OPERATING INSTRUCTIONS

ULTF 80 / 220 / 320 / 420

ARCTIKO

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IMPORTANT
Before using the appliance

For safety reasons, the instructions should be read before the freezer is commissioned.
The operating instructions should always be available to and accessible for the personnel!
The appliance concerned complies with the below Directives and standards except as refrigerant amount.
Low Voltage Directive 2006/95/E.E.C.
Electromagnetic Compatibility Directive 2004/108/E.E.C.

Only use the freezer for its specific purpose.

Safeguarding the environment

1. Packing.
   The packing material is entirely recyclable, and marked with recycling symbol.
   Please follow the local regulations for scrapping.

2. Appliance.
   The freezer is made of recyclable material. Dispose of the appliance should be according with the local environmental regulations
   Make the appliance unusable by cutting of the power supply cord and please the appliance must be delivered to an authorised centre for recovery of refrigerant.

Information

This appliance contain a mixture of different refrigerant. For more information, please refer to the rating plate affixed on the freezer.

Precautions and general recommendations:

WARNING: Keep ventilation openings, in the appliance enclosure or in the built-in structure, clear of obstruction
WARNING: Do not use mechanical devices or other means to accelerate the defrosting process, other than those recommended by the manufacturer.
WARNING: Do not damage the refrigerant system.
WARNING: Do not use electrical appliances inside the appliance storage compartment, unless they are of the type recommended by the manufacturer.

- Always keep the keys in separate place and out of reach of children.
- Before servicing or cleaning the appliance, unplug it from the mains or disconnect the electrical power supply.
- The power supply cable may only be replaced by an authorised person.
- Frost formation on the interior wall and upper parts is a natural phenomenon, and therefor the freezer should be defrosted during normal cleaning or maintenance.

Appliance with flammable refrigerant:

As the appliance contain a mixture of refrigerant, which are flammable, it is essential to ensure that the refrigerant pipes are not damaged.

Operating Instructions

Ultra Low Temperature Freezing Box
For safety reasons, these operating instructions should be read before the freezer is commissioned.
The operating instructions should always be available to the personnel!

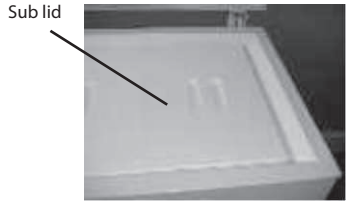
The drawings and symbols in these operating instructions are for safety purposes when commissioning and using the freezer.

Instruct the personnel in the use of the freezer (Can be down to -86°C). There is a risk of frost-bite if the contents or the sides of the inner container are touched!
In the event of breakdown or irregularities contact professional instructors or repair technicians immediately.

Installing the freezer

1. Connect the plug from the unit to power. If the electrical connection (the plug) has to be changed, always let an authorised electrician install the freezer (read the operation instructions).
2. The freezer should be located in a dry, cool place without direct sunlight. The freezer gives off a great deal of heat when in operation. If the ambient temperature is too high, there is a risk that the freezer will not operate correctly. It is recommended that the room is ventilated, so that the room temperature does not exceed 25°C (ULTF80/220) 20°C (ULTF 320/420) at most. Class N.
3. Place the freezer on a solid and flat substrate. This will eliminate any vibration and irritating noise. The freezer should be placed with at least 10 cm. free to the sides, at least 15 cm. free at the back, and at least 10 cm. free to the ceiling.
4. The unit is equipped with battery backup for display and contact for remote monitoring only. Backup time is min. 48 hours, the freezer must be connected voltage in min. 72 hours before max. battery is available. Please note the lifetime of the battery is estimated to be 3 years. But should be checked by authorize personnel every 6. month.

The installation should be fused with a 10 A fuse.



SUB LIDS:
The sub lids should be used at all times.
The Manufacturer is not responsible for damages to the freezer caused by a failure to do so.

Electrical connection:

The machine meets current EU directives. Low voltage 2006/95/E.E.C.
Electromagnetic compatibility 2004/1008/E.E.C.
The machine should be given extra protection in accordance with the Electricity Supply Regulations in order to protect the user against dangerous electric shock in the event of faults.

If the switch is for a 3-pin plug, a 3-pin plug should be used, and the conductor with yellow/green insulation should be connected to the Earth terminal.
Data regarding voltage and absorbed power/current are given on the rating plate on the rear side of the freezer.
Electrical connection must be made in accordance with the local regulations.

