**

Soft Chilling cycle

Operate as follows to start the Temperature soft chilling cycle:

The temperature-controlled Soft Blast Chilling cycle is split in the following 2 phases:

- Blast Chilling
- Storage

SOFT cycle is used when the end user wants a smooth blast chilling process (Chamber temperature will never go down to a negative temperature); during the first phase the setting point of chamber temperature is **0.0°C** (**"rS1"** parameter value). Once the needle probe reaches temperature of **+3°C** (**"iS1"** parameter value) the **SOFT BLAST CHILLING PHASE** stops

1. Press and release one time **Blast Chilling** CHILL FREEZE key to select the cycle with temperature-control: the Chill CH led icon and Needle probe led icon will start flashing.
2. To select TIME cycle, press one time Blast Chilling CHILL FREEZE + keys for 3s, the time led icon will be flashing and selected.
3. Press and release START/STOP key to start temperature Chilling cycle: the Compressor LED icon + plus CH and needle probe led icon will switch **ON** permanently. (Time cycle will be **ON** instead).
4. Once the needle probe temperature reaches the pre-setting point or time cycle is ending, a visual and acustic alarm will notify the ending cycle, the unit will start a storage cycle and led icon will flashing.

Note: During the storage cycle the display will show chamber temperature **"rNP"**.

Operation

Hard Chilling cycle

Operate as follows to start the Temperature hard chilling cycle:

The temperature-controlled Hard Blast Chilling cycle is split in the following 3 phases:

- Blast Chilling Hard phase
- Blast chilling
- Storage

HARD cycle is used when the end user wants a fast blast chilling process (Chamber temperature will keep always a negative temperature); during the first phase the setting point of chamber temperature will be **-20°C** ("**rS1"** parameter value). Once the Needle probe reaches temperature of **+10°C** (**"iS1"** parameter value) the **HARD BLAST CHILLING PHASE** stops and a **SOFT** blast chilling cycle starts.

1. Press and release one time **Blast Chilling** CHILL FREEZE key to select the cycle with temperature-control: the Chill CH led icon and Needle probe led icon will start flashing.
2. Press and release HARD/SOFT key: the**HARD** led icon HD will switch **ON**.
3. To select TIME cycle, press one time Blast Chilling CHILL FREEZE + keys for 3s, the time led icon will be flashing and selected.
4. Press and release START/STOP key to start temperature Chilling cycle: the Compressor LED icon + plus CH and needle probe led icon will switch **ON** permanently. (Time cycle will be **ON** instead).
5. Once the needle probe temperature reaches the pre-setting point or time cycle is ending, a visual and acustic alarm will notify the ending cycle, the unit will start a storage cycle and led icon will flashing.

Note: During the storage cycle the display will show chamber temperature **"rNP"**.

Soft Freezing cycle

Operate as follows to start the Temperature soft freezing cycle:

The temperature-controlled Soft Freezing cycle is split in the following 3 phases:

6. Blast Freezing Soft phase
7. Blast Freezing
8. Storage

Operation

SOFT cycle is used when the end user wants a smooth freezing process (during the softh phase the chamber temperature will never go down to a negative temperature). Once the needle probe reaches temperature of **+3°C** (**"iS1"** parameter value) the **SOFT BLAST FREEZING PHASE** stops and a Blast freezing cycle starts.

1. Press twice and release **Blast Freezing** CHILL FREEZE keys, the Freeze FR led icons will start flashing.
2. Press one time HARD/SOFT key HARD, led icond HD will be **OFF.**
3. To select TIME cycle, press twice Blast Freezing CHILL FREEZE key, the freeze FR led icon will be flashing, press one time HARD + ▼ keys for 3s, the time led icon ◷ will be flashing and icon HD will switch **OFF**.
4. Press and release START/STOP ⏻ key to start freezing soft cycle: the Compressor LED icon ❄+ plus FR and needle probe led icon will switch **ON** permanently. (Time cycle will be **ON** ◷ instead).
5. Once the needle probe temperature reaches the pre-setting point or time cycle is ending, a visual and acustic alarm will notify the ending cycle, the unit will start a storage cycle and led icon will flashing.

Note: During the storage cycle the display will show chamber temperature "**rNP"**.

Hard Freezing cycle

Operate as follows to start the Temperature hard freezing cycle:

The temperature-controlled hard Freezing cycle is split in the following 3 phases:

- Blast Chilling Hard phase
- Blast Freezing
- Storage

HARD cycle is used when the end user wants a fast blast freezing process (Chamber temperature will reach a temperature of **-20°C** ("**rS1"** parameter value). Once the needle probe reaches a temperature of **+3°C** (**"iS2"** parameter value) the **HARD BLAST CHILLING PHASE** stops and a **BLAST FREZEEZING** phase start.

1. Press twice and release **Blast Freezing** CHILL FREEZE keys, the Freeze FR led icons will start flashing and HARD led icon will be **ON.**
2. To select TIME cycle, press twice Blast Freezing CHILL FREEZE key, the freeze FR led icon will be flashing, hold ▼ keys for 3s, the time led icon ◷ will be flashing.

Operation

3. Press and release START/STOP key to start freezing hard cycle: the Compressor LED icon + plus FR, HD and needle probe led icon will switch **ON** permanently. (Time cycle will be **ON** instead).
4. Once the needle probe temperature reaches the pre-setting point or time cycle is ending, a visual and acustic alarm will notify the ending cycle, the unit will start a storage cycle and led icon will flashing.

Note: During the storage cycle the display will show chamber temperature "**rNP"**.

Ice Cream cycle

Note: Needle probe can not be used for the following steps (Temperature will be detected by chamber probe **"rNP"**)

1. Press and release **Ice cream** key, the CH, FR and led icons will start flashing, and display will show **210Min**.
2. Press one time START/STOP key, a pre-cooling cycle will be starting (**for 20min**.) and once the internal temperature reach **-20°C** (**"rSP"**parameter value) the compressor will stop, after **5min**. will restart and work for keep temperature at **-20°C**.
   After 20Min. thermostat will activate the buzzer for 15 times to advise end user that the pre-cooling cycle is complete.
   Note: CH, FR and switch **ON** permanently; + will be **ON** and will flashing.
3. The door of blast chiller can be open and store ice cream pans inside the room for a maximum of 6 pans each time.
4. Ice Cream cycle will be running for **3.5 Hours** according to setting value of parameter **"rS1"**
5. Once the ice cream cycle is end, thermostat will activate again the buzzer for 15 times to advise end user that the ice-cream cycle is complete. The device switch automatically to a storage mode that will keep stored ice cream at a presetting temperature of **-20°C** until the cycle will stop from end user pressing START/STOP key.

