



USER MANUAL PATNOS

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1. Preface

Dear Customer,

Before using your appliance, please read the user manual carefully. The User Manual contains important information about the setup, safety, use and maintenance of your device. This way, you can protect yourself and prevent any damage to your device. Please keep the User Manual and forward it to the next owner of the appliance.

Ahmet Yar products do not contain PCB, PCT, asbestos, formaldehyde, cadmium, similar harmful substances and substances which could harm the user. The manufacturer has no responsibility for any damages that may occur in cases such as incorrect use of the appliance, installation errors, failure to do periodic maintenance, failure to use original spare parts, failure to comply with the information provided, warnings and precautions.

2. Safe operation

Some descriptions and applications in this guide may vary depending on appliance type and model.



THIS APPLIANCE IS MANUFACTURED IN ACCORDANCE WITH LEGAL SAFETY LEGISLATIONS.

For safe use, the following rules should be observed:

- Before connecting the appliance to the electrical socket, compare type label data (voltage and frequency) with the data of your power grid. These data must match with each other to ensure that your appliance is not damaged. If in doubt, please call your electrician.
- The safety of your appliance can only be ensured if the protected cable system (earthing) is furnished in accordance with the rules. It is very important that this basic security measure is met. If in doubt, have a specialist examine the electrical installation. Otherwise, the manufacturer cannot be held responsible for any damages that may occur. (E.g. Electric shock)
- Installation, connection and repair of the appliance should only be carried out by specialist personnel. Otherwise, the manufacturer cannot be held responsible for any potential dangers to the user.
- Do not use an extension cord in any way on the electrical connection of the appliance. Extension cables cannot provide the necessary safety for your device.
- Do not keep explosive materials or materials containing flammable gases (eg. spray boxes) in your appliance. It can cause mixtures to explode.
- Do not operate power tools inside the appliance. There may be a sparks. Danger of explosion!
- Never use steam pressure cleaning tools during the cleaning of the appliance. Pressured steam may leak into electrically conductive parts and cause short circuits.
- If you have any doubts about the electrical connection, operation or safety of the appliance, ask your service for help.
- Do not remove any external protection cover unless otherwise specifically specified in this manual. Otherwise, you may contact electrical parts that could be life-threatening.
- All work on electrical parts must be carried out by an authorised and expert electrician or person.
- Maximum loading limits shall be taken into account when products are loaded into the appliance.
- Protective equipment shall be used during cleaning and maintenance of the appliance. E.g: Gloves)
- Do not allow children to play with the appliance.
- The appliance shall not be used by people with physical (visual, aural) or mental disabilities, children and people with lack of experience and knowledge, without the supervision of a person responsible for their safety. Children shall be supervised when using the appliance and made sure that they do not tamper with the appliance.

3. Introduction

This manual was prepared for PATNOS appliance. This document includes general information on how to use the appliance, its specifications, installation and assembly, information and recommendations for users, and cleaning/maintenance operations.

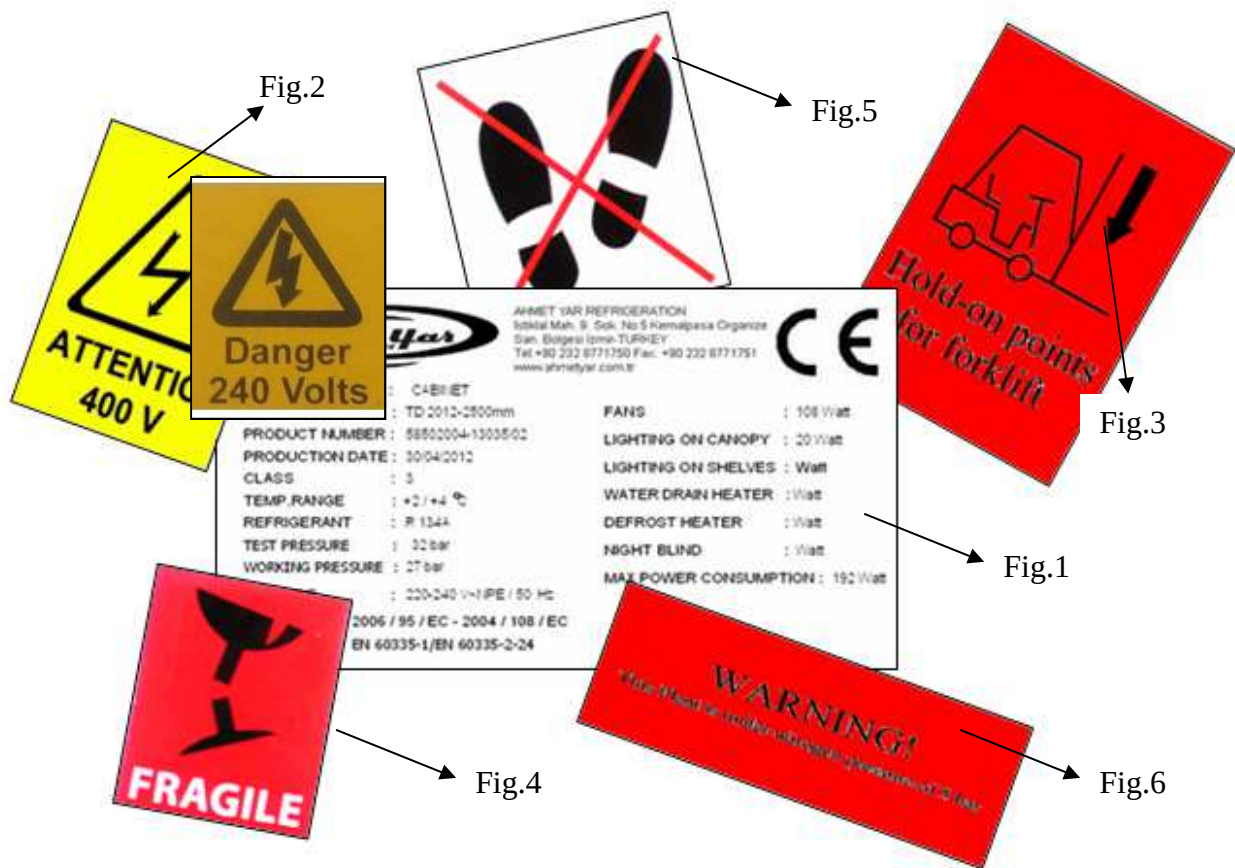
PATNOS is a vertical type, front cover, multi-shelf refrigerator designed for display of frozen food, meat, fish, ice-cream, etc. It is suitable for use in markets and hypermarkets with its high performance, wide display and loading capacity. The display is defrost type and has resistant-feature.



4. Warning and Specification Labels on the Appliance

The labels on the appliance and their general content (which may vary depending on the type and model of the appliance) are as follows.

- **Product Introduction Label (Figure.1):** The product introduction label is located inside the cabin and contains technical information about the appliance, such as: Manufacturer logo and address information, product certificate and manufacturer's quality certificates, appliance model, serial number, date of manufacture, climate class, temperature range, type of refrigerant used in the appliance, approved certificates of the appliance and the directives that the appliance conforms, test pressure, operating pressure, operating voltage values, power values for the evaporator fan power values for the lighting, power values for the night curtain, power values for the defrost resistors, power values for the frame resistors, power values for the glass resistors, etc.
- **High Voltage Label (Figure.2):** The high voltage label is on the appliance's electricity box.
- **Transport Label (Fig.3):** Pallets are installed on the refrigerators for transportation purposes. Forklift or pallet transport can be done thanks to these pallets. There is a label on the appliance indicating the parts that can be used for load bearing during transport. Transport shall be done so that the label in question coincides with the middle section of the forklift arms.
- **Fragile Label (Figure.4):** This label on the product means that there is a risk of breakage during transport. Care shall be taken to prevent any damage that may occur at this point.
- **"Do not step on it" label (Figure.5):** Located on the base of the appliance, over the pan.
- **Pressure Label (Figure.6):** The pressure label is located at the outlet of copper pipes. It is used for the determination of the amount of nitrogen.



5. Norms and Certificates

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

ENVIRONMENTAL CLIMATIC ENVIRONMENT (EN 23953-2)

This appliance has been tested in accordance with Climatic Environment 3.

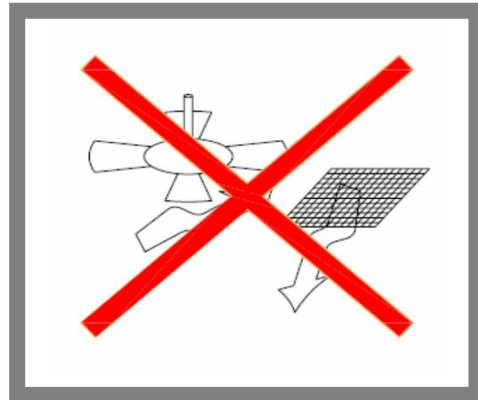
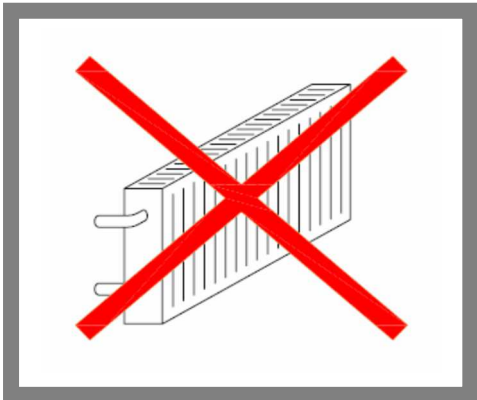
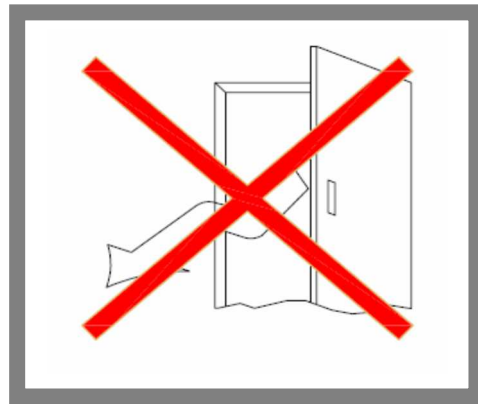
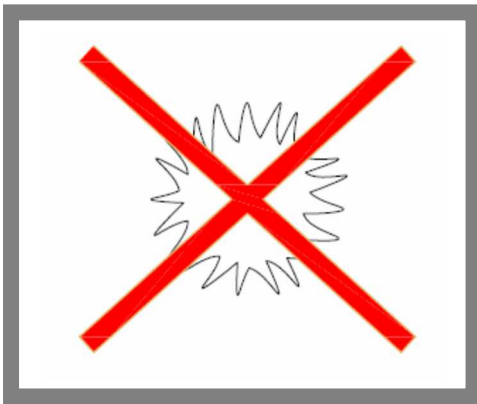
Climatic Environment	Dry Air Temperature	Relative Humidity	Dew Point
1	16°C	80%	12°C
2	22°C	65%	15°C
3	25°C	60%	17°C
4	30°C	55%	20°C
5	40°C	40%	24°C
6	27°C	70%	21°C

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

6. Placement and environmental conditions

The following clauses shall be observed for the placement of the appliance.

- Do not place your appliance exposed to direct sunlight.
- Do not place your appliance in front of a door.
- Do not place your appliance near any heat source.
- Do not place your appliance in a place exposed to direct airflow, such as a fan, air conditioner etc.
- Do not place your appliance outdoors.
- Do not place your appliance near explosive gas sources.



7. Cleaning, Maintenance and Technical Service



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

Make sure that the packaging is not damaged when the appliance first arrived. Unpack without damaging the appliance. Make sure that no parts are damaged or are out of place. In case of any damage, call the supplier.

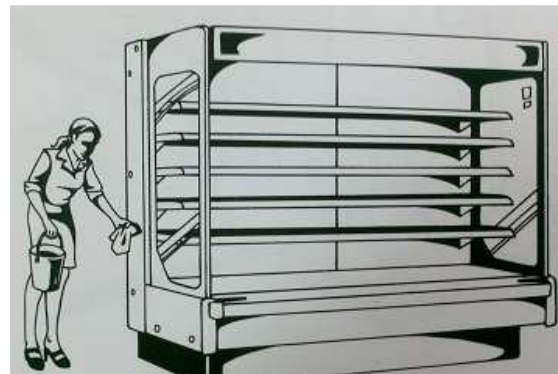
Maintenance and cleaning of your appliance is mandatory at certain time intervals. The cleaning shall be done by the user. Cleaning includes the cleaning of the internal and external surfaces of the appliance. Before cleaning your appliance, turn off the cooling and lighting switches and disconnect the power. Take the products inside the appliance out and store them at a place where they will not deteriorate during the cleaning process.



DO NOT USE ABRASIVE SUBSTANCES, ALCOHOL, SODA OR CHEMICAL SOLVENTS AS CLEANING MATERIALS!

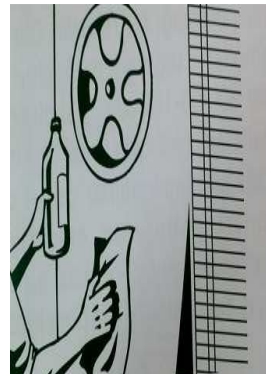
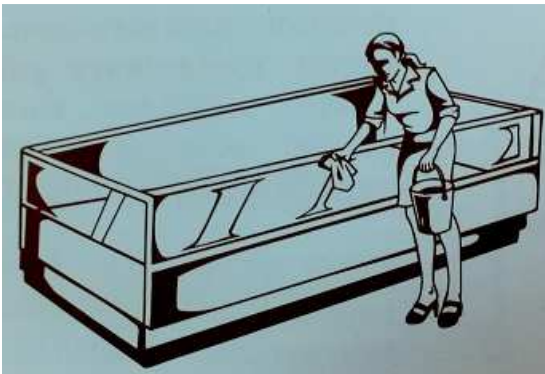
A. External Cleaning (Daily/Weekly)

- Clean the outer parts of the cabinet weekly with detergent and warm water.
- Clean using a soft cloth and clean water.
- Do not use materials, abrasives, scrubbing wires or solvents which 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.



B. Internal Cleaning (Monthly)

- Before cleaning the internal parts of the appliance, wait for the internal temperature to reach ambient temperature.
- Remove all removable parts (eg. pan, shelves, mesh wires, etc.), clean them with hygienic cleaners mixed with warm water and dry carefully.
- When cleaning the pans, make sure that foreign materials and dirt do not fall into the fans.
- Wipe the dirt from the evaporator section with a damp cloth, after cleaning the liquid and leftovers from the products.
- Disinfect the interior part of the appliance so that bad odors caused by decays and deterioration do not affect the products inside. When disinfecting the appliance, do not use substances which have a strong odor and may cause acidification.
- If the water drain is completely clogged, wash it with plenty of water without removing it. Repeat this process until you are sure that the water drain has been cleaned.
- In case of abnormal operation of the appliance during or after the cleaning process, please contact the authorized technical service.



NEVER USE STEAM PRESSURE CLEANING TOOLS DURING THE CLEANING OF THE APPLIANCE. PRESSURED STEAM MAY LEAK INTO



DO NOT USE HOT WATER ON COLD GLASS SURFACES. THIS MAY CAUSE THE GLASS TO SHATTER AND CAUSE INJURIES!

After cleaning, put back the products into your appliance and make sure that the fans, ceiling lights, electrical cables and all other electrical equipment are dry. Switch the lighting and cooling on.

C. Technical Service

- 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 the refrigerator twice a day.
- Load the appliance in accordance with the loading line, do not exceed the upper limit.
- When the appliance fails, immediately remove the products from the device.
- Replace any fallen screws or failed lights immediately.
- Periodically check the automatic defrost.
- Make sure there is no abnormal water condensation, if so, call the cooling technician immediately.
- Always perform periodic maintenance.

Appliances may malfunction even when they are maintained and cleaned properly. 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 may be a problem with the appliance, cooling group or the installation. Contact the technical service immediately. Transfer the products in your refrigerator to another medium that prevents them from deteriorating, until the technical service arrives.

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



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

8. Electrical Connections



BEFORE MAKING THE ELECTRICAL CONNECTIONS, CHECK THE ELECTRICAL DIAGRAM ON THE PILOT BOX AND MAKE THE

The following details shall be checked when electrical connections are made.

- 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.
- The safety of your appliance can only be ensured if the protected cable system (earthing) is furnished in accordance with the rules. It is very important that this basic security measure is met. If in doubt, have a specialist examine the electrical installation.
- The maximum current fluctuation shall be $\pm 6\%$.
- 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.
- Do not use an extension cord in any way on the electrical connection of the appliance.
- 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%)
- All work related to the electrical connection of the device and other electrical parts shall be carried out by an authorized and expert person with an electrical certificate.

9. Recycling

Each country separates and recycles refrigerator parts according to their waste disposal and environmental laws. Parts used in our products in general are as follows;

Painted sheets: Poles, shelves, shelf handles, back panel, pans.

Copper-Aluminium: Condenser, evaporator, electrical parts.

Galvanized sheets: Bottom panels, painted panels, simple pieces, pan.

