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1. Foreword

This guide is prepared for the Arctic refrigerator. The details below are examined in general.

- How the refrigerator will be used
- Technical Details
- Installation and Assembling
- Infos and suggestions for the users
- Care operations

Producer company does not have any responsibilities about the situations below.

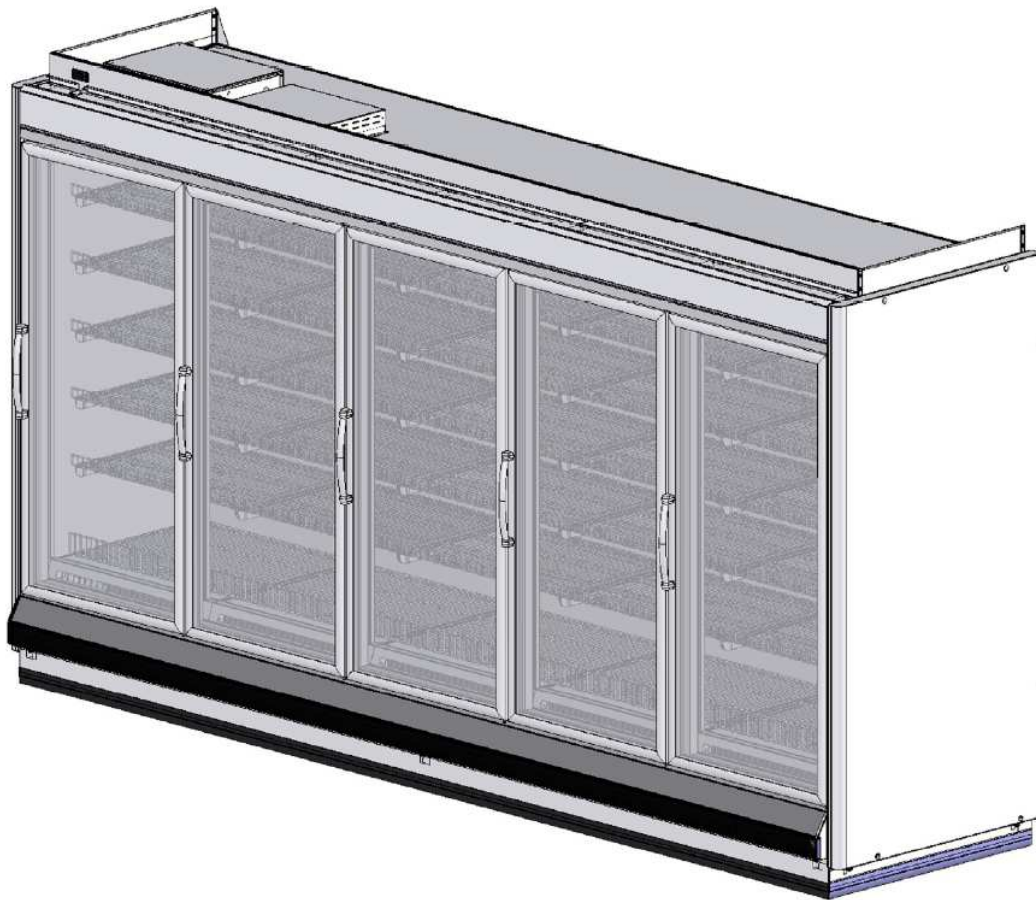
- Wrong usage of the refrigerator
- Wrong assembling
- Electrical Effects
- Not doing the periodical cares
- Changes of Operation
- Not using the original spare parts
- Ignoring the given infos

P.S. : Applications about electricity are dangerous for your life. Anyone who uses the refrigerator must read this guide.

1. Introduction

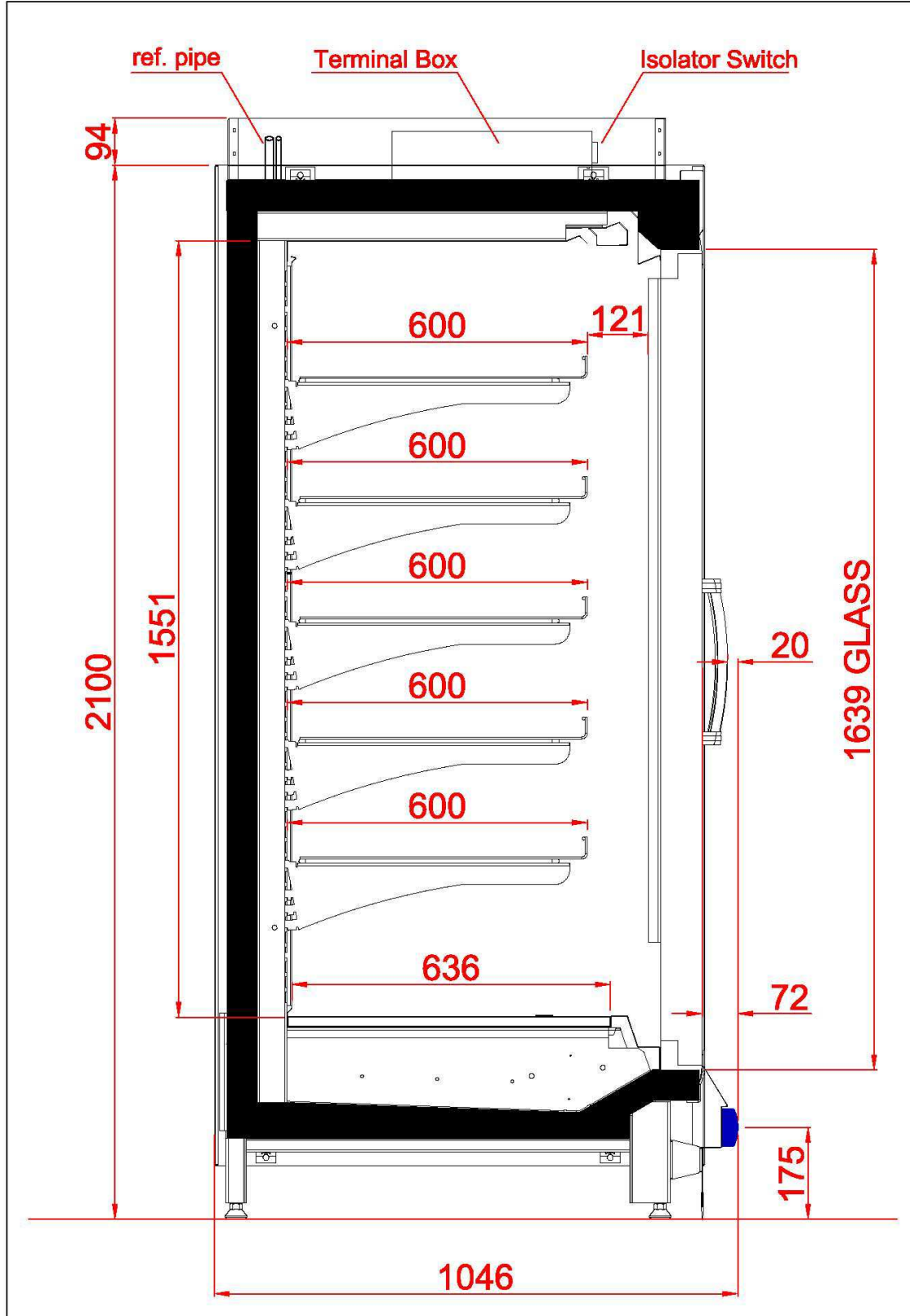
Arctic is a vertical, front-doored, multi-shelfed cooler refrigerator. Its condensing unit is designed as remote. With its wide display area and loading capacity, it is suitable for usage of stores and larger stores.

Foodstuffs such as frozen meat, fish and ice-cream can be displayed in the cabinet. The cabinet has a defrost-type resistance.

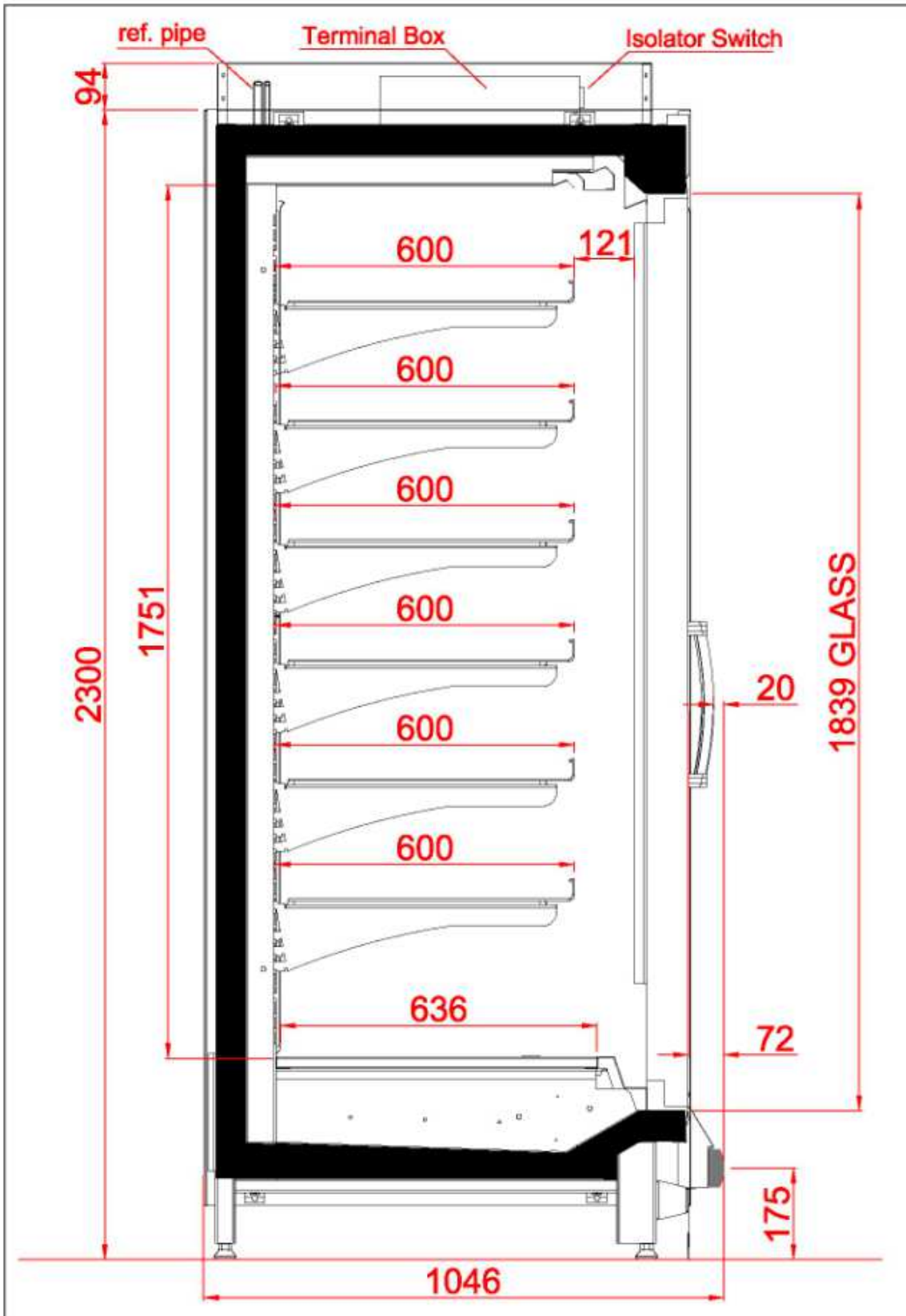


2. Technical Details

Cross-Section View; ARCTIC



Cross-Section View; ARCTIC L



	TECHNICAL DATA SHEET - ARCTIC
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TECHNICAL DETAILS	2 Door	3 Door	4 Door	5 Door
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Refrigeration Load				
Case Temp (°C)	-21/-23	-21/-23	-21/-23	-21/-23
Evap Temp (°C)	-32	-32	-32	-32
Duty (kW)	1,10	1,66	2,20	2,77
Expansion Valve (R404)	TBS2 Or.01 AKV 10-3	TBS2 Or.02 AKV 10-4	TBS2 Or.03 AKV 10-4	TBS2 Or.03 AKV 10-5
Pipe Size - Suction	15 mm	15 mm	19 mm	19 mm
Pipe Size - Liquid	10 mm	10 mm	10 mm	10 mm
Pipe Size - Drain	40 mm			
Cubic Capacity (dm ³)	1541	2311	3081	3845
Display Area (m ²)	5,67	8,52	11,35	14,17


