

## **BAKER SF 900 / SF 900plus**



User manual

**When installing this appliance, it is of great importance to make sure that the size of the room, where the cabinet is to be installed, is being taken into consideration, in order to comply with safety regulations. For further explanation look under “Location”.**



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## ENGLISH

Thank you for choosing a quality product from Gram Scientific.

This manual will advise you how to install, use and maintain your new product.

Before our products leave the factory, they undergo a full function and quality test.

Should you nevertheless experience problems with the product, then contact your local dealer. Gram Scientific representatives and dealers placed all over the world are ready to help you.

Please refer to your dealer for information about the warranty coverage of your new product.

Any warranty is subject to correct use according to specifications in this user manual, where e.g. common maintenance and eventual repairs are carried out by authorized technicians with proper knowledge of the product and only using original spare parts.

Changes in installation and other use of the product than prescribed in this manual, might affect the operation and durability of the product.

The manual is written according to our current technical knowledge. We constantly work on updating this information, and we reserve the right to make technical changes.

### Intended use

This product is designed for chilling or freezing of bakery products but not for the display to or access by customers.

The product is only to be used for the purpose for which it has been expressly designed. Any other use could cause that the products stored in the appliance are not kept at the right temperature or even damage the product.

The product is not suited for storing blood plasma, laboratory samples, pharmaceuticals or similar substances.

The manufacturer will not be held liable or responsible for any damage caused by improper, incorrect or unreasonable use of the product.

## Safety information

### **Important**

Description of symbols used in this manual.



**Warning** Lacking observation to these instructions might result in accidents with personal injury.



**Important** If these instructions are not observed, the product might be damaged or destroyed.

Be aware that Gram Scientific has taken precautions to ensure that the safety of the product is in order.

### ***Please read carefully the following information regarding safety.***



It is important, that every person intended to use or install the product, does have access to this manual.



This appliance is not intended for use by persons 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.



Children should be supervised to ensure that they do not play with the appliance.



The appliance might contain parts with sharp edges in the compressor compartment, and in the inside compartment.



The appliance is not to be transported on a sack truck, there is a danger of losing the balance, causing danger to persons.



Prior to locking the cabinet door, it is crucial to inspect the inside of the cabinet in order to prevent confinement of persons.



Do not store explosive substances such as aerosol cans with a flammable propellant in the appliance.



Do not use electrical appliances inside the food storage compartment of the appliance.



Do not pull the power cord to disconnect the appliance, or when moving the appliance.

## Location

When receiving the product, check the packaging material for damage.

If any damage occurs at the packaging material, it should be considered if the product might have been damaged too. If the damage is substantial, please contact your dealer.

The transport pallet can be removed by loosening the screws that fasten the pallet to the product.



This task requires at least 2 persons. The heaviest part of the product is at the top. Be aware of this, when removing the transport pallet.

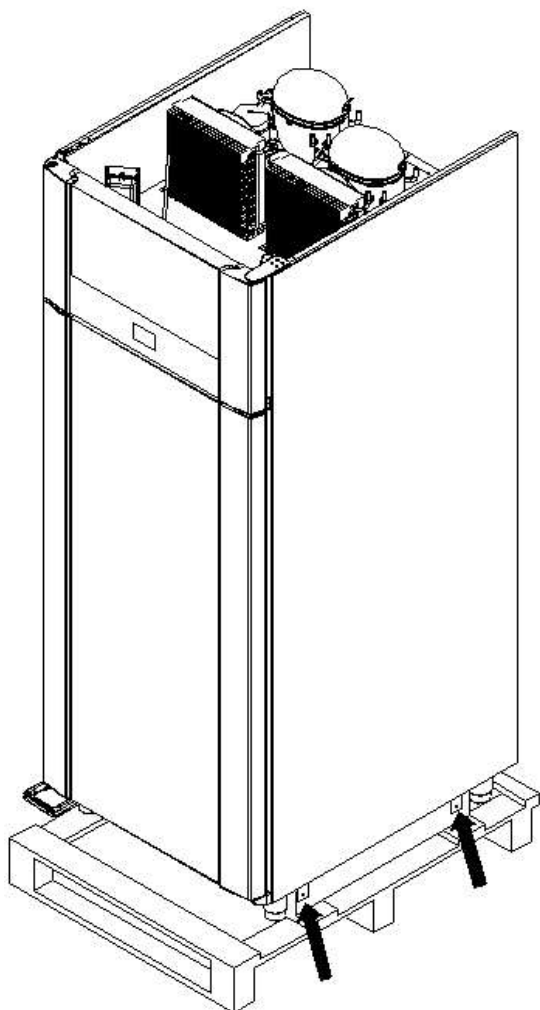
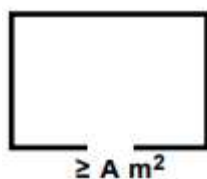


Fig.1



This appliance shall be installed in a room with a floor area not less than the marked minimum room floor area shown with a numeric value where the A is on the pictogram to the left of this text.

An example:

If the text below the square is:  $\geq 11 \text{ m}^2$  – It does mean that the room in which the appliance is to be placed must have a floor surface area of at least  $11 \text{ m}^2$ . The label indicating this minimum floor area size is positioned next to the name plate. (For positioning of the name plate see Fig. 7)

When installing / building in this product, it is imperative to ensure proper ventilation around the cabinet. In order to do so, the following demands must be met.



- Minimum free height above the cabinet 500 mm
- Minimum free space behind the cabinet 50 mm (distance created by the two distance pieces mounted on the back of the cabinet)
- Do not obstruct any ventilation openings in the appliance enclosure or in the structure for building in.



If the cabinet has been transported in horizontal position it must stand upright at least 2 hours before it is started to allow the oil from the compressor to run back.



Because of the heavy weight of the product, the floor might be damaged or scratched when moving the product.



Correct set up gives the most effective operation.

The product should be located in a dry and adequately ventilated room.



To ensure efficient operation, it may not be placed in direct sunlight or against heat-emitting surfaces. The product is designed to operate in an ambient temperature between +16°C and +40°C.



Avoid placement of the product in a chlorine/acid-containing environment (swimming bath etc.) due to risk of corrosion.



The product and parts of the interior is equipped with a protecting film, which should be removed before use.



Clean the product with a mild soap solution before use.

The set-up place must be level and horizontal.

For versions with legs, use the adjustable legs to make sure that the product stands level and upright.

For versions with castors, the locking devices of the two front castors must be activated, when the product is in place. The base must be level, and the product may not be placed on frames or the like.

