PERGE
USER MANUAL

CONTENTS

1. Preface

This manual has been prepared taking into account Bodrum model refrigerator In general, the following details have been included.
-How to use the refrigerator
-Technical Specifications
-Installation and assembly
- Information and recommendations for users
-Maintenance operations

The manufacturer company does not bear any responsibility in the following cases.

-Misuse of the refrigerator
-Incorrect assembly
-Electrical effects
- In failure of periodic maintenance
-Operational changes
-Use of non-original spare parts
-Non-compliance with the information provided

Note: Electrical appliances can be dangerous for your life

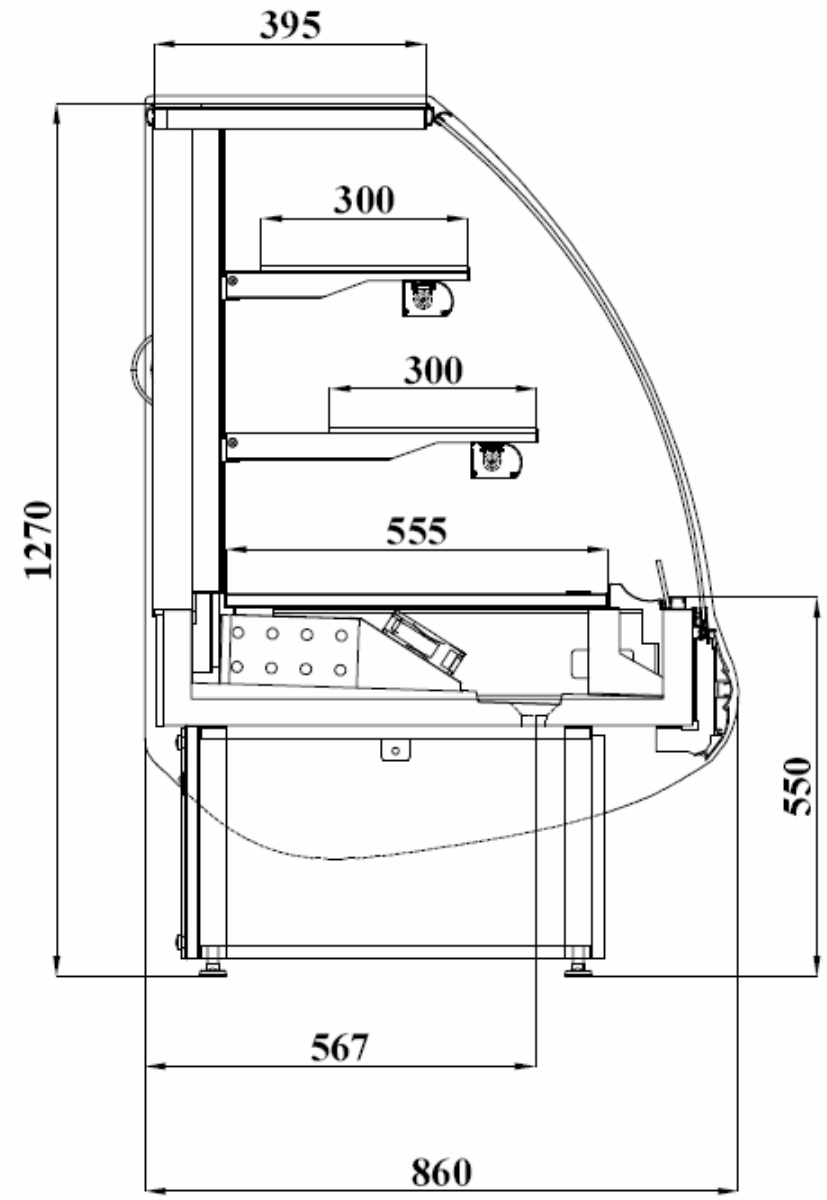
Anyone who uses the refrigerator should read this guide.

2. Introduction

Perge refrigerator is designed as a display showcase for wet cakes, dry cakes, sweet-pastry, dried fruits and similar delicacies. With its high performance, wide front glass and loading capacity, it is suitable for use in pastry shops, markets and supermarkets. It has an ergonomic design with a sliding cover at the back where the clerk can work comfortably. The glass workbench on the refrigerator provides ease of operation. It has been designed to meet all the expectations of customers with its modern design and functional details, the possibility of choosing colors suitable for decoration. Refrigerated and non-refrigerated cabinet versions available

3. Technical data and cross-sectional images

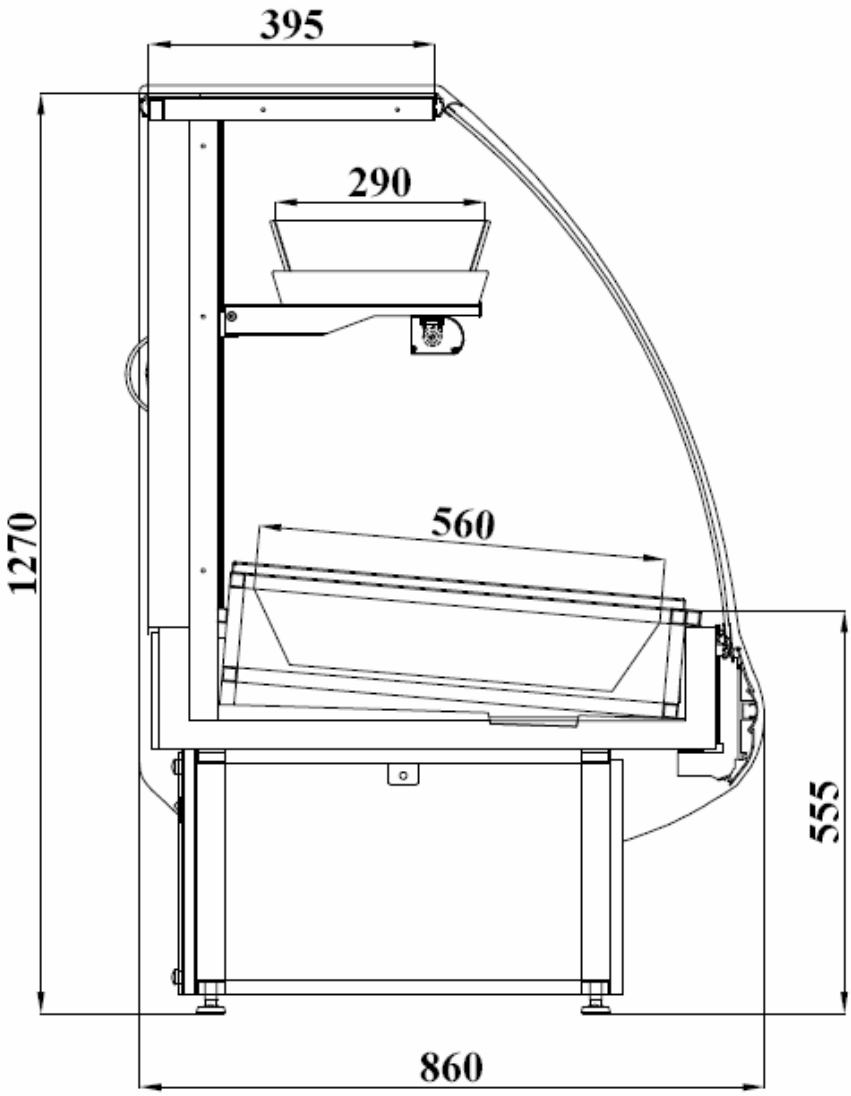
PERGE PASTRY



Firmamız tekmil detaylarda haber vermeksizin değiştirme hakkını saklıdır.
Any technical features may be modified without notice.

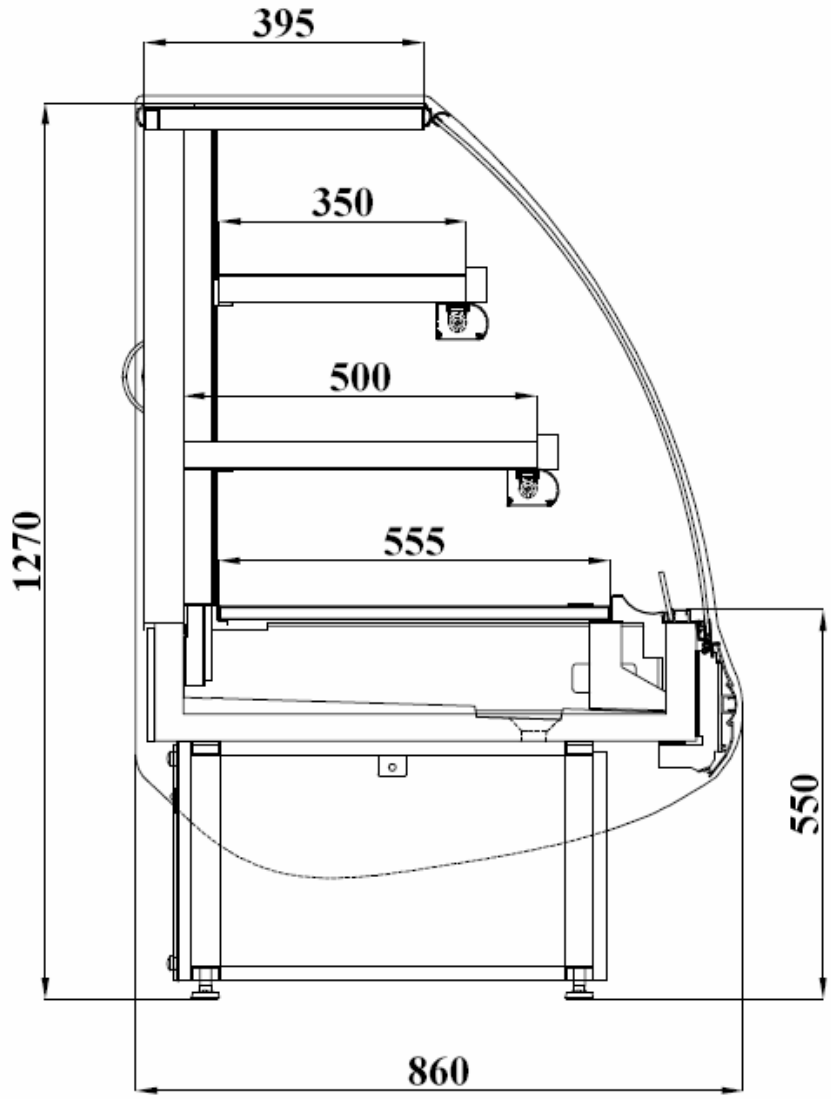
AHMET YAR REFRIGERATION 01 / 2007

PERGE NUTS



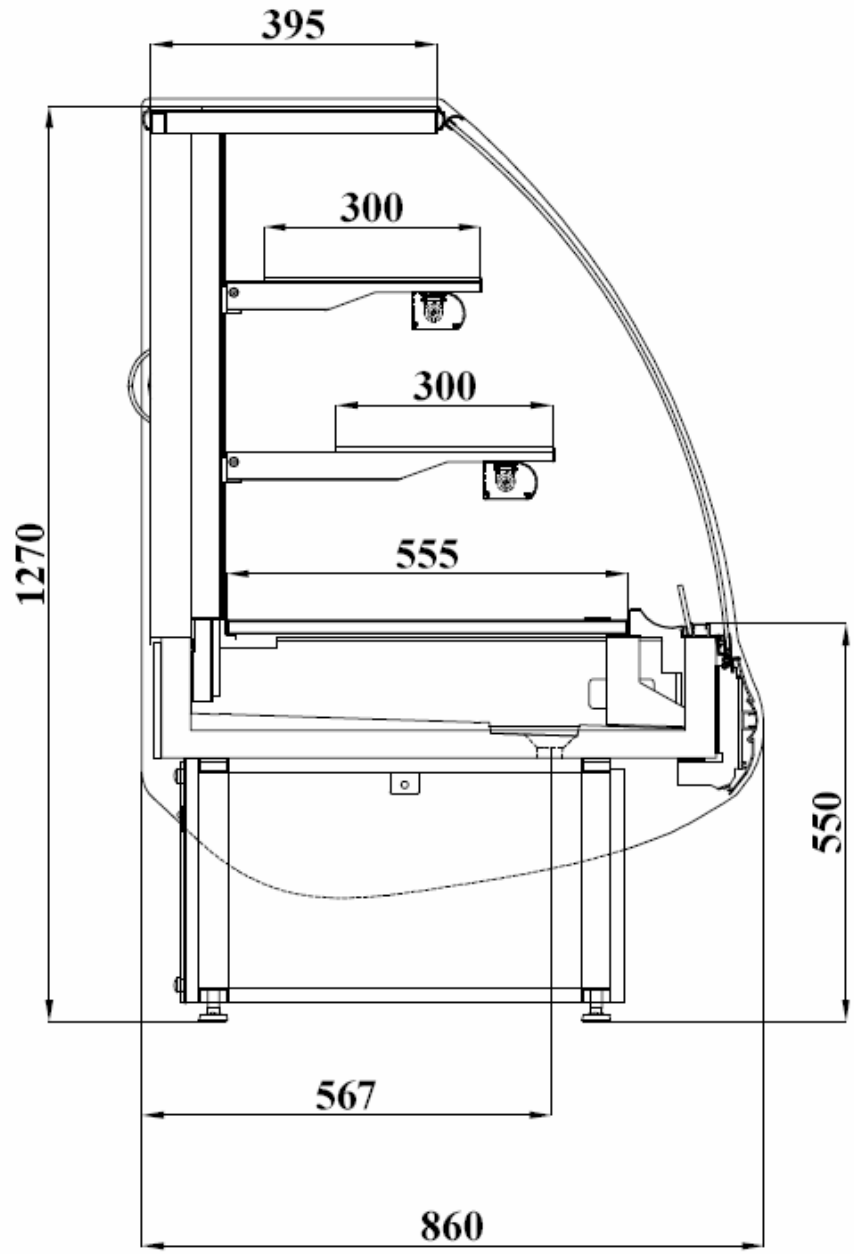
Firmamız teknik detayları haber vermeksizin değişiklik hakkını saklıyır.
Any technical features may be modified without notice.