Polyurethane: Thermal injection.

Thermopane: Glass parts.

PVC: Handles

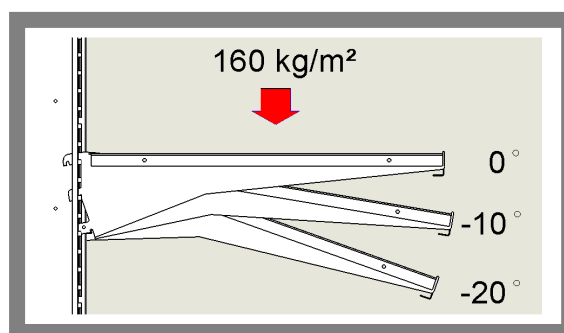
Polystyrene: Thermoform side walls.

Polycarbonate: Lighting cover.

10. Loading Products into the Refrigerator

Below is important information about loading the appliance.

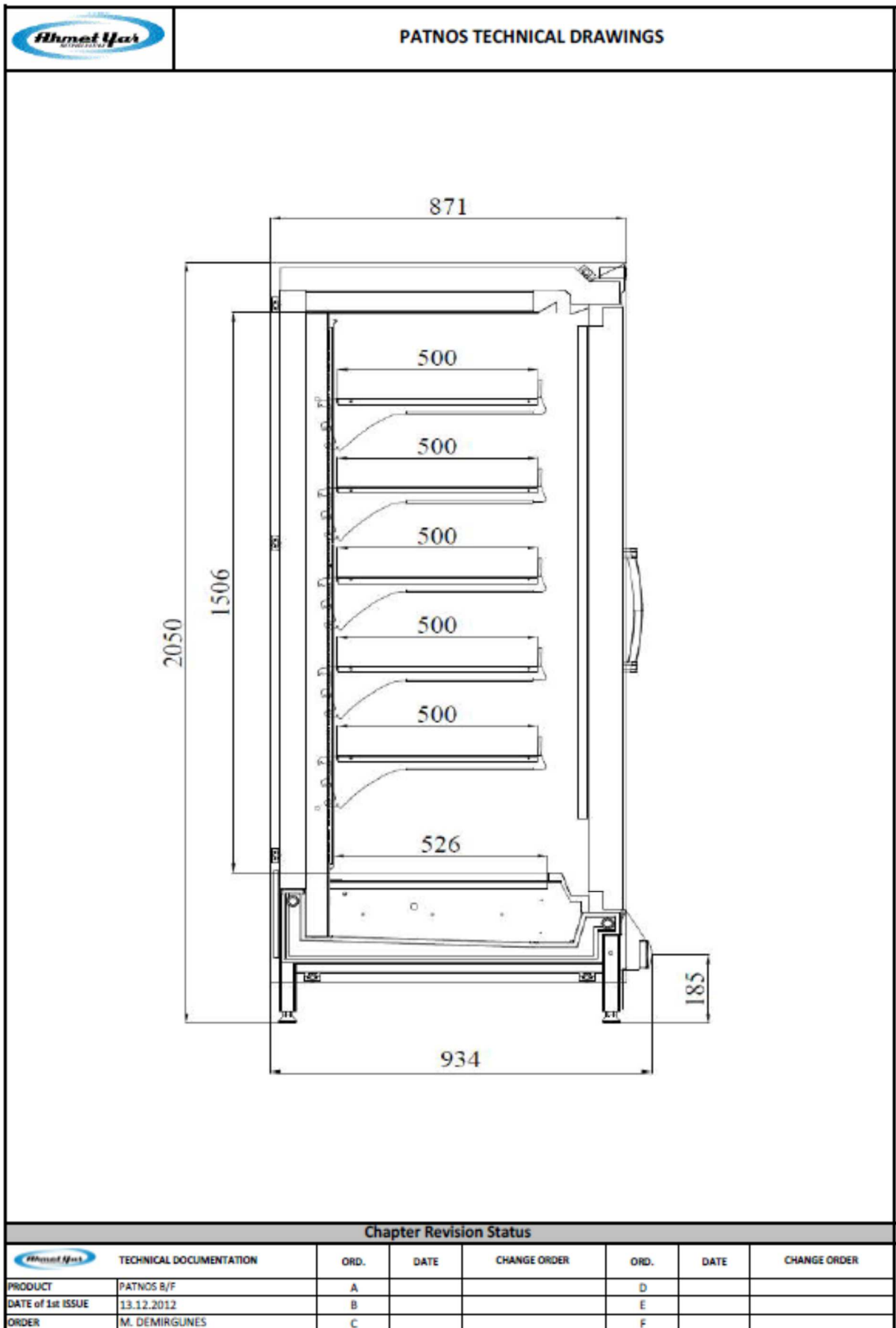
- Place the products on the shelves neatly.
- Do not exceed the loading capacity in pans and shelves. (160 kg/ m²)
- Shelves can be used at different angles depending on the appliance type. (0°, 10°, 20°)
- Do not leave space between products loaded on the same shelf in appliances with shelves.
- Leave a minimum of 30mm space for air circulation between the upper shelf and the product in shelved appliances.
- Do the loading appropriately considering the product consumption rates.
- Do not load products anywhere other than shelves and pans.
- Do not install products that are not allowed to be cooled into your appliance.
- Do not load the appliance in a way that can prevent the cold air flow. (E.g. Air intake area)