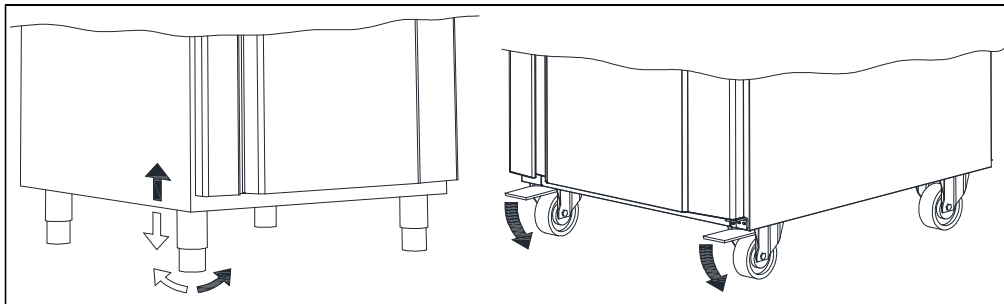


Fig. 2

## General description

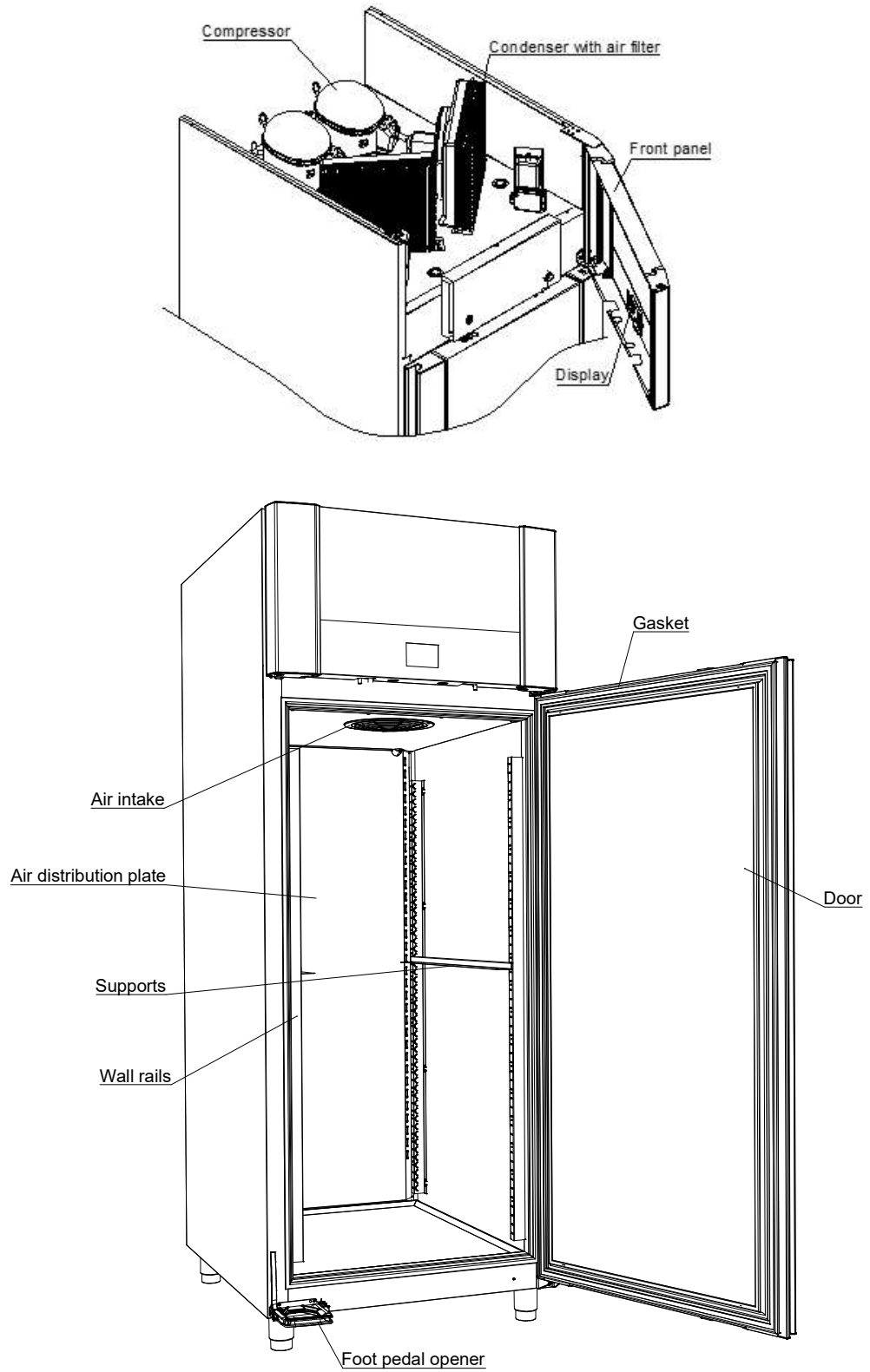


Fig. 3

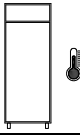


## Refrigerant / GWP value

	Refrigerant	Charge kg	GWP	CO <sub>2</sub> equivalent
BAKER SF 900 G	R290	2 x 0,232	3	1,392
BAKER SF 900plus G	R290	2 x 0,247	3	1,482

## Climate / temperature class

Products in this category are tested according to the following climate classes. Information about the climate class applicable for the different products can be found at the name plate (see fig.7)

Climate class	
3	25°C / 60 % RH
4	30°C / 55 % RH
5	40°C / 40 % RH

## Electrical connection

Read the text below thoroughly before electrical connection.



The product is intended for connection to alternating current. The connection voltage (V) and frequency (Hz) are shown on the name plate in the cabinet (see Fig. 7). Only the supplied cord is to be used.



Never use an extension cord for this appliance!  
If a wall socket is placed in a longer distance than the length of the supplied power cord, contact an electrician to establish a wall socket within the range of the supplied power cord.



If the product is defective, it must be examined by an authorized technician with proper knowledge of the product during the guarantee period, if it is a product with built-in compressor.

If it is a product connected to an external compressor unit, it must be examined by the company who has connected the product to the unit.

Outside the guarantee period, it is advisable to use the service advised by your dealer. If this is not the case, assistance is required from an authorized technician with proper knowledge of the product.

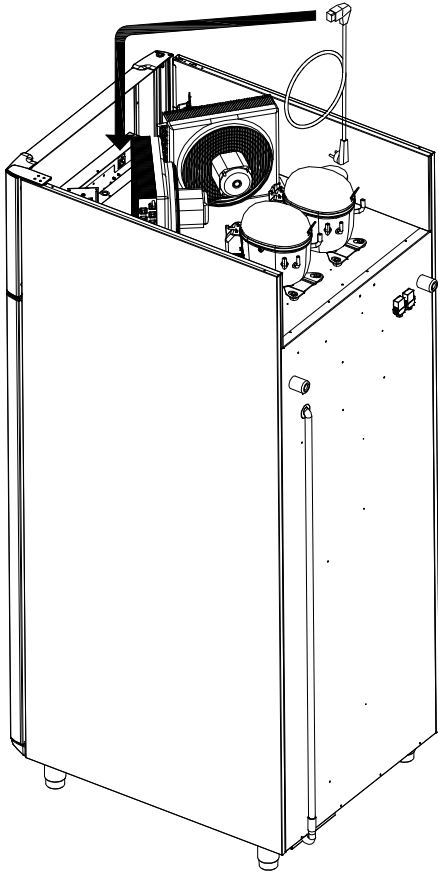


Fig. 4

Always disconnect the power if interruptions in power supply occur, and when electrical parts are removed/put on, and before cleaning and maintenance of the product.

Repairing of electrical/technical parts may only be performed by authorized technicians with proper knowledge of the product.

Do not use the product before all coverings are installed, so that live or rotating machine parts cannot be touched.

The product is not to be used outdoor.

All earthing requirements stipulated by the local electricity authorities must be observed. The plug and wall socket should then give correct earthing. If necessary, contact an electrician.



Make sure the product is switched off at the socket before service is performed on electrical parts. It is not sufficient to switch off the product by the START/STOP key as there will still be voltage to some electrical parts of the product.

## General use



Do not block vent holes in the front panel.



Do not damage the refrigeration system parts.



During normal operation, some parts of the refrigeration system in the compressor compartment might reach high temperatures and could therefore cause burns if touching these components.



Do not use electrical devices inside the product.



To ensure correct and efficient air flow in the cabinet, the shaded areas must be kept free of items. (see Fig. 5)



All items to be stored, that are not wrapped or packed, must be covered in order to avoid unnecessary corrosion of the inner parts of the cabinet.



If any controller parameters are changed from default, this could cause that the product is not functioning normally, and harmful temperatures could damage items that are kept inside the product.



If the product is turned off, wait minimum 3 minutes before turning it on again. This is to protect the compressor from damage



Maximum loading of wire shelf: 40 kg



Do not store explosive substances such as aerosol cans with flammable propellant in this appliance.