PERGE BAKERY&SWEET



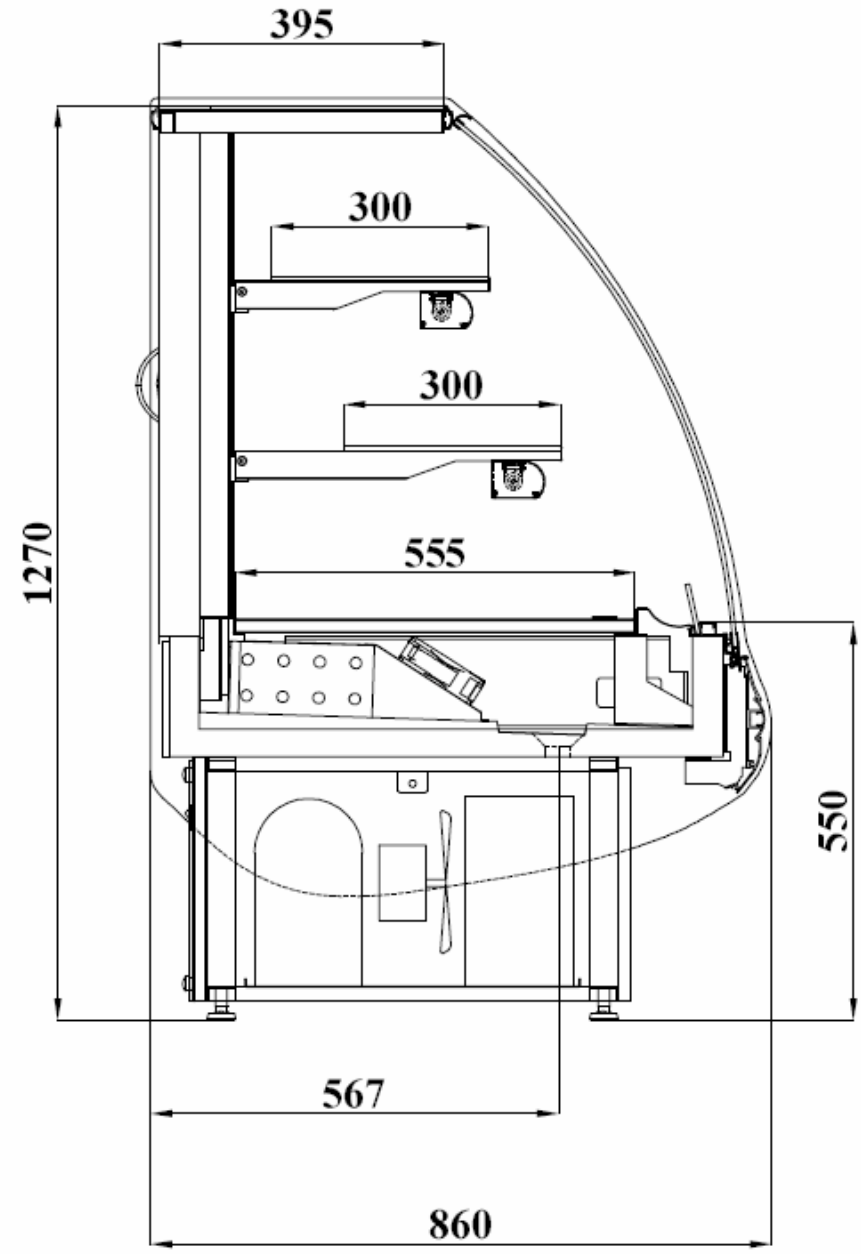
Firmamız teknik detayları haber vermeksizin değiştirme hakkını saklıştır.
Any technical features may be modified without notice.

PERGE DRY PASTRY



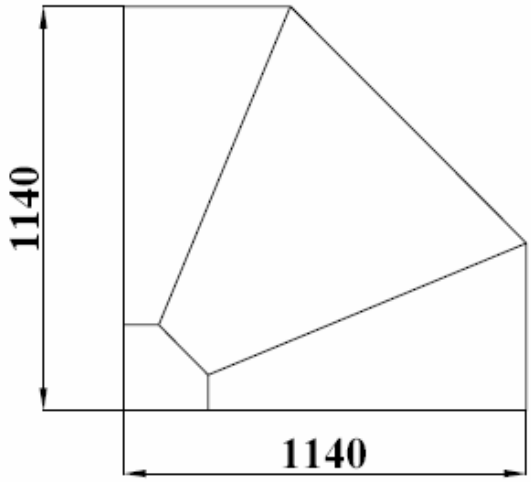
Firmamızın teknik dizaynları haber vermeksizin değiştirme hakkına sahiptir.
Any technical features may be modified without notice.

PERGE PLUG-IN

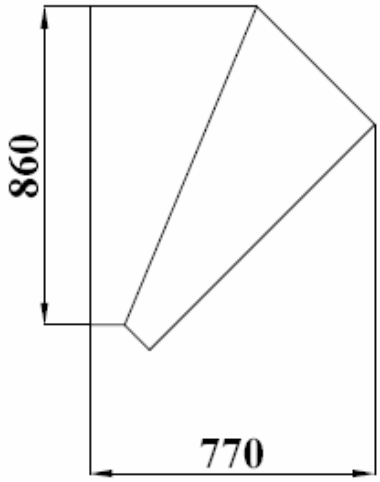


Firmamız teknik dizaynları haber vermeksizin değiştirme hakkına sahiptir.
Any technical features may be modified without notice.

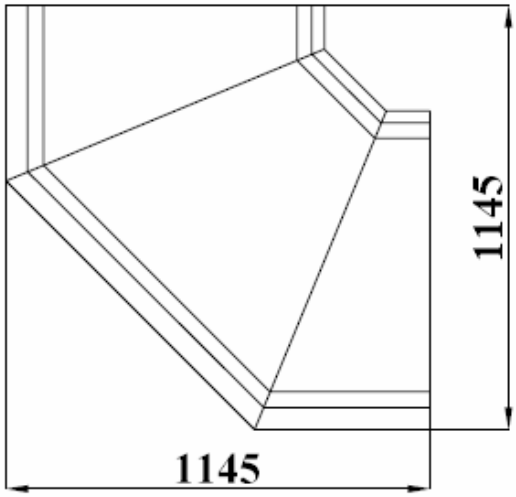
PERGE CORNERS



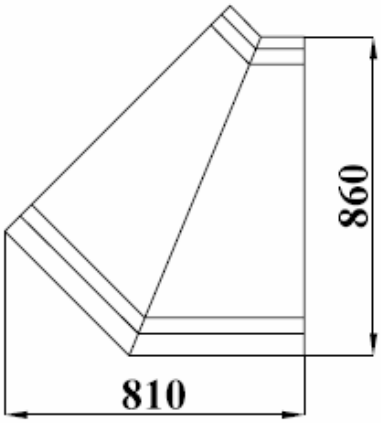
90° İç Köşe
90° Internal Corner



45° İç Köşe
45° Internal Corner



90° Dış Köşe
90° External Corner



45° İç Köşe
45° Internal Corner

4. Norms and Certificates

Norms used as reference and approved certificates of the refrigerator;
EN 60204-1; EN 61439-1; EN 61439-2

ENVIRONMENTAL CLIMATIC ENVIRONMENT (EN 23953-2)

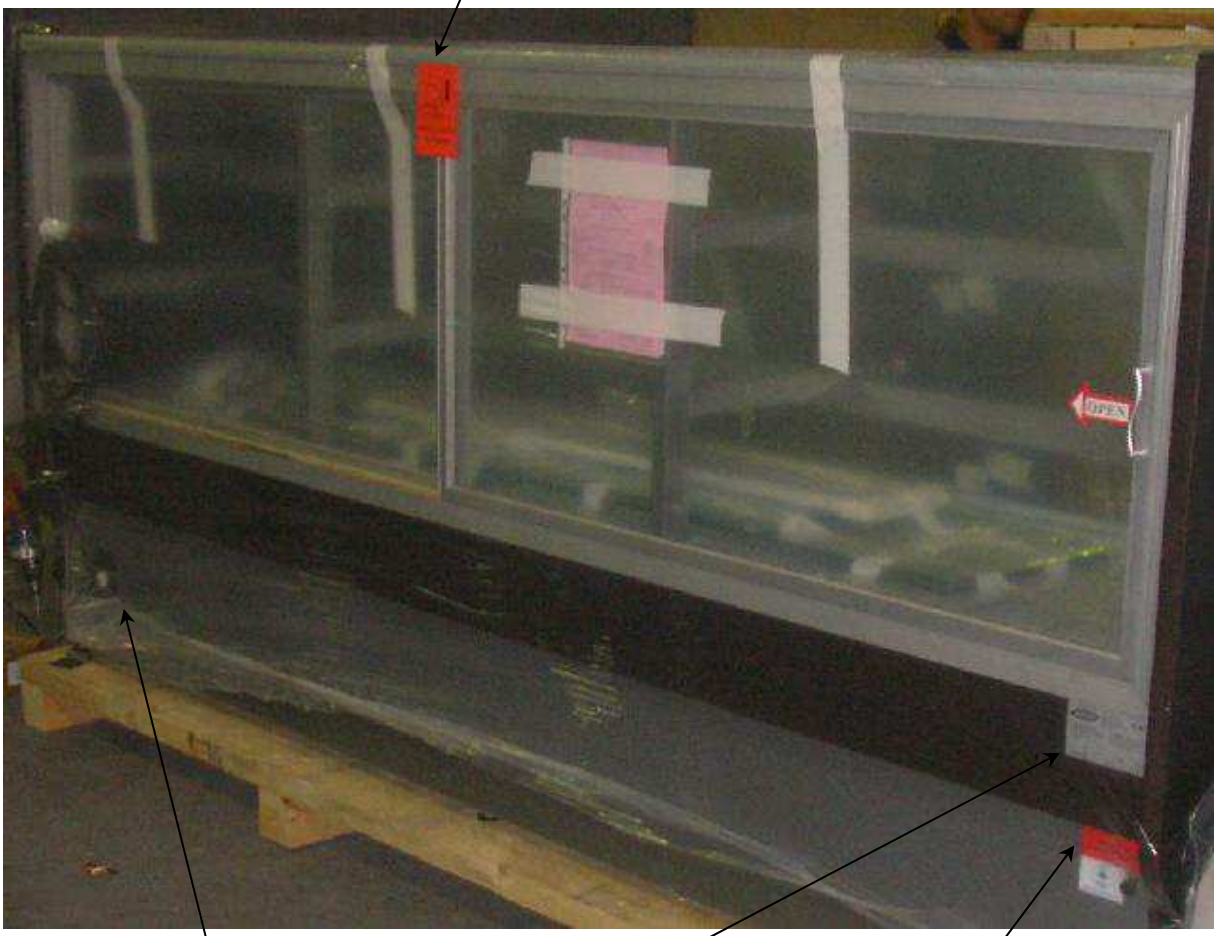
This refrigerator has been tested according to ambient temperature class 3.

Climatic Environment	Dry Air Temperature	Relative Humidity	Dew Point
1	16˚C	80%	12˚C
2	22˚C	65%	15˚C
3	25˚C	60%	17˚C
4	30˚C	55%	20˚C
5	40˚C	40%	24˚C
6	27˚C	70%	21˚C

Directives to which the refrigerator is in conformity with: **EEC 73/23 , EEC 98/37**

5. Description and warning labels on the cabinet

TAŞIMA ETİKETİ



YÜKSEK GERİLİM ETİKETİ

ÜRÜN TANIM ETİKETİ

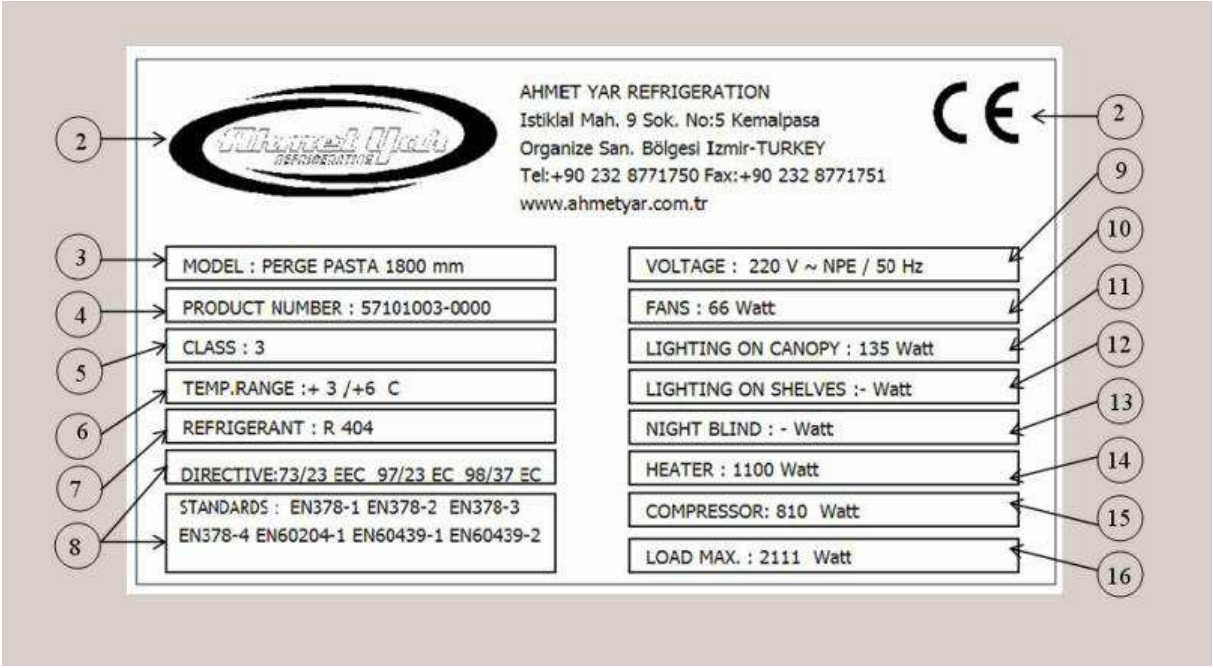
BASINÇ ETİKETİ

High voltage label

The high voltage label is located on the electrical box under the cabinet.