Defrost Details				
Defrost Type	Electric	Electric	Electric	Electric
Duration (minutes)	2 x 55	2 x 55	2 x 55	2 x 55
Termination	Temp	Temp	Temp	Temp

Defrost Heaters				
Evaporator (Coil)	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)	288W	380W	546W	615W
Doors (Schott Termofrost Hi-Lite)	2 x 140W	3 x 140W	4 x 140W	5 x 140W
Front Glass	-	-	-	-
Side Glass	75W/pc.	75W/pc.	75W/pc.	75W/pc.
End Walls	-/pc.	-/pc.	-/pc.	-/pc.
Body	-	-	-	-
Water Drain	16	16	16	16
Air Return	-	-	-	-
Air Intake	-	-	-	-

Electrical / Fans				
Supply	230 v / 50 Hz			
Lighting (T5)	4 x 35W	6 x 35W	8 x 35W	10 x 35W
Evaporator Fans	2 x 53W AO 230 mm/28°	3 x 53W AO 230 mm/28°	4 x 53W AO 230 mm/28°	5 x 53W AO 230 mm/28°

Cabinet Controller Setup				
The cabinet was fitted with Danfoss EKCS14B controller utilising 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	-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

 TECHNICAL DOCUMENTATION		CHAPTER REVISION STATUS				
		ORD.	DATE	CHANGE ORDER	ORD.	DATE
PRODUCT	ARCTIC	A	30.05.06	U.GÜDÜCÜ	D	
DATE of 1st ISSUE	02.02.2006	B			E	
ORDER	U.GÜDÜCÜ	C			F	

	TECHNICAL DATA SHEET - ARCTIC "low energy"
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TECHNICAL DETAILS	2 Door	3 Door	4 Door	5 Door
-------------------	--------	--------	--------	--------

Refrigeration Load				
Case Temp (°C)	-21/-23	-21/-23	-21/-23	-21/-23
Evap Temp (°C)	-32	-32	-32	-32
Duty (kW)	1,10	1,66	2,20	2,77
Expansion Valve (R404)	TBS2 Or.01 AKV 10-3	TBS2 Or.02 AKV 10-4	TBS2 Or.03 AKV 10-4	TBS2 Or.03 AKV 10-5
Pipe Size - Suction	15 mm	15 mm	19 mm	19 mm
Pipe Size - Liquid	10 mm	10 mm	10 mm	10 mm
Pipe Size - Drain	40 mm			
Cubic Capacity (dm ³)	1541	2311	3081	3845
Display Area (m ²)	5,67	8,52	11,35	14,17

Defrost Details				
Defrost Type	Electric	Electric	Electric	Electric
Duration (minutes)	2 x 55	2 x 55	2 x 55	2 x 55
Termination	Temp	Temp	Temp	Temp

Defrost Heaters				
Evaporator (Coil)	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)	288W	380W	546W	615W
Doors (Schott Termofrost Hi-Lite)	2 x 140W	3 x 140W	4 x 140W	5 x 140W
Front Glass	-	-	-	-
Side Glass	75W/pc.	75W/pc.	75W/pc.	75W/pc.
End Walls	-/pc.	-/pc.	-/pc.	-/pc.
Body	-	-	-	-
Water Drain	16	16	16	16
Air Return	-	-	-	-
Air Intake	-	-	-	-

Electrical / Fans				
Supply	230 v / 50 Hz			
Lighting (T5)	4 x 35W	6 x 35W	8 x 35W	10 x 35W
Evaporator Fans "energy saving"	2 x 18W AO 230 mm/28°	3 x 18W AO 230 mm/28°	4 x 18W AO 230 mm/28°	5 x 18W AO 230 mm/28°

Cabinet Controller Setup				
The cabinet was fitted with Danfoss EKCS14B controller utilising 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	-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

Ahmet Uyar		CHAPTER REVISION STATUS					
TECHNICAL DOCUMENTATION		ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER
PRODUCT	ARCTIC low energy	A			D		
DATE of 1st ISSUE	30.05.2006	B			E		
ORDER	U.GÜDÜCÜ	C			F		


TECHNICAL DATA SHEET - ARCTIC L

TECHNICAL DETAILS	2 Door	3 Door	4 Door	5 Door
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Refrigeration Load				
Case Temp (°C)	-21/-23	-21/-23	-21/-23	-21/-23
Evap Temp (°C)	-32	-32	-32	-32
Duty (kW)	1,10	1,66	2,20	2,77
Expansion Valve (R404)	TBS2 Or.01 AKV 10-3	TBS2 Or.02 AKV 10-4	TBS2 Or.03 AKV 10-4	TBS2 Or.03 AKV 10-5
Pipe Size - Suction	15 mm	15 mm	19 mm	19 mm
Pipe Size - Liquid	10 mm	10 mm	10 mm	10 mm
Pipe Size - Drain	40 mm			
Cubic Capacity (dm ³)	1740	2609	3478	4341
Display Area (m ²)	6,60	9,92	13,22	16,50

Defrost Details				
Defrost Type	Electric	Electric	Electric	Electric
Duration (minutes)	2 x 55	2 x 55	2 x 55	2 x 55
Termination	Temp	Temp	Temp	Temp

Defrost Heaters				
Evaporator (Coil)	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)	275W	432W	553W	666W
Doors (Schott Termofrost Hi-Lite)	2 x 143W	3 x 143W	4 x 143W	5 x 143W
Front Glass	-	-	-	-
Side Glass	75W/pc.	75W/pc.	75W/pc.	75W/pc.
End Walls	-/pc.	-/pc.	-/pc.	-/pc.
Body	-	-	-	-
Water Drain	16	16	16	16
Air Return	-	-	-	-
Air Intake	-	-	-	-

Electrical / Fans				
Supply	230 v / 50 Hz			
Lighting (T8)	3 x 58W	4 x 58W	5 x 58W	6 x 58W
Evaporator Fans	2 x 53W AO 230 mm/28°	3 x 53W AO 230 mm/28°	4 x 53W AO 230 mm/28°	5 x 53W AO 230 mm/28°

Cabinet Controller Setup				
The cabinet was fitted with Danfoss EKCS14B controller utilising 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	-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

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DATE of 1st ISSUE	02.02.2006	B			E	
ORDER	U.GÜDÜCÜ	C			F	


TECHNICAL DATA SHEET - ARCTIC L "low energy"

TECHNICAL DETAILS	2 Door	3 Door	4 Door	5 Door
Refrigeration Load				
Case Temp (°C)	-21/-23	-21/-23	-21/-23	-21/-23
Evap Temp (°C)	-32	-32	-32	-32
Duty (kW)	1,10	1,66	2,20	2,77
Expansion Valve (R404)	TBS2 Or.01 AKV 10-3	TBS2 Or.02 AKV 10-4	TBS2 Or.03 AKV 10-4	TBS2 Or.03 AKV 10-5
Pipe Size - Suction	15 mm	15 mm	19 mm	19 mm
Pipe Size - Liquid	10 mm	10 mm	10 mm	10 mm
Pipe Size - Drain	40 mm			
Cubic Capacity (dm ³)	1740	2609	3478	4341
Display Area (m ²)	6,60	9,92	13,22	16,50

Defrost Details				
Defrost Type	Electric	Electric	Electric	Electric
Duration (minutes)	2 x 55	2 x 55	2 x 55	2 x 55
Termination	Temp	Temp	Temp	Temp

Defrost Heaters				
Evaporator (Coil)	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)	275W	432W	553W	666W
Doors (Schott Termofrost Hi-Lite)	2 x 143W	3 x 143W	4 x 143W	5 x 143W
Front Glass	-	-	-	-
Side Glass	75W/pc.	75W/pc.	75W/pc.	75W/pc.
End Walls	-/pc.	-/pc.	-/pc.	-/pc.
Body	-	-	-	-
Water Drain	16	16	16	16
Air Return	-	-	-	-
Air Intake	-	-	-	-

Electrical / Fans				
Supply	230 v / 50 Hz			
Lighting (T8)	3 x 58W	4 x 58W	5 x 58W	6 x 58W
Evaporator Fans	2 x 18W AO 230 mm/28°	3 x 18W AO 230 mm/28°	4 x 18W AO 230 mm/28°	5 x 18W AO 230 mm/28°

Cabinet Controller Setup				
The cabinet was fitted with Danfoss EKCS14B controller utilising 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	-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

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PRODUCT	ARCTIC L low energy	A		D		
DATE of 1st ISSUE	30.05.2006	B		E		
ORDER	U.GÜDÜCÜ	C		F		

4. Norms and Certificates

The approved certificates of norms and refrigerators that are using as reference;
EN 60204-1; EN 60439-1; EN 60439-2

ENVIRONMENTAL CLIMATIC ATMOSPHERE (EN 441-4)

This refrigerator is tested as to atmosphere heat class 3.

Klimatik ortam	Kuru hava sıcaklığı	Bağıl nem	Çiğ noktası
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

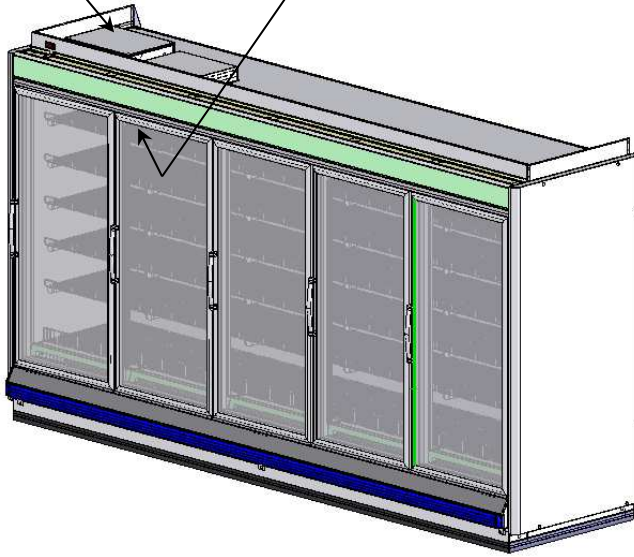
The directives that the refrigerator fits **EEC 73/23** , **EEC 98/37**

5. Warning and definition stickers on the refrigerator

YÜKSEK GERİLİM ETİKETİ



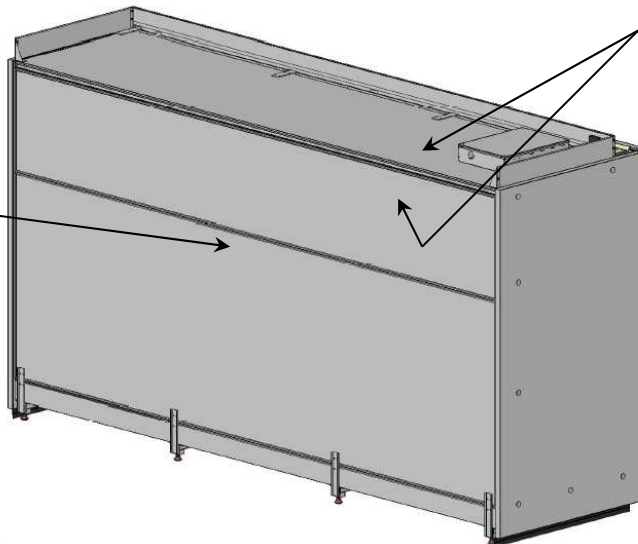
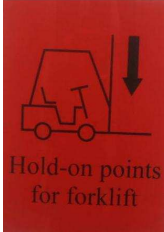
ÜRÜN TANIM ETİKETİ



BASINÇ ETİKETİ



TAŞIMA ETİKETİ



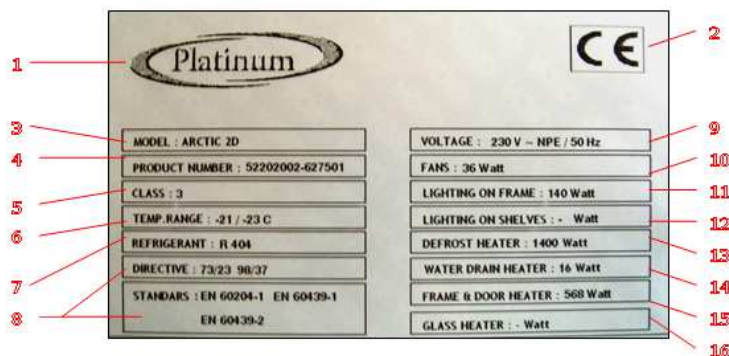
High Voltage Sticker

High voltage sticker is located on the electricity box.