Warning

Regulations require that this appliance must be earthed:
The manufacturer declines all liability for injury to persons or animals and for damage to property resulting from failure to observe the above procedures and reminders.

If the socket and plug are not of the same type, please have the plug or socket replaced by a qualified electrician.

Do under no circumstances use extension leads or adaptors.

1. The freezer should be connected by an authorised electrician or by the company, which sold the freezer! Incorrect installation may damage the freezer.

2. Place the freezer on a flat floor, which can take the weight of the freezer.

3. The electrical installation should be earthed.

4. Do not use extension cables, but connect the freezer directly to a fixed installation.

5. The freezer should be placed in a dry location, and should not be subjected to water on the cabinet. If water gets into the electrical parts it may cause short-circuiting.

6. In the event of functional or electrical irregularities, please contact an authorised servicing engineer.

Before Commissioning
Clean the freezer both inside and out using a damp, wrung out cloth. Dry with a dry cloth.
The smell from the plastic parts in the freezer will disappear once the freezer has been cooled down.

Start procedure
Put the plug in the socket.
If the battery voltage is low it will take about 2h before the compressor starts.
The thermostat/thermometer will start to flash. The thermostat was pre-set by the producer. The freezer should run for at least 6 hours before the thermostat is changed. (Stabilisation of the cooling system).

The alarm function will not start before the temperature has reached temperature St1 = -83°C set point for the first time.

Starting up the freezer
Start the freezer. Set the thermostat at the temperature required. It will now take about 4-5 hours before the set temperature is reached. The freezer should be cooled down without anything in it.

Disconnecting the appliance
Electrical disconnecting must be possible either by unplugging the appliance or by means of a double pole switch located up-line from the socket.

CONTROL PANEL (Dixell XR30CX Controller)

Figure 1

SET: To display target set point; in programming mode it selects a parameter or confirm an operation.

(DEF): To start a manual defrost

(UP): To see the max. stored temperature; in programming mode it browses the parameter codes or increases the displayed value.

(DOWN): To see the min stored temperature; in programming mode it browses the parameter codes or decreases the displayed value.

To switch the instrument off, if onF = oFF.

NOT USED

KEY COMBINATIONS:

▲ + ▼		To lock & unlock the keyboard.
SET + ▼		To enter in programming mode.
SET + ▲		To return to the room temperature display.

USE OF LEDS

Each LED function is described in the following table

LED	MODE	FUNCTION
❄	ON	Compressor enabled
❄	Flashing	Anti-short cycle delay enabled
❄	ON	Defrost enabled
(!)	ON	An alarm is occurring
❄	ON	Continuous cycle is running
☀	ON	Energy saving enabled
°C/°F	ON	Measurement unit
°C/°F	Flashing	Programming phase

HOW TO SEE THE MIN TEMPERATURE

1. Press and release the ▼ key.
2. The “Lo” message will be displayed followed by the minimum temperature recorded.
3. By pressing the ▼ key again or by waiting 5s the normal display will be restored.

HOW TO SEE THE MAX TEMPERATURE

1. Press and release the ▲ key.
2. The “Hi” message will be displayed followed by the maximum temperature recorded.
3. By pressing the ▲ key again or by waiting 5s the normal display will be restored.

HOW TO RESET THE MAX AND MIN TEMPERATURE RECORDED

1. Hold press the SET key for more than 3s, while the max. or min temperature is displayed. (rSt message will be displayed)
2. To confirm the operation the “rSt” message starts blinking and the normal temperature will be displayed.

MAIN FUNCTIONS

HOW TO SEE THE SETPOINT

1. Push and immediately release the **SET** key: the display will show the Set point value;
2. Push and immediately release the **SET** key or wait for 5 seconds to display the probe value again.

HOW TO CHANGE THE SETPOINT

1. Push the SET key for more than 2 seconds to change the Set point value;
2. The value of the set point will be displayed and the “°C” or “°F” LED starts blinking;
3. To change the Set value push the ▲ or ▼ arrows within 10s.
4. To memorise the new set point value push the SET key again or wait 10s.

HOW TO START A MANUAL DEFROST

Push the **DEF** key for more than 2 seconds and a manual defrost will start.