Product identification tag

The identification tag is located on the left side of the back of the cabinet under the bango and includes all technical specifications.



1 Manufacturer logo and address
2 Certificates of the product and quality certificates of the manufacturer
3 Product model
4 Serial number of the product
5 Climatic class of the product
6 Temperature limit of the product
7 Refrigerant type used in the product
8 Compliance Certificates of the product and the directives to which it is eligible
9 Operating voltage values
10 Evaporator and anti-condensation fan power
11 Lighting electric power
12 Under-the-shelf lighting electric power
13 Night curtain electric power
14 Electrical power of defrost resistors
15 Total electrical power of frame resistors
16 Total electrical power

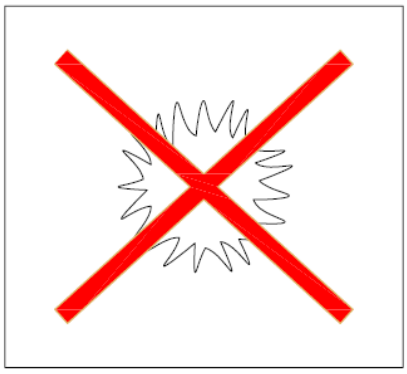
6. Installation and environmental conditions

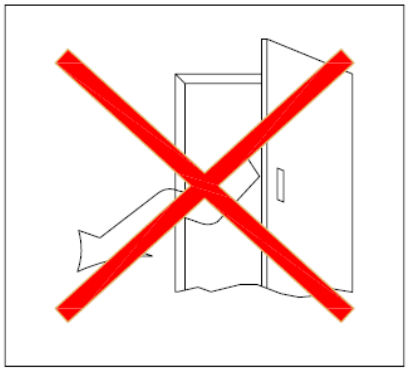
Follow the instructions below for installation

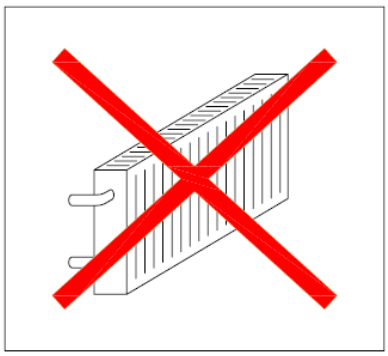
Conditions to be considered regarding the placement of the refrigerators

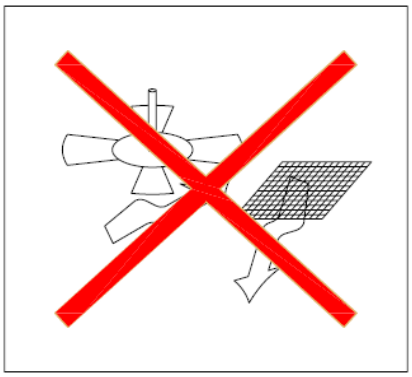
-Do not leave or mount the cabinet in the following locations.

- Places where there's explosive gas.
- Near heat sources
- Where there are air flows









7. Joining Two Refrigerators

Follow the sequence below to combine two or more refrigerators:
-Remove sidewalls (if any)
-Bring the refrigerators side by side.
Remove the pallet. Adjust the height of the legs of the refrigerators and bring their aisles on the same level. Check the accuracy using a water gauge. Check the balance by moving the cabinet.

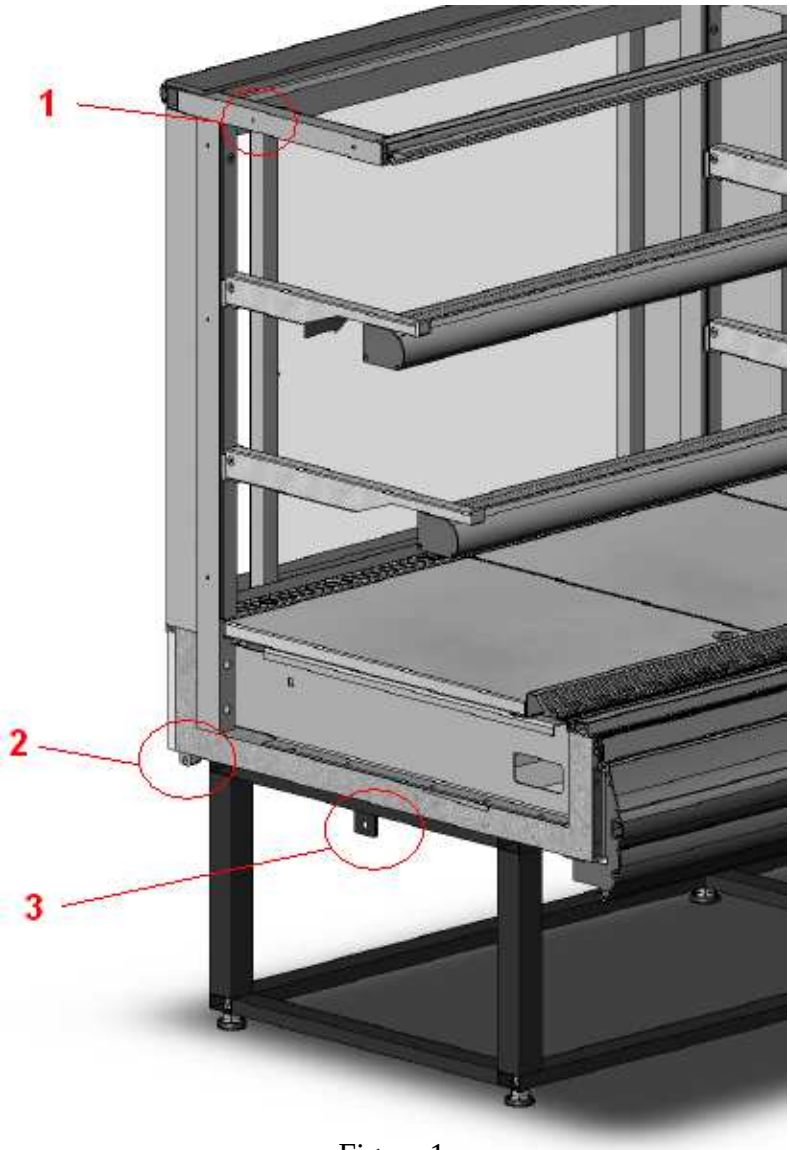


Figure.1

Combine the two refrigerators by following the steps below.

The connections of the two modules in the Perge refrigerator are shown in figure-1.

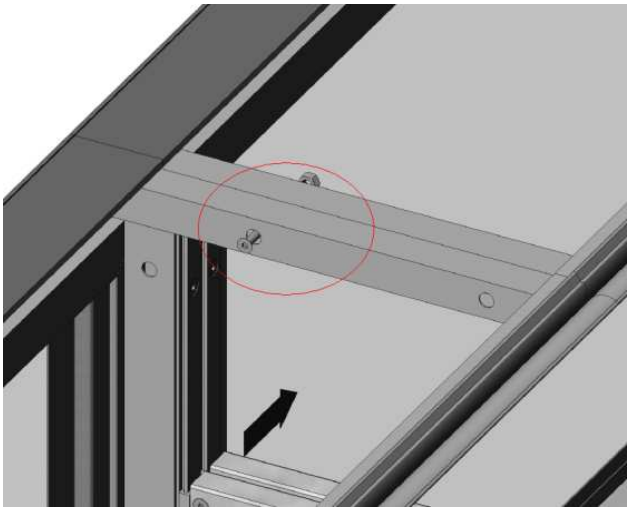


Figure.2

Figure.3

When the two modules are joined together, first connect the top profile struts with the help of M6x20hb hex bolt and M6 nut (Figure-2) then put the stainless sheet on it (Figure-3)
In the second step, connect the fittings under the refrigerator with 6k M6,3x45 sheet screws and nuts (Figure-4).

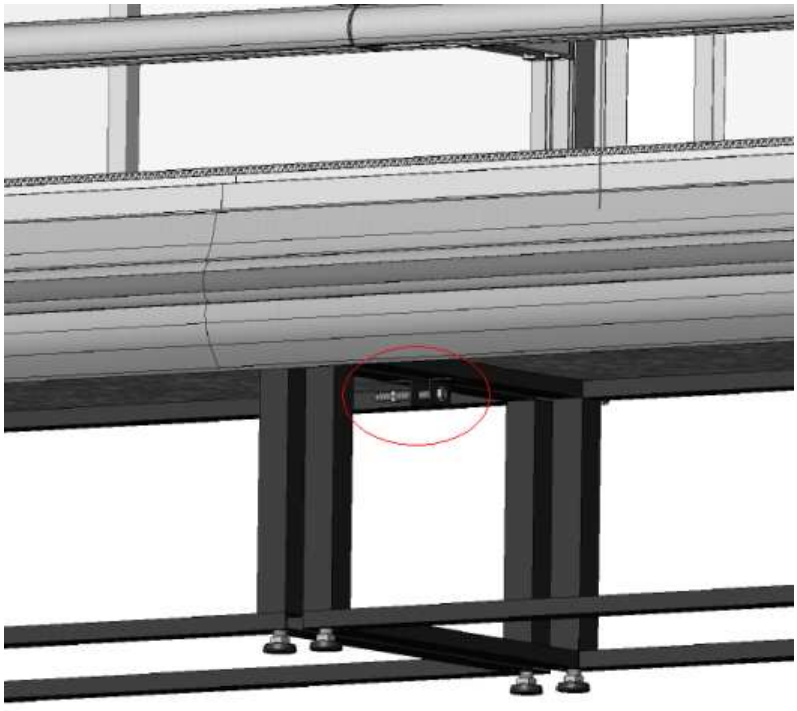


Figure.4

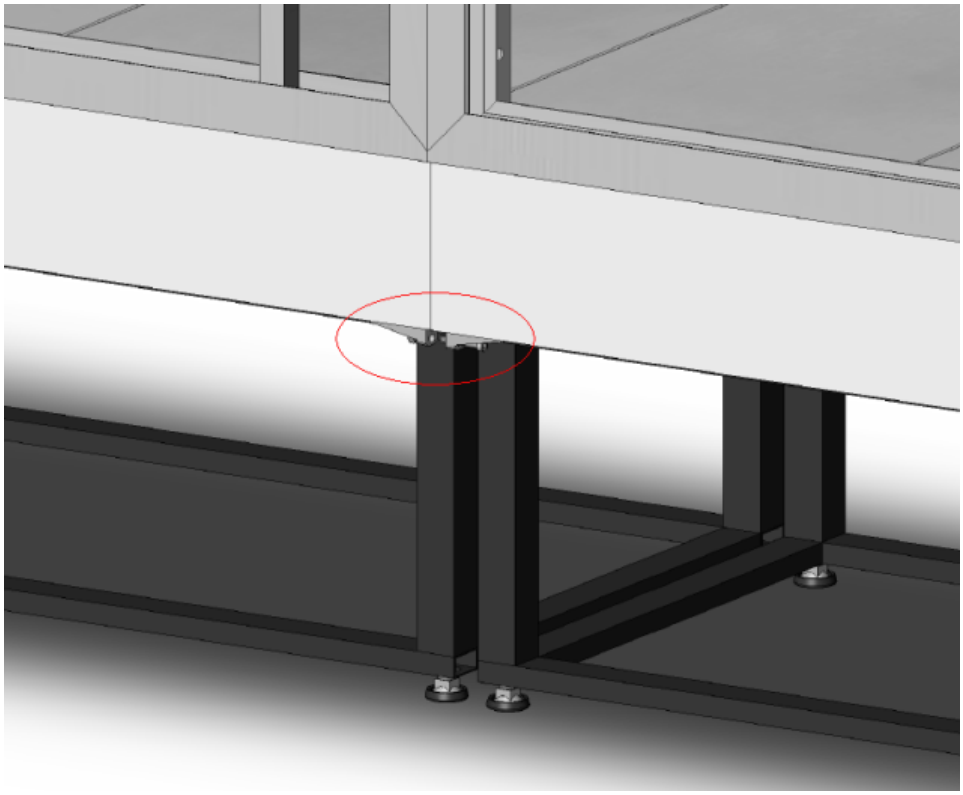
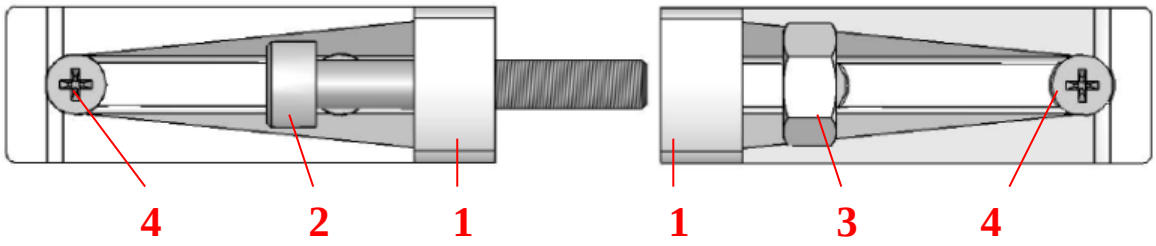


Figure.5

In the third step, connect the cabinet with the help of cabinet joining sheets and fasteners located at the back of the cabinet. Figure.5

The connection parts used are shown below in tables.