Product Definition Sticker

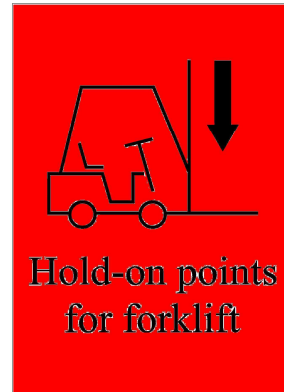
Product definition sticker is located inside the refrigerator on the ceiling and includes all technical properties.



1. Logo and address info of the producer company
2. Product certificates and quality certificates of producer
3. Model of product
4. Serial number of product
5. Air Conditioner class of product
6. Heating limits of product
7. Type of the cooler liquid used in product
8. Approved certificates of product and standart directives
9. Working voltage infos
10. Fan power of evaporater
11. Electricity power of illumination
12. Electricity power of under-shelf illumination
13. Electricity power of night blind
14. Electricity power of defrost resistances
15. Electricity power of total electricity power of frame resistances
16. Total electricity power

Transportation Stickers

There are palettes located on the refrigerator for transportation. Transportations with forklifts or transpalettes are materialized by the assistance of these palettes. There is a sticker behind the refrigerator about the transportation palettes. The sticker must be centered with the forklift handles during the transportation as shown in the diagram below.

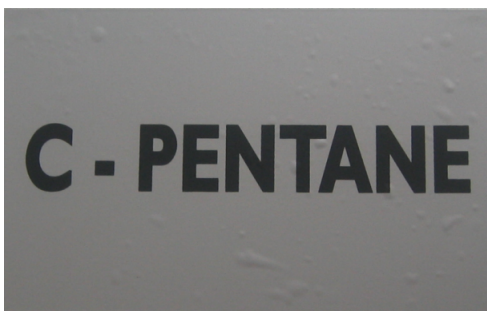


Pressure Sticker

Pressure sticker is located at the exit points of the copper pipes. It is used for determining the quantity of nitrogen.



Pentane Caution sticker



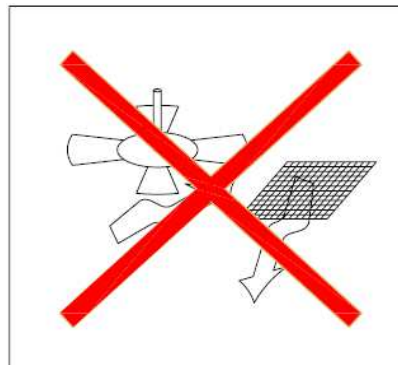
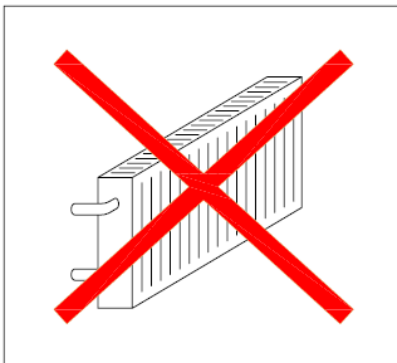
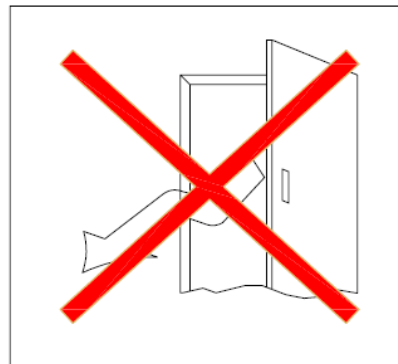
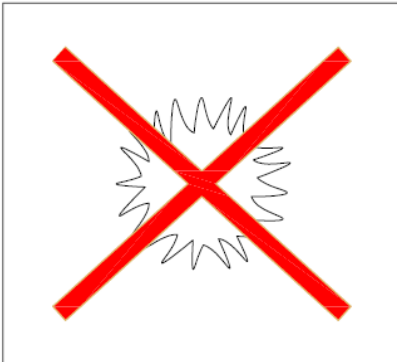
Pentane is a fairly burning*** gas and it forms a explosive mixture with H₂O. Polyurethane urged refrigerator bodies contains pentane. Pentane warning sticker is located at two places. One is at the upper right side behind the refrigerator and the other one is at the upper right part of the refrigerator.

6. Assembling and Environmental Situations

Follow the instructions below for assembling.

The situations that must be paid attention to placing the refrigerators

- Do not leave or assemble the refrigerator at the positions below ;
 - Closer to any explosive gasses
 - Closer to heaters
 - Through the draught



7. Connecting Two Refrigerators

Follow the sequences below for connecting two or more refrigerators.

- Disassemble the endwalls (if exist)
- Place the refrigerators closer to each other
- Disassemble the palette. Level the refrigerators by arranging the heights of cabinet legs. (Diagram 1) Check on the balance by using water ballance*** (Diagram 2). Check the balance of the refrigerator by moving it.

➤ Side Pillar Connection

- Attach the connection equipments to the connection hole which is located near the refrigerator on the base tray pillars. Connection equipments and their locations are shown on the (Diagram 4).

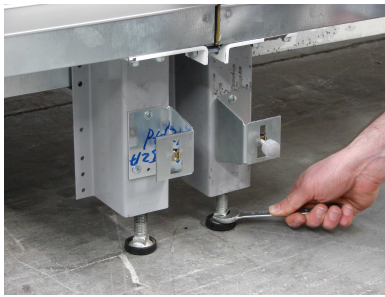


Diagram 1

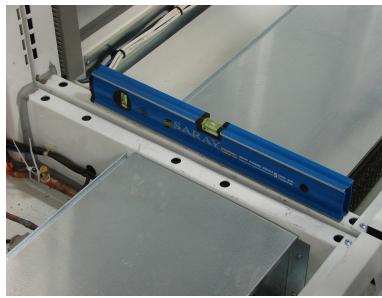


Diagram 2

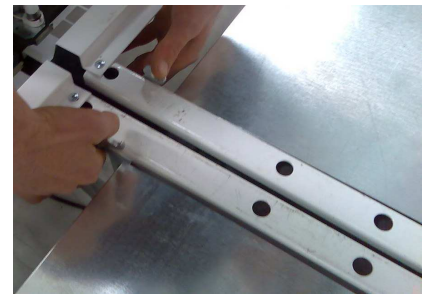


Diagram 3

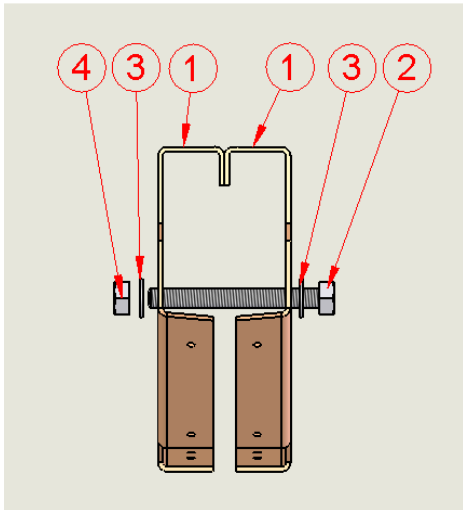
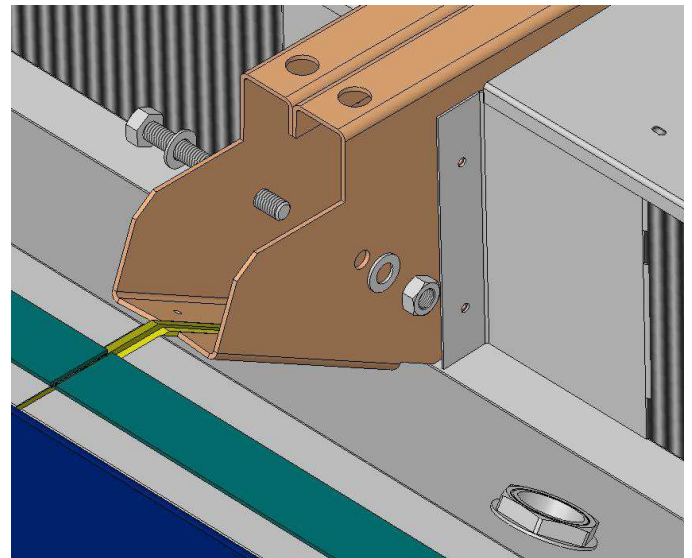


Diagram 4



POZ NO	PIECE NAME	UNIT
1	Side Pillar	Ürün üzerinde
2	M8x90 Altı köşe başlı civata	1
3	M8 Rondela	2
4	M8 NUT	1

➤ FRONT BODY AND UPPER PANEL CONNECTIONS

- There are two units of refrigerator connection sheets on the roof of refrigerators and one connection sheet is located on the front lower body of refrigerator. (Diagram 5)
That's why attach the connection bolts to the connection holes which are on the refrigerator connection sheets and then tighten the bolts. (Diagram 7)

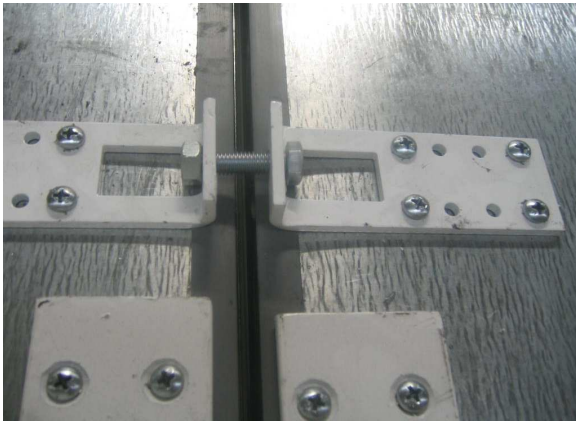


Diagram 5

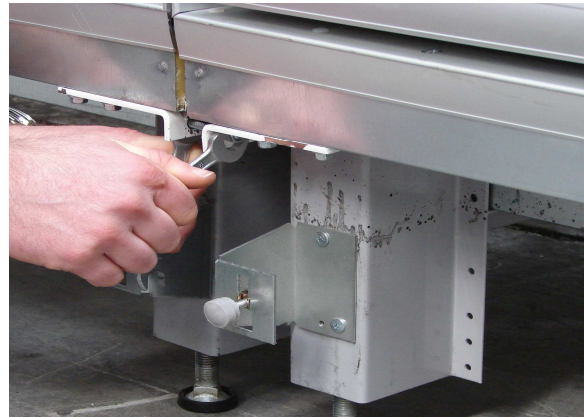


Diagram 6

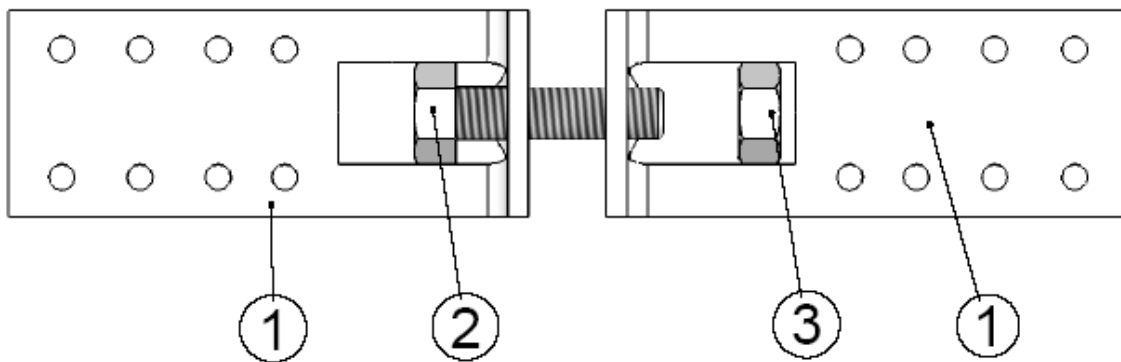


Diagram 7

POZ NO	PIECE NAME	UNIT
1	Connection sheet	5
2	M8x40 6K	5
3	M8 NUT	5

➤ **SIDE PILLAR CONNECTIONS**

Side pillars must be connected from the two holes with bolts just as shown on the diagram 8.