Frost bust cycle (-40°C)

Note: Needle probe can not be used for the following steps (Air room temperature will be detected by chamber probe **"rNP"**). This operation is suggested for freeze the surface of stored food by -40°C

1. Press and release **Frost bust** key, the led icon will flashing.
2. Press one time HARD/SOFT key, a Frost Bust (-40°C) cycle will start and icon will be **ON** permanently.
3. The cycle will ending only once end user will press START/STOP key.
4. When inner room temperatue reach -40°C compressor will be stopped and will restart once the interior temperature will reach -37°C (**"rS2"** parameter value)

Operation

The blast chiller is suitable for a fast dropping food product temperature (see the table with the temperatures in relation to the product to freeze).

Do not put directly in the blast chiller food just taken out from the oven, wait few minutes before placing the product inside the chamber and start the cycle.

Please note that the time to reduce the product temperature depends on several factors such as:

- The shape, the type, and the thickness of the material in which the food is storaged
- Where the food is storaged is covered by lid or not.
- The physical characteristics of the food: density, water content and fat content.
- The food temperature conditions before "blast chilling/freezing".

The time setting for blast chilling cycle needs to be set according to the kind and/or weight of the food.

SELECTION MODE OF THE BLAST CYCLE (Positive or Negative temperature)

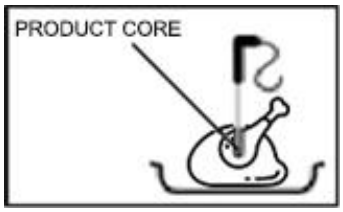
The following modes of blast chilling cycle can be selected:

- By time: If end user knows the exact time of food blast chilling/freezing. When the cycle finishes the appliance will switch automatically to storage mode.
- By temperature: with needle sensor probe to be inserted in the food core; set the temperature of the food for blast chilling/freezing. The probe detects the set temperature, after 1 acoustic signal the blast chiller will switch to storage mode (see needle probe sensor position chapter).

Blast chilling Cycle	Cycle speed	Kind of food	Load	Cycle at food core
POSITIVE	Full speed	For all dense foods and large sizes	Max 4 Kg for tray	+3°C MAX 90Min.
NEGATIVE	Full speed	For all dense foods and large sizes	3 Kg	Until to -18°C (240 minutes)
	Reduced speed	Delicate products, vegetables, creams, spoon desserts, small size products		

Operation

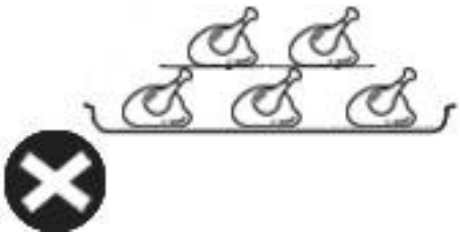
TEMPERATURE MEASUREMENT AT PRODUCT CORE

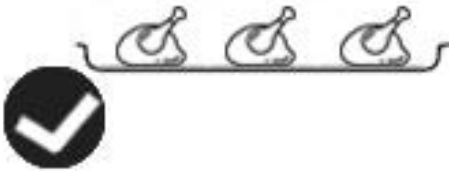


When the product thickness allows, use always the temperature needle probe in order to know the exact temperature reached at the product core. It is suggested to not interrupt the blast chilling cycle before it has reached the temperature of **+3 °c**, in positive cycle and **-18°C** for the negative cycle.

HOW TO LOAD FOOD

Food must not be overlaid.

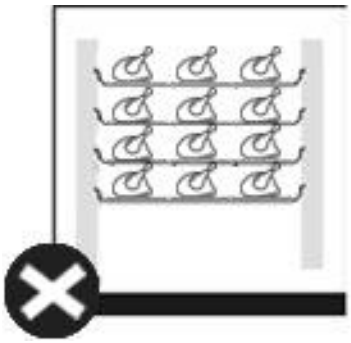


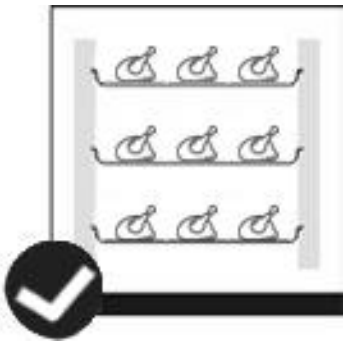


SPACE BETWEEN TRAYS

In order to ensure a good air circulation in the blast chiller chamber:

- Keep a space (at least 65mm) between the trays:

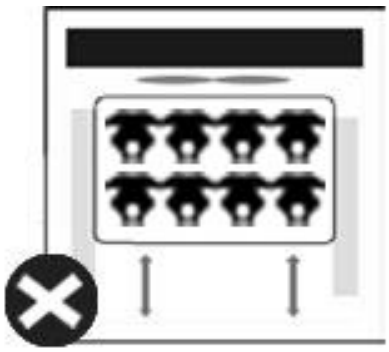


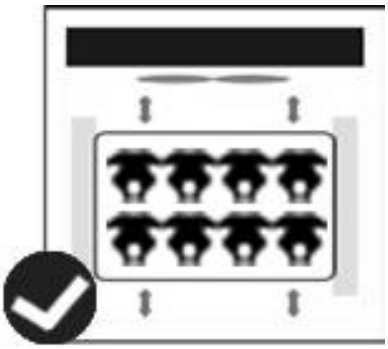


TRAYS POSITION

In order to ensure an appropiate blast chilling/freezing cycle:

- The trays should not be positioned close to the evaporator
- Keep enough space between tray and chamber walls





Operation

STORAGED OF FOOD AFTER BLAST CHILLING CYCLE

The blast chilling/freezing food can be stored in the refrigerator and keep the organoleptic qualities up to 5 days from the blast chilling cycle. It is important to respect the “cold chain”, keeping a constant temperature between **0°C ÷ 4°C**, depending on the food. Using the vacuum technique, the storage time can be increased up to about 15 days.