POSITION NO	PART NAME	PIECES
1	Cabinet puller	4
2	M8x25 Cylindrical head bolt	2
3	M8 Nut	2
4	M4,2 x 13 RSYB	8

8. Installation of the sides

For the installation of the sides, the side lower panel connection has to be made first. Fix it to the side connection sheets at the front and back of the cabinet's lower chassis with the help of 3 YMB 4x30 screws.

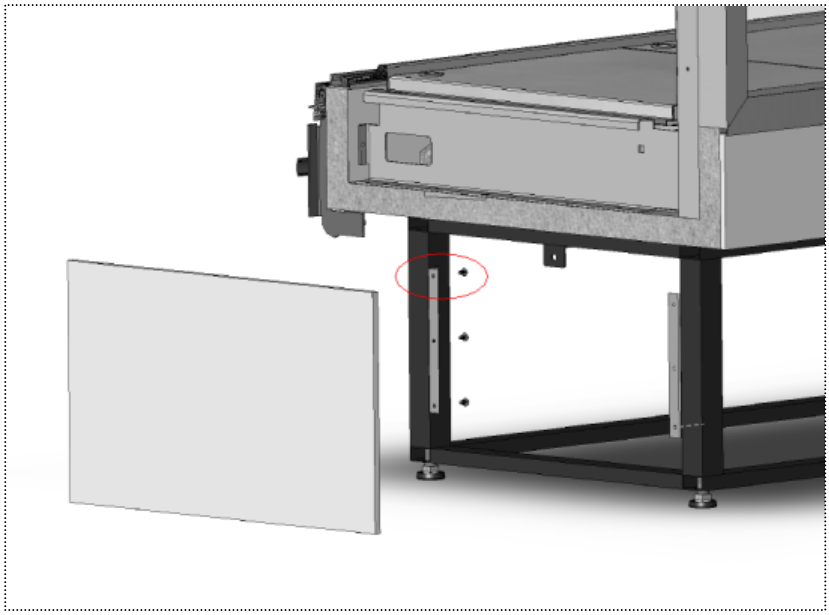
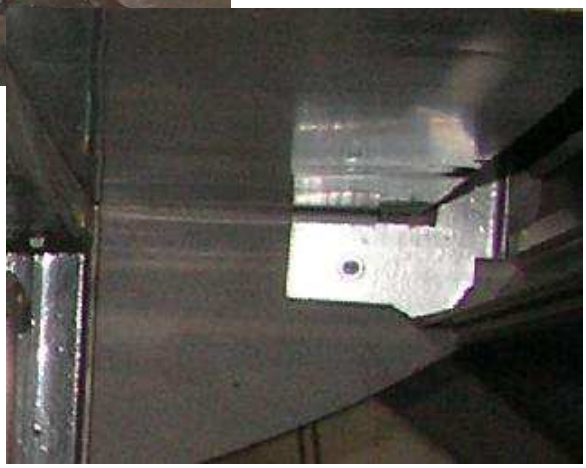


Figure.6

Figure.7

Connect the sides with the help of 6 YHB 4x30 chipboard screws. Connection points are shown in Figure-7.



9. Base Assembly

Installation of rear decor base sheet

Base connection traverse

The rear décor base sheet is connected to the base connection traverse, which is mounted on the iron profile at the back, with the help of a base knob screw.
Place the holes in the base sheet so that the holes in the connection traverse meet each other. Mount the base by turning the base knob screw clockwise (Figure-8)

Figure.8

10. Front Glass Assembly

Figure.14

Figure.15

When installing the front glass, it is first attached to the lower aluminum (Figure-14) Then aluminum piece is attached to the upper edge of the glass tightly (Figure-15)

11. Lighting

T8 fluorescent is used to illuminate the interior of the refrigerators.
Fluorescents are controlled from the pilot box at the back of the cabinet.

Figure.9

Figure.10

To insert the fluorescent bulbs, insert both ends into the sockets on the product from bottom to top as in Figure 10. After both ends of the fluorescent get into the sockets, turn it in the direction of the arrow in figure 11 to fix the lamp.

12. Electrical Connections

Figure.11

The electrical box is on the lower back of the cabinet. Figure.12

Figure.12

ELECTRIC BOX

While making electrical connections, the following details should be observed.

Important! Before making the electrical connection of the cabinet, examine the information and electrical diagrams on the definition label and product booklet.

Automatic switch and main switch which are protected against electric currents must be used for the appliance.
In case of emergency, the user shall know where the easily accessible switch is located.
-Electrical systems must be grounded.
Mains must guarantee that the maximum voltage variation is ± 6%
The thickness of the cable for the power line must be at least 2.5 mm² thick and it shall endure high current.
The power line cable shall not be longer than 4-5m, the cable cross section shall be increased if a cable longer than that is necessary.
For the refrigerator to work properly, make sure that the temperature and humidity are in accordance with the values specified in EN441 and that the climate class is 3 (+25°C; R.H.60%)
Personnel who will repair the refrigerator must have an electrician certificate.

13. Temperature control

Temperature control is carried out with the thermometer in the rear pilot box. Figure.13

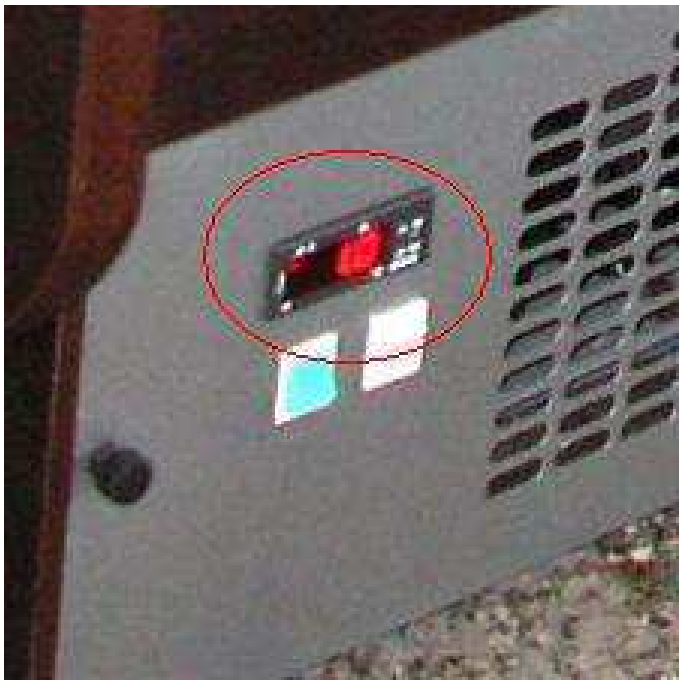
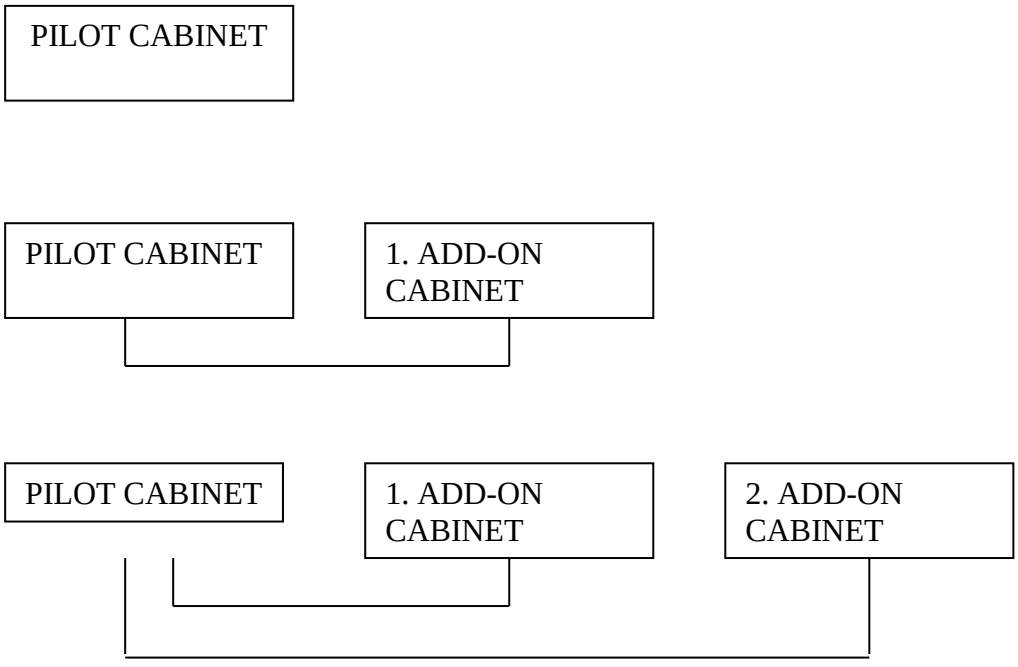


Figure.13

Important! A maximum of 3 aisles should be controlled with a pilot module.



14. Cleaning, Maintenance and Technical Service

Attention! MAKE SURE THE REFRIGERATOR MAIN SWITCH IS OFF OR ELECTRIC PLUG IS NOT CONNECTED BEFORE ANY MAINTENANCE AND CLEANING OPERATION!

Maintenance and cleaning of your appliance is mandatory at certain time intervals. The cleaning shall be done by the user. Cleaning includes the cleaning of the internal and external surfaces of the aisles.

Turn off the cooling and lighting switch before starting the cleaning of your aisle. Take the products inside the aisles out and store them at a place where they will not deteriorate during the cleaning process. Do not remove the pans of the aisles during cleaning. Cleaning of the refrigerator should be carried out as follows.

Do not use alcohol for cleaning!

Use gloves to protect your hands during all operations!

- **First cleaning after purchase**

After receiving the refrigerator:

- Make sure the package is not damaged
- Open the package without damaging the refrigerator
- Make sure all parts are intact and in their place
- Follow the steps in the daily/weekly cleaning guide
- Call the supplier in case of any damage.

- **Cleaning of external parts (Daily/Weekly)**

- Clean the outer parts of the refrigerator weekly using detergent and soap
- Clean using a soft cloth and clean water.
- Do not use materials and solvents that could damage the outer surface
- Do not make contact with water or detergent on electrical parts of the appliance.
- Do not use alcohol to clean the plexiglass parts

- **Cleaning of internal parts (Monthly)**

The purpose of cleaning the internal parts is to prevent the formation of micro-organisms inside the cabinet and thus to ensure better preservation of food supplies.

- Empty all food items
- Disconnect the power or turn off the main switch

Remove all removable parts, for example, pans, various wires, etc., clean with detergent mixed with hot water and dry carefully.

- Clean the pans carefully and prevent foreign objects falling into the fans.

- Call the authorized service in case of abnormal operation of the refrigerator.

After the cleaning process is completed, plug in the energy after all the removed products are reintroduced.

After cleaning, put the products back in the aisles and turn on the lighting and cooling switch.

Note: Make sure fans, ceiling lights, power cables and other electrical equipment are dry.

- **Technical Service:**

Please read the user manual carefully. This way the phone operator can help you more easily

- Make sure that the ambient temperature and moisture are not outside the values specified. Therefore, make sure that the air conditioning and heater devices are fully operational inside the store.
- Make sure that the products are not exposed to direct sunlight.
- Isolate the windows of the store against solar rays.
- Do not point any spotlights directly on the appliance.
- Do not block the suction grilles in such a way to prevent air intake.
- Use the appliance only for storage of refrigerated products.
- Make sure the appliance cools continuously. Check it twice a day.
- Install the cabinet according to the loading lines and do not exceed the limits
- Unload food products from the refrigerator immediately when the fridge fails to operate
- Replace any fallen screws or failed lights immediately.
- Periodically check the automotic defrost.
- Make sure there are no abnormal water condensation, if so, call the cooling technician immediately.
- Always perform periodic maintenance.

Aisles can malfunction despite regular cleaning and maintenance. When you notice that the appliance is not working, follow the instructions below:

- Is the cooling switch on?
- Is everything normal in the cooling group's fuse box?
- Is the power on?

If the answer to the above questions is yes, there is a problem in the aisle, chiller or the installation. Notify the technical service immediately. Transfer the goods in the aisle to another environment as soon as possible until the technical service arrives.

IN CASE OF GAS LEAK AND COMBUSTION; Do not stay in the room if there is no air flow. Unplug the appliance. DO NOT USE WATER TO EXTINGUISH THE FIRE. ONLY USE A FIRE EXTINGUISHER.