HOW TO CHANGE A PARAMETER VALUE

To change the parameter’s value operate as follows:

1. Enter the Programming mode by pressing the **Set and DOWN** key for 3s (the “**°C**” or “**°F**” LED starts blinking).
2. Select the required parameter.
3. Press the “**SET**” key to display its value.
4. Use “**UP**” or “**DOWN**” to change its value.
5. Press “**SET**” to store the new value and move to the following parameter. **To exit:** Press **SET + UP** or wait 15s without pressing a key.

NOTE: the set value is stored even when the procedure is exited by waiting the time-out to expire.

THE HIDDEN MENU

The hidden menu Includes all the parameters of the instrument.

6.6.1 HOW TO ENTER THE HIDDEN MENU

1. Enter the Programming mode by pressing the Set+▼ key for 3s (the “**°C**” or “**°F**” LED starts blinking).
2. Released the keys, then push again the Set+ ▼ keys for more than 7s. The Pr2 label will be displayed immediately followed from the HY parameter. **NOW YOU ARE IN THE HIDDEN MENU.**

3. Select the required parameter.
4. Press the "**SET**" key to display its value.
5. Use ▲ or ▼ to change its value.
6. Press "**SET**" to store the new value and move to the following parameter. **To exit:** Press **SET** + ▲ or wait 15s without pressing a key.

NOTE1: if none parameter is present in Pr1, after 3s the "noP" message is displayed. Keep the keys pushed till the Pr2 message is displayed.

NOTE2: the set value is stored even when the procedure is exited by waiting the time-out to expire.

6.6.2 HOW TO MOVE A PARAMETER FROM THE HIDDEN MENU TO THE FIRST LEVEL AND VICEVERSA.

Each parameter present in the HIDDEN MENU can be removed or put into "THE FIRST LEVEL" (user level) by pressing "**SET**" + ▼

In HIDDEN MENU when a parameter is present in First Level the decimal point is on.

HOW TO LOCK THE KEYBOARD

1. Keep pressed for more than 3 s the ▲ and ▼ keys.
2. The "**POF**" message will be displayed and the keyboard will be locked. At this point it will be possible only to see the set point or the MAX o Min temperature stored
3. If a key is pressed more than 3s the "**POF**" message will be displayed.

TO UNLOCK THE KEYBOARD

Keep pressed together for more than 3s the ▲ and ▼ keys, till the "Pon" message will be displayed.

THE CONTINUOUS CYCLE

When defrost is not in progress, it can be activated by holding the ▲ key pressed . for about 3 seconds.

The compressor operates to maintain the "**ccS**" set point for the time set through the "**CCt**" parameter. The cycle can be terminated before the end of the set time using the same activation key " ▲ " for 3 seconds.

THE ON/OFF FUNCTION

With "**onF = oFF**", pushing the **ON/OFF** key, the instrument is switched off. The "**OFF**" message is displayed. In this configuration, the regulation is disabled. To switch the instrument on, push again the **ON/OFF** key.

WARNING: Loads connected to the normally closed contacts of the relays are always supplied and under voltage, even if the instrument is in stand by mode.

PARAMETERS

REGULATION

Hy **Differential:** (0,1 ÷ 25,5°C / 1÷255 °F) Intervention differential for set point. Compressor Cut IN is Set Point + differential (Hy). Compressor Cut OUT is when the temperature reaches the set point.

LS **Minimum set point:** (-100°C ÷ SET; [-148F ÷ SET): Sets the minimum value for the set point.

US **Maximum set point:** (SET÷150°C/ SET÷302°F). Set the maximum value for set point.

Ot **Thermostat probe calibration:** (-12.0÷12.0°C; -120÷120°F) allows to adjust possible offset of the thermostat probe.

OdS **Outputs activation delay at start up:** (0÷255min) This function is enabled at the initial start up of the instrument and inhibits any output activation for the period of time set in the parameter.

AC **Anti-short cycle delay:** (0÷50 min) minimum interval between the compressor stop and the following restart.

CCt **Compressor ON time during continuous cycle:** (0.0÷24.0h; res. 10min) Allows to set the length of the continuous cycle: compressor stays on without interruption for the Cct time. Can be used, for instance, when the room is filled with new products.

CCS **Set point for continuous cycle:** (-100÷150°C; -148°F ÷ 302°F) it sets the set point used during the continuous cycle.

Con **Compressor ON time with faulty probe:** (0÷255 min) time during which the compressor is active in case of faulty thermostat probe. With COn=0 compressor is always OFF.

COF **Compressor OFF time with faulty probe:** (0÷255 min) time during which the compressor is OFF in case of faulty thermostat probe. With COF=0 compressor is always active.