STORAGED OF FOOD AFTER BLAST FREEZING CYCLE

The frozen food can be stored in the refrigerator maintaining the organoleptic qualities for several months from the blast freezing cycle.

Food after a blast freezing cycle can be safely stored for a period of 3 to 18 months, depending on the kind of food. It is important to respect a storage temperature equal or less than **-20°C**.

WARNING

Do not leave the cooked food at ambient temperature for long time before starting blast chilling/freezing cycle.

Avoid moisture leakage, there is a risk to lose the preserved properties of the food.

Food after blast chilling/freezing must be protected by a food film (better if vacuum-packed) with a label indicating the next information:

- Content
- Preparation day
- Expiration date

WARNING

Food already defrosted can not be frozen again

Main Parameters

Blast chiller device have N.2 Level of programming mode:

- **FIRST LEVEL**: “pr1” for standard machine parameter that are belong to secondary functionality.
- **SECOND LEVEL**: Are all sensible parameter belong the 5 main functionality cycle. (N.5 Cycle because FROST BUST cycle is not included, since follow the parameter “SEf” present in the FIRST LEVEL list).

FIRST LEVEL:

- Hold the combination keys SET + ▼ for 3s, the led icons °C and °F start flashing.
- Press and release the **UP** or **DOWN** ▲ ▼ keys for select parameter.
- Press and release SET key to display the value
- Press and release the **UP** or **DOWN** ▲ ▼ keys for change value.
- Press and release SET key to store the new value and move to the following parameters
- **To exit procedure:** Press and release the combo combination key SET + ▲ or don’t operate for 15s

Parameter	Min.	Max.	Unit	Value	Description
SEF	-50	+50	°C/°F	-40	Set point for frost bust (-40°C)
Hy	0.1	12	°C/°F	3	Compressor hysteresis
AC	0	30	Min.	5	Compressor restart delay
rPo	-12	+12	°C/°F	-1	Thermostat probe calibration
P2P	N	Y	--------	Y	Needle probe presence
ot2	-12	+12	°C/°F	-1	Needle probe 2 calibration
CF	---	---	°C/°F	°C	Temperature measurement unit
rES	In	dE	--------	In	Resolution (for °C)
odc	--------	--------	--------	Fan	Nor, Fan, F-C
MdF	0	255	Min.	15	Maximum length for defrost
dFd	--------	--------	--------	dEF	Rt, it, SET, dEF
Fdt	0	60	Min.	2	Drip time
FnC	--------	--------	--------	o - Y	o-n, Cn, o-Y, Cy
ALU	ALL	+50°C	°C/°F	50	Maximum temperature alarm
ALL	-50°C	ALU	°C/°F	-50	Manimum temperature alarm
AHY	0.1	12	°C/°F	2	Alarm recovery differential
ALd	0	255	Min.	15	Temperature alarm delay
bUt	0	60	Sec.	12	Buzzer activation at the end of the cycle

Main Parameters

SECOND LEVEL: for the following cycle

- **SOFT CHILLING CYCLE**
- **HARD CHILLING CYCLE**
- **SOFT FREEZING CYCLE**
- **HARD FREEZING CYCLE**
- **ICE CREAM CYCLE**

Note: for the **FROST BUST** Cycle check the previous parameter tab Pr1 (SEf parameter value)

- Press suitable keys in order to select one of the operation cycle (refer to page.12)
- Led icons identify the cycle with the following correspondence:
  a) Soft Chilling (CH Led Icon) : corresponding key CHILL FREEZE
  b) Hard Chilling (CH + HD Led Icons) : corresponding key CHILL FREEZE
  c) Soft Freezing (FR Led Icon) : corresponding key CHILL FREEZE
  d) Hard Freezing (FR + HD Led Icons) : corresponding key CHILL FREEZE
  e) Ice Cream (CH + FR Led icons) corresponding key
  f) Hold the corresponding key for 3s, until the display show first parameter label "**cyS"**
- Press and release the **UP** or **DOWN** keys for select parameter.
- Press and release SET key to display the value
- Press and release the **UP** or **DOWN** keys for change value.
- Press and release SET key to store the new value and move to the following parameters
- **To exit procedure:** Press and release the combo combination key SET + or don't operate for 15s

Labels	CH CHILL FREEZE	CH + HD CHILL FREEZE	FR CHILL FREEZE	FR + HD CHILL FREEZE	CH + FR	Description
cyS	tEP	tEP	tEP	tEP	Tim	Cycle setting
dbC	no	no	no	no	no	Defrost before cycle
dbH	no	no	no	no	no	Defrost end of cycle/before storage
cap	yes	yes	yes	yes	yes	Storage mode after cycle
rSP	--------	--------	--------	--------	-20	Set point room pre-cooling phase
PdP	--------	--------	--------	--------	20:00	Max duration time pre-cooling phase
iS1	3	10	3	-18	--------	Set point for needle probe for the first phase
rS1	0.0	-20	0.0	-37	-41	Chamber set point for the first phase
Pd1	02:00	01:20	02:30	04:00	03:30	Timed cycle for the first phase
iS2	--------	3	-18	--------	--------	Set point for needle probe for the second phase
rS2	--------	0.0	-37.0	--------	--------	Chamber set point for the second phase
Pd2	OFF	00:40	01:30	OFF	OFF	Timed cycle for the second phase
HdS	2.0	2.0	-20.0	-20.0	-20.0	Set point of the hold phase