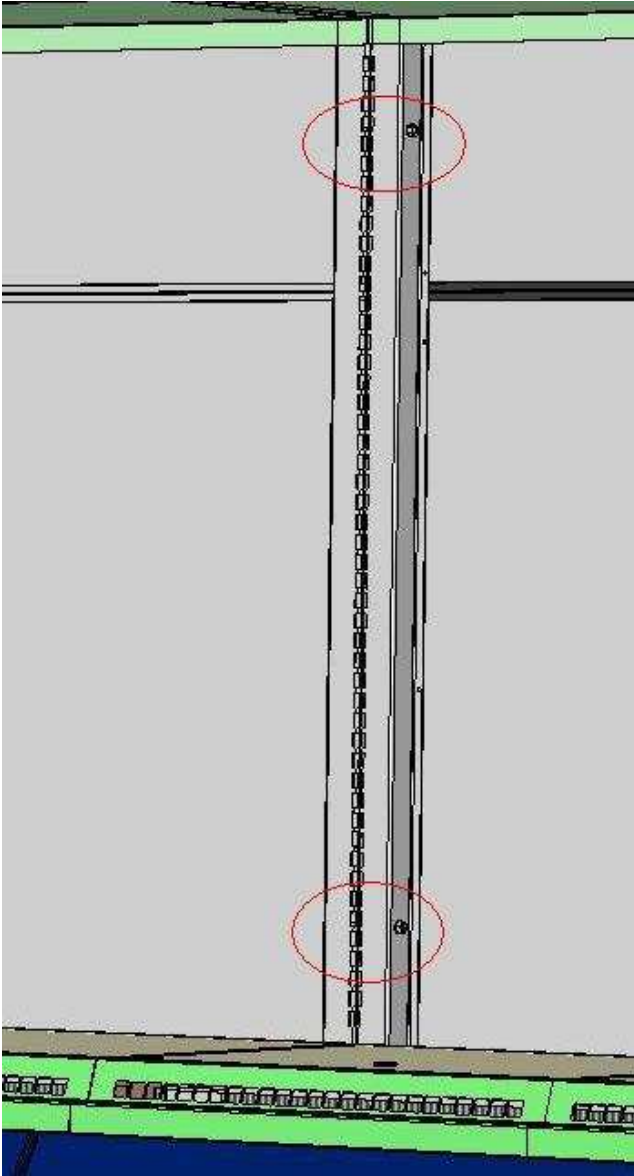
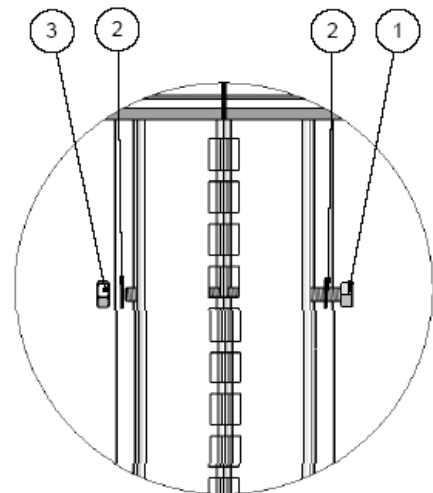
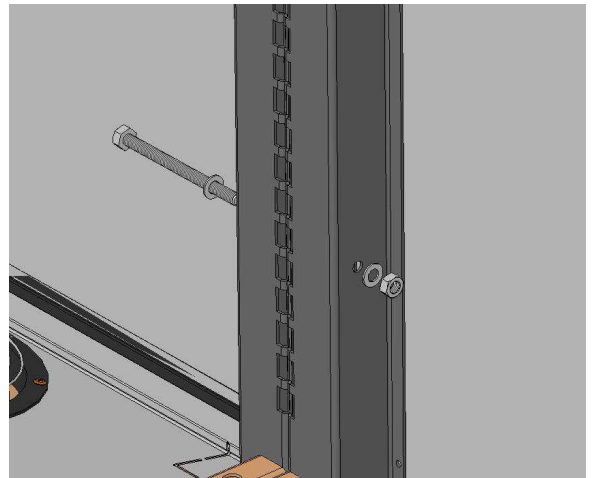


Diagram 8



POZ NO	PIECE NAME	UNIT
1	M8x150 6K Kaplamalı civata	2
2	Pul rondela	4
3	M8 NUT	2

8. Assembling the Endwalls

Before assembling the endwalls, bumper end and decor cap must be assembled to the bumper and decor ends.

➤ **Assembling the lower decor, bumper and bumper end**

Assemble the decor cap (left-right) as it is shown on Diagram 9. Be sure that the nails are assembled into the lower decor sheet. Assemble the bumper end as it is shown on Diagram 10 and make it stable with 2 units of connection component. After you assembled the other bumper end to the other side, prepare an aluminium bumper holder fits with the length between both ends and then assemble it. (Diagram 11) Cut the nails of the bumper which are located on the bumper end as it is shown on Diagram 12 and attach it on to the aluminium bumper holder.

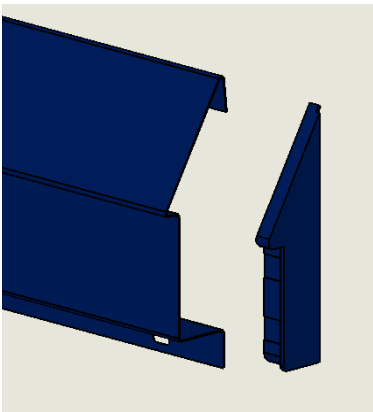


Diagram 9

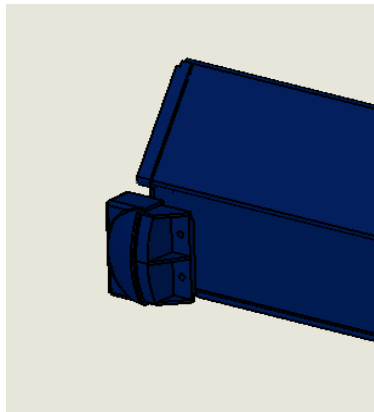


Diagram 10

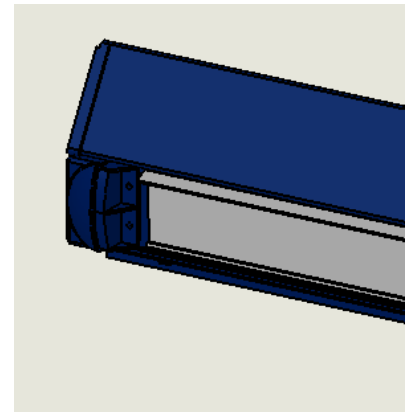


Diagram 11

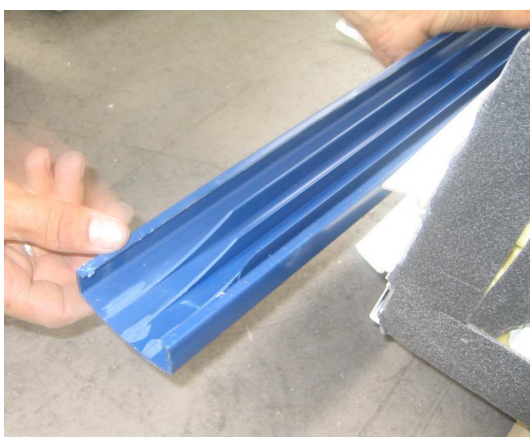
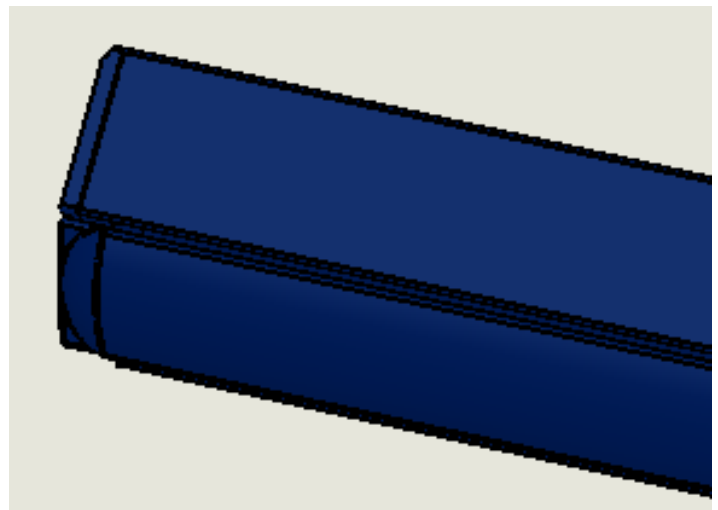


Diagram 12



➤ **Assembling the Endwalls**

For being able to connecting endwalls, first of all stick the isolation tape to the panel plastic and to the body polyurethane supporter. (The surfaces that isolation tape must be sticked are shown in Diagram 13)

Place the sheet nuts to the sockets as it is shown in Diagram 14 . Bring the connection holes on the endwall and the connection components on the refrigerator same level. Tighten the nuts with screw. (Diagram 15) Attach the plastic cover to the holes.