CH **Type of action:** CL = cooling; Ht = heating.

DISPLAY

CF **Temperature measurement unit:** °C=Celsius; °F=Fahrenheit. WARNING: When the measurement unit is changed the SET point and the values of the parameters Hy, LS, US, Ot, ALU and ALL have to be checked and modified if necessary).

rES **Resolution (for °C):** (in = 1°C; dE = 0.1 °C) allows decimal point display.

dLy **Display delay:** (0 ÷20.0m; risul. 10s) when the temperature increases, the display is updated of 1 °C/1°F after this time.

DEFROST

IdF **Interval between defrost cycles:** (0÷120h) Determines the time interval between the beginning of two defrost cycles.

MdF **(Maximum) length for defrost:** (0÷255min) When **P2P = n**, (not evaporator probe: timed defrost) it sets the defrost duration, when **P2P = y** (defrost end based on temperature) it sets the maximum length for defrost.

dFd **Temperature displayed during defrost:** (rt = real temperature; it = temperature at defrost start; **SEt** = set point; dEF = "**dEF**" label)

dAd **MAX display delay after defrost:** (0÷255min). Sets the maximum time between the end of defrost and the restarting of the real room temperature display.

ALARMS

ALC **Temperature alarms configuration:** (Ab; rE)

Ab= absolute temperature: alarm temperature is given by the ALL or ALU values. rE = temperature alarms are referred to the set point. Temperature alarm is enabled when the temperature exceeds the "SET+ALU" or "SET-ALL" values.

ALU **MAXIMUM temperature alarm:** (SET÷150°C; SET÷302°F) when this temperature is reached the alarm is enabled, after the "ALd" delay time.

ALL **Minimum temperature alarm:** (-100.0 ÷ SET°C; -148÷302°F) when this temperature is reached the alarm is enabled, after the "ALd" delay time.

AFH **Differential for temperature alarm recovery:** (0,1÷25,5°C; 1÷45°F) Intervention differential for recovery of temperature alarm.

AId **Temperature alarm delay:** (0÷255 min) time interval between the detection of an alarm condition and alarm signalling.

dAo **Exclusion of temperature alarm at startup:** (from 0.0 min to 23.5h) time interval between the detection of the temperature alarm condition after instrument power on and alarm signalling.

ALARM RELAY MANAGEMENT

tbA **Alarm relay silencing (with oA1=ALr):** (n= silencing disabled: alarm relay stays on till alarm condition lasts, y =silencing enabled: alarm relay is switched OFF by pressing a key during an alarm).

Aro **Alarm relay activation with power failure:**

y = the alarm relay is activated if a temperature alarm happens during a power failure

n = the alarm relay is never activated during a power failure

ALF **Alarm relay activation for all the alarms:**

y = the alarm relay is activated for all the alarms

n = the alarm relay is activated only in case temperature alarms and regulation probe failure.

bon **Time of buzzer restart after muting, in case of alarm duration:** (0÷30min; with 0 the buzzer is always off after muting)

AoP **Alarm relay polarity:** it set if the alarm relay is open or closed when an alarm happens.

CL= terminals 1-2 closed during an alarm; oP = terminals 1-2 open during an alarm

DIGITAL INPUT

i1P **Digital input polarity:** oP: the digital input is activated by opening the contact; CL: the digital input is activated by closing the contact.

i1F **Digital input configuration:** EAL = external alarm: "EA" message is displayed; bAL = serious alarm "CA" message is displayed. PAL = pressure switch alarm, "CA" message is displayed; dor = door switch function; dEF = activation of a defrost cycle; AUS =to switch on the second relay if oA1 = AUS; Htr = kind of action inversion (cooling – heating); FAn = not set it; ES = Energy saving.

did: (0÷255 min) **with i1F= EAL or i1F = bAL digital input alarm delay:** delay between the detection of the external alarm condition and its signalling.
with i1F= dor: door open signalling delay

with i1F = PAL: time for pressure switch function: time interval to calculate the number of the pressure switch activation.

nPS **Pressure switch number:** (0 ÷15) Number of activation of the pressure switch, during the "did" interval, before signalling the alarm event (I2F= PAL). If the nPS activation in the did time is reached, switch off and on the instrument to
restart normal regulation.

odc **Compressor status with door open:** no, Fan = normal; CPr; **F_C** = Compressor OFF.

rrd Outputs restart after doA alarm: no = outputs not affected by the doA alarm; **yES** = outputs restart with the doA alarm;

HES **Temperature increase during the Energy Saving cycle:** (-30,0°C÷30,0°C/-22÷86°F) it sets the increasing value of the set point during the Energy Saving cycle.