Main Parameters

Parameter	Meaning
cyS	**Cycle setting** **tEP**: by temperature; the cycle is done according to the **rEM** parameter **tiM**: Timed cycle, based pn the **Pd1,Pd2,Pd3** (Option parameter)
dbC	**Defrost before cycle** Yes = defrost is carried out No = the cycle starts immediately without defrosting
dbH	**Defrost end of cycle/before storage** Yes = defrost is carried out No = the storage phase starts immediately
cap	**Storage mode after cycle** Yes = storage phase is carried out No = the storage phase is disabled
rSP	**Set point room pre-cooling phase** When the temperature measured by the chamber probe reaches this value, the current phase is finished and the next one starts
PdP	**Max duration time pre-cooling phase** This is the maximum duration of the pre-cooling phase if the temperature defined in parameter rSP is not reached at the end of this time it switched to the next phase **(Only available on the ice cream cycle)**
iS1	**Set point for inserction probe for the first phase** When the temperature measured by the insert probes reaches this value, the current phase is finished and next one starts
rS1	**Chamber set point for the first phase** It prevents temperature from reaching a too low value. This value controls the operation of the compressor
Pd1	**If the cycle is timed for the first phase** It is considered if the insert probe is not present (OFF to 4h 00Min., res 10Min.) at the end of this time it switches to next phase. **If the cycle is temperature for the first phase** This value is used only if there is an insert probe; this is the maximum duration of the first phase if the temperature defined in parameter **iS1** is not reached.
iS2	**Set point for insertion probe for the second phase** When the temperature measured by the insert probes reaches this value, the current phase is finished and the next one started.
rS2	Chamber set point for the second phase It prevents temperature from reaching a too low value.This value controls the operation of the compressor.
Pd2	**If the cycle is timed for the second phase** It is considered if the insert probe is not present (OFF to 4h 00Min., res 10Min.) at the end of this time it switches to next phase. **If the cycle is temperature for the second phase** This value is used only if there is an insert probe; this is the maximum duration of the second phase in the event the temperature in the parameter **iS2** is not reached.
HdS	Set point of the hold phase

Cleaning, Care & Maintenance

Routine maintenance

Switch OFF and disconnect from the power supply before cleaning.

- Clean the enclosure and interior of the appliance as often as possible.
- Blast chiller maintenance must include at least one daily cleaning of the loading zone to prevent the development and accumulation of bacteria.
- Before cleaning the chamber, perform a defrost cycle leaving the door open and removing the drain plug.
- Blast chiller defrosting cycle is performed in manual mode and can be performed with open door
- After the appliances finishes the blast chilling/freezing cycle, the drain plug of the waste water must be removed so that the condensate water will flow into the tank. The drain pipe also serves to drain out any liquids of the product.
- At the end of each defrost cycle check the water level and if necessary empty the tray (located underneath the unit).
- Clean the unit with moist cloth. Never allow the switch, control panel, cable or plug to get wet.
- Do not use abrasive cleaners, products containing chlorine, caustic soda, muriatic acid, vinegar and chlorine bleach. These can leave harmful wastes. Use only neutral soap and water.
- Clean the door seal with water only.
- Ensure that no cleaning water penetrates into the electrical components.
- Must not be cleaned by a water jet.
- Always wipe dry after cleaning with soft cloth.
- Do not allow water used in cleaning to run through the drain hole into the evaporation pan.
- Take care when cleaning the rear of the appliance.
- An agent or technician must carry out repairs if required.
- If the appliance is to be left inactive for long periods, unplug the appliance after having turned the switch to **OFF** position, empty the refrigerating compartment and clean thoroughly.
- Blast chiller maintenance must include at least one daily cleaning of the temperature needle probe.
- It is recommended to deeply rinse the needle probe with clean water and a sanitizing solution

Special maintenance

The instructions given in the following paragraph can be followed from qualified technicians

- Periodically clean the condenser using suitable tools (vacuum cleaner or soft brushes) can extend the life of the appliance.
- Check that the electrical connections are not loose.
- Check that the thermostat and the sensor are in proper working order.