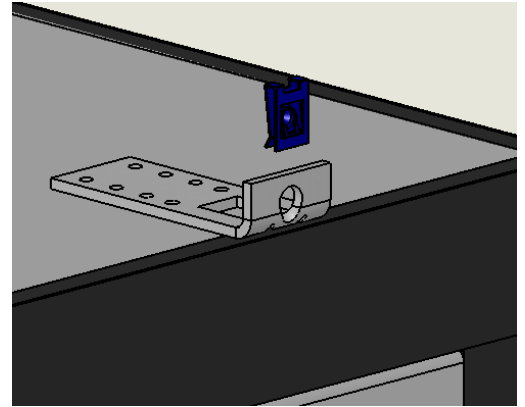
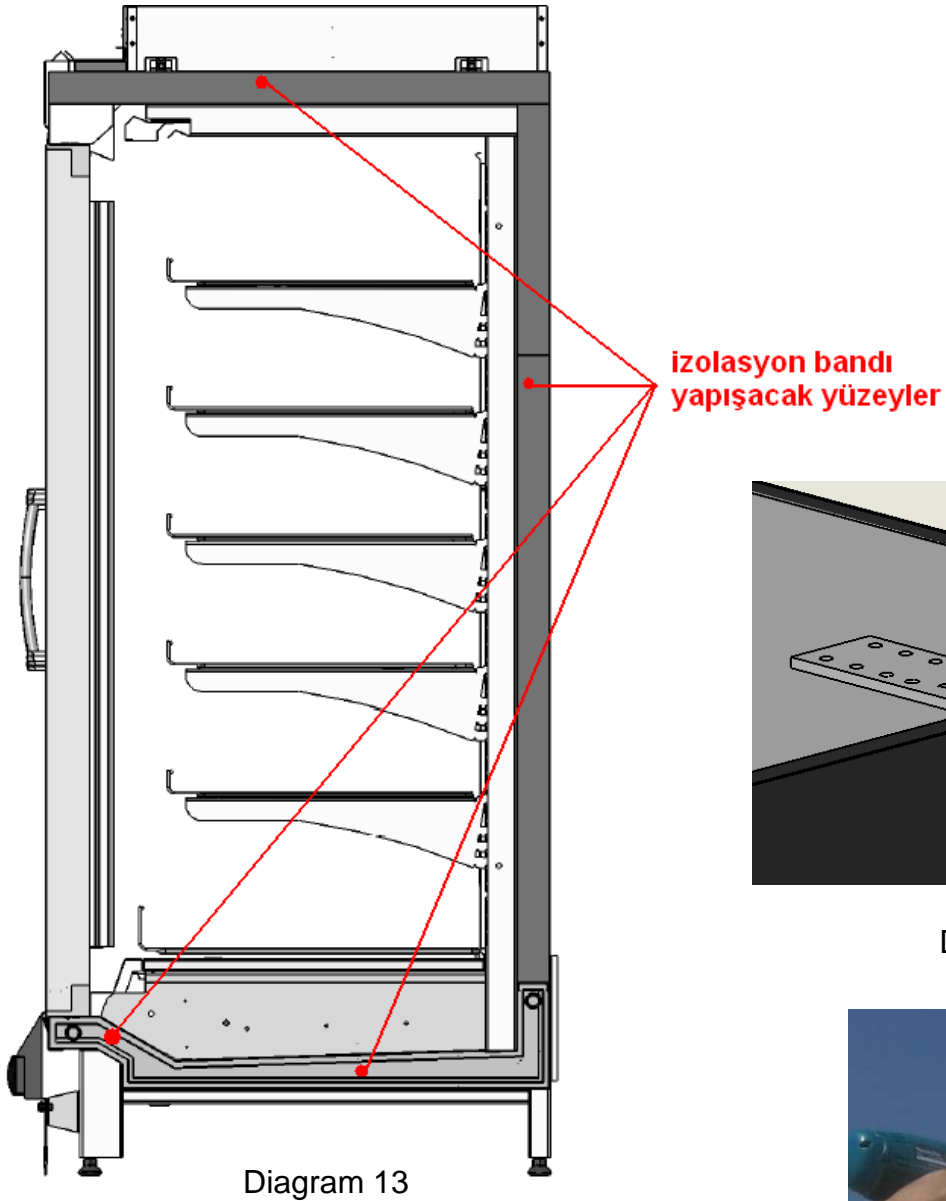
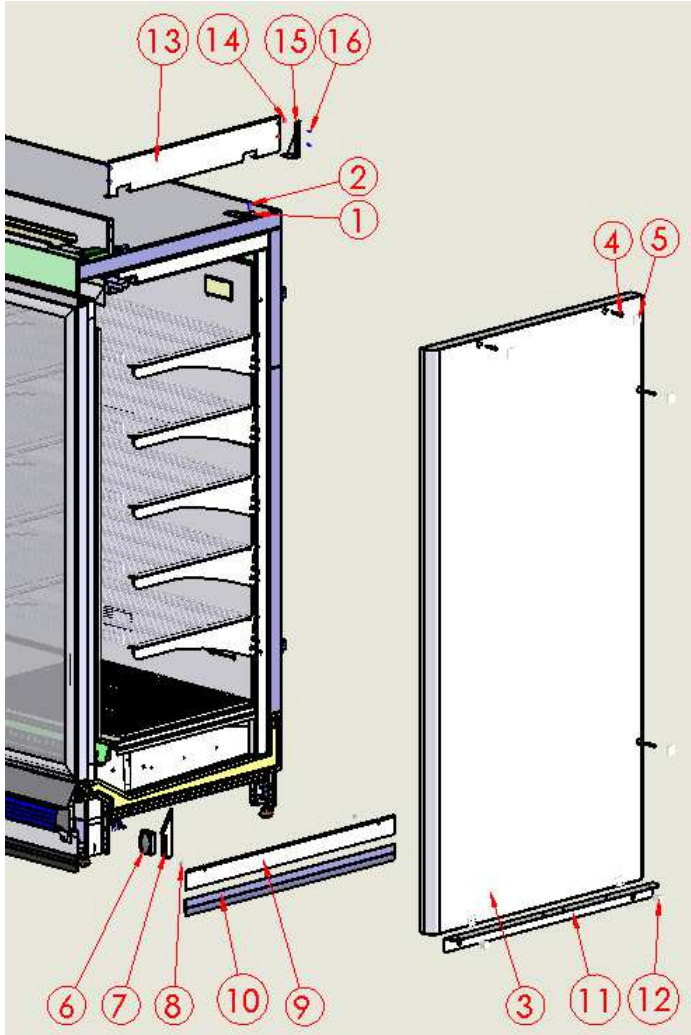


Diagram 14



Diagram 15



The connection equipments that will be used for assembling the endwalls are shown in diagram.

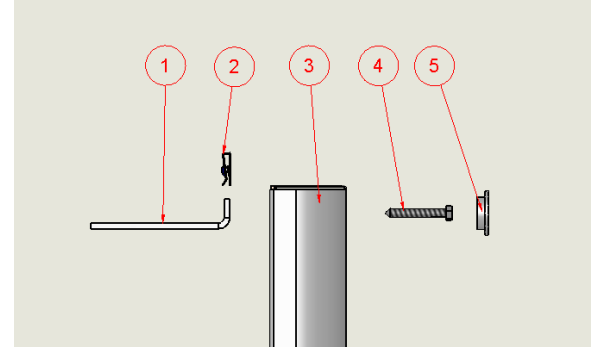


Diagram 16

Poz No	PIECE NAME	UNITS USED
1	Yan bağlantı sacı	Ürün üzerinde
2	Dolap bağlantı somunu Ø6.3x45	6
3	Dolap yanı (sağ veya sol)	1
4	Vida sac 6k M6.3x45 Würth	6
5	Beyaz plastik tapa	6
6	Tampon sonu	1
7	Alt dekor kapağı (sağ veya sol)	1
8	M6 özel somun	2
9	Yan baza	1
10	Süpürgelik plastiği	1
11	Yan baza bağlantı sacı	1
12	Baza topuzu	2
13	* Taç sacı yan (sağ veya sol)	1
14	* Sac somunu 3,9 Würth	2
15	* Taç sacı yan (sağ veya sol)	1
16	* Vida YSB 3,9x16	2

9. Assembling the Lower Decor and The Kickplate

Attach the lower decor sheet to the lower decor connection sheet whose bumper and bumper ends were assembled before.(Diagram 17)

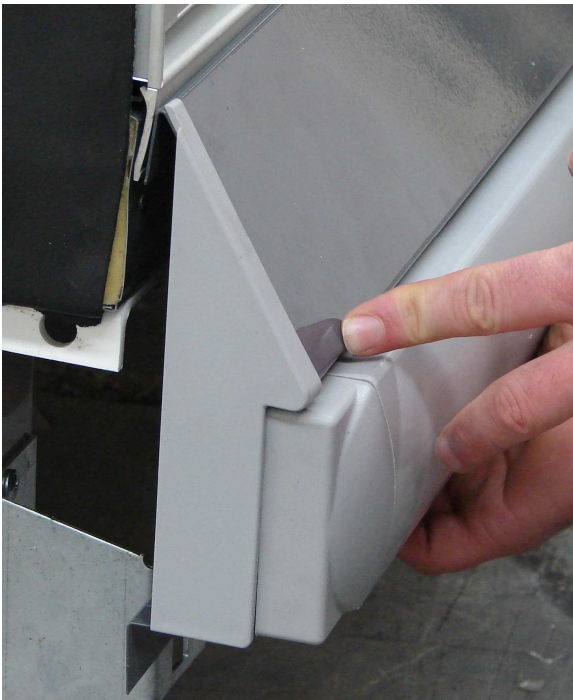
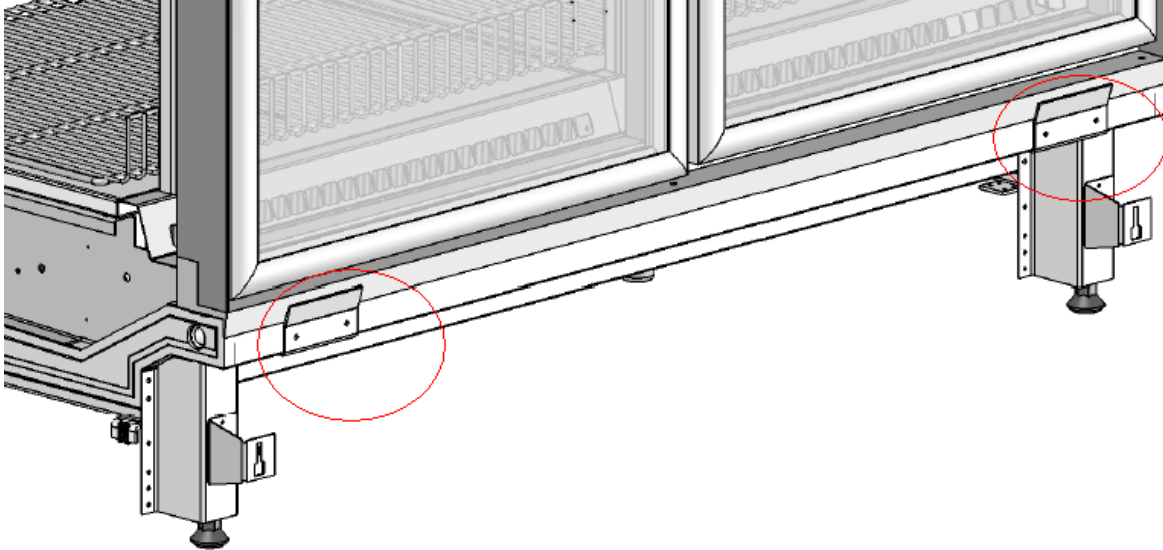
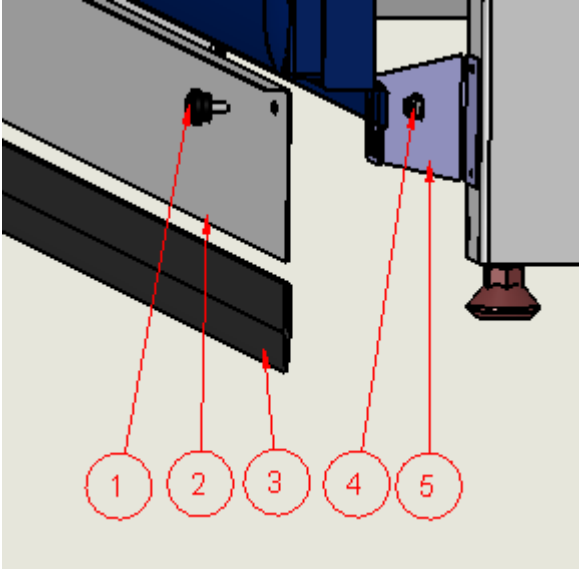


Diagram 17



Diagram 18

Kickplate is such an equipment that is located under the lower decor which covers the legs of refrigerator. Kickplate is connected to the refrigerator leg by kickplate mace.