OTHER

Adr **Serial address** (1÷244): Identifies the instrument address when connected to a ModBUS compatible monitoring system.

PbC **Type of probe:** it allows to set the kind of probe used by the instrument: PtC = PTC probe, Pt1 = Pt1000 probe.

onF **on/off key enabling:** nu = disabled; oFF = enabled; ES = not set it.

rSE **Real set point:** (readable only), it shows the set point used during the energy saving cycle or during the continuous cycle.

rEL **Software release** for internal use.

Ptb **Parameter table code:** readable only.

POWER FAILURE

If the controller is connected to the battery, during a power failure:

1. The Alarm Icon is on.
2. Every 5s the buzzer rings 3 times for 1s.

The first time a key is pushed the buzzer is silenced. It return ringing after the **"bon"** time if the power failure keeps on lasting.

By pushing the **SET** key the controller will display the temperature for 5s.

Power failure and temperature alarms

If during a power failure a temperature alarm happens:

1. The alarm icon is on.
2. The buzzer starts ringing continuously.
3. The display shows: Real temperature for 1s, Alarm label for 1s and remains off for 5s.

The first time a key is pushed the buzzer is silenced for the **"bon"** time.

The battery guaranties 48h of functioning in this conditions.

ALARM SIGNALS

Message	Cause	Outputs
"P1"	Room probe failure	Compressor output acc. to par. "Con" and "COF"
"HA"	Maximum temperature alarm	Outputs unchanged.
"LA"	Minimum temperature alarm	Outputs unchanged.
"dA"	Door open	Compressor according to rrd
"EA"	External alarm	Output unchanged.
"CA"	Serious external alarm (i1F=bAL)	All outputs OFF.
"CA"	Pressure switch alarm (i1F=PAL)	All outputs OFF

ALARM RECOVERY

Probe alarm "**P1**" starts some seconds after the fault in the related probe; it automatically stops some seconds after the probe restarts normal operation. Check connections before replacing the probe.

Temperature alarms "**HA**" and "**LA**" automatically stop as soon as the thermostat temperature returns to normal values.

Alarms "**EA**" and "**CA**" (with i1F=bAL) recover as soon as the digital input is disabled.

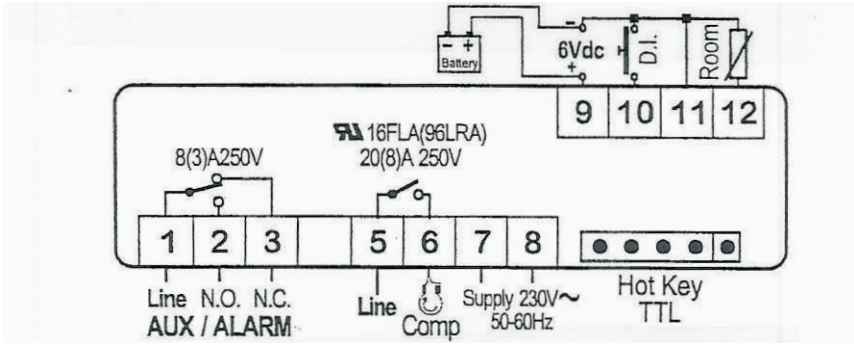
Alarm "**CA**" (with i1F=PAL) recovers only by **switching off and on** the instrument.

OTHER MESSAGES

Pon	Keyboard unlocked.
PoF	Keyboard locked
noP	**In programming mode**: none parameter is present in Pr1 **On the display** or in dP2, dP3, dP4: the selected probe is nor enabled
noA	**None alarm is recorded.**

CONNECTIONS

XR30CX: 20A COMPRESSOR



12Vac/dc supply: connect to the terminals 7 and 8.
24Vac/dc supply: connect to the terminals 7 and 8.
120Vac supply: connect to the terminals 7 and 8.