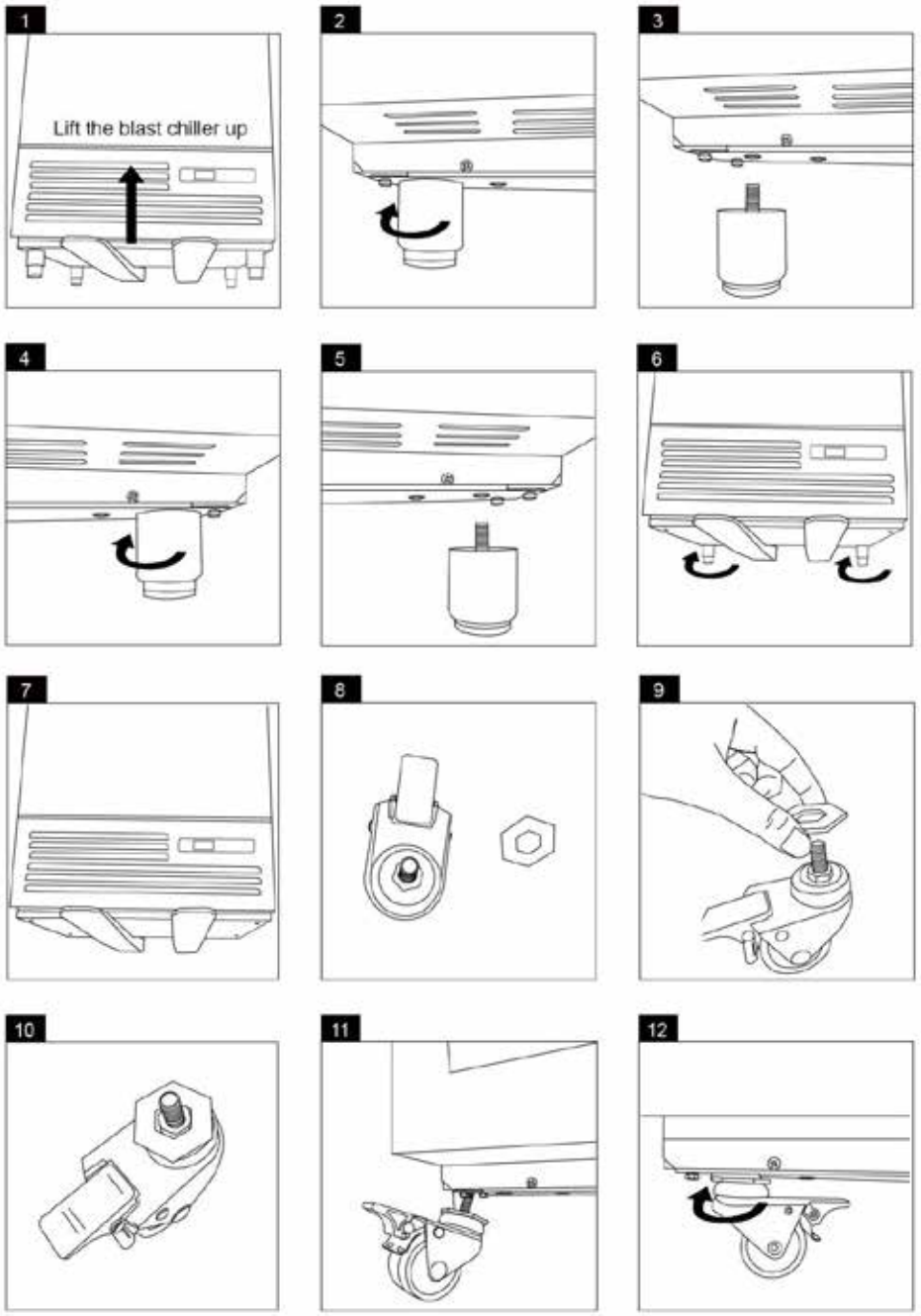
Optional Accessory

Four pieces of Castor

Positioning: Two castors with break to be fixed at the bottom front and two castors with no break to be fixed at the bottom rear.

Procedure: Follow the 12 steps below to change the footings to castors.

Note: If you intend to purchase optional accessories, please ask our sales staff for advice.

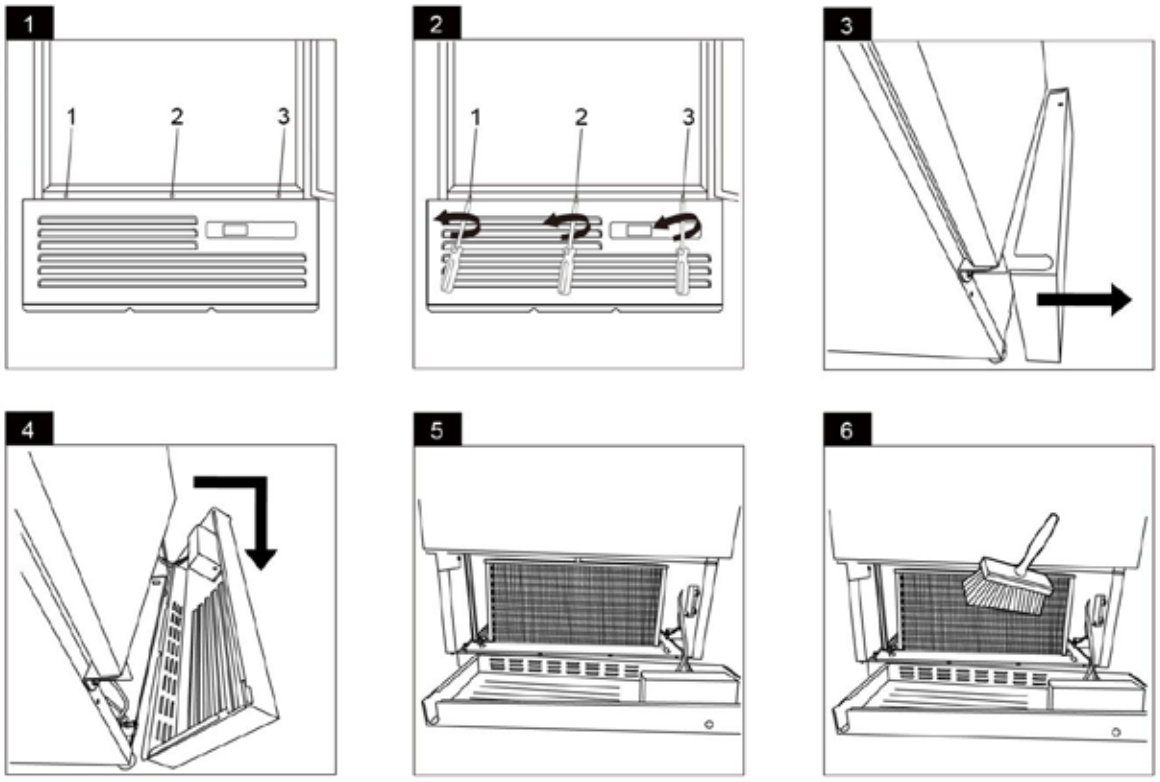


Caution:

- Unplug the appliance from main socket before change.
- Securing the fork lift before change.
- Securing all drawers, shelves, lids and doors before change.
- Empty the cabinet before change.
- Lock the brake on the caster after change.