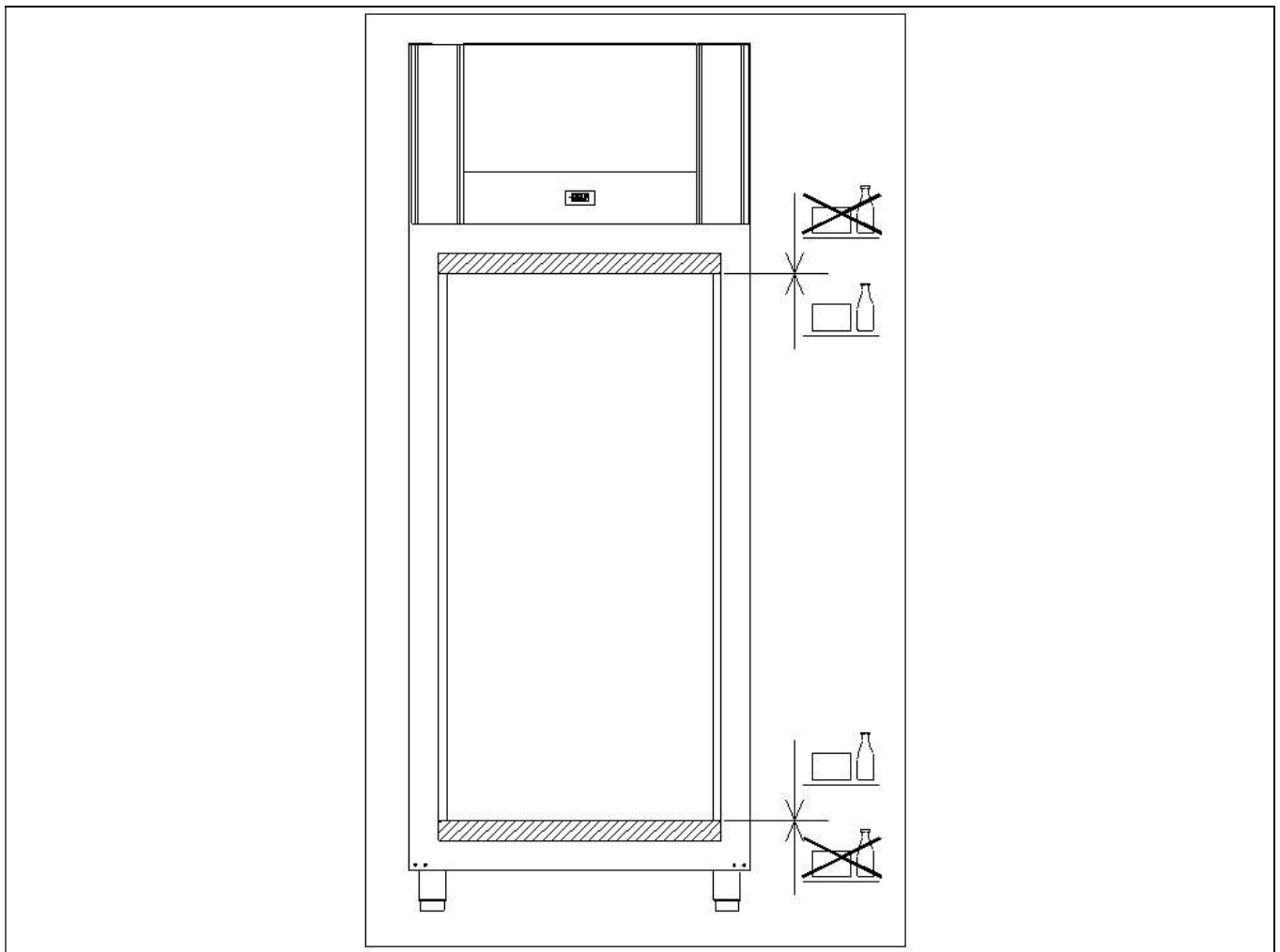
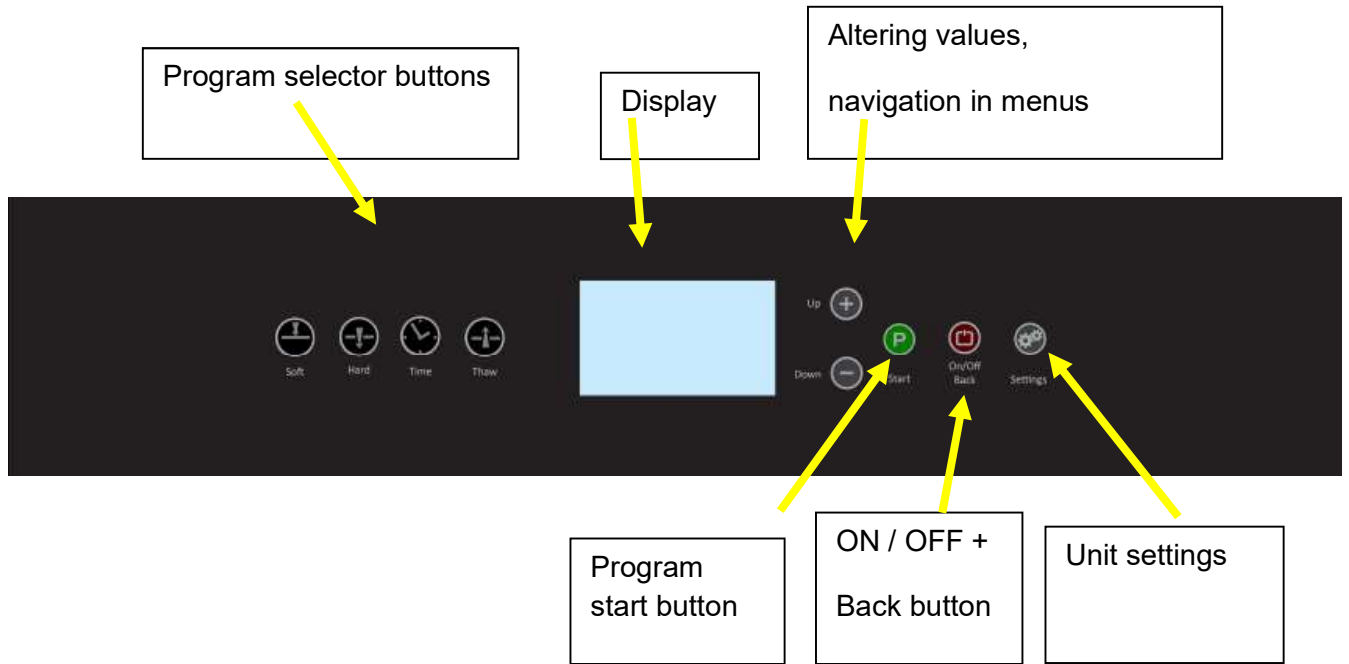