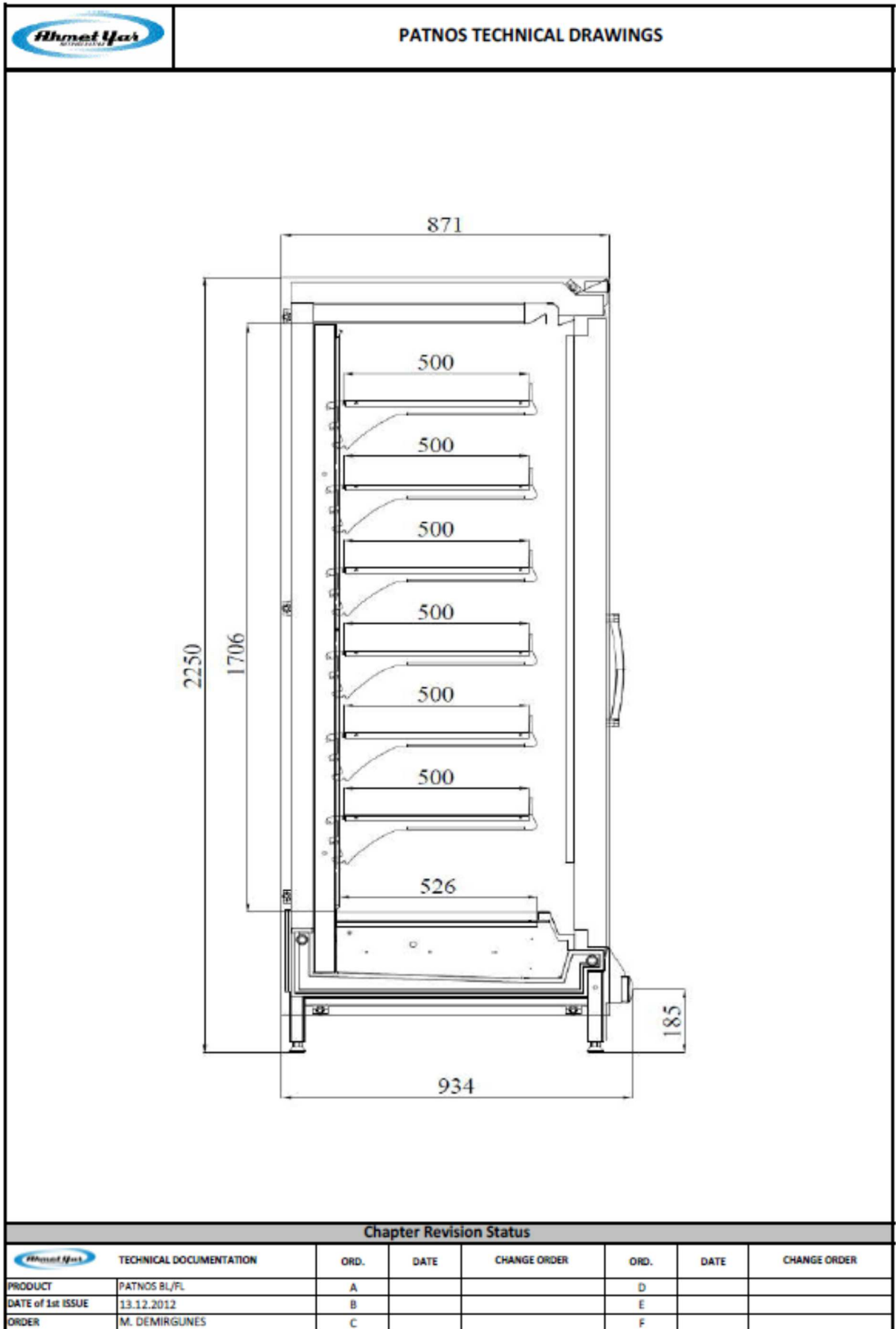


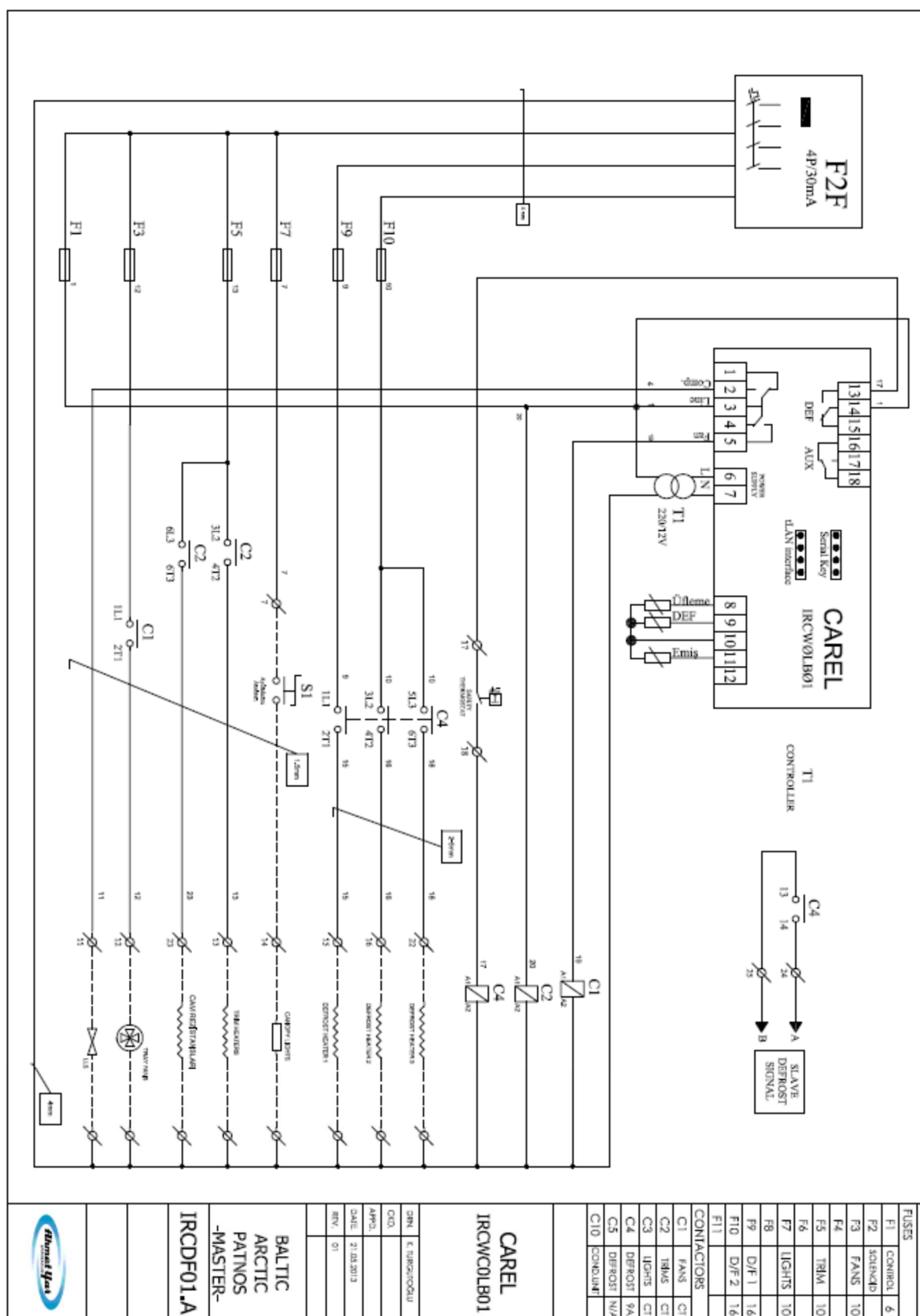
11. Technical Details

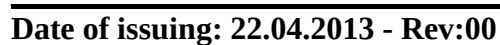
PATNOS TECHNICAL DATA SHEET

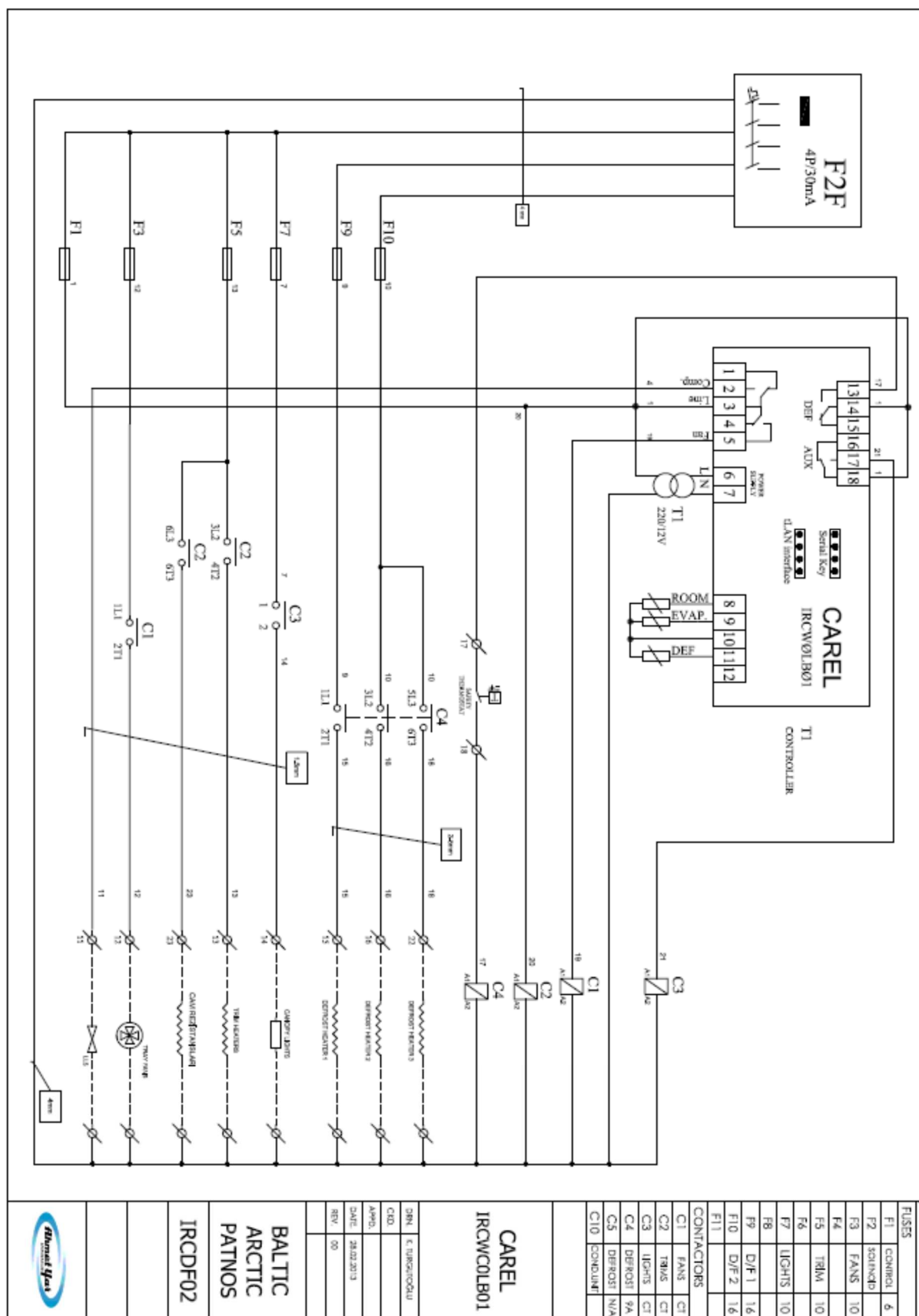
TECHNICAL DETAILS		2D	3D	4D	5D
Refrigeration Load					
Case Temp (°C)	B/BL	+1/+10			
	F/FL	-21/-23			
Evap Temp (°C)	B/BL	-11			
	F/FL	-35			
Duty (kW)	B	0,54	0,80	1,08	1,35
	BL	0,59	0,88	1,18	1,48
	F	1,07	1,60	2,14	2,67
	FL	1,17	1,76	2,34	2,93
Expansion Valve (R404)	B/BL	TES 02 Or.00 AKV 10-1	TES 02 Or.01 AKV 10-2	TES 02 Or.01 AKV 10-2	TES 02 Or.01 AKV 10-3
	F/FL	TES 02 Or.01 AKV 10-2	TES 02 Or.02 AKV 10-3	TES 02 Or.03 AKV 10-4	TES 02 Or.03 AKV 10-4
Pipe Size - Suction	B/BL	12 mm	12 mm	12 mm	16 mm
	F/FL	15 mm	15 mm	19 mm	19 mm
Pipe Size - Liquid	B/BL/F/FL	10 mm			
Pipe Size - Drain	B/BL/F/FL	40 mm			
Cubic Capacity (dm ³)	B/F	1294	1941	2588	3229
	BL/FL	1466	2198	2931	3657
Display Area (m ²)	B/F	4,73	7,09	9,45	11,80
	BL/FL	5,51	8,26	11,02	13,74
Defrost Details					
Defrost Type	B/BL	Air			
	F/FL	Electric			
Duration (minutes)	B/BL	4 x 30			
	F/FL	2 x 55			
Termination		Temp (+8)			
Defrost Heaters					
Evaporator (Coil)	F/FL	1 x 600W 2 x 400W	1 x 1000W 2 x 600W	1 x 1200W 2 x 800W	1 x 1400W 2 x 1000W
Frame (Schott Termofrost Hi-Lite)	F/FL	275W	380W	546W	615W
Doors (Schott Termofrost Hi-Lite)	F/FL	2 x 140W	3 x 140W	4 x 140W	5 x 140W
Front Glass	F/FL	-	-	-	-
Side Glass	F/FL	75W/pc	75W/pc	75W/pc	75W/pc
End Walls	F/FL	-/pc	-/pc	-/pc	-/pc
Body	F/FL	-	-	-	-
Water Drain	B/BL/F/FL	16W	16W	16W	16W
Air Return	B/BL/F/FL	-	-	-	-
Air Intake	B/BL/F/FL	-	-	-	-
Electrical / Fans					
Supply	B/BL/F/FL	230 V / 50 Hz			
Lighting (TB)	B/BL/F/FL	3 x 58W	4 x 58W	5 x 58W	6 x 58W
Evaporator Fans (Standard)	B/BL/F/FL	2 x 38W ø230mm/28"	3 x 38W ø230mm/28"	4 x 38W ø230mm/28"	5 x 38W ø230mm/28"
Evaporator Fans (Low Energy)	B/BL/F/FL	2 x 27W ø230mm/28"	3 x 27W ø230mm/28"	4 x 27W ø230mm/28"	5 x 27W ø230mm/28"
Cabinet Controller Setup					
The cabinet was fitted with Danfoss EKC148 controller utilizing five PT1000 probes located as follows					
S1 Evaporator Inlet					
S2 Evaporator Inlet					
S3 Return Air					
S4 Supply Air					
S5 Defrost Termination					
The cabinet controls on the air off probe (S4)					
Parameter		Settings			
Case control set point	F/FL	-30	-30	-30	-30
Differential		1	1	1	1
r15		100	100	100	100
r16		0	0	0	0
r17		0	0	0	0
A03		10	10	10	10
A12		90	90	90	90
A13		-18	-18	-18	-18
A33		003	003	003	003
d02		6	6	6	6
d03		12	12	12	12
d04		55	55	55	55
d06		3	3	3	3
d07		2	2	2	2
d09		off (no)	off (no)	off (no)	off (no)
o01		0	0	0	0
o17		100	100	100	100
o29		6	6	6	6
Design Conditions					
Temp (°C)	25	Humidity (%)	60	Cross Draft Air Speed (m/s)	0,2
CHAPTER REVISION STATUS					
TECHNICAL DOCUMENTATION		ORIG.	DATE	CHANGE ORDER	ORIG.
PRODUCT		A	13.12.2012	NO. DEM. REVISIONS	D
DATE OF THE ISSUE		B			E
ORDER		C			F