After attaching the kickplate rubber on to the kickplate, lean the kickplate to the legs of refrigerator but be sure the kickplate rubber stays closer to the ground. Tighten the kickplate mace from left to right but be sure you placed the kickplate mace correctly to its sockets.

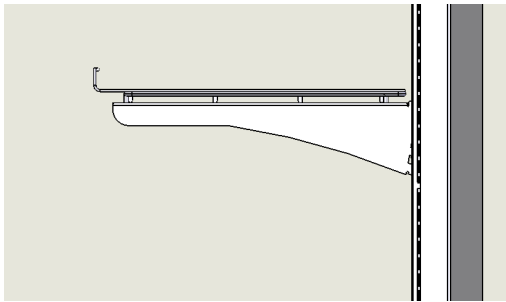
Diagram 19

POZ NO	PIECE NAME	UNIT			
		2D	3D	4D	5D
1	Kickplate Mace	2	2	3	3
2	Kickplate 2D / 3D / 4D /5D	1	1	1	1
3	Kickplate Rubber	1	1	1	1
4	M6 Nut	2	2	3	3
5	Alt dekor dayama sacı	Ürün üzerinde			

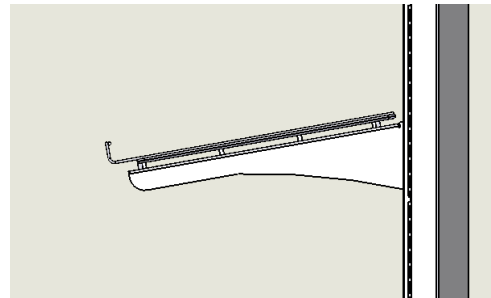


10. Assembling the Shelf Bracket and Shelf

Shelf bracket is tied to back grill which is tied on the refrigerator pillar. Shelf bracket carries the refrigerator shelf. Attach the shelf bracket's upper nails on to the holes on the pillar. After you assembled the upper nails, attach the middle and lower nails. After you attached the nails on to the pillar, press on the brackets and make the nails fit well with the pillar. The nails which you attached on the pillar designates the angle of the shelf. (Diagram 20-21)



(Diagram 20) 0° shelf location



(Diagram 21) 10° shelf location

For placing the shelf locate it between both brackets and release it on to the brackets (Diagram 22)

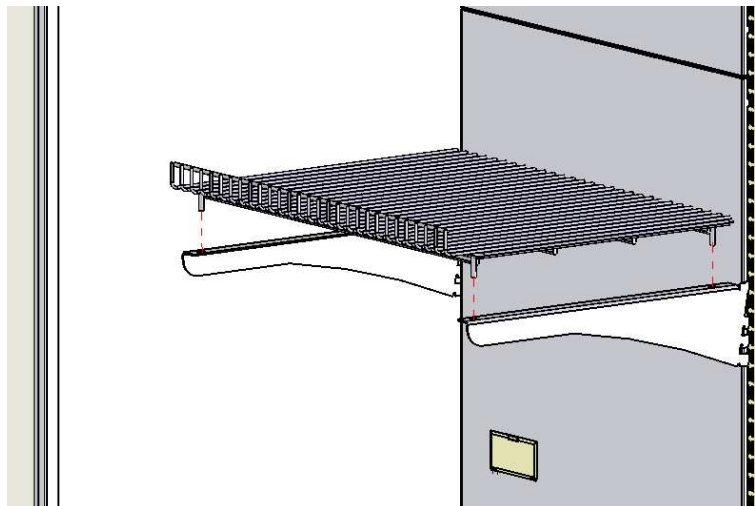
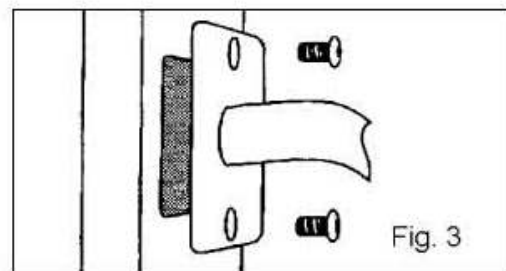
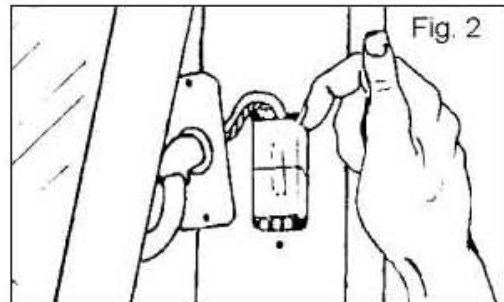
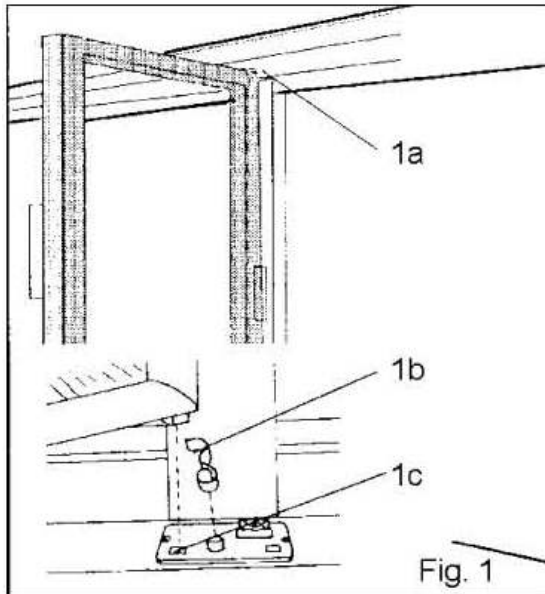
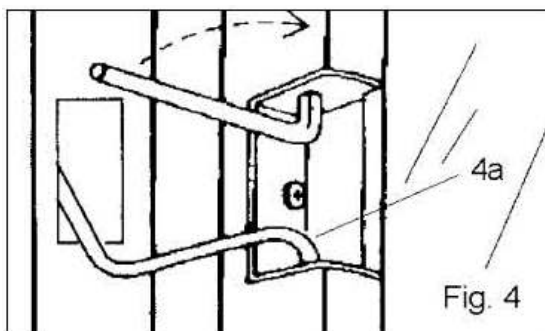


Diagram 22

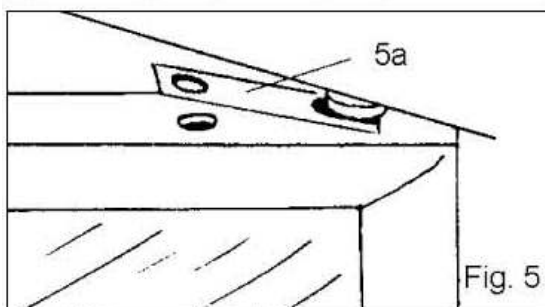
11. Changing Door Direction DOOR INSTALLATION *REVERSIBLE DOOR*



1. Lift door into frame to engage top door hinge pin into frame (1a).
2. Rest door on bottom of frame. Plug in door plug into frame and press it into the frame (2). Fasten cover plate where door cord exits (3).
3. Place door hold-open spring (1b) on mounting plate pin. Put door on hinge plate so that door pin fits into hole (1c). Swing door open or closed to drop door into proper position. Attention! Check that cable runs smoothly in door profile (4a).



4. Adjust door closing tension by inserting an allen key (art No. 711301) into frame hole and rotate tool approx. three "clicks". Proper tension is achieved when door is opened approx. 20mm. and then closes by itself when released.



5. Screw on lock plate (5a) on top of door. It is important that this is done, in order to lock door safely in frame.

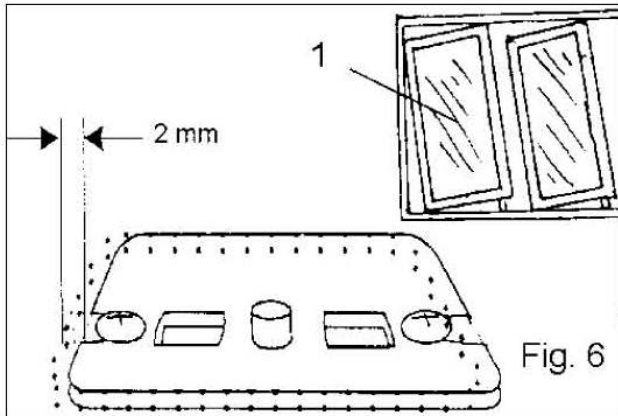


Fig. 6

6. After installation, if door appears to sag (1), unscrew screws on bottom mounting plate and adjust it to desired position. Bottom plate can be moved 2mm. in each direction.

Attention! Screws must be tightened even if bottom plate has not been adjust.

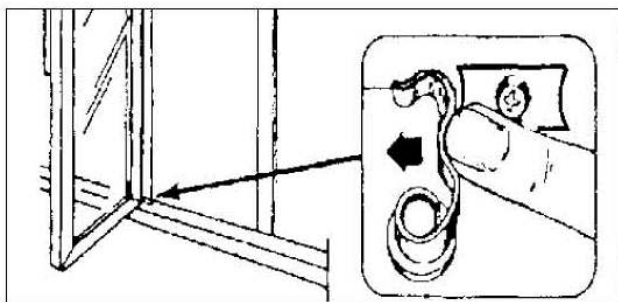


Fig. 7

DOOR HOLD-OPEN RETAINER

Attention! To keep door in open position, open door fully and push hold-open retainer, according to fig. To release, close door.

DOOR DISASSEMBLY

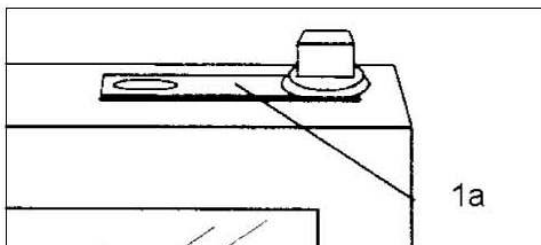


Fig. 1

1. Disconnect from power source. Open door and remove lock plate (1a, fig1).

2. Lift door up and out to disengage bottom door pin from mounting plate and rest door on bottom of frame. (fig 2)

3. Remove cover plate for door cable and disconnect electrical cord. (fig 3)

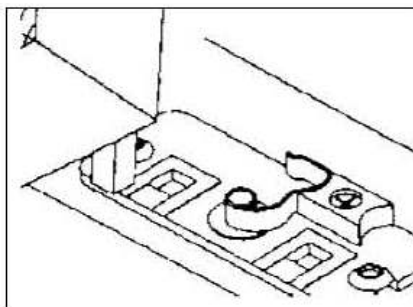


Fig. 2

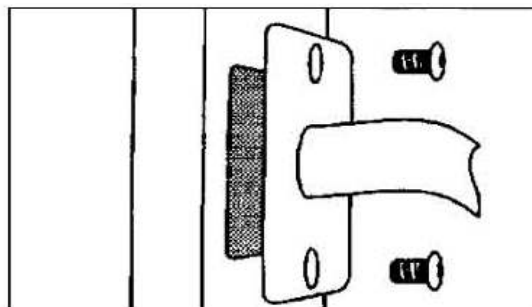
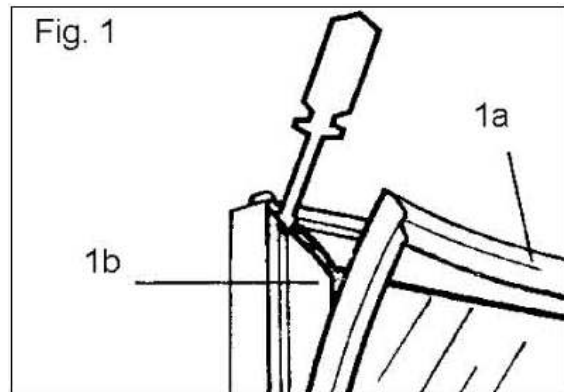


Fig. 3

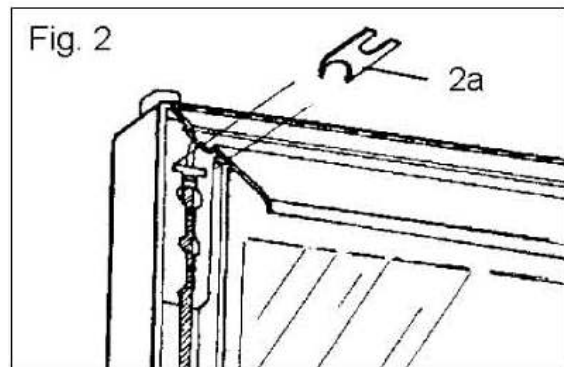
DOOR SPRING REPLACEMENT

1. Disconnect frame from power source. Remove door as shown in “Door disassembly”. Remove magnetic gasket (1a) by starting on the upper corner and work your way down. Remove plastic cover (1b) with a screw driver, starting in the upper corner. If plastic cover is damaged it has to be replaced.