DEFAULT SETTING VALUES

Label	Name	Range	Set point	Pr 1/2
Set	Set point	LS÷US	-82	---
Hy	Differential	0,1÷25,5°C/1÷255°F	1	Pr1
LS	Minimum set point	[-100,0°C ÷ SET] [-148°F ÷ SET]	-95	Pr2
US	Maximum set point	[SET ÷ 150,0°C] [SET ÷ 302°F]	-60	Pr2
Ot	Thermostat probe calibration	-12÷12°C/-120÷120°F	0	Pr1
OdS	Outputs delay at start up	0÷255min	0	Pr2
AC	Anti-short cycle delay	0÷50min	5	Pr1
CCt	Continuous cycle duration	0.0÷24.0h	0,0	Pr2
CCS	Set point for continuous cycle	(-100÷150,0°C) (-148÷302°F)	-82	Pr2
COn	Compressor ON time with faulty probe	0÷255min	60	Pr2
COF	Compressor OFF time with faulty probe	÷255min	5	Pr2
CH	Kind of action	CL=cooling; Ht=heating	CL	Pr2
CF	Temperature measurement unit	°C÷°F	°C	Pr2
rES	Resolution	In=integer; dE=dec.point	in	Pr2
dLy	Display temperature delay	0÷20.0min (10sec.)	0	Pr2
IdF	Interval between defrost cycles	1÷120ore	0	Pr1
MdF	(Maximum) length for defrost	0÷255min	0	Pr1
dFd	Displaying duing defrost	rt, it, Set, DEF	rt	Pr2
dAd	MAX display delay after defrost	0÷255min	0	Pr2
ALc	Temperature alarms configuration	rE=related to set; Ab=absolute	rE	Pr2
ALU	Maximum temperature alarm	Set÷110.0°C; Set÷230°F	15	Pr1
ALL	Minimum temperature alarm	-100°C÷Set/ -148°F÷Set	50	Pr1
AFH	Differential for temperature alarm recovery	(0.1°C÷25.5°C)(1°F÷45°F)	1	Pr2
ALd	Temperature alarm delay	0÷255min	0	Pr2
dAo	Delay of temperature alarm at start up	0÷23h e 50’	1.3	Pr2
tbA	Alarm relay disabling	n=no; y=yes	y	Pr2
Aro	Alarm relay activation with power failure	n(0) – y(1)	y	Pr2
ALF	Alarm relay activation for all the alarms	n(0) – y(1)	y	Pr2
bon	Time of buzzer restart after muting, in case of alarm duration	0 ÷ 30 (min)	30	Pr2
AoP	Alarm relay polarity (0A1=ALr)	oP; cL	cL	Pr2
i1P	Digital input polarity	oP=opening; cL=closing	cL	Pr1
i1F	Digital input configuration	EAL, bAL,PAL, dor; dEF; Htr, AUS	AUS	Pr1
did	Digital input alarm delay	0÷255min	15	Pr1
nPS	Number of activation of pressure switch	0÷15	15	Pr2
odc	Compress status when open door	No; Fan;CPr;F_C	no	Pr2
rrd	Regulation restart with door open alarm	n - y	y	Pr2
HES	Differential for Energy Saving	(-30°C÷30°C) (-54°F÷54°F)	1	Pr2
Adr	Serial address	0÷247	1	Pr2
PbC	Kind of probe	Ptc; ntc	Pt1	Pr2
onF	On/off key enabling	Nu, oFF; ES	nu	Pr2
rSE	Real set point value	Actual set	---	Pr2
rEL	Software release	---	---	Pr2

Relocating or moving the freezer
Never leave the freezer to others without instructing these people in its use and the safety regulations described in the operating instructions. Always let an authorised electrician install the freezer.
(Remember to wait for one hour before restarting it).

- If the freezer and its electrical parts are reconstructed, the guarantee and safety regulations shall cease to apply.
- If the freezer does not work: call an authorised servicing engineer!
- Contact the distributor or an authorised service repair shop!

Cleaning and maintenance of the freezer
1. Ice will form on the sub lids in the freezer. This ice should be removed with a scraper at regular intervals. (Remember safety gloves).
2. Ice on the inside of the box should be removed as required, as it reduces the cooling capacity! Take the contents out of the freezer. Pull out the plug and leave the lid open until the ice can be removed. (Remember safety gloves).
3. Dry the inner container with a cloth until it is not damp any longer!
4. Clean the outside of the freezer with a damp cloth. Be careful not to get damp (water) on the Electrical parts or water into the vent holes, as water and damp may damage the electrical parts and cause the freezer to short-circuit!
5. The ice formed on the inside of the lid should be removed with a wooden/plastic scraper. This ice will build up because of the low temperatures inside the box, and if it is not removed it will cause the lid to open.
6. Use authorised cleaning products. The use of alcohol, dissolvents and alkaline cleaning agents is prohibited.
7. Clean the vent holes on the rear condenser with a vacuum cleaner at least once a year (See the sketches).