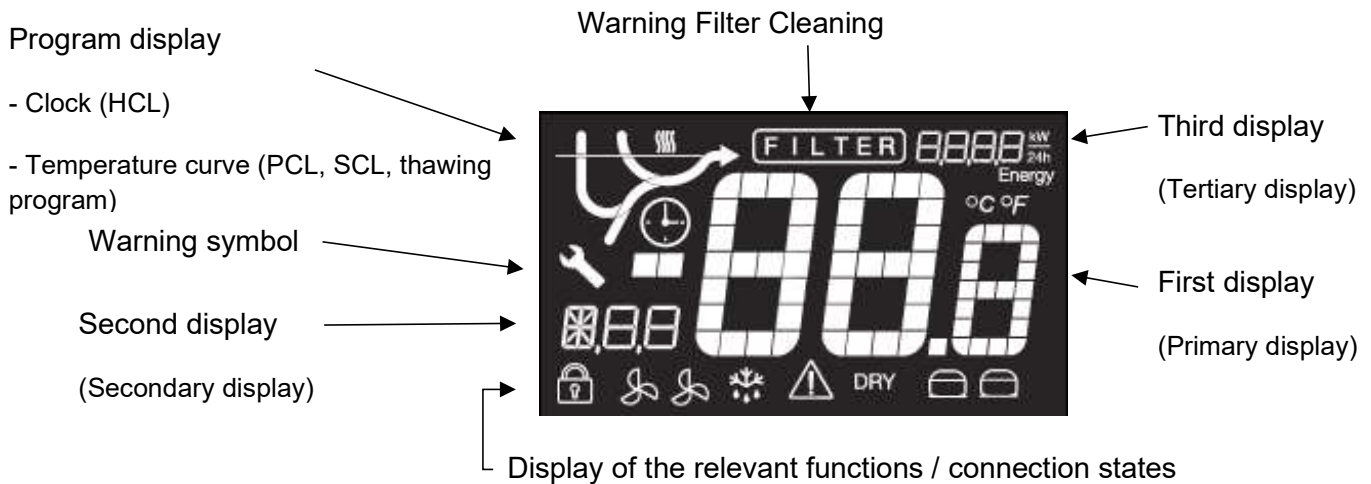
Fig. 5

# Commissioning

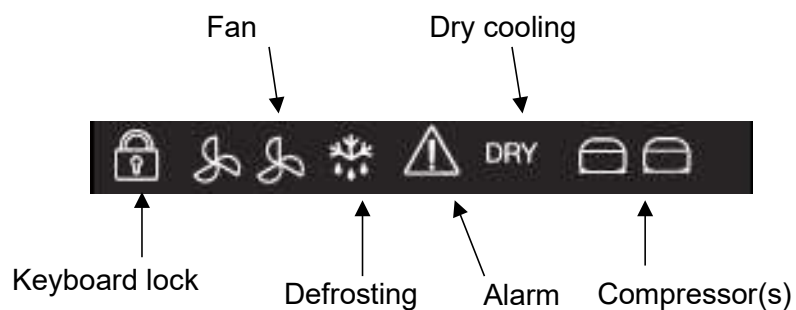
## Overview of the control panel:



## Overview of the display:



## Function bar:



Connect the cabinet to the mains.



Please note! During maintenance and repairs, it must be ensured that the unit has no voltage applied to it. So take the plug out of the socket, or shut off the power! It is NOT enough to switch the unit off with the START/STOP button, since the unit in such case still has the mains voltage applied to it.

## Connection, display and loading of the software



Switch the unit on with the on/off button

Once the unit has been connected up, all segments in the display will light up in white for approx. 3 seconds (display test).



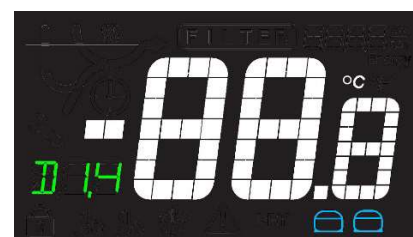
Subsequently, the selected program will be shown on the secondary display - "P07" in this case. The program "P07" controls 2 compressors. Hence both compressor symbols will light up in blue.



Afterwards, all used segments will be displayed in their respective colours. The secondary display will also show the software version - "4.0" in this case.



Finally, the secondary display will show yet another version number for the software. When this display ends, the unit is ready for operation, and the temperature is shown in the primary display.



## Initial defrosting of the evaporator (connection when the unit is cold)

If the unit is in use and it is cold in the room, the program starts with a defrosting cycle:

In connection with this, the display shows the temperature internally within the unit.

The defrosting symbol is lit up:



Do not use mechanical devices or other means to accelerate the defrosting process!

## Storage program (connection when the unit is warm)

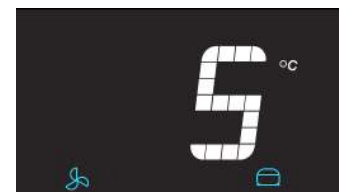
If the unit is started in a warm state (normal room temperature internally inside the unit), then it will immediately switch to the storage program

In connection with this, the display shows the temperature internally within the unit.

When the storage program has been activated, only one of the compressors will be working.

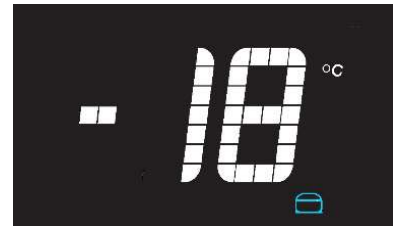
The fan will run at a low RPM figure (SF900plus).

Hence only one of the two compressor symbols will be lit. In addition, the symbol for the evaporator fan will be displayed.



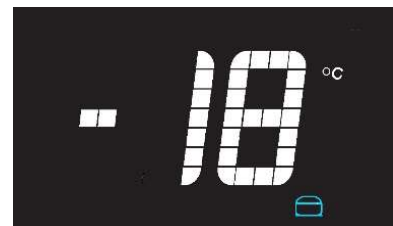
## Display of the setpoint (temperature setting) in the storage program

Press the **(P)** button, and hold it in.  
The display then shows the "desired value" and thereby the temperature setting.



## Setting of the setpoint (temperature setting) in the storage program

Press the **(P)** button, and hold it in. The display then shows the "desired value" and thereby the temperature setting. When the **(+)** or **(-)** button is lightly pressed (the **(P)** button continues to be held in), the value is increased or lowered.



When the **(P)** button is released, an auditory signal is issued and the value is saved. The display once again will show the internal temperature within the unit.







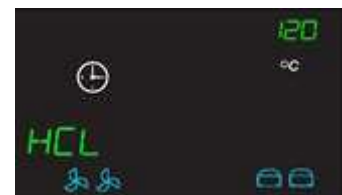
## Time-controlled cooling "HCL"






**This program is time-controlled only. The air temperature and the temperature of the contents of the cabinet are not taken into account. Both compressors perform the cooling in parallel. The second compressor starts 15 seconds after the first one. When the proper evaporator temperature is attained, the fan will be running audibly with a very high RPM figure (SF900plus).**

**The program is selected by pressing the button  :**

When the  button is pressed, it will stay lit continuously, and the ,  and  buttons will blink. The symbol for the clock will light up. The secondary display will show the program name "HCL" and the tertiary display the selected duration in minutes. The symbols for a high fan RPM figure and operation with 2 compressors will be blinking.

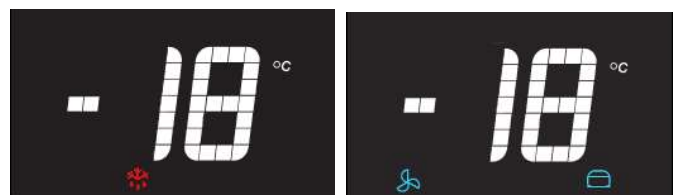


The  and  buttons are used to change the time, and  for starting the program.

While the program is running, the time will count down on the tertiary display. The primary display will show the current temperature inside the unit. In addition, the connected elements will now be continuously lit: both compressors, both fan symbols for a high fan RPM figure (SF900plus).



After the preset period of time expires, an acoustic signal is emitted. After the signal, defrosting is commenced (if such is required based upon the evaporator sensor's temperature). Then it subsequently switches to the storage program. Hence the desired value for the storage program must always be set and checked before starting "HCL"!










## Temperature-controlled cooling (Hard Chill)






**This program cools down to the selected, desired value at full motor power (controlled with the use of the extra sensor).**

**Both compressors perform the cooling in parallel. The second compressor starts 15 seconds after the first one. When the proper evaporator temperature is attained, the fan will be running audibly with a very high RPM figure (SF900plus).**

**The program is selected by pressing the button :**

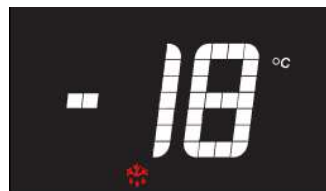
After pressing the  button, it will be lit continuously. The ,  and  buttons will be blinking. The curve symbol for Hard Chill will light up. The secondary display shows the program name "PCL", and the tertiary display the selected, desired temperature value.

The  and  buttons are used to change the desired value, and  for starting the program.

The primary display will now show the current temperature in the room, the secondary display the program name "PCL" and the tertiary display the selected, desired temperature value. The curve symbol is now continuously displayed. In addition, the connected elements will now be continuously lit: both compressors, both fan symbols for a high fan RPM figure (SF900plus).