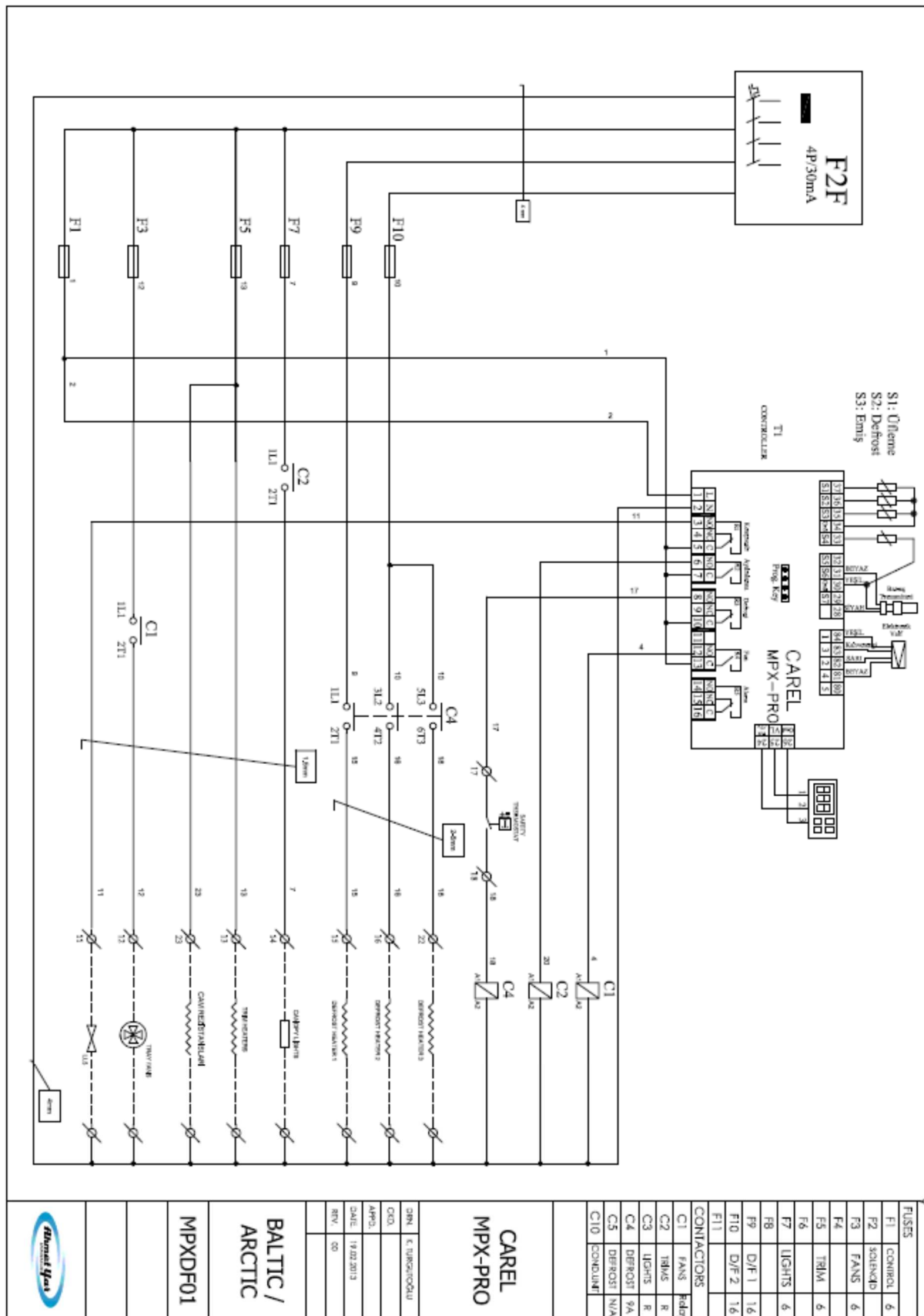


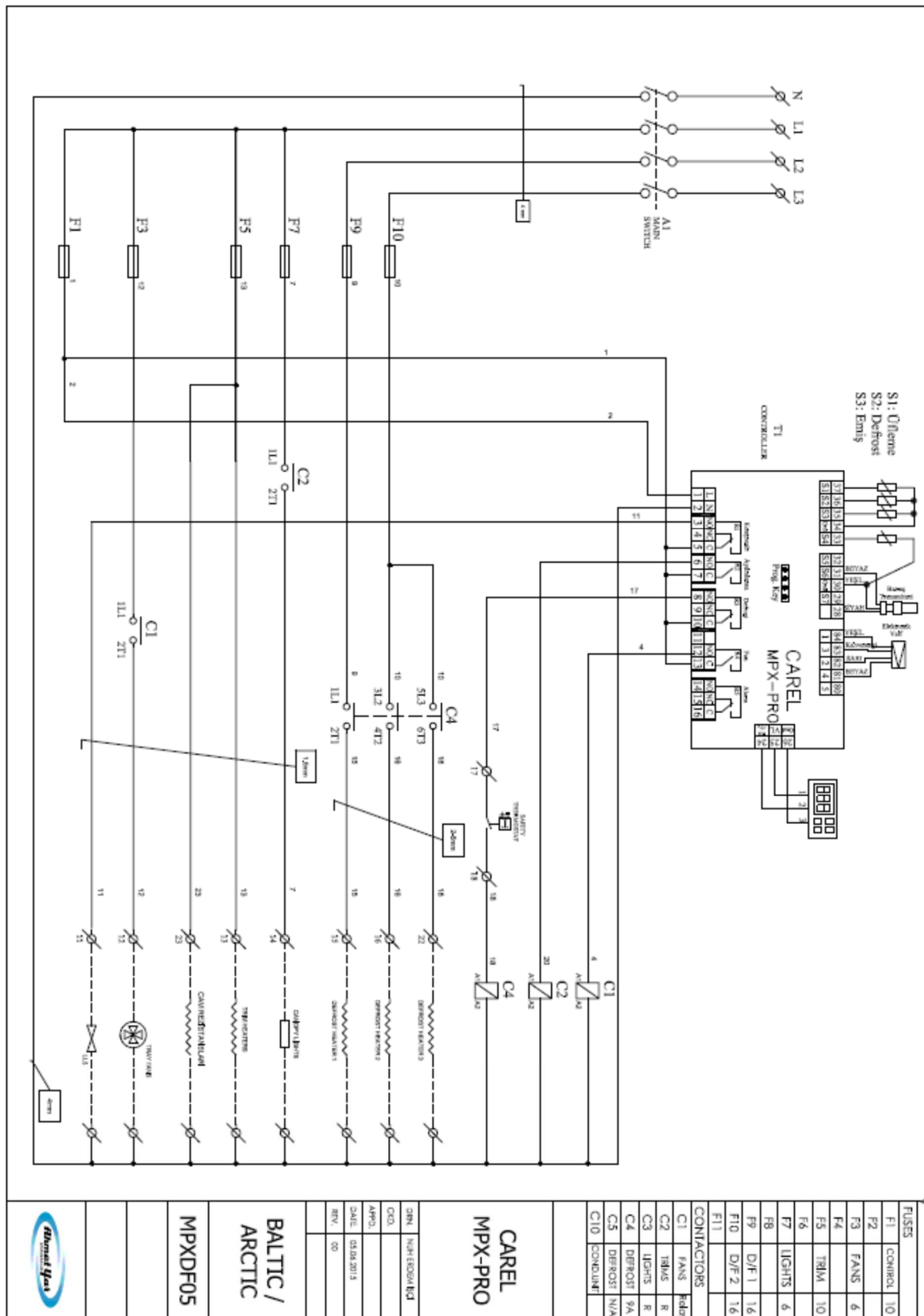


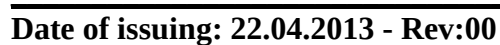


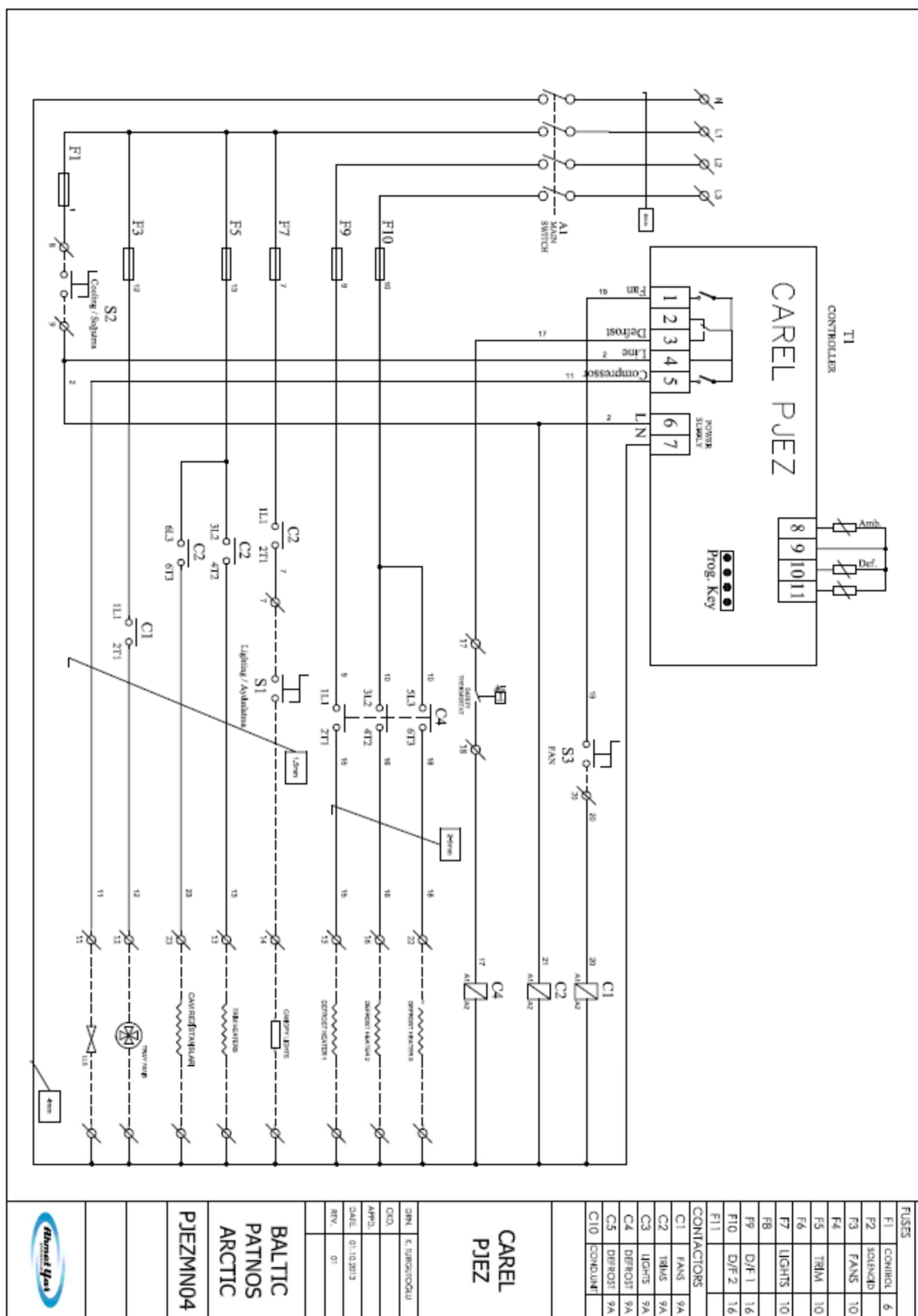


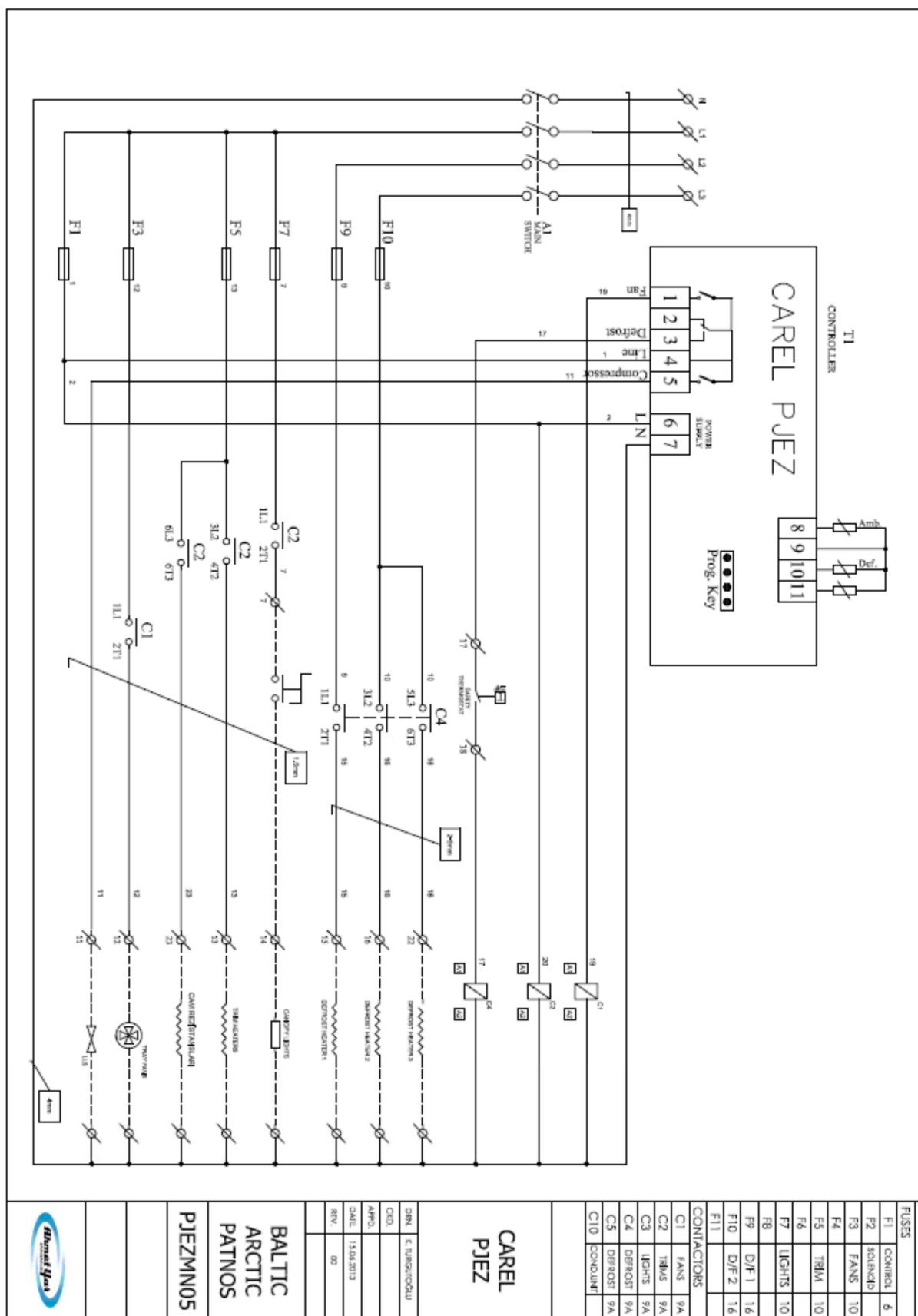


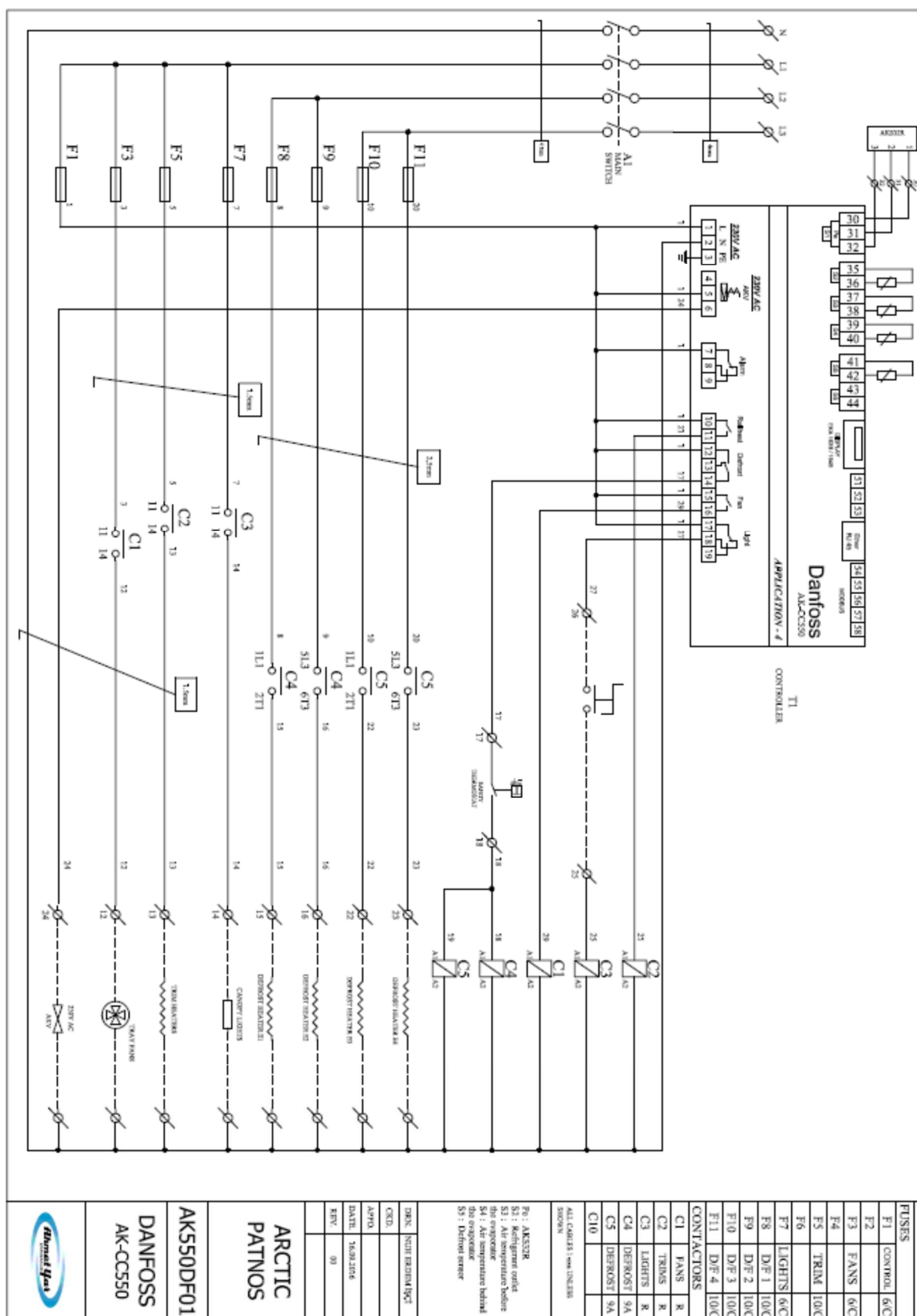


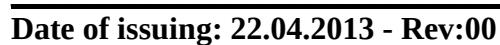


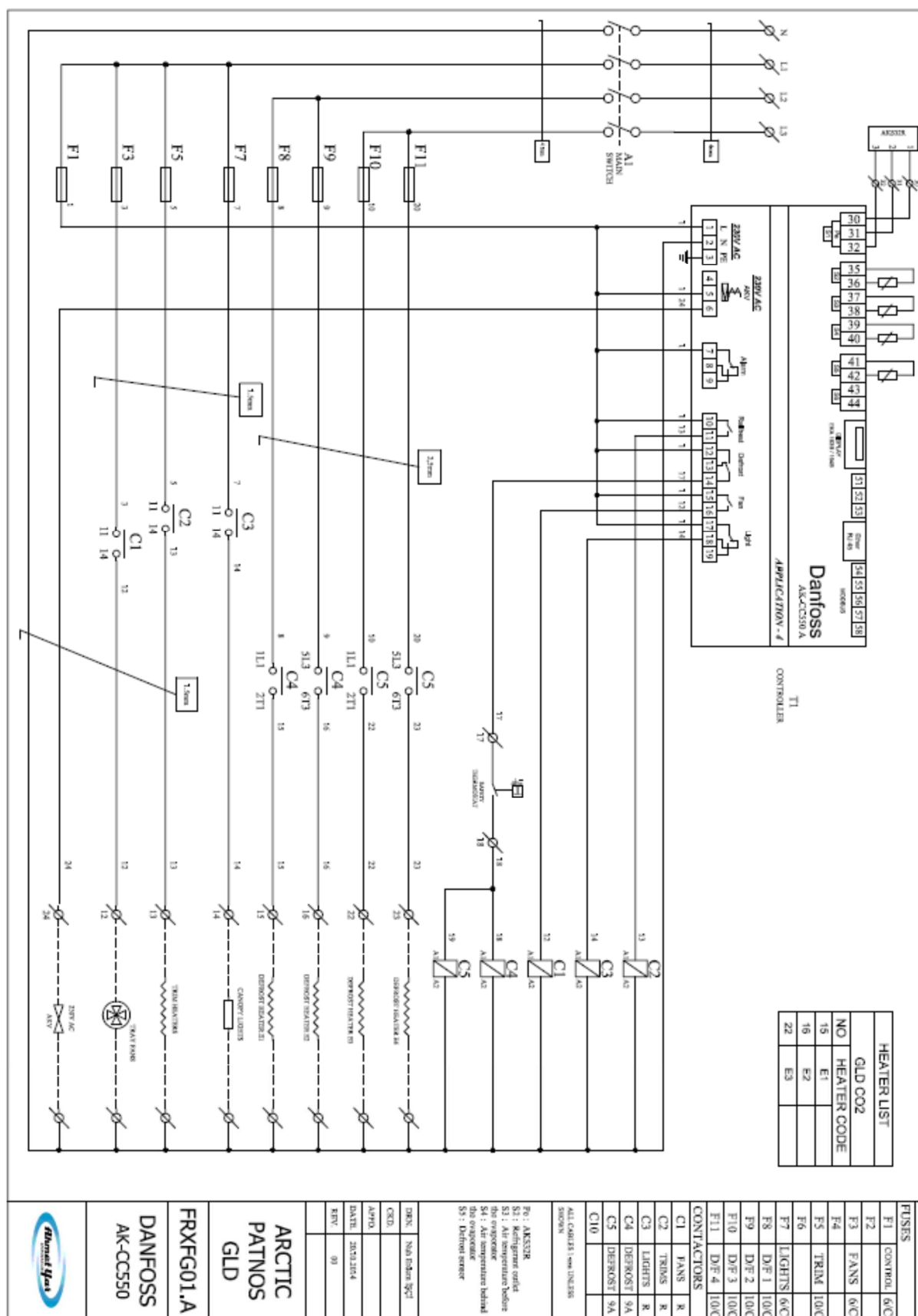


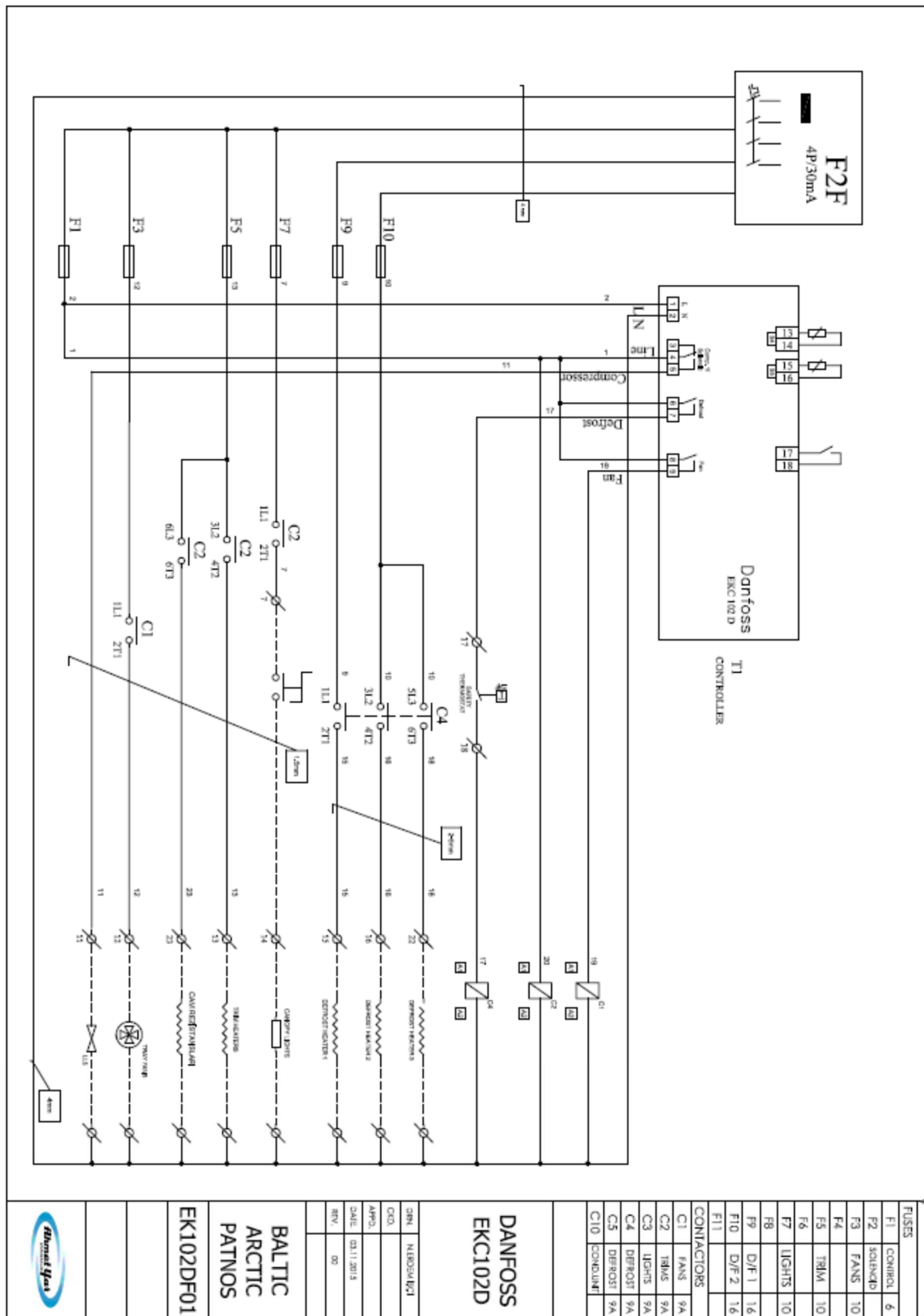


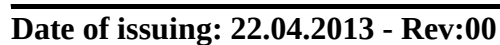


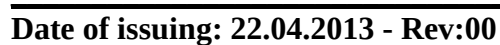


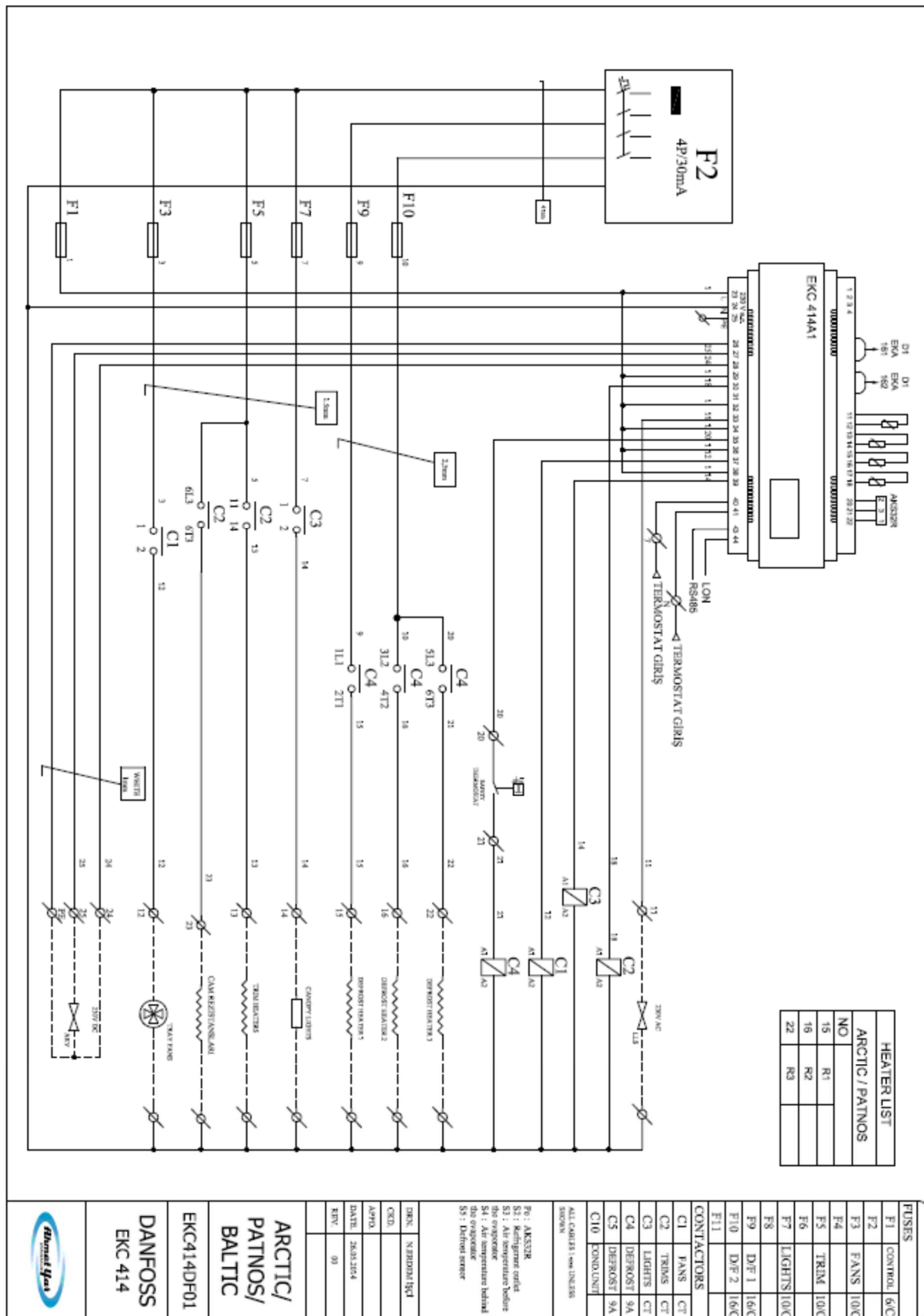


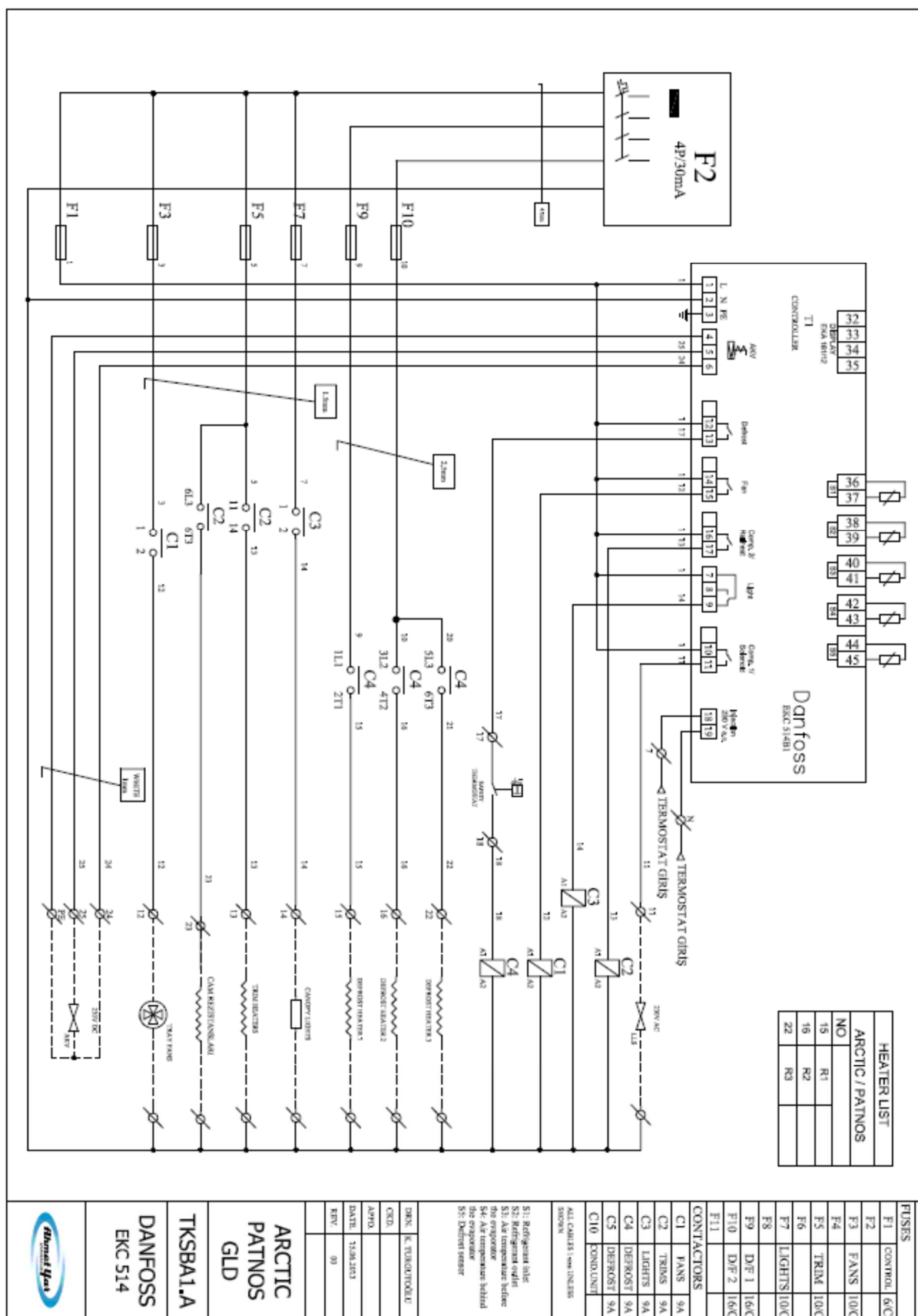


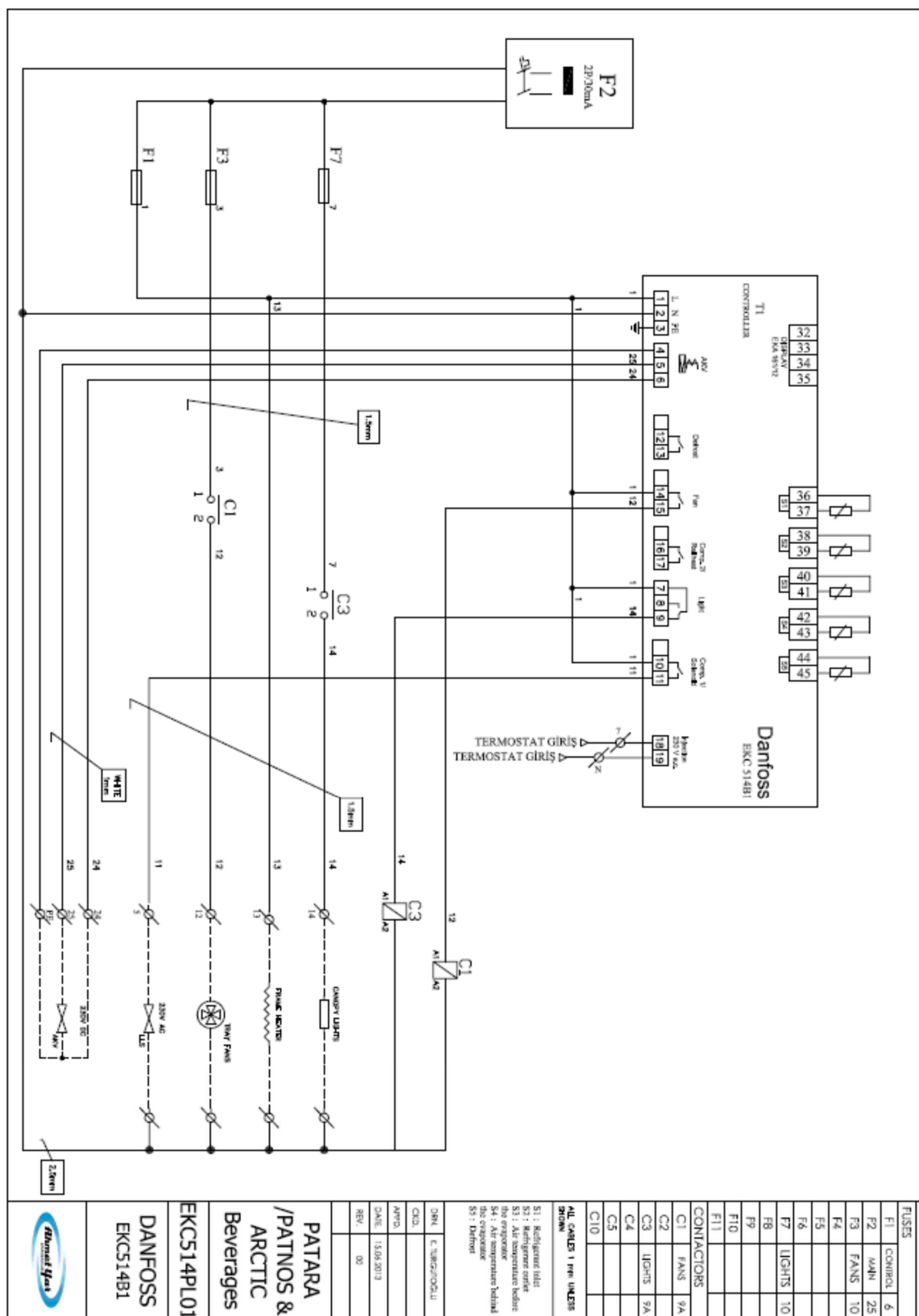


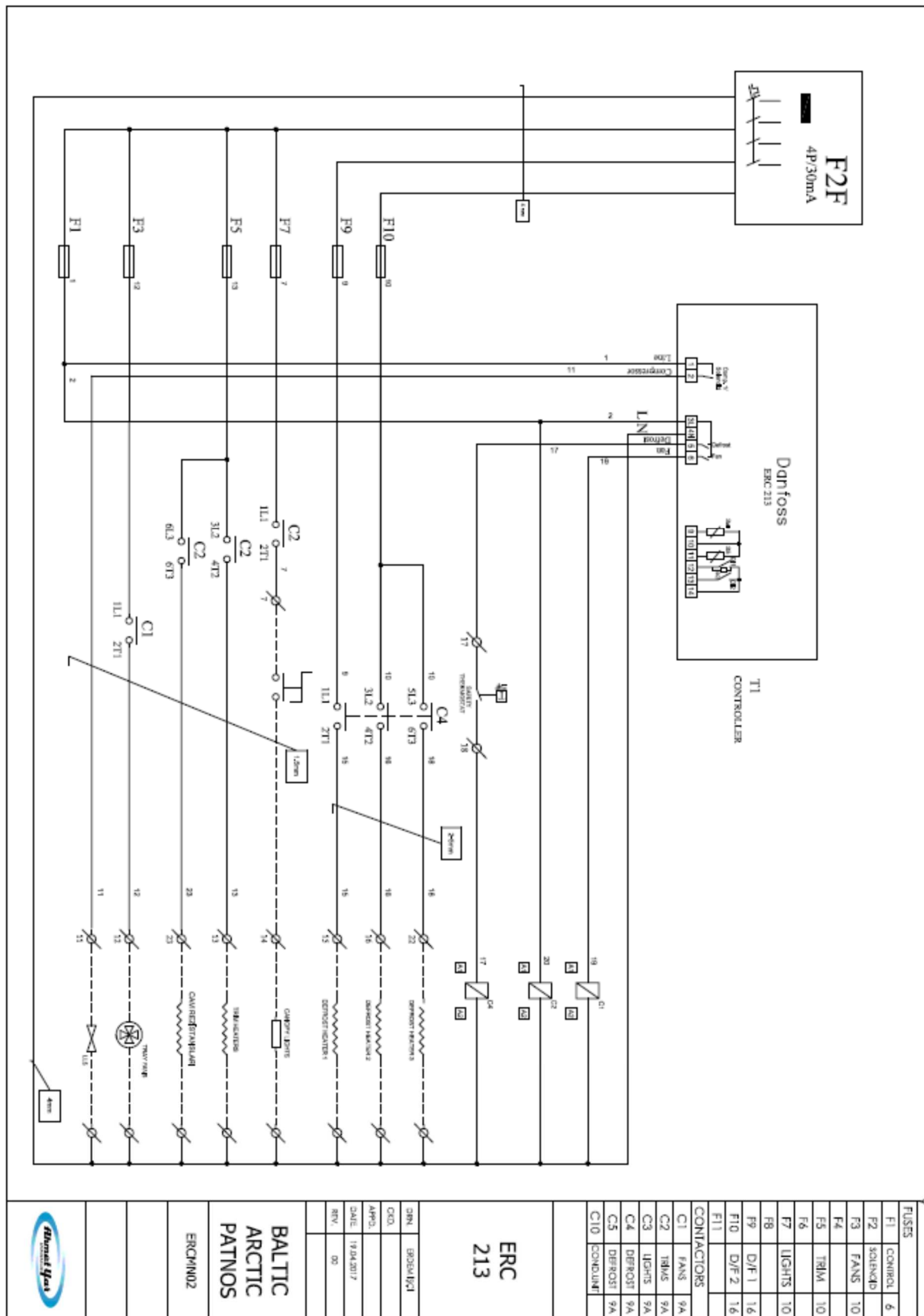


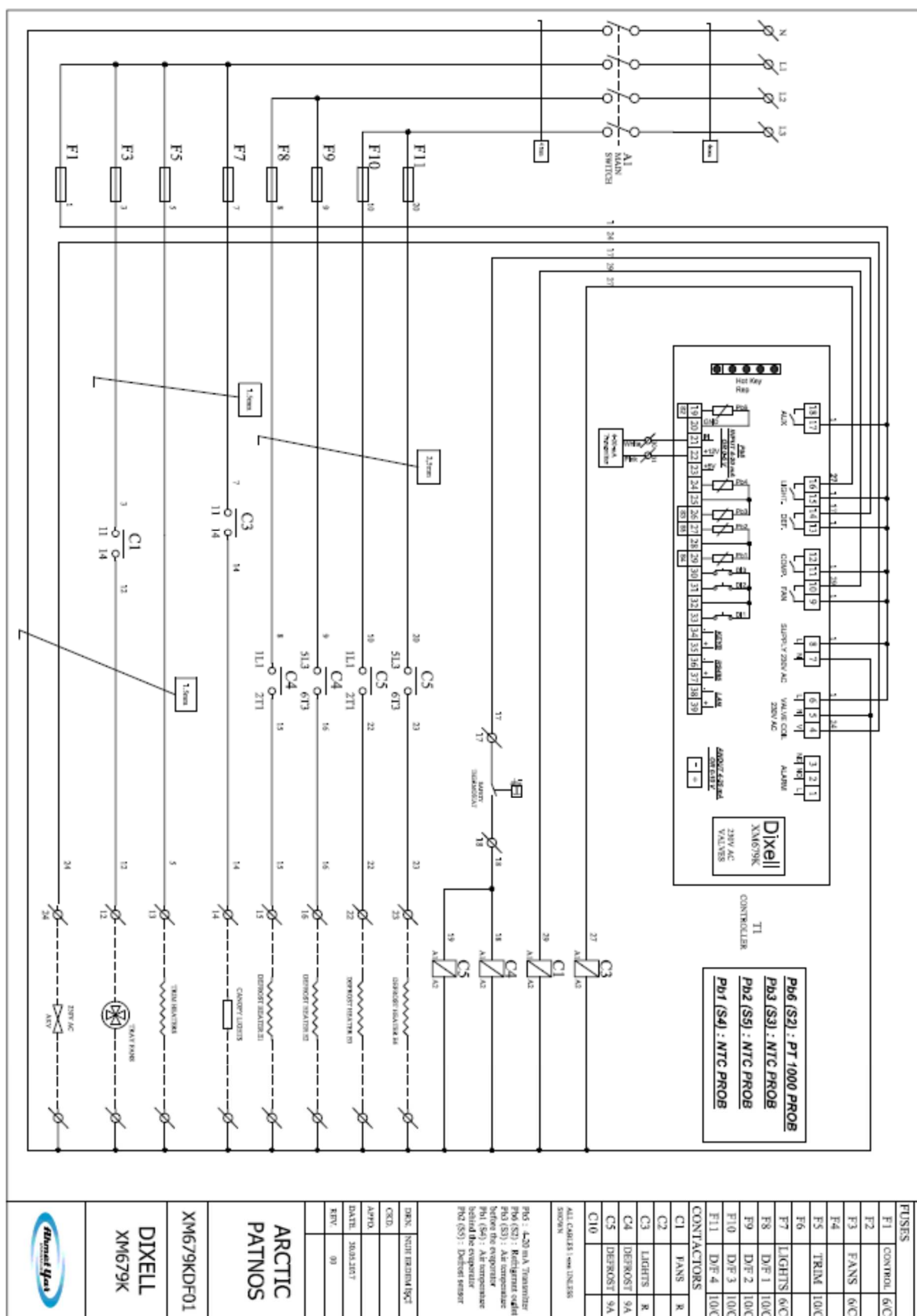


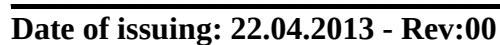


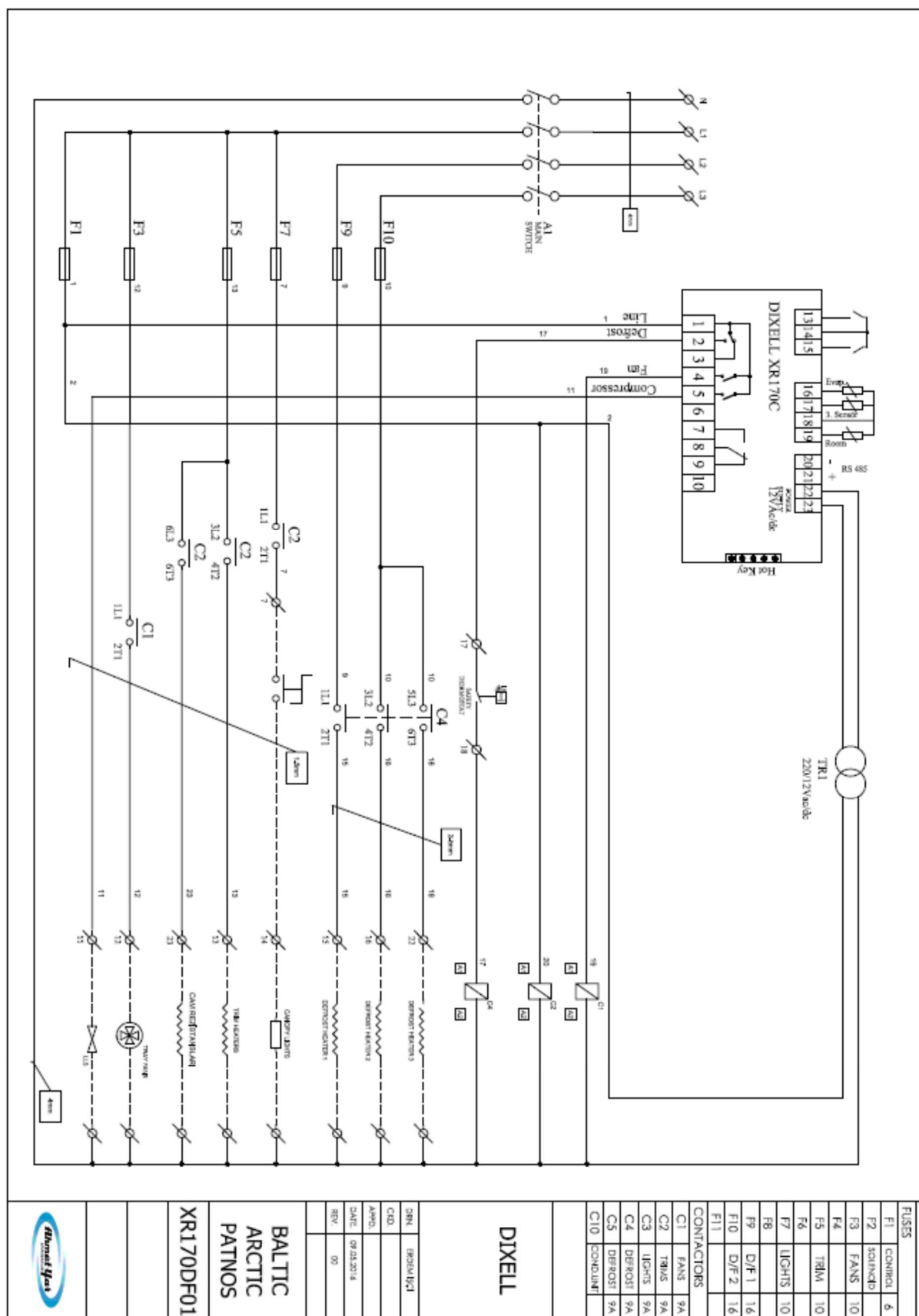


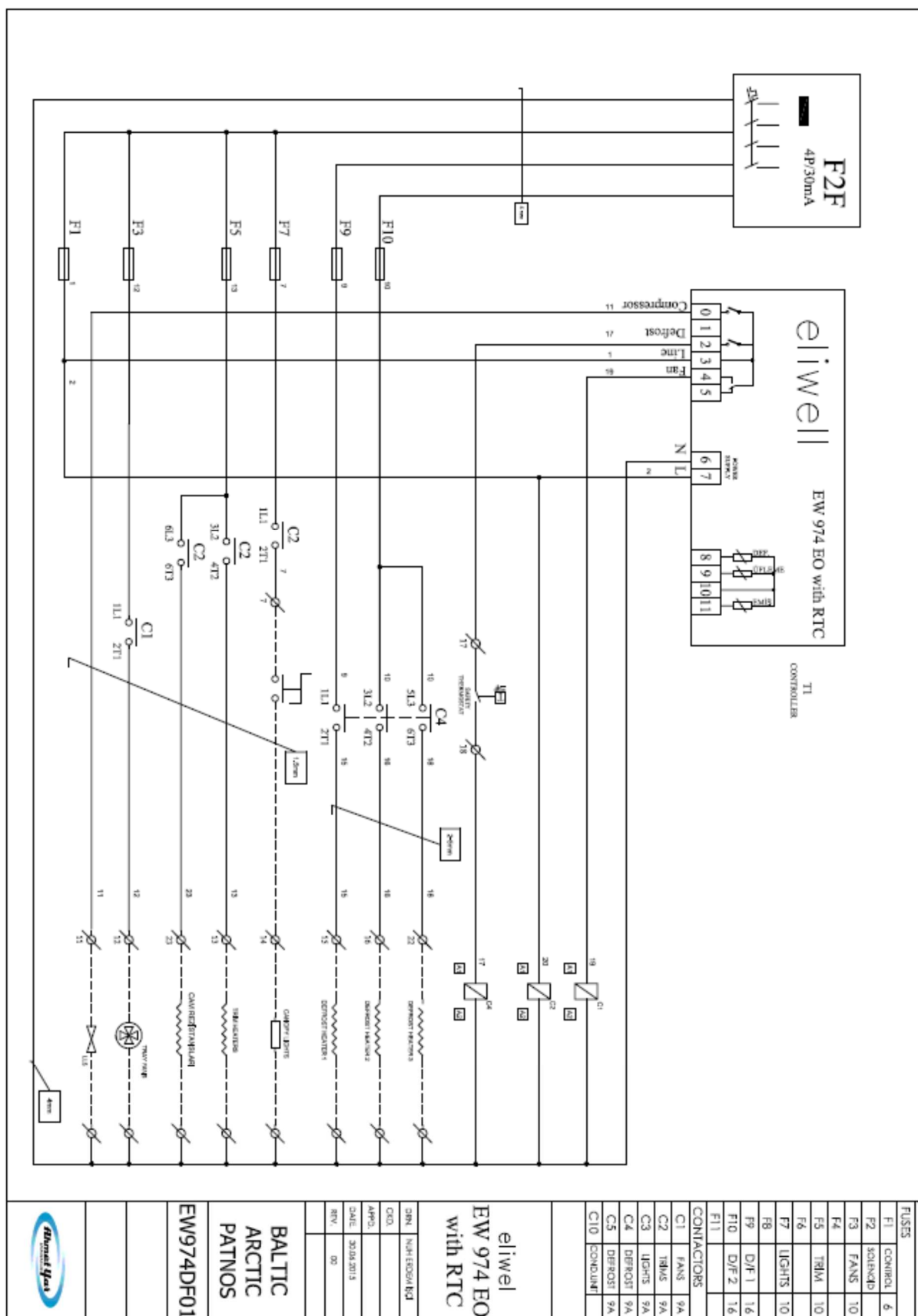


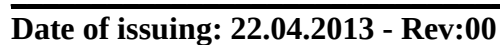


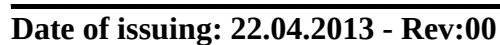


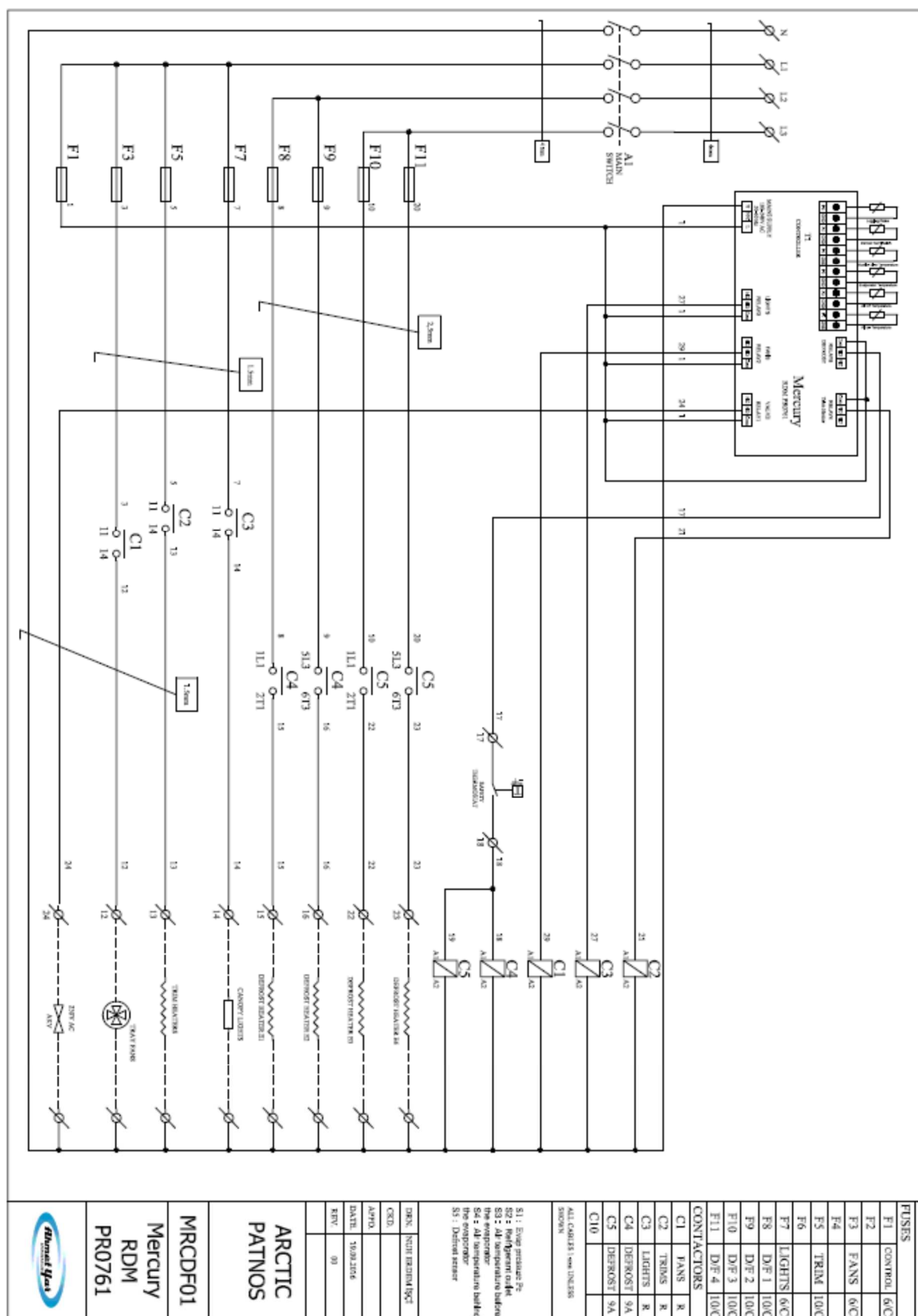












12. Installation and Assembly