Optional Accessory

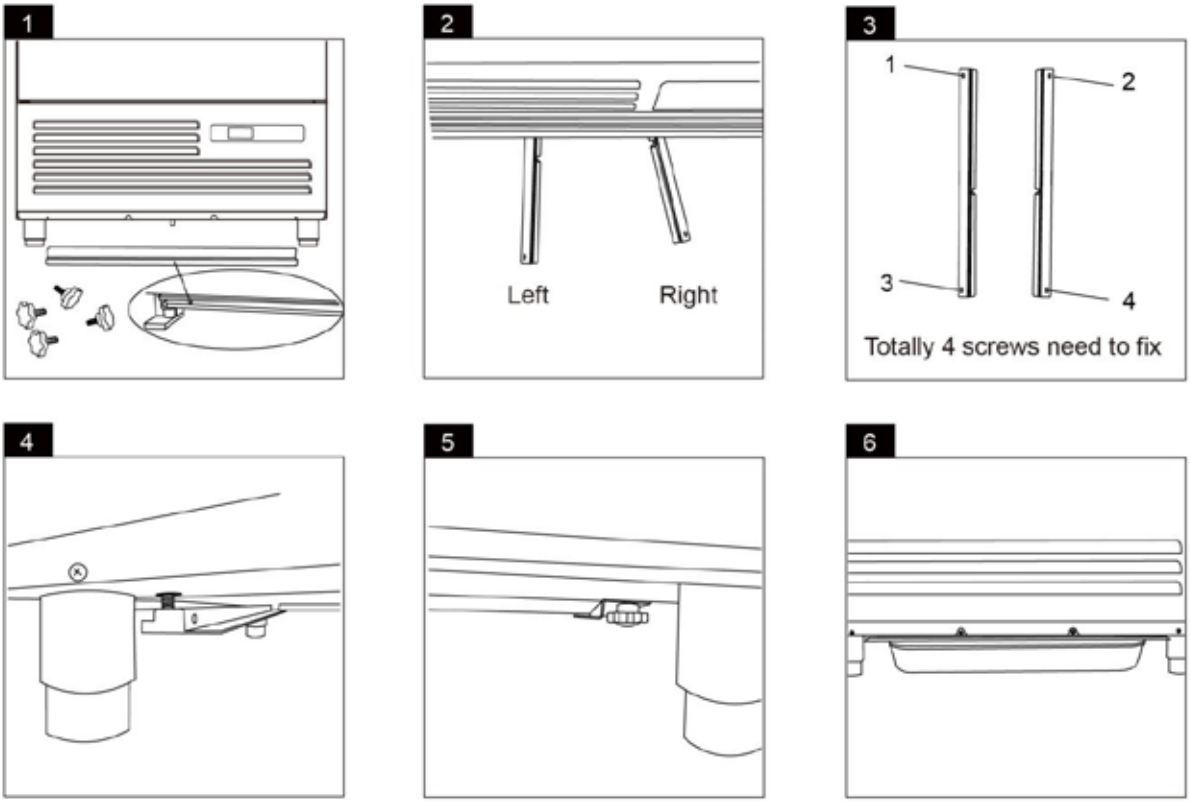
How to clean the condenser



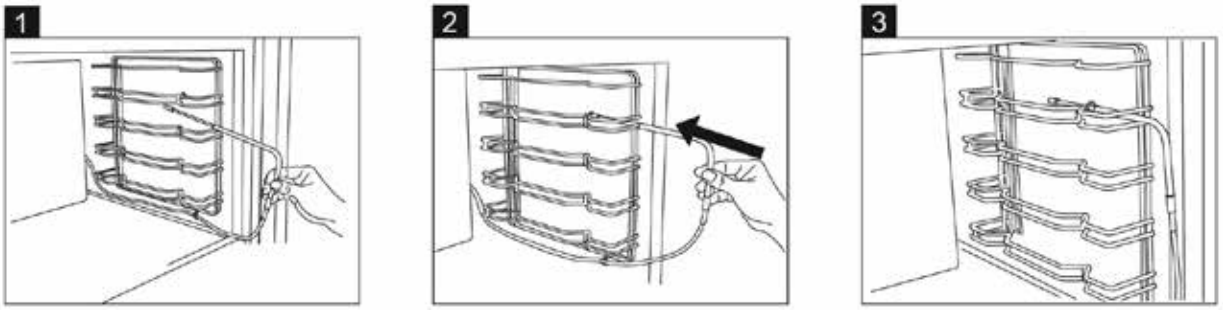
Note: These operation on the appliance should only be carried out by the customer service department or qualified technician due expose to live parts and risk of shock hazard.

Optional Accessory

How to assembly water tray (GN1/1 water tray not included in the assembly kit)