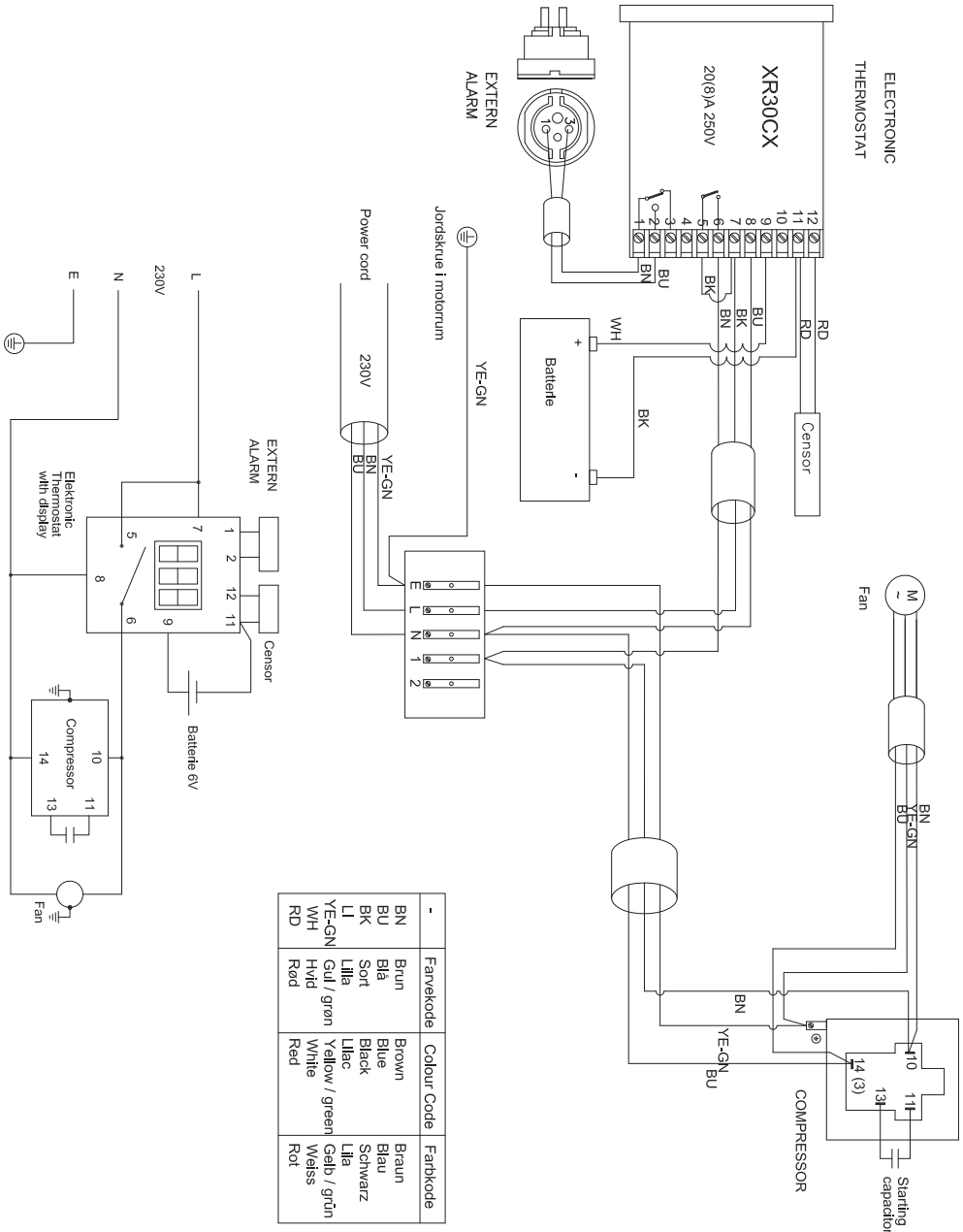
Do not put bottles containing carbonic acid or inflammable products in the freezer.

WARNING
Before carrying out maintenance, unplug the appliance.
Do not use abrasive products; stain removers (e.g. acetone, trichloroethylene) to clean the appliance.