When the desired value is attained, an acoustic signal will be emitted. After the signal, defrosting is commenced (if such is required based upon the evaporator sensor's temperature). Then it subsequently switches to the storage program. Hence the desired value for the storage program must always be set and checked before starting "PCL"!










## Temperature-controlled cooling (Soft Chill)



This program gently cools down to the selected, desired value (controlled using room sensor).

Both compressors perform the cooling in parallel. The second compressor starts 15 seconds after the first one. The fan runs at a high RPM figure (SF900plus). The program is started by pressing the button .

**Temperature changes with Soft Chill:** The program is governed solely by the room sensor. The air temperature and goods being chilled are thus taken into account. The elapsed time has no effect on the course of the program. The cooling system works with start/stop cycles with a gradient up to the preset storage temperature. The process stops as soon as the temperature value reaches 0 °C, and the controls switch to the storage program.

After pressing the  button, it will be lit continuously. The ,  and  buttons will be blinking. The curve symbol for Soft Chill will light up. The secondary display shows the program name "SCL", and the tertiary display the selected, desired temperature value. The  and  buttons are used to change the desired value, and  for starting the program. The primary display will now show the current temperature in the room, the secondary display the program name "PCL" and the tertiary display the selected, desired temperature value. The curve symbol is now continuously displayed. In addition, the connected elements will now be continuously lit: both compressors, both fan symbols for a high fan RPM figure (SF900plus).



When the desired value is attained, an acoustic signal will be emitted. After the signal, defrosting is commenced (if such is required based upon the evaporator sensor's temperature). Then it subsequently switches to the storage program. Hence the desired value for the storage program must always be set and checked before starting "SCL"!



## Thawing program



In connection with thawing, a defrosting heating element is used, which is governed by the temperature that the room sensor measures. The thawing program is only able to start when the desired temperature value is set to between +2°C and +8°C.

The program is started by pressing the button



starts the function.



When the desired value is attained, an acoustic signal will be emitted. After the signal, defrosting is commenced (if such is required based upon the evaporator sensor's temperature). Afterwards, the storage program is switched to.



## Manual defrosting of the evaporator

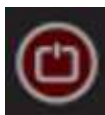


Manual defrosting is only possible as initial defrosting:

Start a program: Press on



(wait for 10 seconds).



Press on in order to end/interrupt the program again. This then causes defrosting to be commenced



Do not use mechanical devices or other means to accelerate the defrosting process!

## Automatic defrosting of the evaporator



The unit performs automatic defrosting 1 to 8 times daily, when the "PCL", "HCL" and "SCL" programs have finished. Defrosting cannot be concluded manually! In connection with this, the internal temperature inside the unit is shown before the defrosting process commences.

## The user menu






The user menu is opened by pressing the  button for approx. 3 seconds.

Navigate through the menu using the using the  $\oplus$  and  $\ominus$  buttons, after which the selected menu item is opened with the button  $\textcircled{P}$ . The  $\oplus$  and  $\ominus$  buttons increase or decrease the value. They are also used to navigate around in the submenu ("LAL"). The manner of procedure is the same in the submenu. Altered values are saved by pressing on  $\textcircled{P}$  (receipt acoustic signal!). Exiting menu items or the menu are done by pressing  $\textcircled{\square}$ .

Menu item	Description	Settings range	Factory setting
<b>DC</b>	Dry cooling function *	Activation: "ON" Deactivation: "OFF"	OFF
<b>LAL</b>	<b>Local alarm (display)</b>		
<b>LHL</b>	upper boundary value for LAL	+25 ... -35 °C	+25 °C
<b>LHd</b>	Delay for LHL	1 ... 120 min / in steps of 5 minutes	60 min
<b>DA</b>	Door alarm	0 = off / 1 = on	1
<b>Dad</b>	Delay for door alarm	0 ... 15 min	1
<b>BU</b>	Acoustic alarm for LAL	0 = off / 1 = on	1
<b>CAL</b>	<b>Temperature offset (sensor harmonisation)</b>		
<b>CA</b>	Temperature offset sensor input A (room sensor)	-5 ... +5 K / steps of 0.5 K	0.0 K
<b>CE</b>	Temperature offset sensor input A (room sensor)	-5 ... +5 K / steps of 0.5 K	0.0 K
<b>ALL</b>	Relative (escorted) or absolute (fixed) alarm limits	ESC = escorted / FAS = fixed	FAS
<b>DEF</b>	Number of defrosting cycles for each 24 hours	0 ... 8	4

## Dry cooling

<b>DRY</b>	<p>Dry cooling function may only be selected via the user menu. The user menu is opened by pressing the button  for approx. 3 seconds. The function can now be switched in or out under the DC menu item, saved with , after which the menu is exited with .</p>
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Menu item	Description	Settings range	Factory setting
DC	Dry cooling function *	Activation : "ON" Deactivation: "OFF"	OFF

## Alarm and error messages on the display

Display	Explanation
OP	The door is open (or the door switch is closed in another manner).
A1	Door alarm "dA" was activated.
A2	Local alarm, maximum value was activated (LHL)
F1	Room temperature sensor is defective. The sensor must be replaced by the service department. The cabinet will still approximately maintain the preset temperature with the use of an emergency program.
F2	If "F2" is shown, the evaporator sensor is defective, or there is extreme icing up of the evaporator. Initially, the unit must be completely defrosted one single time (disconnected, after which the cabinet must stand with an open door for 24 hours), <b><u>Important - condensation container under the unit may run over in connection with this!</u></b> . If the fault subsequently continues to be displayed, then the service department must replace the sensor as quickly as possible. The pre-set temperature will continue to be maintained, and the defrosting phase will occur gradually without temperature restrictions.

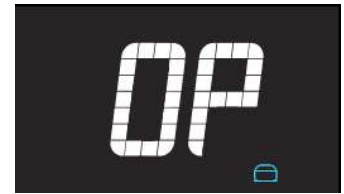
Display	Explanation
<b>F3*</b>	If "F3" is displayed, there are problems with the condensation sensor. This sensor only protects against overheating, and it has no influence on the temperature regulation in the cabinet. It ought however to be replaced as quickly as possible, so the protection against overheating is re-established
<b>F4*</b>	Faults in the second condensation sensor in connection with units with two cooling motors (see fault message "F3").
<b>F5</b>	Fault in the temperature sensor for PCL (hard chill). The sensor must be replaced, contact the service department. Affects only hard chill
<b>F7*</b>	Overheating of condenser or undercooling, filter mats or condenser fins plugged up, fan defective, ambient temperature too high or low (unit not in operation with ambient temperature of under +16°C)
*does not apply for models with external cooling motors	

## Deleting alarm messages


<b>A1</b>	The A1 alarm is deleted by pressing the button  . The door must be closed first
<b>A2</b>	The A2 alarm is deleted by pressing the button  . The temperature in the cabinet must first be under the desired maximum temperature (25°C Default)

## Door monitoring

When the door is opened, "OP" is shown in the primary display.



An acoustic signal is emitted, and the "A1" message is shown on the secondary display, if the door at a minimum is open in "Dad", and "BU" is connected.

The acoustic alarm is deleted by pressing . The alarm indicator only or first shuts off once the door has also been closed.



## Cleaning the condenser filter

### Reminder of cleaning the condenser air filter:



After 600 compressor running hours the filter must be cleaned and it is indicated by warning lights:



If the cleaning is not completed within 650 hours, the warnings continue, and an acoustic alarm does sound.