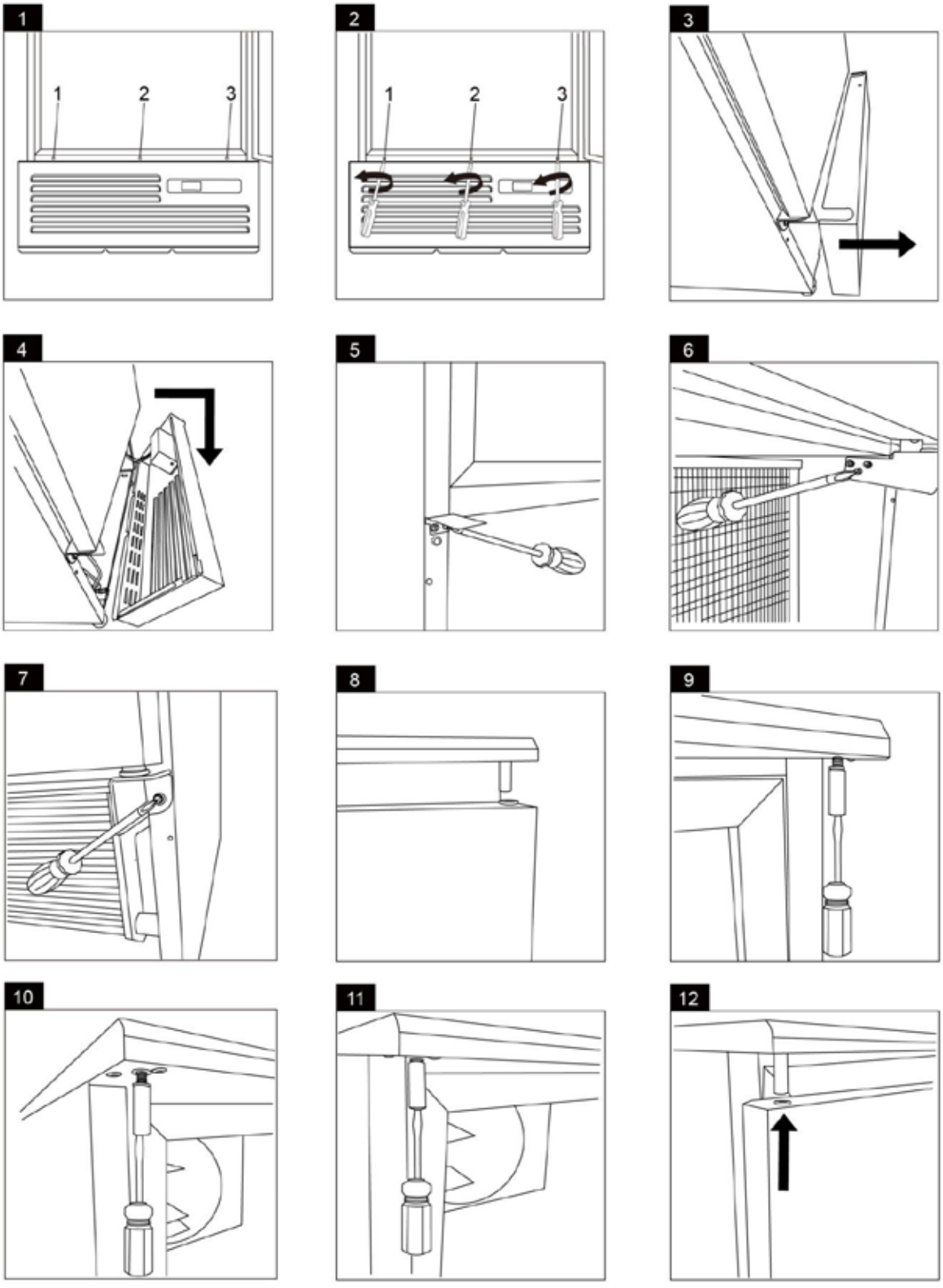


Where to store the needle probe meantime is not used



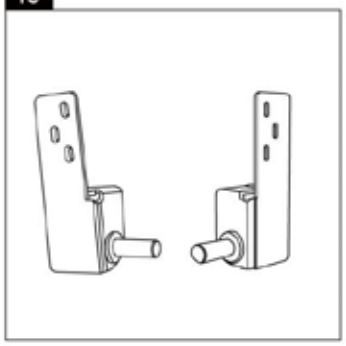
Optional Accessory

How to reverse the door



Optional Accessory

13



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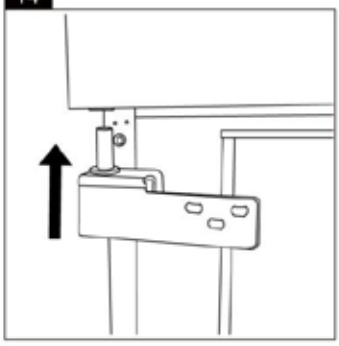

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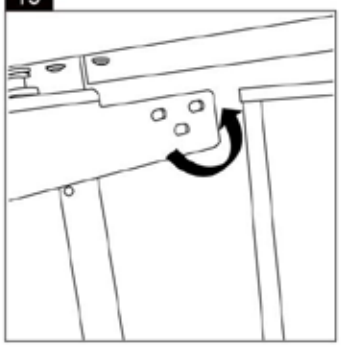

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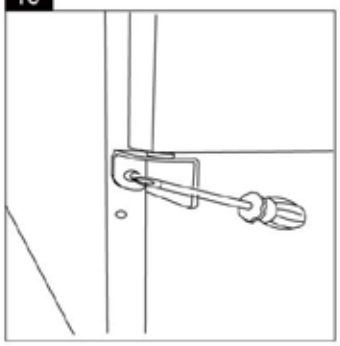

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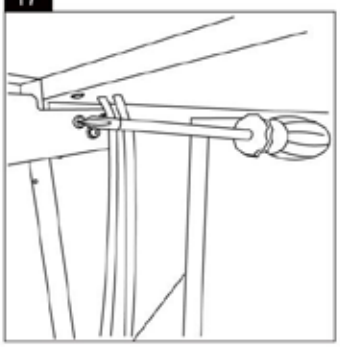

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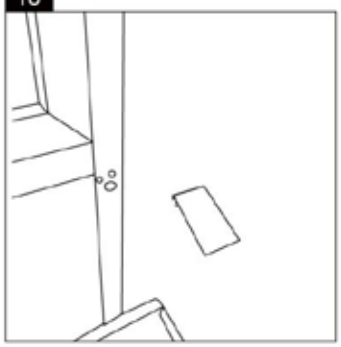

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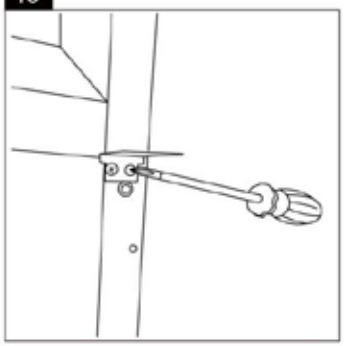

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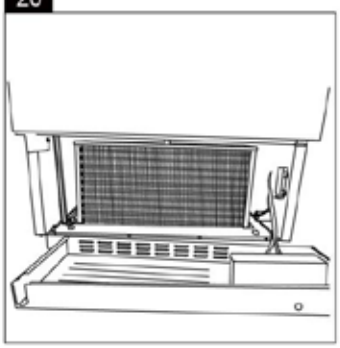

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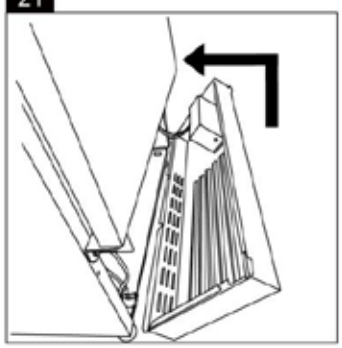

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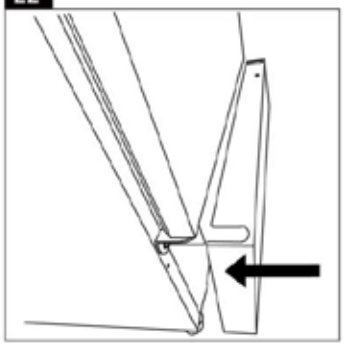

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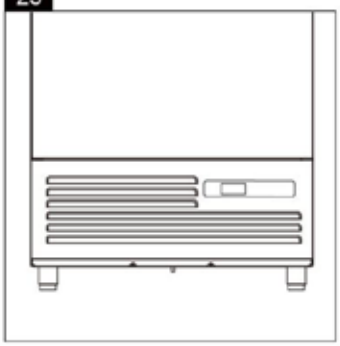