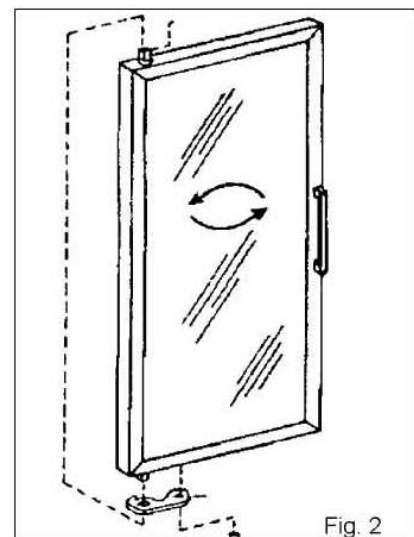
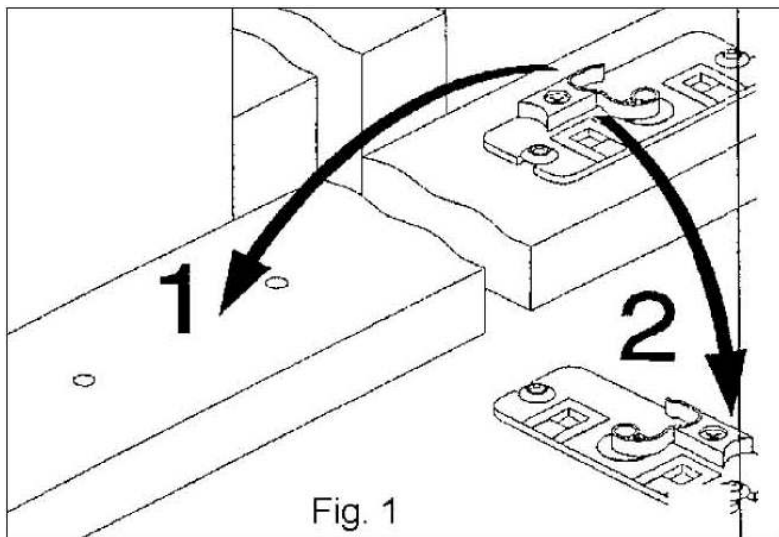


2. Remove locking pin (2a).

3. Replace spring mechanism (see page 10) Refit plastic cover by using a rubber hammer to get it into position properly. Use your finger to press magnetic gasket back into position. Reinstall door according to “Door installation”.



DOOR HINGE CONVERSION

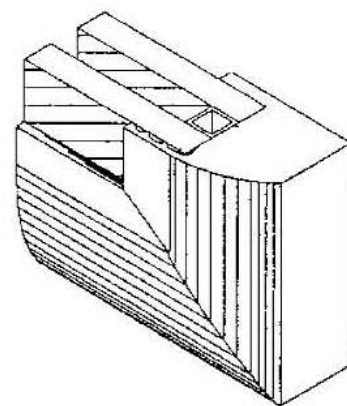
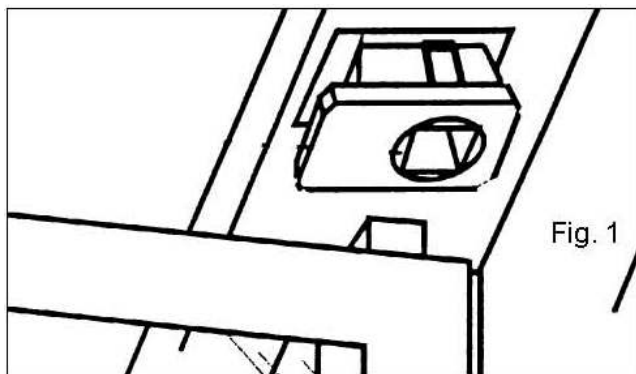


1. Disconnect frame from power source. Remove door according to “Door disassembly”.
 2. Remove door stop plate from bottom of door to opposite side, so that straight side of door stop plate faces front of door, fig 2.
 3. Remove mounting plate and protection plate and attach them on opposite side (1:1). Place hold open assembly on opposite side of mounting plate (1:2) Reinstall door according to “Door installation”.

12. Illumination

REPLACING PLASTIC BUSHING

1. Remove door from frame.
2. How to replace plastic bushing is depending on type of door profile. If door profile is curved, hole of bushing should be placed outwards (fig 1a).
3. Remove hinge bushing with a screw driver. Install new bushing.
4. Reinstall door.



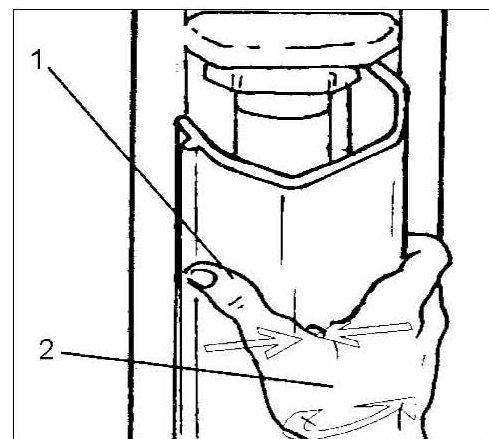
Standard door profile

REPLACING LIGHTING

Schott Termoform standard lighting

1. Press together lamp cover and twist outwards.
2. Twist light tube 90° clockwise or counter clockwise and remove it. Put in new light tube and reinstall lamp cover.

Attention! It is important that cover fits tightly against the aluminium profile. If air leaks in, light tube efficiency decreases.



13. Electricity Connection

Details below must be examined while making the electricity connections.

Attention!! Examine the definition stickers, informations and electricity diagrams on the product guide before making the electric connections.

- Protective automatic key and main power switch must be used against electric current on the refrigerator.
- Users must know where the key is kept in case of an emergency
- **Electric systems must be grounded.**
- Maximum voltage difference must be guaranteed at %+-6.
- The thickness of the cable on the energy line must be at least 2,5 mm² and must put up with high current
- The cable of energy line must not be longer than 4-5m, depends on the conditions if cable length increases the cable cross-section must be increased too.
- For making the refrigerator works regularly, be sure you obtained the heat and the damp values which are regarded at EN441 and be sure the climate class is 3.

The personnel who will interfere to the refrigerator must have electricity certificate.

14. Heat Control

Heat control is operated by the digital thermostat which is Assembled to the upstand on the refrigerator.(Diagram 23)

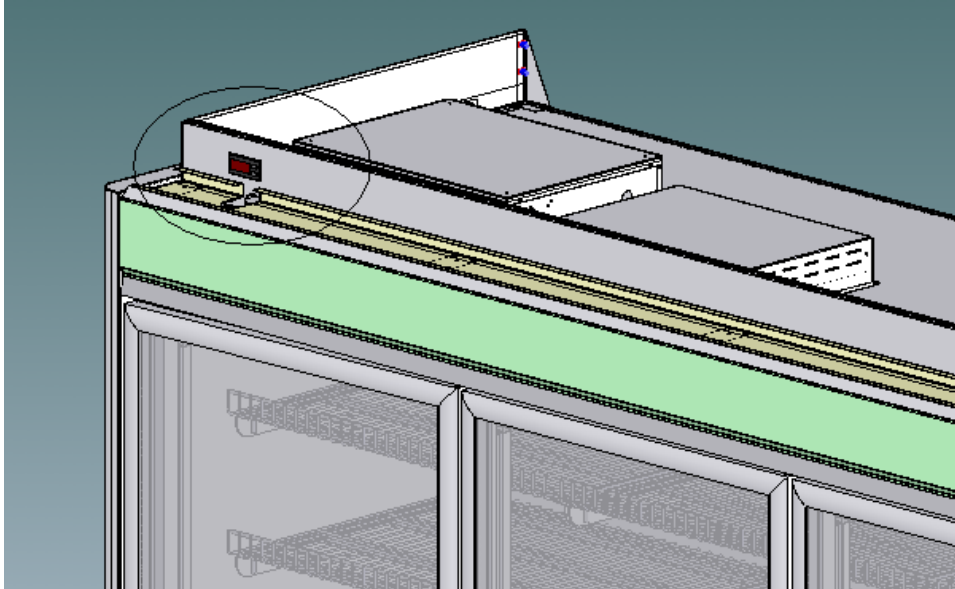
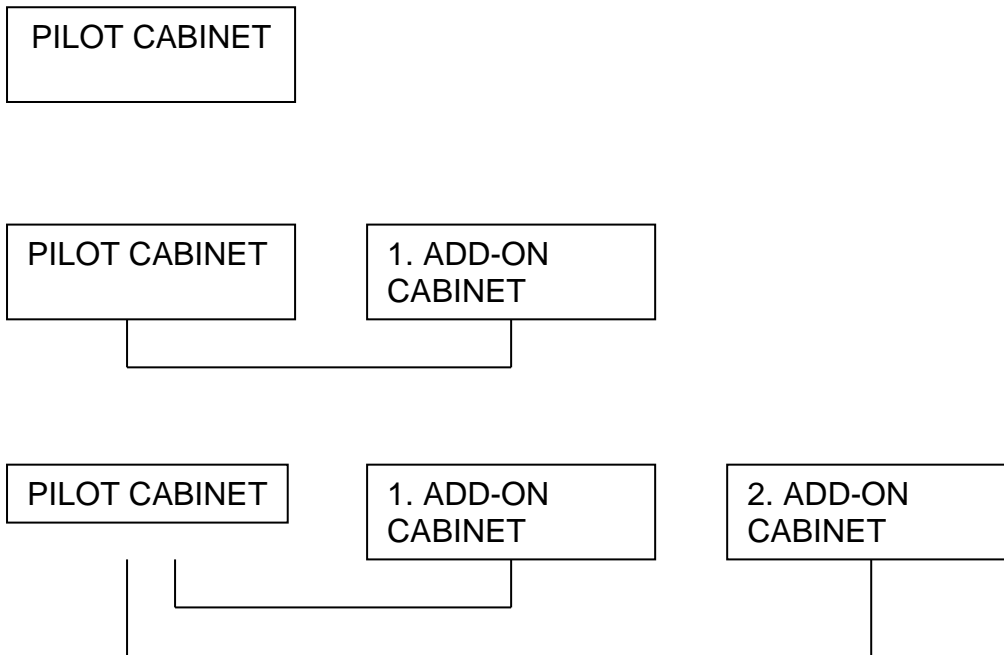


Diagram 23

Important: Maximum 3 units of cabinet's control must be obtained with a pilot module.



15. Loading Goods

These important rules must be followed while the refrigerator is loading.