This section includes the installation and assembly operations of the product. Before starting the installation and assembly, the user manual of the product should be read thoroughly and the safety-related items specified in the manual should be followed.

Joining Two Refrigerators

Follow the sequence below to combine two or more refrigerators:

- Remove sidewalls (if any)
- Bring the refrigerators side by side and remove the pallets.
- Adjust the height of the legs of the refrigerators and bring their aisles on the same level (Figure. 1) Check the accuracy using a water gauge (Figure 2).

Side Strut Connection Installation

Attach the fasteners to the fixing holes on the base plates on the sides of the refrigerator and tighten them with a wrench (Fig.3). The fasteners to be used and their locations on the refrigerator are shown in Fig.4 and Table.1.

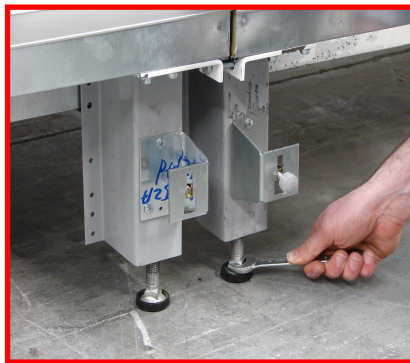


Figure.1

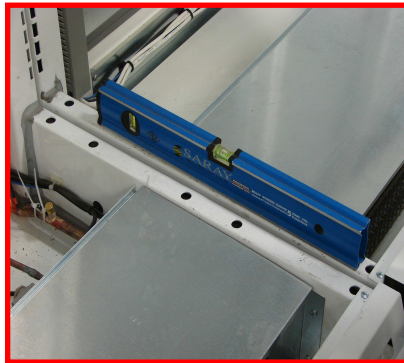


Figure.2