### Resetting the FILTER alarm after cleaning the condenser filter:

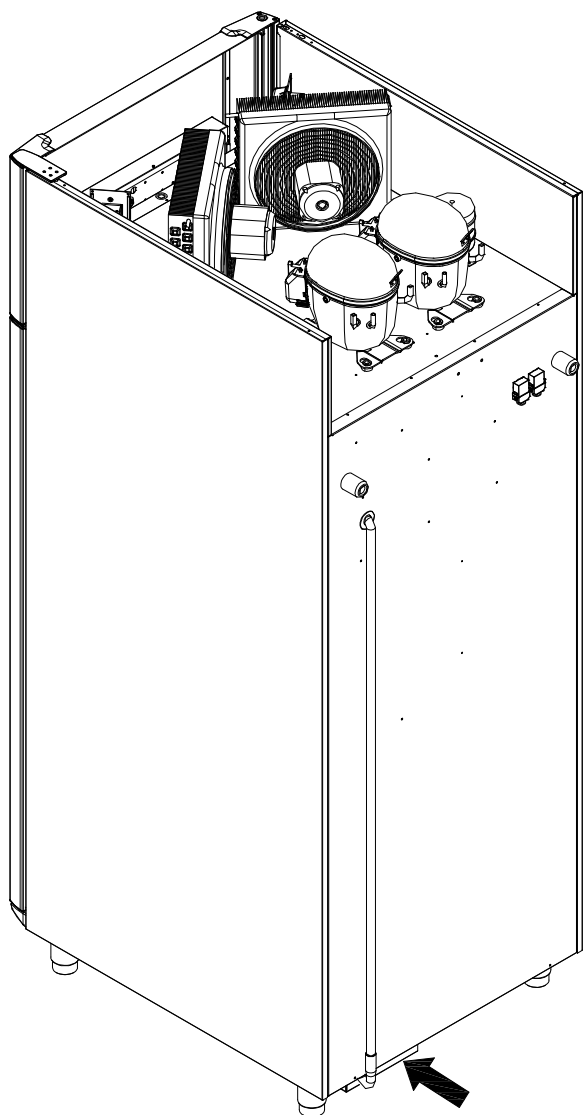
After cleaning the air filter, the controller must be reset to remove the alarms. It can only be reset by using a certain key combination.

- Push  three times followed by pushing  three times. **FILTER** alarm lights green and will disappear after 1 minute.

## Defrost water

The appliance produces water during defrosting, which is led into a tray under the product.

An electrical heating element, placed in the tray, re-evaporates the water.



It is recommended to clean the tray and corresponding parts at least once a year. Remember to disconnect the cabinet before cleaning. Be careful not to damage the heating element during cleaning.



## Door closing mechanism

The door is equipped with a self-closing system. If the door is opened less than 90°, it will close by itself. If the door is opened more than 90°, it will stay open.

The door can be opened by using the pedal door opener. This leaves both hands free for placing foodstuff inside the cabinet.

## Power failure

In the event of a power failure, the control remembers the temperature setting and restarts the product when power is restored. If the power failure persists for some time, the control might revert to the factory setting.

## Cleaning

Insufficient cleaning will cause that the product will not work at optimum performance, or eventually it will be defective.



Before cleaning, the product should always be disconnected.



Do not flush the product with water, do not use water jet or steam hose as this may cause short-circuits in the electrical system.



Cleansing agents containing chlorine or compounds of chlorine as well as other corrosive means, **are not to be used**, as they might cause corrosion to the stainless panels of the cabinet and the evaporator.



The compressor compartment and in particular the condenser must be kept free from dust and dirt. This is best done by cleaning the compressor compartment and the condenser air filter with a vacuum cleaner, if dust/flour is the matter. The air filters on the two condensers can be removed and cleaned in hot water (at max. 50°C).



For the external maintenance – use stainless steel polish.



The product should be cleaned internally with a mild soap solution at suitable intervals and checked thoroughly before it is put into operation again.

## Door gaskets

This chapter deals with the importance of a well-functioning door gasket.

Gaskets are an important part of a refrigerator/freezer. Gaskets with reduced functionality, reduces the tightness of the cabinet. Reduced tightness might cause increased humidity, internal icing, an iced-up evaporator (leading to reduced refrigeration capacity), and in worst case reduced lifecycle of the cabinet.



Therefore, it is important to be aware of the condition of the gasket. Regular inspection is recommended.

The gasket should be cleaned regularly with a mild soap solution.

If a gasket needs replacement, contact your supplier.

## Long term storage

If the product is taken out of operation, and need to be prepared for long-term storage, clean the inside compartment, the door and door gasket thoroughly with a hot soapy damp cloth.

Eventual remnants of food could create mold.

## Service

The refrigerating system and the hermetically sealed compressor require no maintenance - they merely must be kept clean.

If refrigeration fails, first investigate whether the unit has been unintentionally disconnected or switched off at the socket, or whether a fuse has blown.

If it is not possible to find the cause of the refrigeration failure, please contact your dealer.



When ordering service for the appliance it is of great importance to make sure that the service technician is qualified to carry out the job. A qualified person does have the appropriate technical training and experience necessary to be aware of hazards to which he or she is exposed in performing a task and of measures necessary to minimize the danger to themselves and other persons.

When reporting a malfunction please state the type and serial number (S/N) of the cabinet. This information is found on the name plate, see Fig. 7.

Location of the name plate:

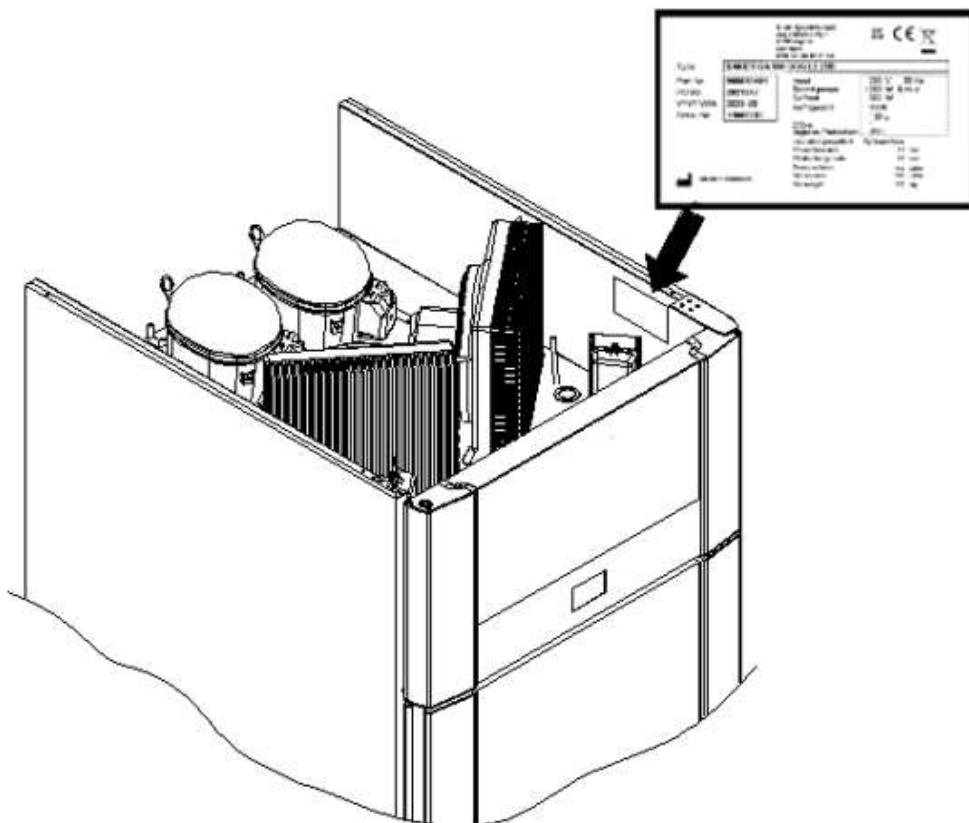



Fig.7

## Disposal

 Because the cabinet insulation material of this appliance has been foamed using an environmentally friendly foaming propellant Cyclo-pentane (C<sub>5</sub>H<sub>10</sub>), which at the same time is a flammable gas, this must be taken into consideration when disposing this product. This fact is the reason why there is a yellow label (shown below), on the appliance, stating the chemical composition of cyclo-pentane (C<sub>5</sub>H<sub>10</sub>), just next to the product name plate.



The other thing which must be taken into consideration when disposing this product is the fact that the refrigerant used in this system is Propane (R290), which is also a flammable gas. This is also stated on the appliance by using the “risk of fire / flammable material” triangle which is on the compressor as well as on the above label.