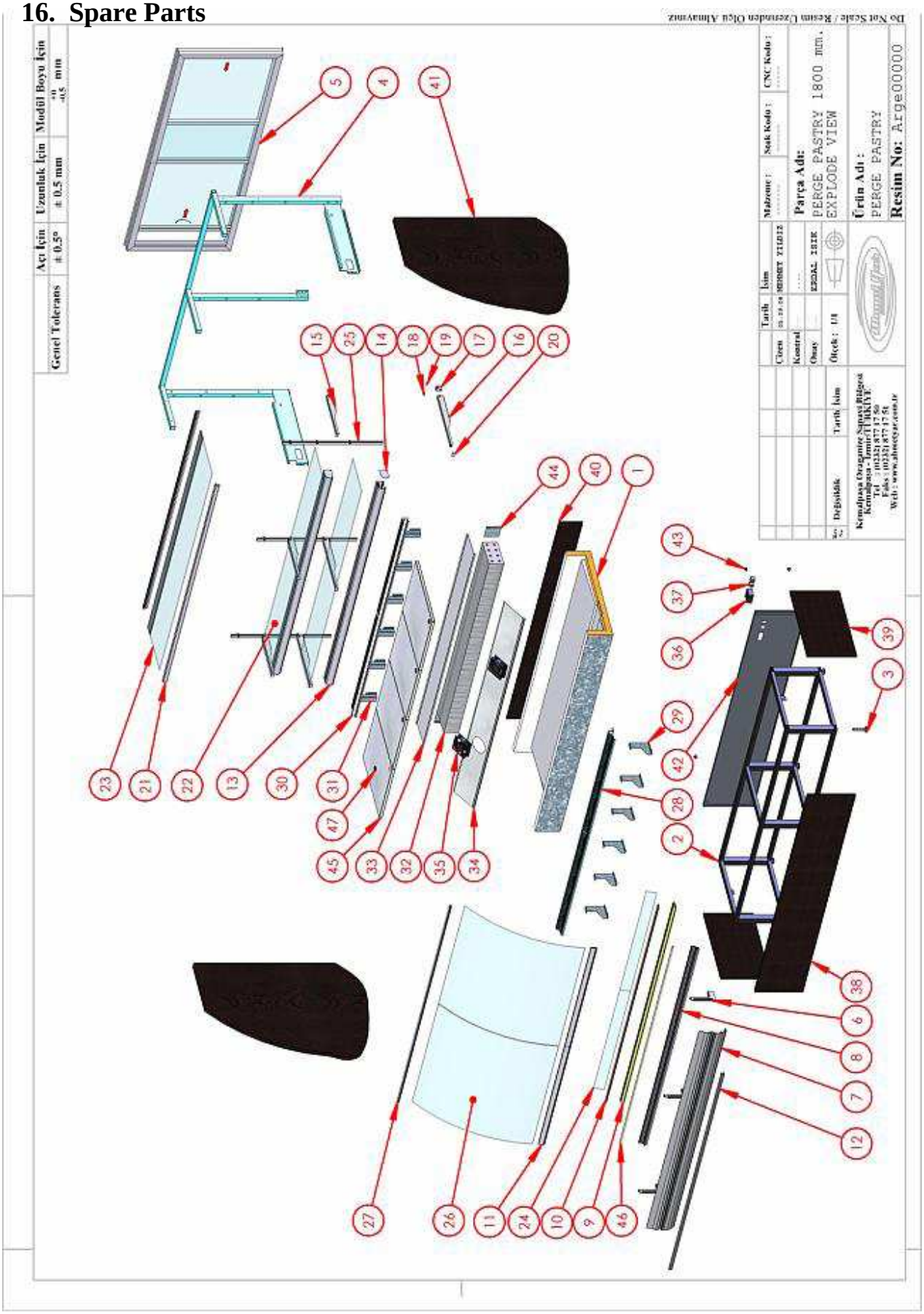
15. Recycling

Each country separates and recycles refrigerator parts according to their waste disposal and environmental laws.

Parts used in the refrigerator.

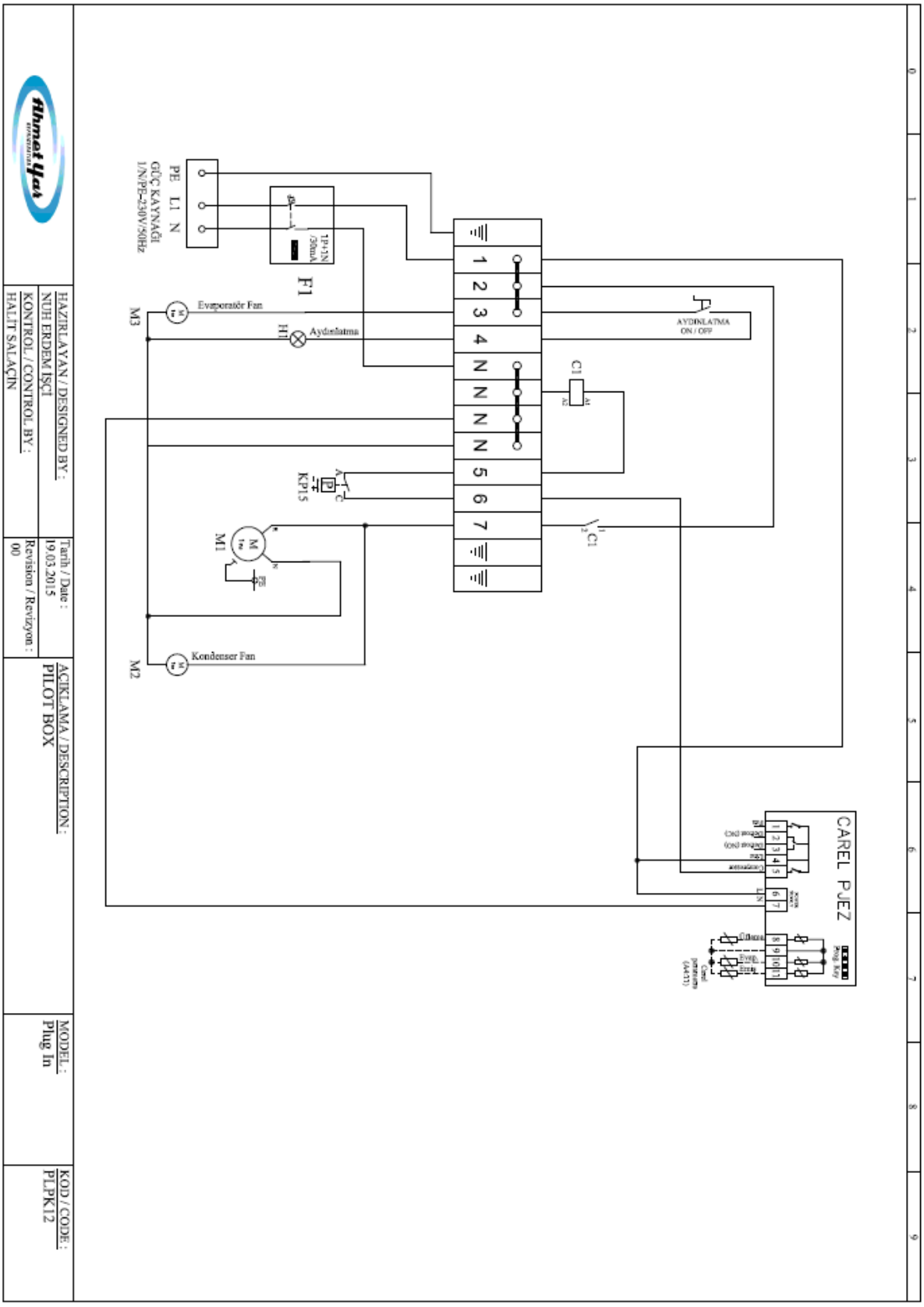
- Painted sheets : Struts, legs, front and side bases
- Copper, Aluminum :Cooling circuit,electrical system
- Galvanized sheets :Body bottom sheet and simple parts, pans
- Polyurethane foam :Thermal injection.
- Thermopane :Glass parts
- PVC :Bumper and glass top plastic
- Polystyrene :Thermoform side walls.
- Polycarbonate :Lamp protection tube

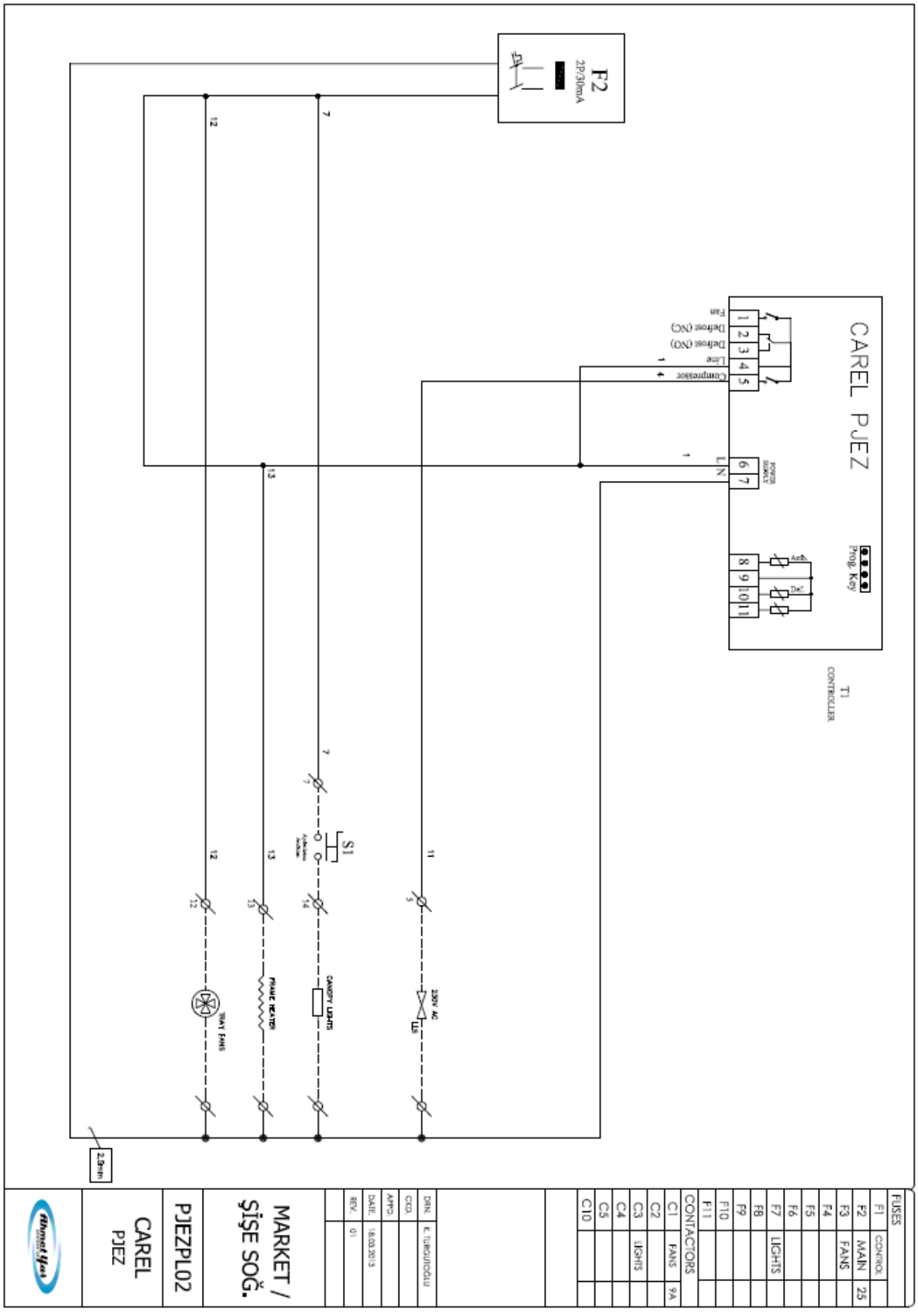
16. Spare Parts



PERGE 1800 mm. SOĞUTMALI			
NO	PARÇA ADI	MİKTAR	BİRİM
1	PERGE GÖVDE 1800 mm.	1	ADET
2	PERGE ALT ŞASE	1	ADET
3	M16 AYAK VİDASI	6	ADET
4	PERGE 1800 DİKME TAKIMI	1	ADET
5	PERGE ÇARPMA ÇERÇEVE	1	ADET
6	PERGE BOYNUZ DESTEK SACI	3	ADET
7	LARA ÖN ALÜMİNYUM 1800 mm	1	ADET
8	LARA MENTEŞE YUVASI 1800 mm	1	ADET
9	LARA ÜST ALÜMİNYUM 1800 mm	1	ADET
10	REZİSTANS KAPAK 1800 mm	1	ADET
11	LARA DÜŞER CAM MENTEŞESİ 900 mm	2	ADET
12	ÖN ALÜMİNYUM KAPAK 1800 mm	1	ADET
13	LAMBALIK ALÜMİNYUMU 1800 mm	2	ADET
14	LAMBALIK KAPAK ALÜMİNYUMU	4	ADET
15	PERGE RAF KOLU 350 mm.	3	ADET
16	PERGE RAF KOLU 450 mm.	3	ADET
17	BRAÇOL ARKA TAKOZU	6	ADET
18	M6X20 İMBUS HB CIVATA INOX	6	ADET
19	M6X20 GÖMME SOMUN INOX	6	ADET
20	RAF PLASTİĞİ	6	ADET
21	KUTU KAPAMA ALÜMİNYUMU 1800 mm	2	ADET
22	RAF CAMI	4	ADET
23	ÜST RAF CAMI	1	ADET
24	ÖN RÜZGARLIK CAMI	2	ADET
25	BRAÇOL DİKMESİ	3	ADET
26	PERGE BOMBE CAM 900 mm	2	ADET
27	CAM TUTACAĞI 900 mm	2	ADET
28	EMİŞ SACI 900 mm.	2	ADET
29	EMİŞ DESTEK	6	ADET
30	ÜFLEME 1800 mm.	1	ADET
31	ÜFLEME DESTEK	6	ADET
32	PERGE EVAPORATÖR 1800 mm.	1	ADET
33	SOĞUTUCU ÖRTME SACI 1800 mm.	1	ADET
34	FAN SACI	1	ADET
35	KARE FAN 12 X 12	2	ADET
36	TERMOSTAT	1	ADET
37	ON-OFF SWITCH	2	ADET
38	PERGE ALT DEKOR	1	ADET
39	PERGE YAN DEKOR	2	ADET
40	PERGE ARKA DEKOR	1	ADET
41	PERGE YAN	2	ADET
42	PERGE ARKA BAZA	1	ADET
43	TOPUZ VİDA	4	ADET
44	BY PASS SACI	2	ADET
45	PERGE TAVA	4	ADET
46	BODRUM ÖN CAM LASTİĞİ 1800 mm.	1	ADET
47	TAVA LASTİĞİ	4	ADET