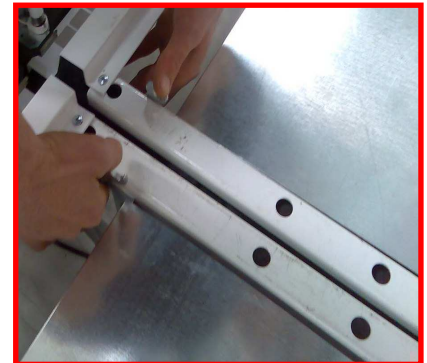


Figure.3

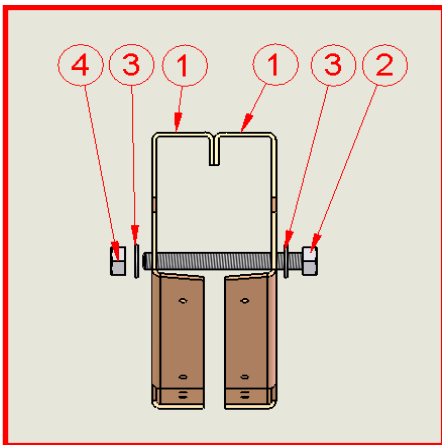


Figure.4

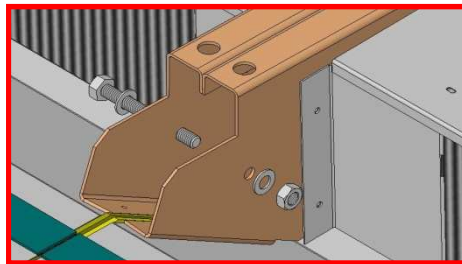


Figure.5

Table 1

NO	Part name	Piece
1	Refrigerator side strut	On the product
2	M8x90 Hex head bolt	1
3	M8 gasket	2
4	M8 nut	1

Front body, upper panel connections

There are one (Figure 7) cabinet puller sheet in the front lower part of the body and two in the cabinet ceilings (Figure 6). Attach anchor bolts to the connection bolts in cabinet puller sheets and tighten (Figure.6-7) Connection members and places are shown in Figure.8 and Table.2.



Figure.6

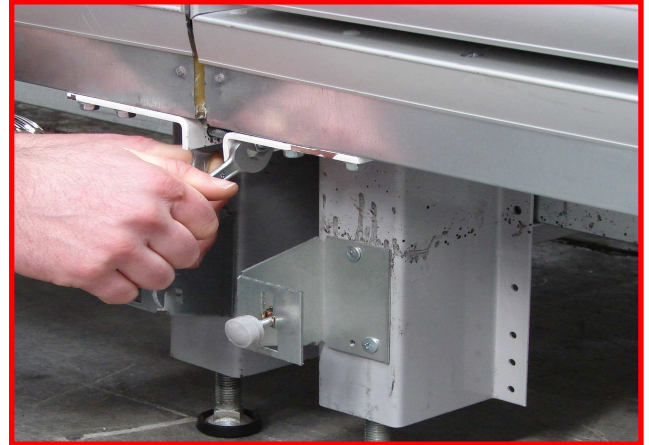


Figure.7



Figure.8



NO	Part name	Piece
1	Cabinet puller sheet	5
2	M8x40 6K coated bolt	5
3	M8 nut	5

Table.2

Side Strut Connections:

There are two screw holes in side struts to fix two refrigerators to each other. Two refrigerators shall be attached to each other by use of materials stated in Table 3 and in points shown in Figure.9.