Electrical and electronic equipment (EEE) contains materials, components and substances that can be dangerous and harmful to human health and the environment if the waste (WEEE) is not disposed of properly.

Products that are labelled with a “crossed-out wheelie bin” is considered electric and electronic equipment. The crossed-out wheelie bin symbolizes that waste of this type cannot be disposed of with unsorted municipal waste but must be collected separately.

Contact your local dealer when the product needs to be disposed of.

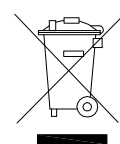
Please be aware of not damaging the refrigeration system and piping when a product is taken out of use. This will prevent the uncontrolled escape of the refrigerant from the refrigeration system.

### ***The below only concerns the United Kingdom.***

Disposal of an old cabinet is only available when we are delivering a new one at the same time. Cabinets must be fully defrosted and emptied prior to collection.

Gram Scientific recognises that our products for the catering market are considered as WEEE when they become obsolete. To ensure that Gram Scientific’s responsibilities are handled correctly and environmentally friendly, we are signed up the largest Business to Business compliance scheme in the UK – B2B Compliance  
<http://www.b2bcompliance.org.uk>

B2B Compliance will on our behalf deal with all areas of our responsibilities when collecting and disposing of equipment which fall under the UK WEEE regulations. B2B Compliance can be contacted on telephone number 01691 676124.



# EC-Declaration of conformity

**Producer**                    Name:                    Gram Scientific ApS. (CVR No. 43122193)  
                                      Address:                Aage Grams Vej 1, 6500 Vojens  
  
                                      Tel.:                    0045 73 20 12 00

**Product**                    Model:                Baker SF900, Baker SF900plus  
  
                                      Refrigerant:        R290  
  
                                      Year:                 2023

**Directives**                The product is in compliance with all the essential health- and safety requirements and provisions in:

**Directive for Machinery 2006/42/EF**

The product is where relevant in compliance with the following other directives:

**Design of energy related products 2009/125/EF**

**Regulation 2015/1095**

**Energy labelling directive 2010/30/EU**

**FCM regulation 10/2011**

**Regulation 1935/2004**

**RoHS 2 - 2011/65/EU**

**RoHS 3 - (EU) 2015/863**

**Standards**                The following standards are used to the extent necessary to comply with the relevant directives:

**DS/EN 12100:2011** - Safety of machinery -- General principles for design -- Risk assessment and risk reduction

**DS/EN 60335-1:2012** – Household and similar electrical appliances. Safety. General requirements

**DS/EN 60335-2-89:2010** – Household and similar electrical appliances. Safety. Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor

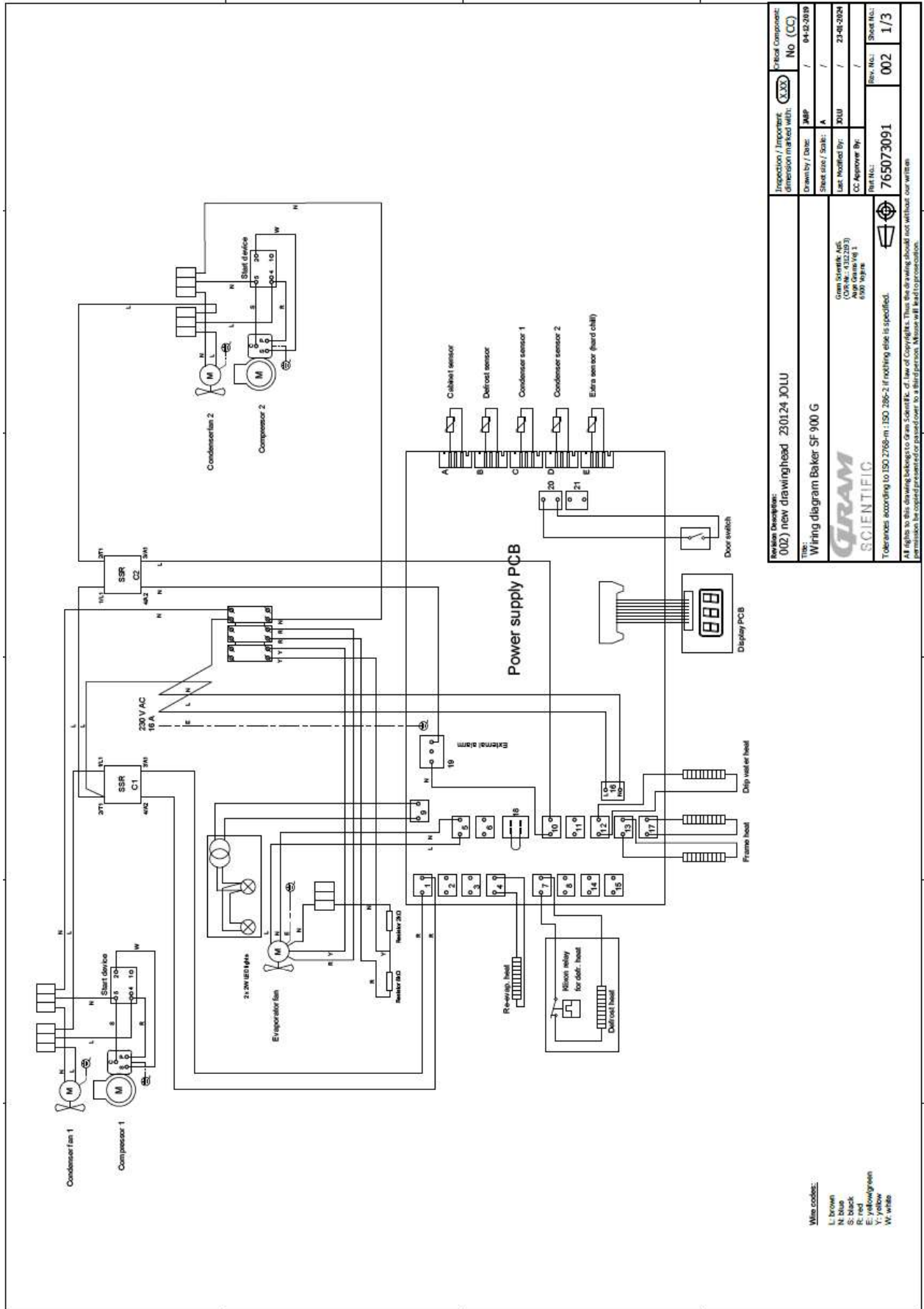
**IEC 60335-2-89 Edition 3 2019-06** – Household and similar electrical appliances – Safety – Part 2-89: Particular requirements for commercial refrigerating appliances and ice-makers with an incorporated or remote refrigerant unit or motor-compressor

**Person responsible for technical dossier**                    Company:                Gram Scientific ApS. (CVR No. 43122193)  
                                      Address:                Aage Grams Vej 1  
                                      Name:                  John Lund