17. Electrical diagrams




F2
2P/30mA
CAREL PJEZ
Prog. Key
T1
CONTROLLER
Compressor
Defrost (NO)
Defrost (NC)
Fan
L N
S1
TRAY FANS
FRAME HEATER
CANOPY LIGHTS
230V AC
FUSES
F1 CONTROL
F2 MAIN 25
F3 FANS
F4
F5
F6
F7 LIGHTS
F8
F9
F10
F11
CONTACTORS
C1 FANS 9A
C2
C3 LIGHTS
C4
C5
C10
DRN. K. TURGUTOĞLU
CKD.
APPD.
DATE 18.03.2013
REV. 01
MARKET / ŞİŞE SOĞ.
CAREL PJEZ
PJEZPL02

CAREL PARAMETERS			ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
/Pro (Prob parameters)								
/2	Measurement stability		4	4	4	4	4	4
/4	Virtual Prob: Blowing and suction probes rates for regulation		100	100	100	50	50	50
	0= Blow probe							
	100= Suction probe							
/5	ºC or ºF selection		0	0	0	0	0	0
	0=°C, 1=°F							
/6	Decimal		1	1	1	1	1	1
	0=active,							
	1= inactive							
rHS	Virtual probe regulation rate to calculate glass temperature		20	20	20	20	20	20
	0= Blow probe							
	100= Suction probe							
/t	Are signals and alarms viewed in non-button terminal?		0	0	0	0	0	0
	0= inactive							
	1= active							
/t1	probe to be viewed in button terminal		12	12	12	12	12	12
	0 = Terminal inactive	8 =Serial probe 8						
	1 = Probe 1	9 =Serial probe 9						
	2 = Probe 2	10 =Serial probe 10						
	3 = Probe 3	11 =Serial probe 11						
	4 = Probe 4	12 = Control probe						
	5 = Probe 5	13 = Virtual probe						
	6 = Probe 6	14 = Set point						
	7 = Probe 7							
/t2	probe to be viewed in non-button terminal		12	12	12	12	12	12
	0 = Terminal inactive	8 =Serial probe 8						
	1 = Probe 1	9 =Serial probe 9						
	2 = Probe 2	10 =Serial probe 10						
	3 = Probe 3	11 =Serial probe 11						
	4 = Probe 4	12 = Control probe						
	5 = Probe 5	13 = Virtual probe						
	6 = Probe 6	14 = Set point						
	7 = Probe 7							

CAREL PARAMETERS			ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
/to	button/non-button terminal configuration		3	3	3	3	3	3
	Button terminal	**Non-button terminal**						
	0 Yes	yes						
	1 optional	yes						
	2 Yes	optional						
	3 optional	optional						
/P1	S1 ,S2 , S3 (Group 1) probe type		0	0	0	0	0	0
	0 = NTC Standard Range -50T90°C							
	1 = PTC Standard Range -50T150°C							
	2 = PT1000 Standard Range -50T150°C							
	3 = NTCL243 Standard Range -50T90°C							
/P2	S4 ,S5 (Group2) probe type		0	0	0	0	0	0
	0 = NTC Standard Range -50T90°C							
	1 = PTC Standard Range -50T150°C							
	2 = PT1000 Standard Range -50T150°C							
	3 = NTCL243 Standard Range -50T90°C							
/P3	S6 (Group3) probe type		4	4	4	4	4	4
	0 = NTC Standard Range -50T90°C							
	1 = PTC Standard Range -50T150°C							
	2 = PT1000 Standard Range -50T150°C							
	3 = NTCL243 Standard Range -50T90°C							
	4 = 0 to 5V ratiometric pressure transmitter							
/P4	S7, (Group4) probe type		0	0	0	0	0	0
	0 = NTC Standard Range -50T90°C							
	1 = PTC Standard Range -50T150°C							
	2 = PT1000 Standard Range -50T150°C							
	3 = NTCL243 Standard Range -50T90°C							
	4 = 0 to 5V ratiometric pressure transmitter							
	5 = 0 to 10 V input							
	6 = 4 to 20 mA input							
/P5	S8 den S11 e (Group5) serial problar probe type		0	0	0	0	0	0

CAREL PARAMETERS			ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
/FA	Sm Blow probe connection point		1	1	1	1	1	1
	0 = Function inactive	6 = Probe S6						
	1 = Probe S1	7 = Probe S7						
	2 = Probe S2	8 = Serial probe S8						
	3 = Probe S3	9 = Serial probe S9						
	4 = Probe S4	10 = Serial probe S10						
	5 = Probe S5	11 = Serial probe S11						
/Fb	See Sd defrost probe connection point/FA parameter probe list		2	2	2	2	2	2
/Fc	See Sr Suction probe connetion point /FA parameter probe list		3	3	3	3	3	3
/Fd	See tGS superheat temperature sensor connection point /FA parameter probe list		4	4	4	4	4	4
/FE	See Peu/tEu superheat pressure transmitter connection point /FA parameter probe list		6	6	6	6	6	6
/FF	See Sd2 2. evaporator defrost probe connection point /FA parameter probe list		5	0	0	0	0	0
/FG	See Saux1 auxiliary temperature probe connection point /FA parameter probe list		0	0	0	0	0	0
/FH	See Saux2 auxiliary temperature probe connection point /FA parameter probe list		0	0	0	0	0	0
/FI	See SA ambient temperature probe connection point /FA parameter probe list		0	0	0	0	0	0
/FL	See SU ambient moisture probe connection point /FA parameter probe list		0	0	0	0	0	0
/FM	See Svt glass temperature probe connection point /FA parameter probe list		0	0	0	0	0	0
/Fn	See Sdp dewing point serial probe connection point		0	0	0	0	0	0
	0 = Function inactive	3 = Serial probe S10						
	1 = Serial probe S8	4 = Serial probe S11						
	2 = Serial probe S9							
/c1	Probe 1 calibration. If pushed twice, shows the value read by the probe		0	0	0	0	0	0
/c2	Probe 2 calibration. If pushed twice, shows the value read by the probe		0	0	0	0	0	0
/c3	Probe 3 calibration. If pushed twice, shows the value read by the probe		0	0	0	0	0	0
/c4	Probe 4 calibration. If pushed twice, shows the value read by the probe		0	0	0	0	0	0
/c5	Probe 5 calibration. If pushed twice, shows the value read by the probe		0	0	0	0	0	0
/c6	Probe 6 calibration. If pushed twice, shows the value read by the probe		0	0	0	0	0	0
/c7	Probe 7 calibration. If pushed twice, shows the value read by the probe		0	0	0	0	0	0
/U6	Probe 6 maximum scale value		9.3	9.3	9.3	9.3	9.3	9.3
/L6	Probe 6 minimum scale value		-1	-1	-1	-1	-1	-1
/U7	Probe 7 maximum scale value		9.3	9.3	9.3	9.3	9.3	9.3
/L7	Probe 7 minimum scale value		-1.0	-1.0	-1.0	-1.0	-1.0	-1.0

CAREL PARAMETERS			ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
CtL (Control)								
OFF	ON/OFF control unit on-off 0 = ON; 1 = OFF;		0	0	0	0	0	0
St	Set point		-20	-20	-20	-20	0	2
St2	Double thermostate control suction set value		50	50	50	50	50	50
rd	St set value difference		2	2	2	2	2	2
rd2	Double thermostate control suction set value difference 0.0 = Function inactive		0	0	0	0	0	0
r1	Allowed minimum set value		-24	-24	-24	-24	-4	-4
r2	Allowed maximum set value		-18	-18	-18	-18	4	4
r3	Defrost warning activation ending in time 0 = inactive, 1 = active		0	0	0	0	0	0
r4	Automatic night set point		0	0	0	0	0	0
r5	Will minimum and maximum temperatures be kept to which probe in the memory?		1	1	1	1	1	1
	0 = Monitoring inactive	6 = superheat temperature probe(tGS)						
	1 = Control probe (Sreg)	7 = saturated evaporation temperature probe (tEu)						
	2 = virtual probe (Sv)	8 = auxiliary defrost probe (Sd2)						
	3 = Blow probe (Sm)	9 = auxiliary probe (Saux)						
	4 = defrost probe (Sd)	10 = auxiliary probe 2 (Saux2)						
	5 = Suction probe (Sr)							
rt	Recorded min and max temperature monitoring time range		-	-	-	-	-	-
rH	Recorded max temperature		-	-	-	-	-	-
rL	Recorded min temperature		-	-	-	-	-	-
r6	Night Control probe 0 = virtual probe Sv; 1 = Suction probe Sr		0	0	0	0	0	0
ro	For Virtual Probe, probe error offset		0.0	0.0	0.0	0.0	0.0	0.0
r7	Master solenoid valve configuration 0 = local valve ;1 = network valve (connected to the Master)		0	0	0	0	0	0
rSu			0	0	0	0	0	0

CAREL PARAMETERS			ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
CMP (compressor)								
c0	Compressor and fan starting time delay		0	0	0	0	0	0
c1	Minimum time between successive start		0	0	0	0	0	0
c2	Compressor minimum OFF Time		0	0	0	0	0	0
c3	Compressor minimum ON Time		0	0	0	0	0	0
c4	Control probe error duty time. Compressor and solenoid outlet works for the time stated there holds for 15 minutes and works again. 0 = Compressor/valve always OFF; 100 = compressor/valve always ON		0	0	0	0	0	0
cc	Continuous cycle time		1	1	1	1	1	1
c6	Post-continuous cycle alarm by-pass		60	60	60	60	60	60
c7	Maximum pump down time		0	0	0	0	0	0
Def (defrost)								
d0	Defrost type 0 =temperature-based heater 1 = temperature-based hot gas 2 = temperature-based heater 3 = time-based hot gas	4 =time and temperature-based heater defrost 5 =temperature-based heater multiplied hotgas bypass 6 =time-based heater multiplied hotgas bypass	4	0	0	0	0	0
d2	Defrost-end synchronization by Master 0 = unsynchronous; 1 = synchronous		1	1	1	1	1	1
dI	Time between defrosts		8	8	6	6	6	6
dt1	Defrost-end temperature, Evaporator Sd1		10	10	12	12	10	10
dt2	Defrost-end temperature,AUX Evaporator Sd2		10	10	12	12	10	10
dP1	Maximum Defrost time		35	35	40	45	45	45
dP2	Maximum Defrost time, AUX 2. Evaporator		35	35	40	45	45	45
d4	Initially defrost 0 = No initial defrost ; 1 = inital defrost (Master = network defrost; Slave = local defrost)		0	0	0	0	0	0
d5	Defrost time delay at the beginning if d4=1 0 = delay inactive		0	0	0	0	0	0
d6	Terminal indicator status during defrost 0 = Real temperature value and "dEF" flashes 1 = pre-defrost last temperature remains on the screen 2 = 'dEF' is viewed		2	2	2	2	2	2
dd	Post-Defrost drip time 0= No drip		2	2	2	2	2	2

CAREL PARAMETERS			ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
d7	defrost by-pass 0 = inactive ; 1 = active;		0	0	0	0	0	0
d8	Alarm delay following defrost and door opening		30	30	30	30	30	30
d9	Status of compressor protection times in hotgas bypass 0 = protection times are followed ; 1 = protection times are ignored		1	1	1	1	1	1
Sd1	Defrost Probe value		-	-	-	-	-	-
Sd2	Second Evaporator defrost probe value		-	-	-	-	-	-
dC	Defrost time basis 0 = dl hour,dP1,dP2 and ddP minute; 1 = dl minute,Dp2 and ddP second		0	0	0	0	0	0
d10	Time for defrost based on lamel temperature 0 = Function inactive		0	0	0	0	0	0
d11	Temperature-based defrost activation temperature threshold		-30	-30	-30	-30	-30	-30
d12	During Defrost, pressure transmitter alarm status		0	0	0	0	0	0
	probe failure	**failure in supervisor**						
	0 inactive	active						
	1 active	active						
	2 inactive	inactive						
	3 active	inactive						
dS1	Compressor stop time for successive defrost (when stops for this time, defrost ends, 0 = Function inactive		0	0	0	0	0	0
dS2	Compressor operation time for successive defrost (defrost starts when the		120	120	120	120	120	120
ddt	Defrost end temperature offset for Power defrost		0.0	0.0	0.0	0.0	0.0	0.0
ddp	Defrost time offset for Power defrost		0	0	0	0	0	0
dn	Nominal Defrost bypass time rate		75	75	75	75	75	75
d1S	daily defrost based on td1 time zone		0	0	0	0	0	0
	0 = inactive	8 = 3 hours 0 minute						
	1 = 24 hours 0 minute	9 = 2 hours 40 minutes						
	2 = 12 hours 0 minute	10 = 2 hours 24 minutes						
	3 = 8 hours 0 minute	11 = 2 hours 11 minutes						
	4 = 6 hours 0 minute	12 = 2 hours 0 minute						
	5 = 4 hours 48 minutes	13 = 1 hour 0 minute						
	6 = 4 hours 0 minute	14 = 30 minutes						
	7 = 3 hours 26 minutes							