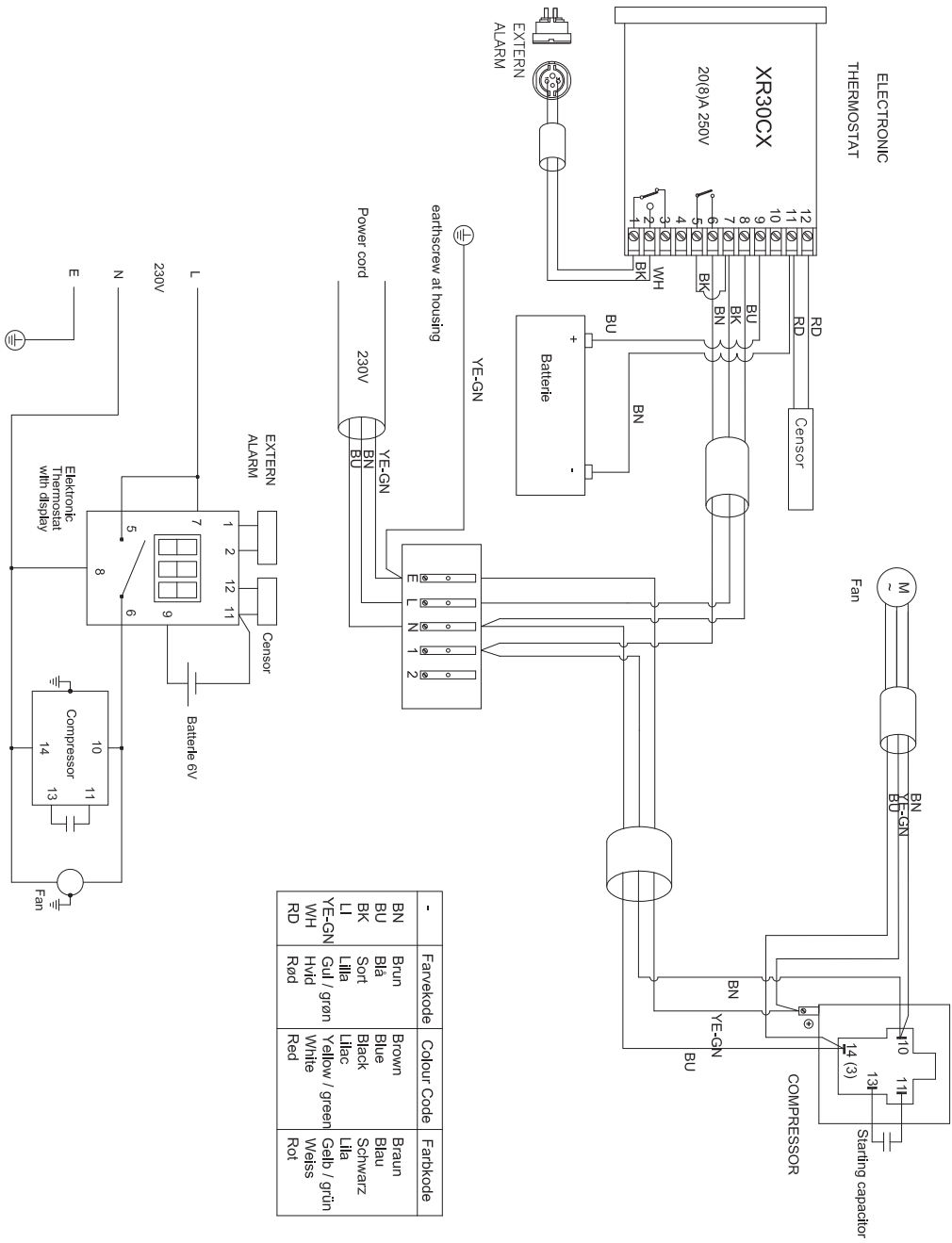
Spare parts
When ordering spare parts that you can easily fit yourself, please give unit type number and the function of the part(s) concerned.

Disposal of the freezer
To prevent harmful environmental effects, contact the distributor and ask where the freezer should be delivered.
Remove the locking function so that children cannot be locked in the freezer whilst playing.
You can obtain information on the disposal of refrigeration appliances from:
- Your supplier
- Authorities (The Local council, Ministry of the Environment, etc.)

Wiring diagram for ULTF80



Wiring diagram for ULTF 220 / 320 / 420



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