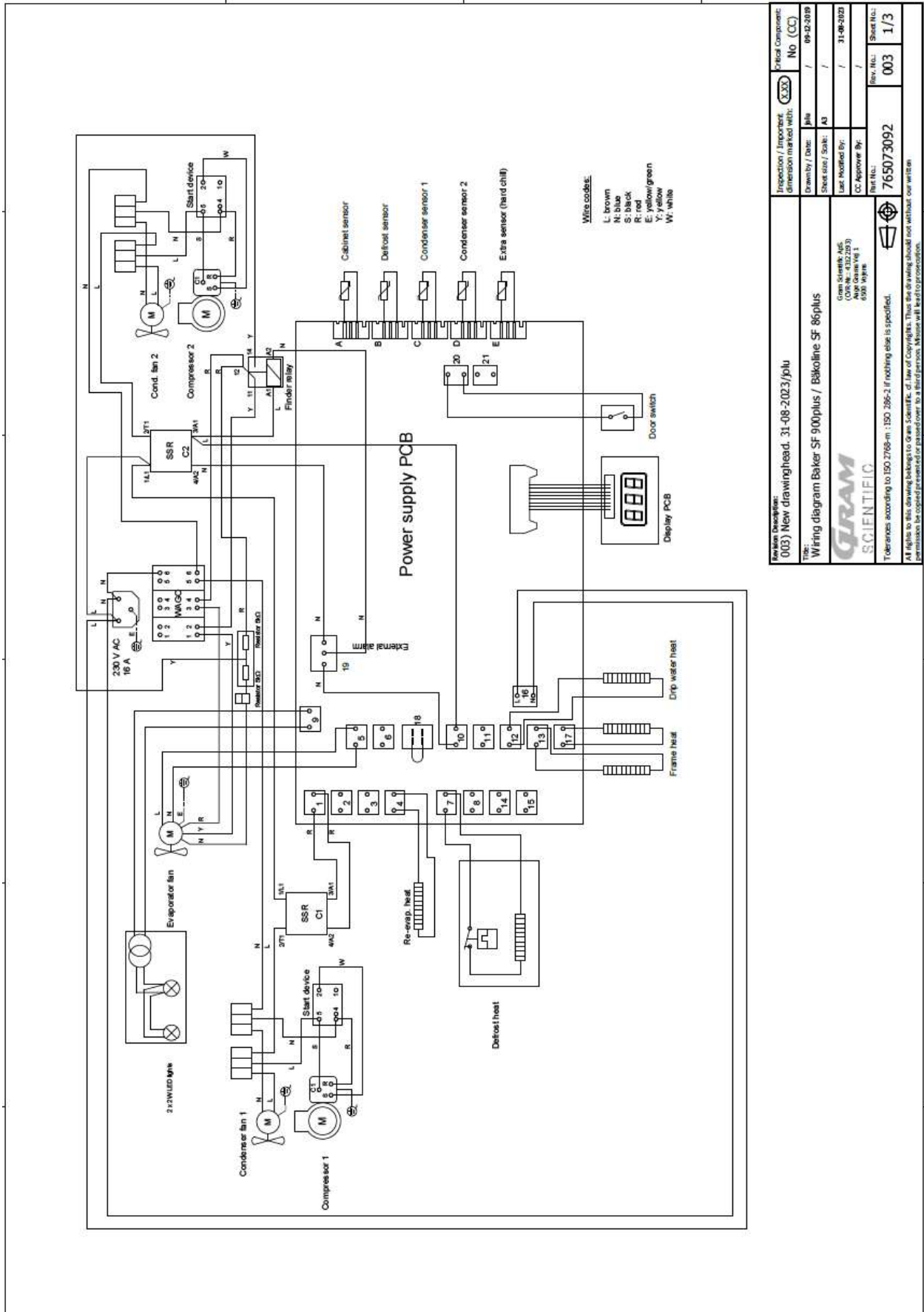
**Signature**                Vojens 23/01-2024                    R&D Manager



# Wiring diagram SF 900 G

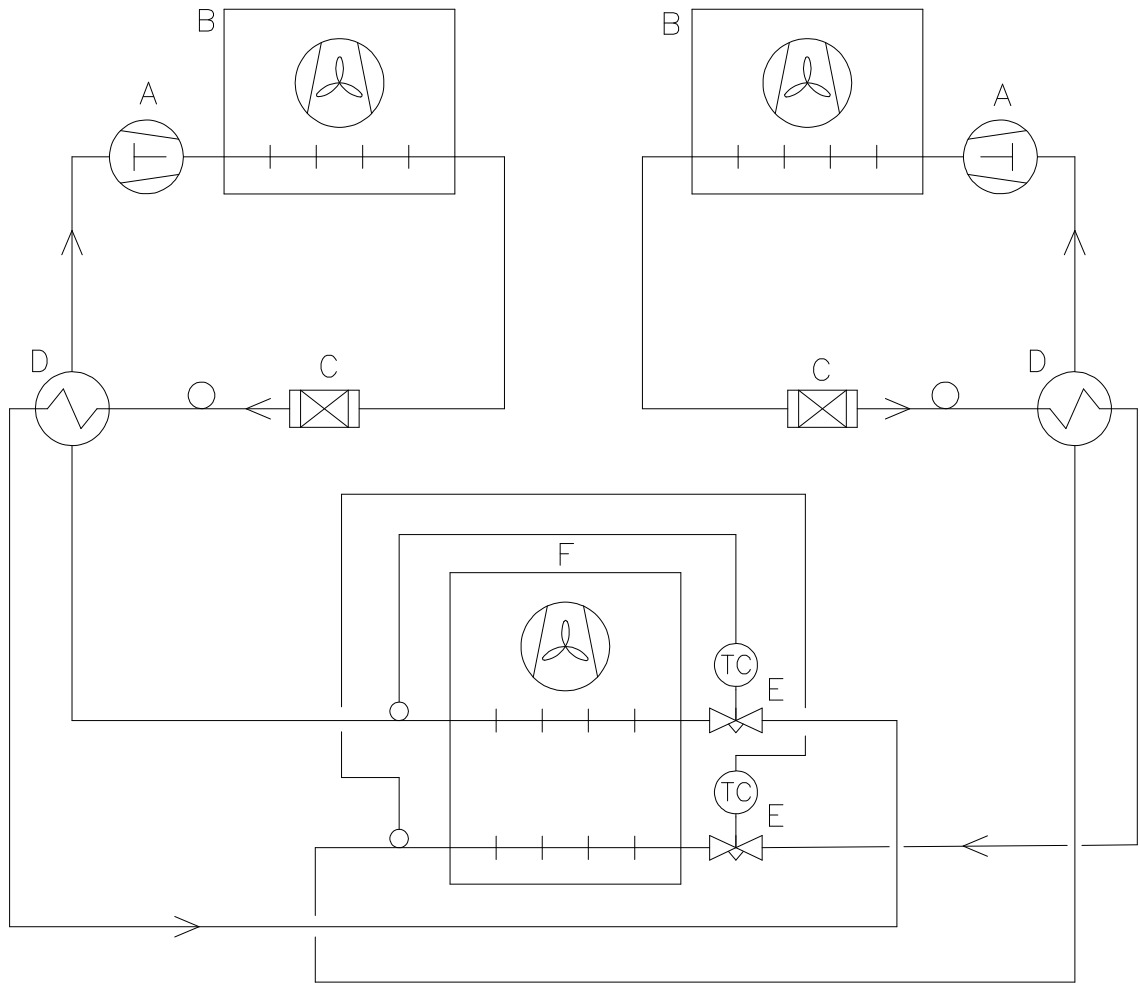


# Wiring diagram SF 900plus G



<b>Revision Description:</b> 003) New drawinghead. 31-08-2023/plu		<b>Inspection / Important:</b> dimension marked with: <span style="border: 1px solid black; border-radius: 50%; padding: 2px;">XXX</span>	<b>Print Component:</b> No. (CC)
<b>Title:</b> Wiring diagram Baker SF 900plus / Bakoline SF 86plus	<b>Drawn by / date:</b> jlu / 09-12-2019	<b>Sheet size / Scale:</b> A4 /	<b>Rev. No. /</b> /
Gram Scientific AGS Alpinstr. 10 6000 Wetzlar	<b>Last Modified By:</b> /	<b>CC-Approve By:</b> /	<b>Sheet No. /</b> /
Tolerances according to ISO 2768-m : ISO 286-2, if nothing else is specified.	<b>Part No.:</b> 765073092	<b>Rev. No.:</b> 003	<b>Sheet No.:</b> 1/3
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# Piping diagram



	DK	GB	D
A	Kompressor	Compressor	Kompressor
B	Kondensator	Condenser	Verflüssiger
C	Tørrefilter	Filter drier	Trockenfilter
D	Varmeudveksler	Heat exchanger	Wärmeaustauscher
E	Ekspansionsventil	Expansion valve	Ekspansionsventil
F	Fordamper	Evaporator	Verdampfer