CAREL PARAMETERS			ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
d2S	see d1S parameter for td1 time zone daily defrosts		0	0	0	0	0	0
dH1	Pumpdown time 0= pump down inactive		0	0	0	0	0	0
dHG	Multiplied hot gas bypass type 0 = Compensator valve is OFF usually 1 = Compensator valve is ON usually		0	0	0	0	0	0
ALM (Alarm)								
AA	Determination of temperature probe for AH and AL alarms		1	1	1	1	1	1
	1 = control (sreg)	8 = auxiliary defrost probe (Sd2)						
	2 = virtual (Sv)	9 = auxiliary probe (Saux)						
	3 = blow (Sm)	10 = auxiliary probe 2 (Saux2)						
	4 = defrost (Sd)	11 = ortam sıcaklığı (SA)						
	5 = suction (Sr)	12 = ortam nemi (SU)						
	6 = superheat temperature probe(tGS)	13 = cam sıcaklıklığı (Syt)						
	7 =SH pressure transmitter temperature equivalence (tEu)	14 = çiğlenme noktası (SdP)						
AA2	Determination of temperature probe for AH2 and AL2 alarms control AA parameter		5	5	5	5	5	5
A0	Low and high temperature alarm difference		2.0	2.0	2.0	2.0	2.0	2.0
A1	Threshold type for AL and AH 1. Alarm delays 0 = relative AL and AH set value 1 = absolute AL and AH absolute values		0	0	0	0	0	0
A2	Threshold type for AL2 and AH2 2. Alarm delays 0 = relative AL and AH set value 1 = absolute AL and AH finite values		0	0	0	0	0	0
AL	Low temperature 1. alarm threshold		4	4	4	4	4	4
AH	High temperature 1. alarm threshold		5	5	5	5	5	5
AL2	Low temperature 2. alarm threshold		0	0	0	0	0	0
AH2	High Temperature 2. alarm threshold		0	0	0	0	0	0
Ad	Low and high temperature alarm alarm delay		15	15	15	15	15	15
A4	ID1 digital input configuration in S4 input		0	0	0	0	0	0
	0 = input is not active	5 = kapı switci konfigürasyonu kompresör ve fanlar OFF						
	1 = momentary external alarm	6 = uzaktan ON/OFF						
	2 = delayed external alarm	7 = perde switchi						
	3 = defrost activation	8 = sürekli çevrim başlama / durma						
	4 = defrost starting	9 = ışık sensörü						

CAREL PARAMETERS			ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
A5	ID2 digital input configuration in S5 input, see the list in A4 parameter		0	0	0	0	0	0
A6	In the event of external alarm, solenoid/compressor working times. Compressor and solenoid work for this time, stop for 15 minutes and work againn. 0 = Compressor/valve always OFF; 100 = compressor/valve always ON		0	0	0	0	0	0
A7	Time delay for delayed external alarm		0	0	0	0	0	0
A8	Virtual digital input configuration see the list in A4 parameter		0	0	0	0	0	0
A09	Digital input selection transferred from master to slave		0	0	0	0	0	0
	0 = supervisor	3 = D13						
	1 = D11	4 = D14						
	2 = D12	5 = D15						
A10	ID3 digital input configuration in S6 input see the list in A4 parameter		0	0	0	0	0	0
A11	Id4 digital input configuration in S7 input, see the list in A4 parameter		0	0	0	0	0	0
A12	Digital input configuration in DI5 input, see the list in A4 parameter		0	0	0	0	0	0
Ar	Is alarm signal in slaves shown in master? 0 = no ; 1 = yes		1	1	1	1	1	1
A13	When slaves are offline, hotgas bypass procedure 0 = inactive 1 = active		0	0	0	0	0	0
Fan (Evaporator fans)								
F0	Evaporator fan management 0 = always ON 1 = Fan activation Sd defrost - Sv virtual (or Sd defrost - Sm blow double thermostat control) 2 =Activation Sd defrost probe		0	0	0	0	0	0
F1	Fan activation threshold (only F0=1 and 2)		-5.0	-5.0	-5.0	-5.0	-5.0	-5.0
F2	Will fans stop when the compressor stops? 0 =Fans work 1 = Fans stop		0	0	0	0	0	0
F3	Status of fans during defrost 0 = Fans work in Defrost 1 = fans stop		0	0	1	1	0	0
Fd	Post-defrost drip fan waiting time		2	2	2	2	2	2
Frd	Fan activation difference (including variable speed fans)		2.0	2.0	2.0	2.0	2.0	2.0
F5	Evaporator fan stop threshold (difference 1C)		50.0	50.0	50.0	50.0	50.0	50.0
F6	Maximum Evaporator fan speed		100	100	100	100	100	100

CAREL PARAMETERS		ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
F7	Minimum Evaporator fan speed	0	0	0	0	0	0
F8	Evaporator fan peak time 0 = Function inactive	0	0	0	0	0	0
F9	PWM1/' fan control output selection (by phase-break) 0 = pulse 1 = time-dependant	1	1	1	1	1	1
F10	Time of working of evaporator fans at maximum speed 0 = Function inactive	0	0	0	0	0	0
Eud (Electronic valve)							
P1	Electronic valve 0 = not used 1 = PWM valve 2 = CAREL E2V valve	2	2	2	2	2	2
P3	Superheat Set point	10.0	10.0	10.0	10.0	10.0	10.0
P4	Proportional rate	15.0	15.0	15.0	15.0	15.0	15.0
P5	Integration rate (Integral factor) 0 = Function inactive	150	150	150	150	150	150
P6	Derivative rate 0 = Function inactive	5.0	5.0	5.0	5.0	5.0	5.0
P7	LowSH: low superheat threshold	7.0	7.0	7.0	7.0	7.0	7.0
P8	LowSH: low superheat integral time 0 = Function inactive	15.0	15.0	15.0	15.0	15.0	15.0
P9	LowSH: düşük superheat alarm gecikmesi 0 = alarm inactive	600	600	600	600	600	600
P10	Will solenoid valve be OFF in the event of low superheat or low suction temperature? 1 = OFF is active	0	0	0	0	0	0
P11	LSA: low evaporation temperature alarm	-45.0	-45.0	-45.0	-45.0	-45.0	-45.0
P12	LSA: alarm delay 0 = alarm inactive	600	600	600	600	600	600
P13	LSA: alarm difference (C) 0 = reset the alarm all the time automatically	10.0	10.0	10.0	10.0	10.0	10.0
P14	('blo') alarm signal activation 1= blo alarm is active	1	1	1	1	1	1
P15	Complementary temperature acceptance value in the event of Superheat pressure	-30	-30	-30	-12	-12	-12

CAREL PARAMETERS			ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
PH	Gas type		3	3	3	3	3	3
	1 = R22	8 = R600						
	2 = R134a	9 = R600a						
	3 = R404A	10 = R717						
	4 = R407C	11 = R744						
	5 = R410A	12 = R728						
	6 = R507A	13 = R1270						
	7 = R290	14 = R417A						
OSH	Superheat offset for modulation thermostate 0 = Function inactive		0.0	0.0	0.0	0.0	0.0	0.0
Phr	Fast updating of valve parameters by the supervisor 0 = fast update is inactive		0	0	0	0	0	0
PM1	MOP: Maximum evaporation pressure temperature value		50.0	50.0	50.0	50.0	50.0	50.0
PM2	MOP: Integral time		10.0	10.0	10.0	10.0	10.0	10.0
PM3	MOP: alarm delay 0 = Function is inactive		0	0	0	0	0	0
PM4	MOP: MOP function delay at the beginning		2	2	2	2	2	2
PM5	MOP: activating solenoid valve shutting 0 = OFF is inactive 1 = OFF is active		0	0	0	0	0	0
PL1	LOP: Minimum evaporation pressure temperature value		-50.0	-50.0	-50.0	-50.0	-50.0	-50.0
PL2	LOP: Integral time		0.0	0.0	0.0	0.0	0.0	0.0
PL3	LOP: alarm delay 0 = Functionis inactive		0	0	0	0	0	0
SH	Superheat value		-	-	-	-	-	-
PPU	valve ON rate		-	-	-	-	-	-
tGS	Superheat temperature sensor reading value		-	-	-	-	-	-
tEu	Superheat pressure sensor temperature value (value of the pressure equivalent to the temperature)		-	-	-	-	-	-
/cE	Saturated evaporation temperature calibration		0.0	0.0	0.0	0.0	0.0	0.0
Po6	PWM expansion valve T on/OFF period		6	6	6	6	6	6
cP1	Valve position when the control is ON		30	30	30	30	30	30
Pdd	Post-Defrost valve position		10	10	10	10	10	10
PSb	valve standby position		0	0	0	0	0	0
PF	valve opening stages		-	-	-	-	-	-

CAREL PARAMETERS			ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
PMP	Electronic expansion valve manual operation activation 0 = inactive 1 = active		0	0	0	0	0	0
PMu	Manual valve position		-	-	-	-	-	-
Phc	Large capacity valve activation		0	0	0	0	0	0
Cnf (Configuration)								
In	MPXPRO Unit type 0 = Slave 1 = Master		1	1	1	1	1	1
Sn	Number of slave in local network 0 = No Slave		0	0	0	0	0	0
H0	Supervisor and Master-Slave network adrdess		199	199	199	199	199	199
H1	AUX1 output configuration		8	8	8	8	8	8
	0 = no function	7 = second Evaporator defrost output						
	1 = alarm without energy normally	8 = Evaporator Fan output						
	2 = energy alarm normally	9 = Glass heater output						
	3 = auxiliary output	10 = Suction valve						
	4 = auxiliary output shared by Master with slaves	11 = Compensation valve						
	5 = Light output	12 = Solenoid valve						
	6 = auxiliary output shared by Master with slaves							
H2	Button set and remote control deactivation 1 = Button set and remote control is active		1	1	1	1	1	1
H3	Remote control activation code 0 =no remote control activation code		0	0	0	0	0	0
H4	Buzzer activation 0 = active; 1 = inactive		0	0	0	0	0	0
H5	Please see AUX2 output configuration H1 parameter		7	2	2	2	2	2
H6	Terminal button set locking configuration		0	0	0	0	0	0
H7	Please see AUX3 output configuration H1 parameter		5	5	5	5	5	5
H8	Output association with time bands 0 = Light 1 = AUX		0	0	0	0	0	0

CAREL PARAMETERS		ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
H9	Output association with AUX button 0 = Light 1 = AUX	0	0	0	0	0	0
H10	Compressor output configuration 0 = Cooling 1 = heating	0	0	0	0	0	0
H11	Fan output configuration 0 = Cooling 1 = Heating	0	0	0	0	0	0
H12	Light sensor threshold	25	25	25	25	25	25
H13	Please see AUX4 output configuration H1 parameter	12	12	12	12	12	12
Hdn	default set parameters number	0	0	0	0	0	0
Htc	External time card insertion 0 = not inserted	0	0	0	0	0	0
rHu	Manual glass heater activation rate (rHt period) 0 = Function is inactive	70	70	70	70	70	70
rHt	Manual glass heater activation period 0 = Function is inactive	5	5	5	5	5	5
rHo	Glass heater modulation offset	2.0	2.0	2.0	2.0	2.0	2.0
rHd	Glass heater modulation difference	0.0	0.0	0.0	0.0	0.0	0.0
rHL	PWM output load type for glass heater modulation 0 = resistant 1 = inductive	0	0	0	0	0	0
rHA	Factor A for calculated glass temperature	2	2	2	2	2	2
rHb	Factor B for calculated glass temperature	22	22	22	22	22	22
HSt (Alarm log)							
HSO to 9	0 dan 9'a alarmlar (sete basın)	-	-	-	-	-	-
---	0 dan 9'a alarm kodu	-	-	-	-	-	-
h_	0 dan 9'a alarm houri	0	0	0	0	0	0
n_	0 dan 9'a alarm minutesı	0	0	0	0	0	0
---	0 dan 9'a alarm süresi	0	0	0	0	0	0
HcP (HACCP alarms)							
Ht0	HACCP alarm	0	0	0	0	0	0
HAn	HA alarm type number	0	0	0	0	0	0

CAREL PARAMETERS		ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
HA to HA2	HA type active HACCP alarm number	-	-	-	-	-	-
y_	From 1 to 3 alarm-Year	0	0	0	0	0	0
M_	From 1 to 3 alarm - month	0	0	0	0	0	0
d_	From 1 to 3 alarm - which day of the month	0	0	0	0	0	0
h_	From 1 to 3 alarm - hour	0	0	0	0	0	0
n_	From 1 to 3 alarm - minute	0	0	0	0	0	0
…	From 1 to 3 alarm - Alarm time	0	0	0	0	0	0
HFn	HF alarm type number	0	0	0	0	0	0
HF to HF2	HF type active HACCP alarm number	-	-	-	-	-	-
y_	From 1 to 3 alarm - Year	0	0	0	0	0	0
M_	From 1 to 3 alarm -month	0	0	0	0	0	0
d_	From 1 to 3 alarm - which day of the month	0	0	0	0	0	0
h_	From 1 to 3 alarm - hour	0	0	0	0	0	0
n_	From 1 to 3 alarm - minute	0	0	0	0	0	0
_	From 1 to 3 alarm - Alarm time	0	0	0	0	0	0
Htd	HACCP alarm delay 0 = alarm viewing deactivated	0	0	0	0	0	0
rtc (Real Time Clock)							
td1 to 8	Defrost time from 1 to 8 (press Set)	-	-	-	-	-	-
d_	From 1 to 8 defrost day selection 0 = no defrost 1 to 7 = days one by one from Monday to Sunday 8 = every day from Monday to Friday	0	0	0	0	0	0
	9 = everyday from Monday to Saturday						
	10 = only Saturday Sunday						
	11 = everyday						
h_	Defrost hour	0	0	0	0	0	0
n_	Defrost minute	0	0	0	0	0	0
P_	Power defrost selection 0 = Normal defrost; 1 =Power defrost	0	0	0	0	0	0
tS1 to 8	Time band starting from 1 to 8 (press Set)	-	-	-	-	-	-
d	Time band starting: day	0	0	0	0	0	0
h	Time band starting: hour	0	0	0	0	0	0
n	Time band starting: minute	0	0	0	0	0	0
tE1 to 8	Time band end from 1 to 8 (press Set)	-	-	-	-	-	-