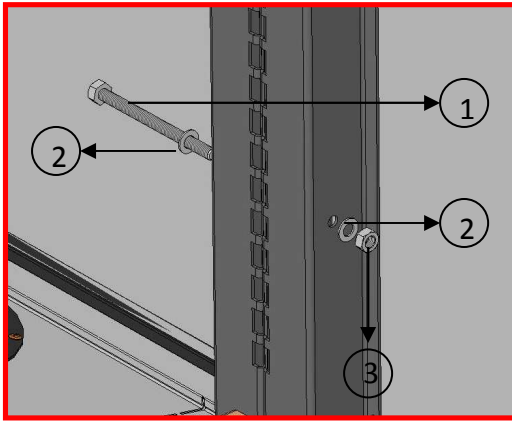


Figure.9

NO	Part name	Piece
1	M8x150 6K coated bolt	2
2	Washer	4
3	M8 nut	2

Table.3

Lower decor and base installation

Bumper plastic, bumper-end plastic piece and lower decor aluminium and lower decor cover is installed. Screw the installed decor to decor fixing aluminium parts on the cabinet. (Figure.10-11) The part under the bottom decoration of the refrigerator cabinets which cover the legs of the refrigerator is called the base. The base is connected to the cabinet legs with the base knob. Place the base plastic into base sheet. (Figure.12) Fix the base sheet to the holes under the cabinet via base knob. (Figure.13)



Figure.10



Figure.11

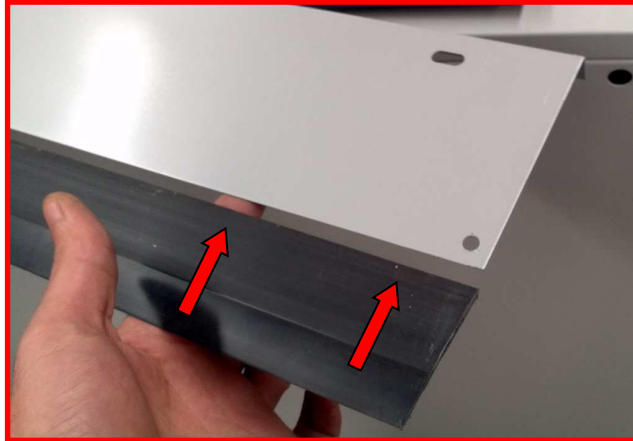


Figure.12



Figure.13

NO	Part name	Pieces			
		2D	3D	4D	5D
1	Base knob	2	2	3	3
2	Base 2D / 3D / 4D /5D	1	1	1	1
3	Base plastic	1	1	1	1
4	M6 nut	2	2	3	3
5	Lower decor stud sheet	On the product			

Table.4

Installation of refrigerator side to the refrigerator:

Adhere insulating tape to the body polyurethane side support and panel plastic to join refrigerator side to the refrigerator. (Figure.14) Attach sheet nuts to the sockets as shown in Figure 16. Align the connection holes on the side (Figure 15) to the connection members on the refrigerator. Tighten the nuts with screw (Figure 17-18).

Install the plastic plugs. Connection members to be used to join refrigerator side to the refrigerator are shown in Figure.19 and Table.5.

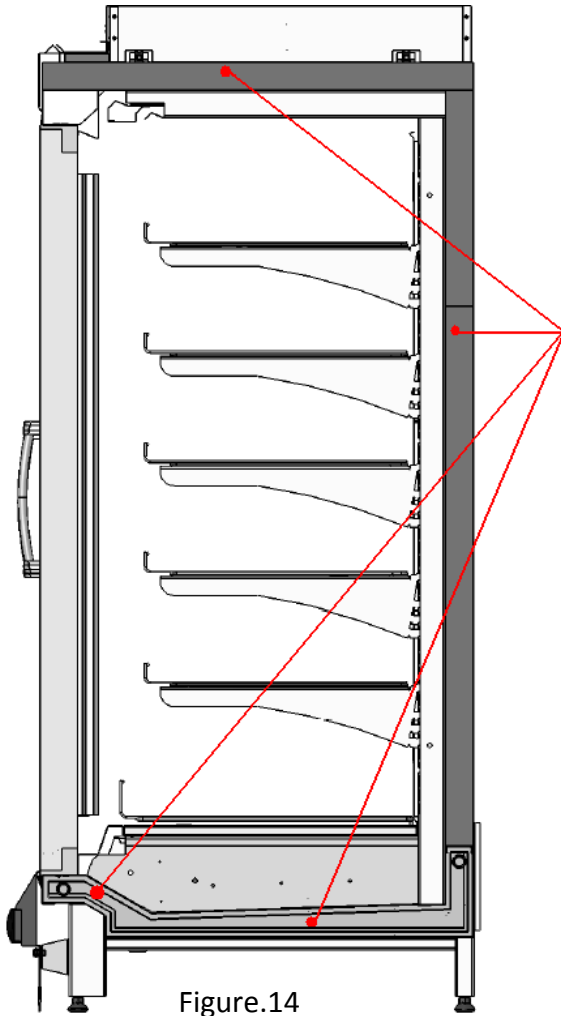


Figure.14

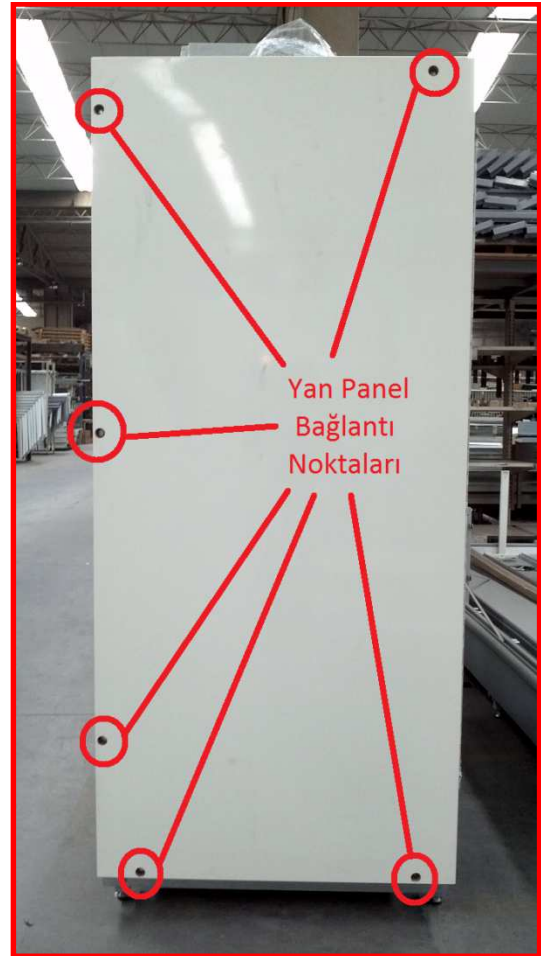


Figure.15

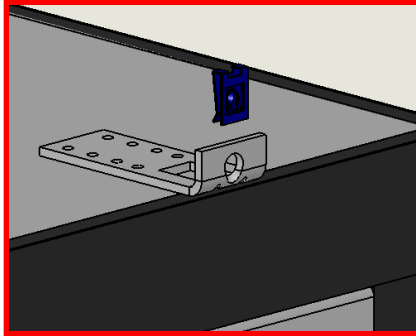


Figure.16



Figure.17



Figure.18

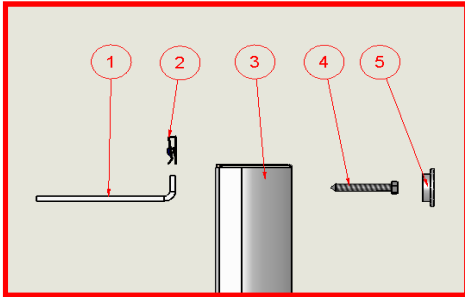


Figure.19

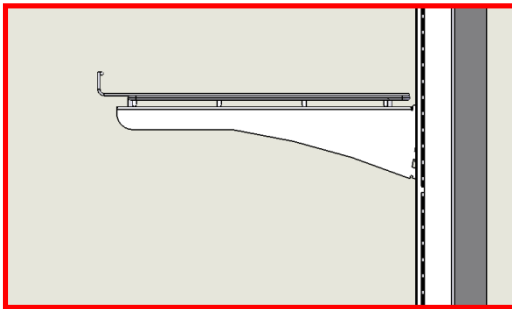
NO	Part name	Piece
1	Side connection sheet	On the product
2	Refrigerator anchor bolt $\varnothing 6.3 \times 45$	6
3	Cabinet side (right or left)	1
4	Screw sheet 6k M6.3x45 Wurth	6
5	Plastic screw plug	6

Table.5

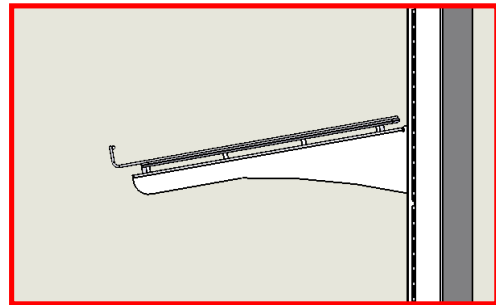
Installation of shelf arm and shelf

Shelf arm is attached to the cabinet stud that rear wire is attached. Function of the shelf arm is to carry cabinet shelf. Attach upper nail of shelf arm to the hole in the stud. Attach mid and lower nail following upper nail. After attaching three feet to the stud, press the arm downwards and place the arm in the nails.

Nail you attach the shelf arm determines the angle of shelf. (Figure 20-21)



(Figure.20) 0° shelf position



(Figure.21) 10° shelf position

Install the shelf between two arms and cover the arm upon it. (Figure.22)

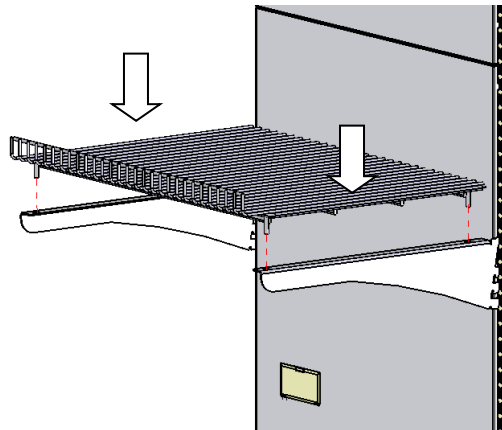
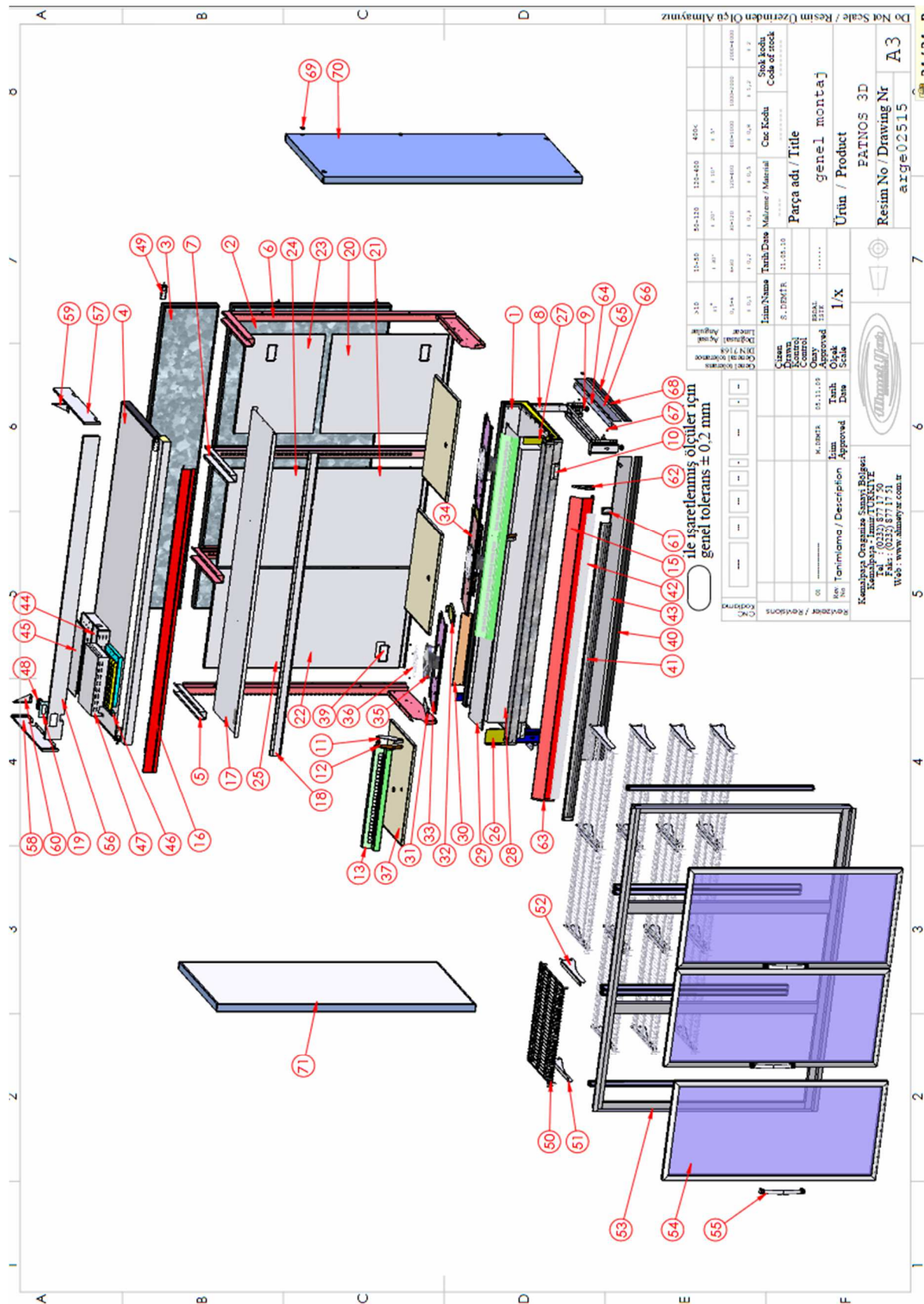


Figure.22

13. Spare part list



PATNOS PARÇA LİSTESİ							
NO	PARÇA ADI	STOK KODU	ADET				
			2D	3D	4D	5D	
1	PATNOS GOVDE 2D	42302001	1 ad.	0 ad.	0 ad.	0 ad.	
	PATNOS GOVDE 3D	42303001	0 ad.	1 ad.	0 ad.	0 ad.	
	PATNOS GOVDE 4D	42304001	0 ad.	0 ad.	1 ad.	0 ad.	
	PATNOS GOVDE 5D	42305001	0 ad.	0 ad.	0 ad.	1 ad.	
2	PATNOS ARKA PANEL ALT 1560x1195 mm	42302002	1 ad.	0 ad.	0 ad.	0 ad.	
	PATNOS ARKA PANEL ALT 2340x1195 mm	42303002	0 ad.	1 ad.	0 ad.	0 ad.	
	PATNOS ARKA PANEL ALT 3120x1195 mm	42304002	0 ad.	0 ad.	1 ad.	0 ad.	
	PATNOS ARKA PANEL ALT 3898x1195 mm	42305002	0 ad.	0 ad.	0 ad.	1 ad.	
3	PATNOS ARKA PANEL ÜST 1560x415 mm	42302003	1 ad.	0 ad.	0 ad.	0 ad.	
	PATNOS ARKA PANEL ÜST 2340x415 mm	42303003	0 ad.	1 ad.	0 ad.	0 ad.	
	PATNOS ARKA PANEL ÜST 3120x415 mm	42304003	0 ad.	0 ad.	1 ad.	0 ad.	
	PATNOS ARKA PANEL ÜST 3898x415 mm	42305003	0 ad.	0 ad.	0 ad.	1 ad.	
4	PATNOS TAVAN PANELİ 2D	42302012	1 ad.	0 ad.	0 ad.	0 ad.	
	PATNOS TAVAN PANELİ 3D	42303012	0 ad.	1 ad.	0 ad.	0 ad.	
	PATNOS TAVAN PANELİ 4D	42304012	0 ad.	0 ad.	1 ad.	0 ad.	
	PATNOS TAVAN PANELİ 5D	42305012	0 ad.	0 ad.	0 ad.	1 ad.	
5	PATNOS YAN DIKME SOL	42300102	1 ad.	1 ad.	1 ad.	1 ad.	
6	PATNOS YAN DIKME SAĞ	42300103	1 ad.	1 ad.	1 ad.	1 ad.	
7	PATNOS ORTA DIKME	42300104	1 ad.	2 ad.	3 ad.	4 ad.	
8	PATNOS AYAK	42300101	2 ad.	3 ad.	3 ad.	3 ad.	
9	VIDALI AYAK KISA	24019908	4 ad.	6 ad.	6 ad.	6 ad.	
10	ARCTIC ALT DEKOR BAĞLANTI SACI	32200021	2 ad.	3 ad.	3 ad.	3 ad.	
11	PATNOS ÖN EMİŞ AYAĞI SAĞ	32300026	1 ad.	2 ad.	3 ad.	4 ad.	
12	PATNOS ÖN EMİŞ AYAĞI SOL	32300026	1 ad.	2 ad.	3 ad.	4 ad.	
13	ARCTIC ÖN EMİŞ	32601078	2 ad.	3 ad.	4 ad.	4 ad.	
14	ARCTIC ÖN EMİŞ 5D	32605078	0 ad.	0 ad.	0 ad.	1 ad.	
15	ARCTIC ALT DEKOR SACI 2D	42202036	1 ad.	0 ad.	0 ad.	0 ad.	
	ARCTIC ALT DEKOR SACI 3D	42203036	0 ad.	1 ad.	0 ad.	0 ad.	
	ARCTIC ALT DEKOR SACI 4D	42204036	0 ad.	0 ad.	1 ad.	0 ad.	
	ARCTIC ALT DEKOR SACI 5D	42205036	0 ad.	0 ad.	0 ad.	1 ad.	
16	PATNOS ÜST DEKOR SACI 2D	42302062	1 ad.	0 ad.	0 ad.	0 ad.	
	PATNOS ÜST DEKOR SACI 3D	42303062	0 ad.	1 ad.	0 ad.	0 ad.	
	PATNOS ÜST DEKOR SACI 4D	42304062	0 ad.	0 ad.	1 ad.	0 ad.	
	PATNOS ÜST DEKOR SACI 5D	42305062	0 ad.	0 ad.	0 ad.	1 ad.	
17	PATNOS TAVAN SACI 2D	42302025	1 ad.	0 ad.	0 ad.	0 ad.	
	PATNOS TAVAN SACI 3D	42303025	0 ad.	1 ad.	0 ad.	0 ad.	
	PATNOS TAVAN SACI 4D	42304025	0 ad.	0 ad.	1 ad.	0 ad.	
	PATNOS TAVAN SACI 5D	42305025	0 ad.	0 ad.	0 ad.	1 ad.	
18	PATNOS HAVA YONLENDİRME SACI 2D	42302082	1 ad.	0 ad.	0 ad.	0 ad.	
	PATNOS HAVA YONLENDİRME SACI 3D	42303082	0 ad.	1 ad.	0 ad.	0 ad.	
	PATNOS HAVA YONLENDİRME SACI 4D	42304082	0 ad.	0 ad.	1 ad.	0 ad.	
	PATNOS HAVA YONLENDİRME SACI 5D	42305082	0 ad.	0 ad.	0 ad.	1 ad.	
19	TERMOMETRE KAPAK SACI		1 ad.	1 ad.	1 ad.	1 ad.	
20	PATNOS ARKA TEL ALT-SAĞ	42301015	1 ad.	1 ad.	1 ad.	1 ad.	
21	PATNOS ARKA TEL ALT-ORTA	42301016	0 ad.	1 ad.	2 ad.	3 ad.	
22	PATNOS ARKA TEL ALT-SOL	42301014	1 ad.	1 ad.	1 ad.	1 ad.	
23	PATNOS ARKA TEL ÜST-SAĞ	42301018	1 ad.	1 ad.	1 ad.	1 ad.	
24	PATNOS ARKA TEL ÜST-ORTA	42301017	0 ad.	1 ad.	2 ad.	3 ad.	
25	PATNOS ARKA TEL ÜST-SOL	42301013	1 ad.	1 ad.	1 ad.	1 ad.	
26	ARCTIC EVAPARATOR BY-PASS SACI SOL	32200113	1 ad.	1 ad.	1 ad.	1 ad.	
27	ARCTIC EVAPARATOR BY-PASS SACI SAĞ	32200114	1 ad.	1 ad.	1 ad.	1 ad.	
28	PATNOS EVAPORATOR 2D	49703122	1 ad.	0 ad.	0 ad.	0 ad.	
	PATNOS EVAPORATOR 3D	49703123	0 ad.	1 ad.	0 ad.	0 ad.	
	PATNOS EVAPORATOR 4D	49703124	0 ad.	0 ad.	1 ad.	0 ad.	
	PATNOS EVAPORATOR 5D	49703125	0 ad.	0 ad.	0 ad.	1 ad.	