Troubleshooting

Fault	Potential Failure	Problem solving action
The appliance is not working	The unit is not switched on	Check the unit is plugged in correctly and switched on
	Plug and/ or lead are damaged	Call your agent or qualified technician
	Fuse in the plug has blown	Replace the fuse (UK Plug)
	Power supply	Check power supply
The appliance turns on, but the temperature is too high/ low	Too much ice on the evaporator	Defrost the appliance
	Condenser blocked with dust	Call your agent or qualified technician
	Doors are not shut properly	Check doors are shut and seals are not damaged
	Appliance is located near a heat source or air flow to the condenser is being interrupted	Move the refrigerator to a more suitable location
	Ambient temperature is too high	Increase ventilation or move appliance to a cooler position
	Unsuitable foodstuffs are being stored in the appliance	Remove any excessive hot foodstuffs or blockages to the fan
	Appliance is overloaded	Reduce the amount of food stored in the appliance
The appliance is unusually loud	Loose nut/ screw	Check and tighten all nuts and screws
	The appliance has not been installed in a level or stable position	Check installation position and change if necessary
The appliance is leaking water	The appliance is not properly leveled	Adjust the screw feet to level the appliance (if applicable)
	The discharge outlet is blocked	Clear the discharge outlet
	Movement of water to the drain is obstructed	Clear the floor of the appliance (if applicable)
	The water container is damaged	Call your agent or qualified Technician
	The drip tray is overflowing	Empty the drip tray (if applicable)
Alarm: **rPf**	Room probe failure	Probe connection are loose or not working, check thermostat connection Compressor output according to parameters **Con** and **Cof.**
Alarm: **2nf**	Neddle/Food/Insert probe failure	Probe connection are loose or not working, check thermostat connection
Alarm: **AH**	Maximum temperature alarm	Outputs unchanged. (manual reset)
Alarm: **LA**	Minimum temperature alarm	Outputs unchanged.
Alarm: **OCF**	The maximum cycle time has been exceeded	Outputs unchanged. In any case the cycle ends when the final temperature is reached (Manual reset)
Alarm: **dA**	Door open alarm	According the "**rrd**" to control fans and compressor
Alarm: **CPA**	Compressor Protection alarm	Outputs unchanged.

Disposal

If the appliance is no longer of use and you wish to dispose of it, remove doors to prevent any small child from be trapped inside. Then please do in an environmentally correct way.

Contact a qualified service technician:

1. To recover all Freon/refrigerant
2. To remove the compressor or remove the oil from the compressor
3. To remove the flammable insulation blowing gases

Then the distributor/ retailer can contact their local metal recycling center to pick up the remaining cabinet, shelves, etc.

There may be special requirements or conditions. You can obtain information on the disposal of refrigeration appliances from:

- Your supplier
- Government authorities (The local council, Ministry of the Environment, etc.)

By law, disposal of hazardous wastes may be subject to fines and imprisonment under the provisions of the environmental regulations.

1. The refrigerant of this unit is a hydrocarbon refrigerant and is covered by the Kyoto Protocol.
2. Releasing the refrigerant to the atmosphere will harm the environment by contributing to the global warming. The Global Warming Potential (GWP) of R134a is 1430, of R404a is 3922, of R600a/R290 is 3.

Disposal

Discarded electric appliances are recyclable and should not be discarded in the domestic waste! Please actively support us in conserving resources and protecting the environment by returning this appliance to the collection centres (if available).

Dispose of packaging in accordance to applicable legal regulations.

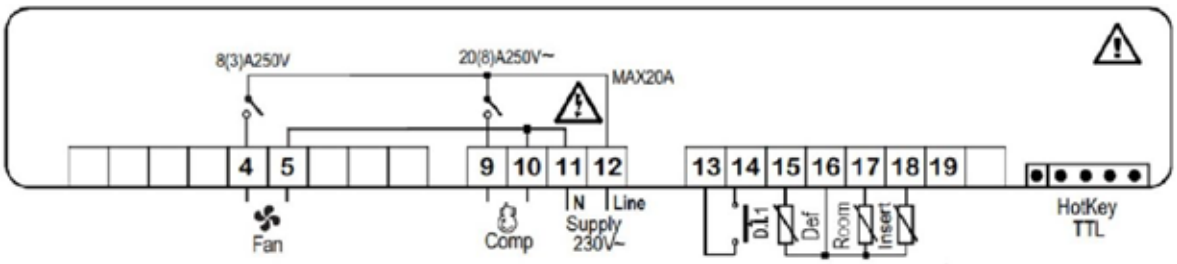
Technical data

Model	Blast Chiller (5 - 7 - 10 Trays)
Climate Class	Please refer to the information indicated on the product. You will find the information on the rating plate on the back of the unit. The circuit diagram is displayed on the back of the unit.
Temperature Range (°C)	
Refrigerant Gas	
Refrigerant Charge	
Rated Frequency	
Rated Voltage	
Rated Current	
Rated Power	
Lamp power	
Net Weight	
Net capacity (Kg)	
Shelf load (Kg)	
Foaming Agent	

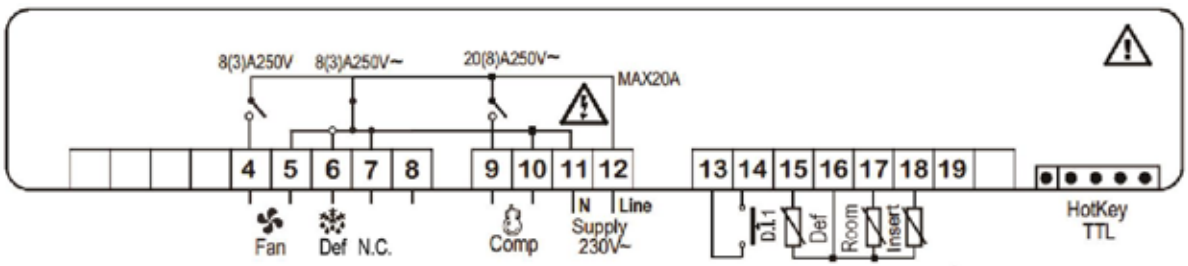
CAUTION: RISK OF FIRE AND EXPLOSION WITH FLAMMABLE REFRIGERANT R600a/R290.

Thermostat connection

Thermostat for blast chiller 5 – 7 Trays



Thermostat for blast chiller 10 Trays



Warranty

A statutory warranty applies for this product.
Damages caused by wrong treatment or operation, by false placement or storage, improper connection or installation, as well as force or other external influences are not covered by this warranty. We recommend careful reading of the operating instructions as it contains important information.

Note:

1. In case this product does not function correctly, please firstly check if there are other reasons, e.g. for electrical appliances interruption of the power supply, or generally incorrect handling are the cause.
2. Please note that, where possible, the following documents or rather information should be provided together with your faulty product:
    - Purchase receipt
    - Model description/ Type/ Brand
    - Describe the fault and problem as detailed as possible

In the case of a claim for guarantee or defects, please contact the seller.

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