CAREL PARAMETERS		ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
d	Time band end: day	0	0	0	0	0	0
h	Time band end: hour	0	0	0	0	0	0
n	Time band end: minute	0	0	0	0	0	0
tc	Real date/hour (press Set)	-	-	-	-	-	-
y_	Date/hour: year	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME
M_	Date/hour: month	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME
d_	Date/hour: which day of the month	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME
u_	Date/hour: which day of the week	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME
h_	Date/hour: hour	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME
n_	Date/hour: minute	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME

DANFOSS PARAMETERS		ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
Normal operation							
- - -	Temperature (setpoint)	-26	-20	-20	-20	0	2
Thermostat							
r01	Differential	2	2	2	2	2	2
r02	Max. limitation of setpoint setting	-22	-18	-18	-18	-4	-4
r03	Min. limitation of setpoint setting	-29	-23	-23	-23	4	4
r04	Adjustment of temperature indication	0	0	0	0	0	0
r05	Temperature unit (°C/°F)	0	0	0	0	0	0
r09	Correction of the signal from S4	0	0	0	0	0	0
r10	Correction of the signal from S3	0	0	0	0	0	0
r12	Manual service, stop regulation, start regulation (-1, 0, 1)	1	1	1	1	1	1
r13	Displacement of reference during night operation	0	0	0	0	0	0
r14	Define thermostat function 1=ON/OFF 2=Modulating	1	1	1	1	1	1
r15	Definition and weighting, if applicable, of thermostat sen- sors - S4% (100%=S4, 0%=S3)	100	0	0	0	50	50
r16	Time between melt periods	0	0	0	0	0	0
r17	Duration of melt periods	0	0	0	0	0	0
r21	Temperature setting for thermostat band 2 . As differential use r01	-26	-20	-20	-22	0	0
r59	Correction of the signal from S6	0	0	0	0	0	0
r61	Definition and weighting, if applicable, of thermostat sen- sors when night cover is on. (100%=S4, 0%=S3)	100	0	0	0	50	50
r62	Heat function Neutral zone between refrigeration and heat function	2	2	2	2	2	2
r63	Time delay at switch between refrigeration and heat function	0	0	0	0	0	0
Alarms							
A03	Delay for temperature alarm	15	15	15	15	20	20
A04	Delay for door alarm	0	0	0	0	0	0
A12	Delay for temperature alarm after defrost	60	60	60	60	60	60
A13	High alarm limit for thermostat 1	-18	-15	-15	-15	4	6
A14	Low alarm limit for thermostat 1	-30	-26	-26	-26	-6	-6
A20	High alarm limit for thermostat 2	-18	-15	-15	-15	4	6
A21	Low alarm limit for thermostat 2	-30	-26	-26	-26	-6	-6
A22	High alarm limit for sensor S6 at thermostat 1	8	8	8	8	8	8
A23	Low alarm limit for sensor S6 at thermostat 1	-30	-30	-30	-30	-30	-30
A24	High alarm limit for sensor S6 at thermostat 2	8	8	8	8	8	8
A25	Low alarm limit for sensor S6 at thermostat 2	-30	-30	-30	-30	-30	-30

DANFOSS PARAMETERS		ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
A26	S6 alarm time delay With setting = 240 the S6 alarm will be omitted	240	240	240	240	240	240
A27	Alarm time delay or signal on the DI1 input	30	30	30	30	30	30
A28	Alarm time delay or signal on the DI2 input	30	30	30	30	30	30
A36	Signal for alarm thermostat. S4% (100%=S4, 0%=S3)	100	0	0	0	50	50
A52	Delay for S6 (product sensor alarm) after defrost	90	90	90	90	90	90
Compressor							
c01	Min. ON-time	0	0	0	0	0	0
c02	Min. OFF-time	0	0	0	0	0	0
c05	Time delay for cutin of comp.2	5	5	5	5	5	5
Defrost							
d01	Defrost method 0=off 1= EL 2= gAs	1	1	1	1	1	1
d02	Defrost stop temperature	10	10	12	12	10	10
d03	Interval between defrost starts	8	8	6	6	6	6
d04	Max. defrost duration	35	35	35	35	45	45
d05	Displacement of time on cutin of defrost at start-up	0	0	0	0	0	0
d06	Drip off time	2	2	2	2	3	3
d07	Delay for fan start after defrost	2	2	2	2	0	0
d08	Fan start temperature	-5	-5	-5	-5	-5	-5
d09	Fan cutin during defrost 0: Stopped 1: Running 2: Running during pump down and defrost	1	1	0	0	1	1
d10	Defrost sensor 0 =Stop on time 1=S5 2=S4 3=Sx (Application 1-8 and 10: both S5 and S6. Application 9: S5 and S5B)	3	1	1	1	1	1
d16	Pump down delay	0	0	0	0	0	0
d17	Drain delay (used at hot gas defrost only)	0	0	0	0	0	0
d18	Max. aggregate refrigeration time between two defrosts	0	0	0	0	0	0
d20	Heat in drip tray. Time from defrosting stops to heating in the drip tray is switched off	30	30	30	30	30	30

DANFOSS PARAMETERS		ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
d21	Adaptive defrost: 0=not active, 1=monitoring only 2=skip allowed day 3=skip allowed both day and night 4=own assessment + all schedules	0	0	0	0	0	0
d23	Time delay before opening of hot gas valve	0	0	0	0	0	0
d27	Rail heat during defrost 0=off 1=on 2=Pulsating	2	2	2	2	2	2
d40	Max. duration of -d- in display	30	30	30	30	30	30
Injection control function							
n09	Max. value of superheat reference	12	12	12	12	12	12
n10	Min. value of superheat reference	3	3	3	3	3	3
n11	MOP temperature. Off if MOP temp. = 15.0 °C	15	15	15	15	15	15
n13	Period time of AKV pulsation Only for trained personnel	6	6	6	6	6	6
Fan							
F04	Fan stop temperature (S5)	50	50	50	50	50	50
F05	Pulse operation on fans: 0=No pulse operation 1=At thermostat cuts out only 2= Only at thermostat cut outs during night operation	0	0	0	0	0	0
F06	Period time for fan pulsation (on-time + off-time)	5	5	5	5	5	5
F07	On-time in % of period time	100	100	100	100	100	100
Real time clock							
t01-t06	Six start times for defrost. Setting of hours. 0=OFF	0	0	0	0	0	0
t11-t16	Six start times for defrost. Setting of minutes. 0=OFF	0	0	0	0	0	0
t07	Clock - Setting of hours	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME
t08	Clock - Setting of minute	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME

DANFOSS PARAMETERS			ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
t45	Clock - Setting of date		REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME
t46	Clock - Setting of month		REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME
t47	Clock - Setting of year		REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME
Miscellaneous								
o01	Delay of output signals after start-up		5	5	5	5	5	5
o02	Input signal on DI1. Function:		0	0	0	0	0	0
	0=not used	7=thermostat band changeover (activate r21)						
	1=status on DI1	8=alarm function when closed						
	2=door function with alarm when open	9=alarm function when open						
	3=door alarm when open	10=Appliance cleaning (pulse signal)						
	4=defrost start (pulse-signal)	11=forced cooling at hot gas defrost						
	5=ext.main switch	12=night cover						
	6=night operation	15=case shut down						
o03	Network address		0	0	0	0	0	0
o04	On/Off switch (Service Pin message) IMPORTANT! o61 **must** be set prior to o04 (used at LON 485 and DANBUSS only)		Off	Off	Off	Off	Off	Off
o05	Access code 1 (all settings)		0	0	0	0	0	0
o06	Used sensor type		0	0	0	0	0	0
	0=Pt1000							
	1=Ptc1000,							
o08	Readout of software version		**	**	**	**	**	**
o16	Max hold time after coordinated defrost		20	20	20	20	20	20
o17	Select signal for display view. S4% (100%=S4, 0%=S3)		100	0	0	0	50	50
o20	Pressure transmitter working range – min. value		-1	-1	-1	-1	-1	-1
o21	Pressure transmitter working range – max. value		12	12	12	12	12	12

DANFOSS PARAMETERS				ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
o30	Refrigerant setting:			19	19	19	19	19	19
	1=R12	15=R227	29=R1270						
	2=R22	16=R401A	30=R417A						
	3=R134a	17=R507	31=R422A						
	4=R502	18=R402A	32=R413A						
	5=R717	19=R404A	33=R422D						
	6=R13	20=R407C	34=R427A						
	7=R13b1	21=R407A	35=R438A						
	8=R23	22=R407	36=R513A						
	9=R500	23=R410A	37=R407F						
	10=R503	24=R170	38=R1234ze						
	11=R11	25=R290	39=R1234yf						
	12=R142b	26=R600	40=R448A						
	13=User defined	27=R600a	41=R449A						
	14=R32	28=R744	42=R452A						
o30	Refrigerant setting:			19	19	19	19	19	19
o37	Input signal on DI2. Function:			0	0	0	0	0	0
	(0=not used.	5=ext. main switch	10=Appliance cleaning (pulse signal).						
	1=status on DI2.	6=night operation	11=forced cooling at hot gas defrost.).						
	2=door function with alarm when open.	7=thermostat band changeover (activate r21).	12=night cover,						
	3=door alarm when open.	8=alarm function when closed.	13=coordinated defrost).						
	4=defrost start (pulse-signal).	9=alarm function when open.	15=case shut down						
o38	Configuration of light function:			1	1	1	1	1	1
	1=Light follows day /night operation,								
	2=Light control via data communication via 'o39',								
	3=Light control with a DI-input,								
	4=As "2", but light switch on and night cover will open if the network cut out for more than 15 minutes.								
o39	Activation of light relay (only if o38=2) On=light			Off	Off	Off	Off	Off	Off
o41	Rail heat On time during day operations			100	100	100	100	100	100
o42	Rail heat On time during night operations			100	100	100	100	100	100
o43	Rail heat period time (On time + Off time)			10	10	10	10	10	10
o46	Appliance cleaning.			0	0	0	0	0	0
	0=no Appliance cleaning.								
	1=Fans only.								
	2=All output Off.								
o61	Selection of EL diagram. See overview page 12 and 13			9	1	4	4	1	1
o62	Download a set of predetermined settings. See overview page 27.			0	0	0	0	0	0

DANFOSS PARAMETERS				ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
o64	Access code 2 (partial access)			0	0	0	0	0	0
o67	Replace the controllers factory settings with the present settings			Off	Off	Off	Off	Off	Off
o84	Input signal on DI3. Function: (high voltage input)			0	0	0	0	0	0
	(0=not used.	6=night operation,	12=night cover.						
	1=status on DI2.	7=thermostat band changeover (activate r21)	13=Not used.						
	2=door function with alarm when open.	8=Not used.	14=Refrigeration stopped (forced closing)).						
	3=door alarm when open	9=Not used.	15=case shut down						
	4=defrost start (pulse-signal).	10=Appliance cleaning (pulse signal).							
	5=ext. main switch	11=forced cooling at hot gas defrost,							
o85	Rail heat control			0	0	0	0	0	0
	0=not used,								
	1=pulse control with timer function (o41 and o42),								
	2=pulse control with dew point function								
o86	Dew point value where the rail heat is minimum			8	8	8	8	8	8
o87	Dew point value where the rail heat is 100% on			17	17	17	17	17	17
o88	Lowest permitted rail heat effect in %			30	30	30	30	30	30
o89	Time delay from "open door" refrigeration is started			30	30	30	30	30	30
o90	Fan operation at stopped cooling (forced closing): 0= Stopped (defrost allowed)			1	1	1	1	1	1
	1= Running (defrost allowed)								
	2= Stopped (defrost not allowed)								
	3= Running (defrost not allowed)								
o92	1=defrost stop temperature,			1	1	1	1	1	1
	2=S6 temperature,								
	3=S5_B temperature (application 9), 4=S3B (application 10)								
o97	Display of temperature			1	1	1	1	1	1
	1= u56 Air temperature								
	2= u36 product temperature								
o98	Light and night blinds defined			0	0	0	0	0	0
	0: Light is switch off and night blind is open when the main switch is off								
	1: Light and night blind is independent of main switch								

DANFOSS PARAMETERS		ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
P41	Configuration of alarm relay The alarm relay will be activated upon an alarm signal from the following groups: 1 - High temperature alarms 2 - Low temperature alarms 4 - Sensor error 8 - Digital input enabled for alarm 16 - Defrosting alarms 32 - Miscellaneous 64 - Injection alarms The groups that are to activate the alarm relay must be set by using a numerical value which is the sum of the groups that must be activated. (E.g.: a value of 5 will activate all high temperature alarms and all sensor error and 0 will cancel the relay function).	1	1	1	1	1	1