29	PATNOS EVAPORATOR SACI 2D	32302093	1 ad.	0 ad.	0 ad.	0 ad.
	PATNOS EVAPORATOR SACI 3D	32303093	0 ad.	1 ad.	0 ad.	0 ad.
	PATNOS EVAPORATOR SACI 4D	32304093	0 ad.	0 ad.	1 ad.	0 ad.
	PATNOS EVAPORATOR SACI 5D	32305093	0 ad.	0 ad.	0 ad.	1 ad.
30	PATNOS FAN SACI ALT TRAVERSI	32600112	2 ad.	3 ad.	4 ad.	5 ad.
31	ARCTIC FAN YAN ÖRTME SACI	32600112	2 ad.	2 ad.	2 ad.	2 ad.
32	ARCTIC FAN ARA ÖRTME SACI		1 ad.	2 ad.	3 ad.	4 ad.
33	PATNOS FAN SACI YAN	32601090	2 ad.	2 ad.	2 ad.	2 ad.
34	ARCTIC FAN SACI ORTA		0 ad.	1 ad.	2 ad.	3 ad.
35	EBM M1G055-BD91-12 1600 rpm / D:AO 230 mm a:28	40015017	2 ad.	3 ad.	4 ad.	5 ad.
36	FAN MUHAFAZA D:230 mm CR-NI	20860010	2 ad.	3 ad.	4 ad.	5 ad.
37	PATNOS TAVA		2 ad.	3 ad.	4 ad.	4 ad.
38	PATNOS TAVA 5D		0 ad.	0 ad.	0 ad.	1 ad.
39	SERVIS KAPAGI	23700717	6 ad.	6 ad.	6 ad.	6 ad.
40	PATNOS BAZA 2D	32602096	1 ad.	0 ad.	0 ad.	0 ad.
	PATNOS BAZA 3D	32603096	0 ad.	1 ad.	0 ad.	0 ad.
	PATNOS BAZA 4D	32604096	0 ad.	0 ad.	1 ad.	0 ad.
	PATNOS BAZA 5D	32605096	0 ad.	0 ad.	0 ad.	1 ad.
41	DF TAMPON PLASTİĞİ 2D	32602096	1 ad.	0 ad.	0 ad.	0 ad.
	DF TAMPON PLASTİĞİ 2D	32603096	0 ad.	1 ad.	0 ad.	0 ad.
	DF TAMPON PLASTİĞİ 2D	32604096	0 ad.	0 ad.	1 ad.	0 ad.
	DF TAMPON PLASTİĞİ 2D	32605096	0 ad.	0 ad.	0 ad.	1 ad.
42	DF TAMPON TUTAMAÇI ALÜMİNYUMU 2D	32602096	1 ad.	0 ad.	0 ad.	0 ad.
	DF TAMPON TUTAMAÇI ALÜMİNYUMU 2D	32603096	0 ad.	1 ad.	0 ad.	0 ad.
	DF TAMPON TUTAMAÇI ALÜMİNYUMU 2D	32604096	0 ad.	0 ad.	1 ad.	0 ad.
	DF TAMPON TUTAMAÇI ALÜMİNYUMU 2D	32605096	0 ad.	0 ad.	0 ad.	1 ad.
43	EPHESUS BAZA LASTİĞİ	10410214	1,6 mt	2,4 mt	3,2 mt	3,9 mt
44	ARCTIC ELEKTRİK KUTUSU KAPAĞI	32200250	1 ad.	1 ad.	1 ad.	1 ad.
45	ARCTIC ELEKTRİK KUTUSU	32200250	1 ad.	1 ad.	1 ad.	1 ad.
46	PATNOS BALAST KUTUSU KAPAĞI	42303070	1 ad.	1 ad.	1 ad.	1 ad.
47	PATNOS BALAST KUTUSU	42303070	1 ad.	1 ad.	1 ad.	1 ad.
48	SOLAR TERMOMETRE	20430115	1 ad.	1 ad.	1 ad.	1 ad.
49	DOLAP BİRLEŞTİRME GRUBU	23820015	12 ad.	12 ad.	12 ad.	12 ad.
50	PATNOS RAF TELİ		8 ad.	12 ad.	16 ad.	20 ad.
51	PATNOS RAF KOLU SAĞ		8 ad.	8 ad.	8 ad.	8 ad.
52	PATNOS RAF KOLU SOL		8 ad.	8 ad.	8 ad.	8 ad.
53	ARCTIC ÇERÇEVE SHOOT FR 2D	23940230	1 ad.	0 ad.	0 ad.	0 ad.
	ARCTIC ÇERÇEVE SHOOT FR 2D	23940231	0 ad.	1 ad.	0 ad.	0 ad.
	ARCTIC ÇERÇEVE SHOOT FR 2D	23940232	0 ad.	0 ad.	1 ad.	0 ad.
	ARCTIC ÇERÇEVE SHOOT FR 2D	23940233	0 ad.	0 ad.	0 ad.	1 ad.
54	ARCTIC KAPI	23990251	2 ad.	3 ad.	4 ad.	5 ad.
55	ARCTIC KAPI TUTAMAÇI	23990251	2 ad.	3 ad.	4 ad.	5 ad.
56	ARCTIC TAÇ SACI		1 ad.	0 ad.	0 ad.	0 ad.
	ARCTIC TAÇ SACI		0 ad.	1 ad.	0 ad.	0 ad.
	ARCTIC TAÇ SACI		0 ad.	0 ad.	1 ad.	0 ad.
	ARCTIC TAÇ SACI		0 ad.	0 ad.	0 ad.	1 ad.
57	ARCTIC TAÇ YAN SACI SAĞ		1 ad.	1 ad.	1 ad.	1 ad.
58	ARCTIC TAÇ YAN SACI SOL		1 ad.	1 ad.	1 ad.	1 ad.
59	ARCTIC TAÇ SACI YAN DESTEĞİ SAĞ		1 ad.	1 ad.	1 ad.	1 ad.
60	ARCTIC TAÇ SACI YAN DESTEĞİ SOL		1 ad.	1 ad.	1 ad.	1 ad.
61	ARCTIC TAMPON SONU		2 ad.	2 ad.	2 ad.	2 ad.
62	ARCTIC ALT DEKOR KAPAK PLASTİĞİ SAĞ		1 ad.	1 ad.	1 ad.	1 ad.
63	ARCTIC ALT DEKOR KAPAK PLASTİĞİ SOL		1 ad.	1 ad.	1 ad.	1 ad.
64	PATNOS YAN BAZA BAĞLANTI SACI		2 ad.	2 ad.	2 ad.	2 ad.
65	YAN BAZA PLASTİĞİ		2 ad.	2 ad.	2 ad.	2 ad.
66	PATNOS YAN BAZA SACI		2 ad.	2 ad.	2 ad.	2 ad.
67	M6 ÖZEL SOMUN		4 ad.	4 ad.	4 ad.	4 ad.
68	DF BAZA TOPUZ VİDASI		4 ad.	4 ad.	4 ad.	4 ad.
69	PLASTİK TAPA Ø24		12 ad.	12 ad.	12 ad.	12 ad.
70	PATNOS DOLAP YANI SAĞ		1 ad.	1 ad.	1 ad.	1 ad.
71	PATNOS DOLAP YANI SOL		1 ad.	1 ad.	1 ad.	1 ad.

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	°C or °F 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 connection 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	0	0	0	0	0
	0 = ON; 1 = OFF;							
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	0	0	0	0
	0.0 = Function inactive							
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	0	0	0	0	0
	0 = inactive, 1 = active							
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	0	0	0	0	0
	0 = virtual probe Sv; 1 = Suction probe Sr							
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	0	0	0	0	0
	0 = local valve ;1 = network valve (connected to the Master)							
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		0	0	0	0	0	0
	holds for 15 minutes and works again.							
	0 = Compressor/valve always OFF; 100 = compressor/valve always ON							
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		4	0	0	0	0	0
	0 =temperature-based heater							
	4 =time and temperature-based heater defrost							
	1 = temperature-based hot gas							
	5 =temperature-based heater multiplied hotgas bypass							
	2 = temperature-based heater							
	6 =time-based heater multiplied hotgas bypass							
	3 = time-based hot gas							
d2	Defrost-end synchronization by Master		1	1	1	1	1	1
	0 = unsynchronous; 1 = synchronous							
dl	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	0	0	0	0	0
	0 = No initial defrost ; 1 = inital defrost							
	(Master = network defrost; Slave = local defrost)							
d5	Defrost time delay at the beginning if d4=1		0	0	0	0	0	0
	0 = delay inactive							
d6	Terminal indicator status during defrost		2	2	2	2	2	2
	0 = Real temperature value and "dEF" flashes							
	1 = pre-defrost last temperature remains on the screen							
	2 = 'dEF' is viewed							
dd	Post-Defrost drip time		2	2	2	2	2	2
	0= No drip							

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	0	0	0	0	0
	0 = Compressor/valve always OFF; 100 = compressor/valve always ON							
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?		1	1	1	1	1	1
	0 = no ; 1 = yes							
A13	When slaves are offline, hotgas bypass procedure		0	0	0	0	0	0
	0 = inactive							
	1 = active							
Fan (Evaporator fans)								
F0	Evaporator fan management		0	0	0	0	0	0
	0 = always ON							
	1 = Fan activation Sd defrost - Sv virtual (or Sd defrost - Sm blow double thermostat control)							
	2 =Activation Sd defrost probe							
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	0	0	0	0	0
	0 =Fans work							
	1 = Fans stop							
F3	Status of fans during defrost		0	0	1	1	0	0
	0 = Fans work in Defrost							
	1 = fans stop							
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	0	0	0	0	0
	0 = Function inactive						
F9	PWM1/' fan control output selection (by phase-break)	1	1	1	1	1	1
	0 = pulse						
	1 = time-dependant						
F10	Time of working of evaporator fans at maximum speed	0	0	0	0	0	0
	0 = Function inactive						
Eud (Electronic valve)							
P1	Electronic valve	2	2	2	2	2	2
	0 = not used						
	1 = PWM valve						
	2 = CAREL E2V valve						
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)	150	150	150	150	150	150
	0 = Function inactive						
P6	Derivative rate	5.0	5.0	5.0	5.0	5.0	5.0
	0 = Function inactive						
P7	LowSH: low superheat threshold	7.0	7.0	7.0	7.0	7.0	7.0
P8	LowSH: low superheat integral time	15.0	15.0	15.0	15.0	15.0	15.0
	0 = Function inactive						
P9	LowSH: düşük superheat alarm gecikmesi	600	600	600	600	600	600
	0 = alarm inactive						
P10	Will solenoid valve be OFF in the event of low superheat or low suction temperature?	0	0	0	0	0	0
	1 = OFF is active						
P11	LSA: low evaporation temperature alarm	-45.0	-45.0	-45.0	-45.0	-45.0	-45.0
P12	LSA: alarm delay	600	600	600	600	600	600
	0 = alarm inactive						
P13	LSA: alarm difference (C)	10.0	10.0	10.0	10.0	10.0	10.0
	0 = reset the alarm all the time automatically						
P14	('blo') alarm signal activation	1	1	1	1	1	1
	1= blo alarm is active						
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		0.0	0.0	0.0	0.0	0.0	0.0
	0 = Function inactive							
Phr	Fast updating of valve parameters by the supervisor		0	0	0	0	0	0
	0 = fast update is inactive							
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	0	0	0	0	0
	0 = Function is inactive							
PM4	MOP: MOP function delay at the beginning		2	2	2	2	2	2
PM5	MOP: activating solenoid valve shutting		0	0	0	0	0	0
	0 = OFF is inactive							
	1 = OFF is active							
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	0	0	0	0	0
	0 = Functionis inactive							
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
H9	Output association with AUX button	0	0	0	0	0	0
	0 = Light						
	1 = AUX						
H10	Compressor output configuration	0	0	0	0	0	0
	0 = Cooling						
	1 = heating						
H11	Fan output configuration	0	0	0	0	0	0
	0 = Cooling						
	1 = Heating						
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	0	0	0	0	0
	0 = not inserted						
rHu	Manual glass heater activation rate (rHt period)	70	70	70	70	70	70
	0 = Function is inactive						
rHt	Manual glass heater activation period	5	5	5	5	5	5
	0 = Function is inactive						
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	0	0	0	0	0
	0 = resistant						
	1 = inductive						
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 minutesi	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	0	0	0	0	0
	0 = alarm viewing deactivated						
rtc (Real Time Clock)							
td1 to 8	Defrost time from 1 to 8 (press Set)	-	-	-	-	-	-
d_	From 1 to 8 defrost day selection	0	0	0	0	0	0
	0 = no defrost						
	1 to 7 = days one by one from Monday to Sunday						
	8 = every day from Monday to Friday						
	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	0	0	0	0	0
	0 = Normal defrost; 1 =Power defrost						
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	1	1	1	1	1
	1=ON/OFF						
	2=Modulating						
r15	Definition and weighting, if applicable, of thermostat sensors - 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 sensors when night cover is on. (100%=S4, 0%=S3)	100	0	0	0	50	50
r62	Heat function	2	2	2	2	2	2
	Neutral zone between refrigeration and heat function						
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	240	240	240	240	240	240
	With setting = 240 the S6 alarm will be omitted						
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	1	1	1	1	1	1
	0=off						
	1= EL						
	2= gAs						
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	1	1	0	0	1	1
	0: Stopped						
	1: Running						
	2: Running during pump down and defrost						
d10	Defrost sensor	3	1	1	1	1	1
	0 =Stop on time						
	1=S5						
	2=S4						
	3=Sx						
	(Application 1-8 and 10: both S5 and S6. Application 9: S5 and S5B)						
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	0	0	0	0	0
	0=not active,						
	1=monitoring only						
	2=skip allowed day						
	3=skip allowed both day and night						
	4=own assessment						
	+ all schedules						
d23	Time delay before opening of hot gas valve	0	0	0	0	0	0
d27	Rail heat during defrost	2	2	2	2	2	2
	0=off						
	1=on						
	2=Pulsating						
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	6	6	6	6	6	6
	Only for trained personnel						
Fan							
F04	Fan stop temperature (S5)	50	50	50	50	50	50
F05	Pulse operation on fans:	0	0	0	0	0	0
	0=No pulse operation						
	1=At thermostat cuts out only						
	2= Only at thermostat cut outs during night operation						
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=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
P41	Configuration of alarm relay	1	1	1	1	1	1
	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).							