- Locate the goods to the shelves tidy. Maximum loading limit is approximately 160 kg. on a shelf. Do not load over 160 kg.
- Shelves can be adjusted in different angles. (0°,10°) (Diagram 24)

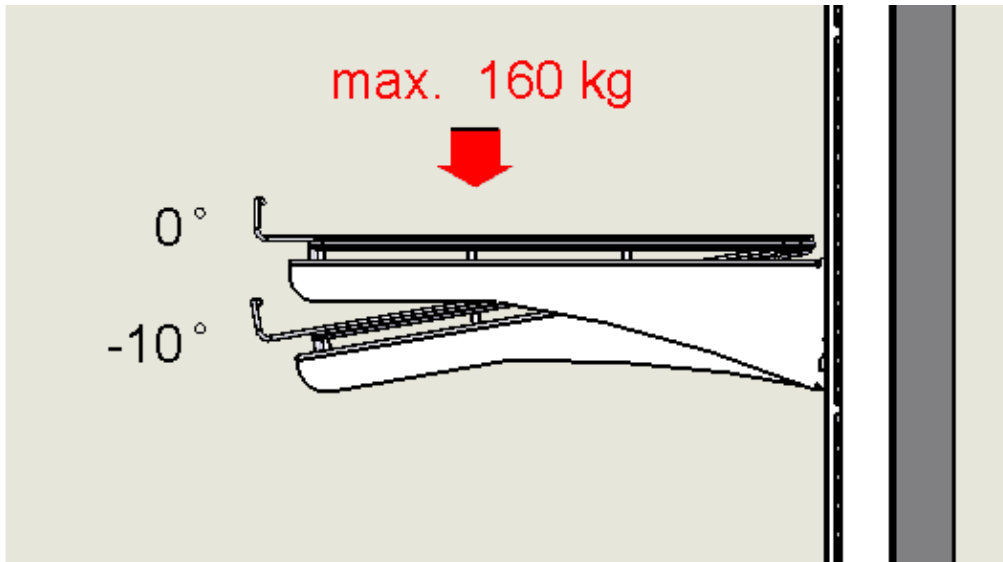
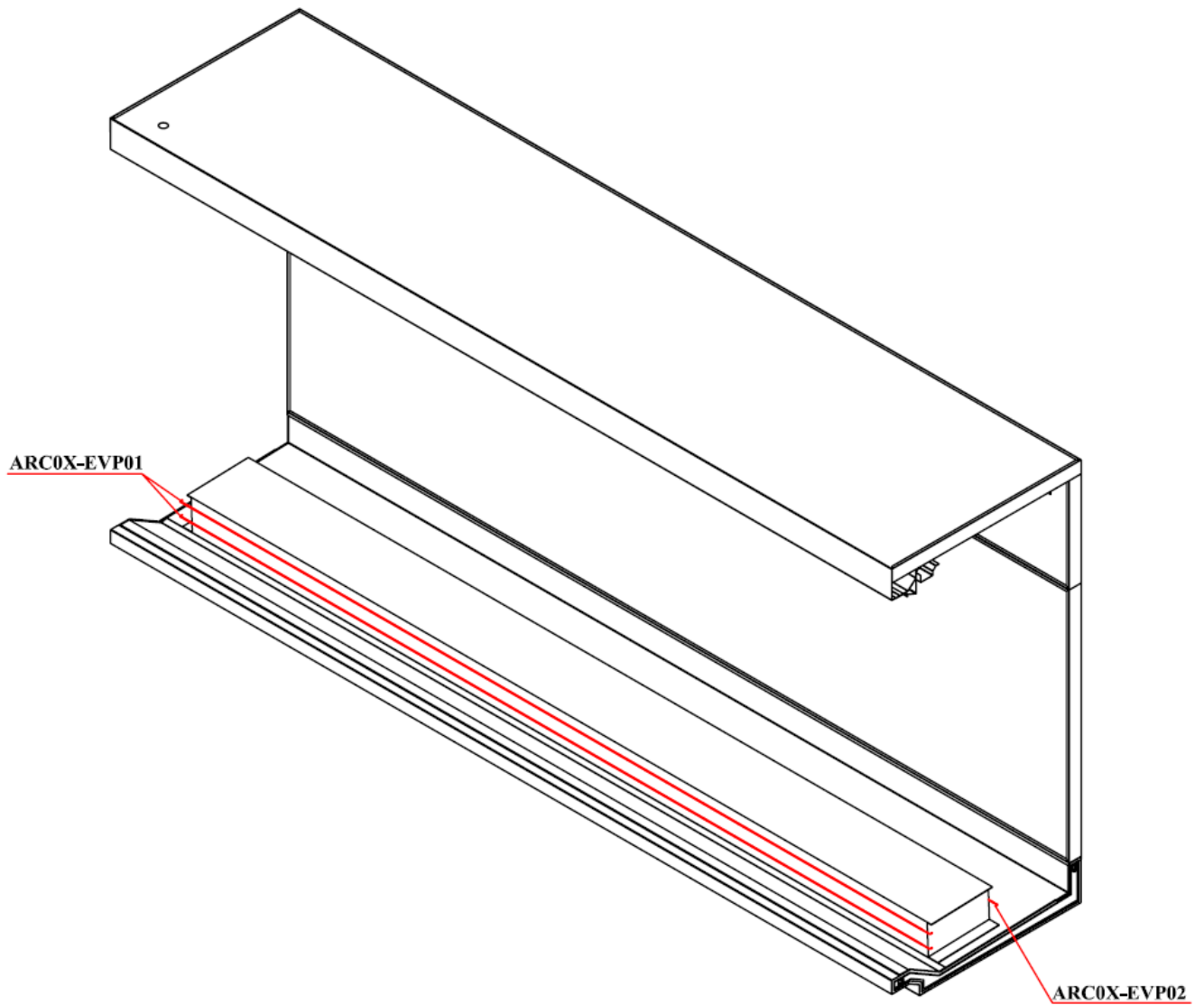


Diagram 24

- For being able to load the refrigerator fully adjust the goods and do not leave empty spaces
- Leave at least 30mm space between the loaded goods and the shelves.
- Make the loading as the same product which is loaded firstly would always be loaded.
- Do not load any goods to the refrigerator except the refrigerator's shelves and base displates.

16. Defrost and Drainage

Defrosting is obtained by resistance at Arctic refrigerator.



Sending the defrost water out;

- Make the base connection with the refrigerator's drainage piece.
- Prepare the water siphon and connect it to the water way

Way to prepare the water emptying system (Diagram 25, 26 ve 27) de ,



Diagram 25



Diagram 26

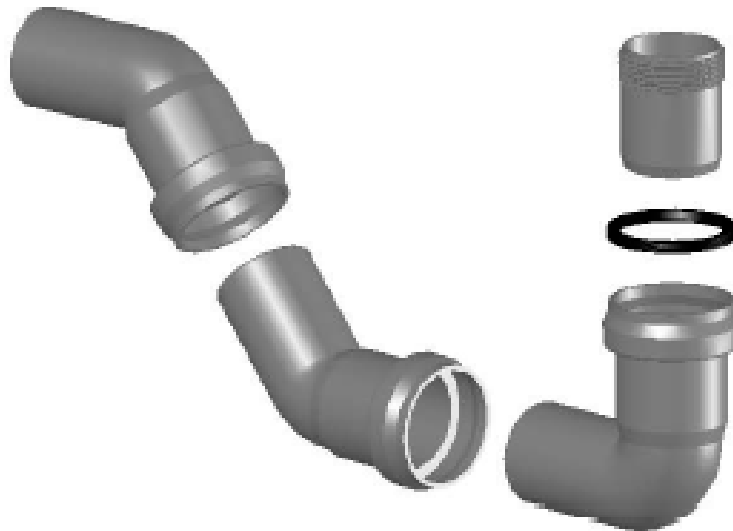


Diagram 27

- There must be some water placed as much as it fills the water emptying siphon before the refrigerator's first working attempt is made. These procedures prevent the bad smell of refrigerator, avoiding of cold weather and also prevent refrigerator perspiration. The drainage places of the refrigerator as to module is shown below.

The drainage places of the refrigerator module is shown below. (Diagram 28)

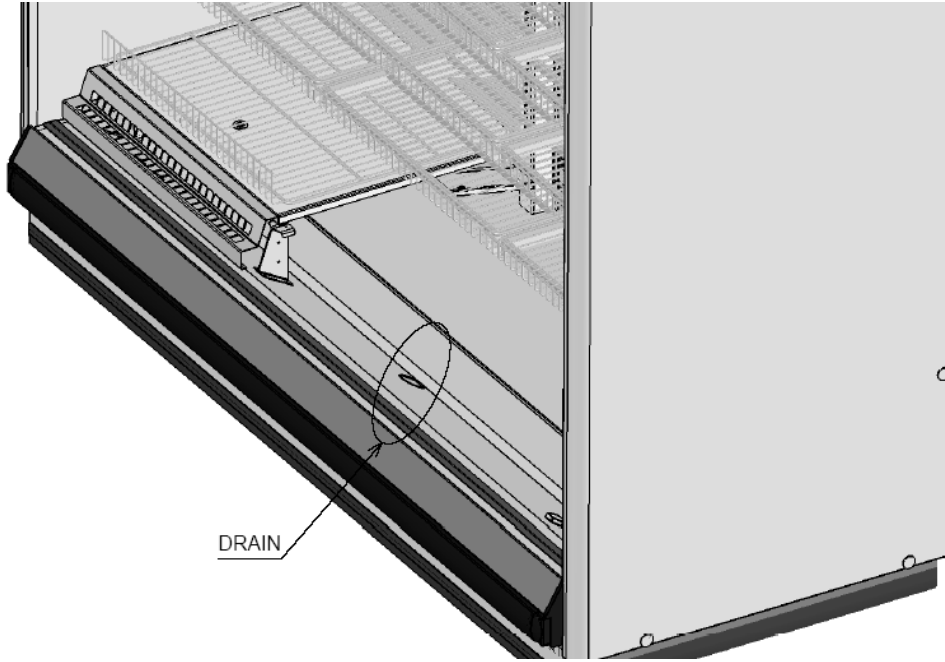
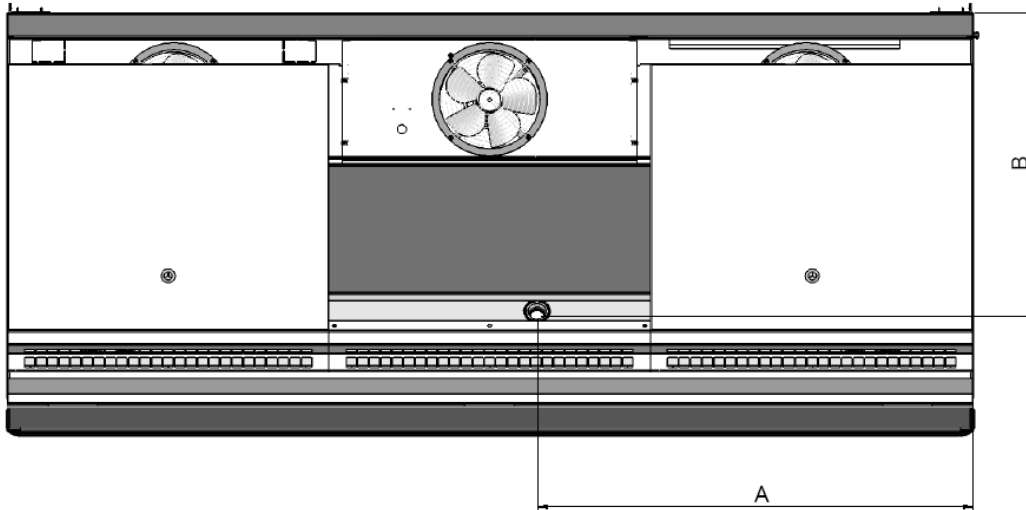


Diagram 28

MODÜL (L)	2D	3D	4D	5D
A (mm)	665	1055	1449	1835
B (mm)	735	735	735	735

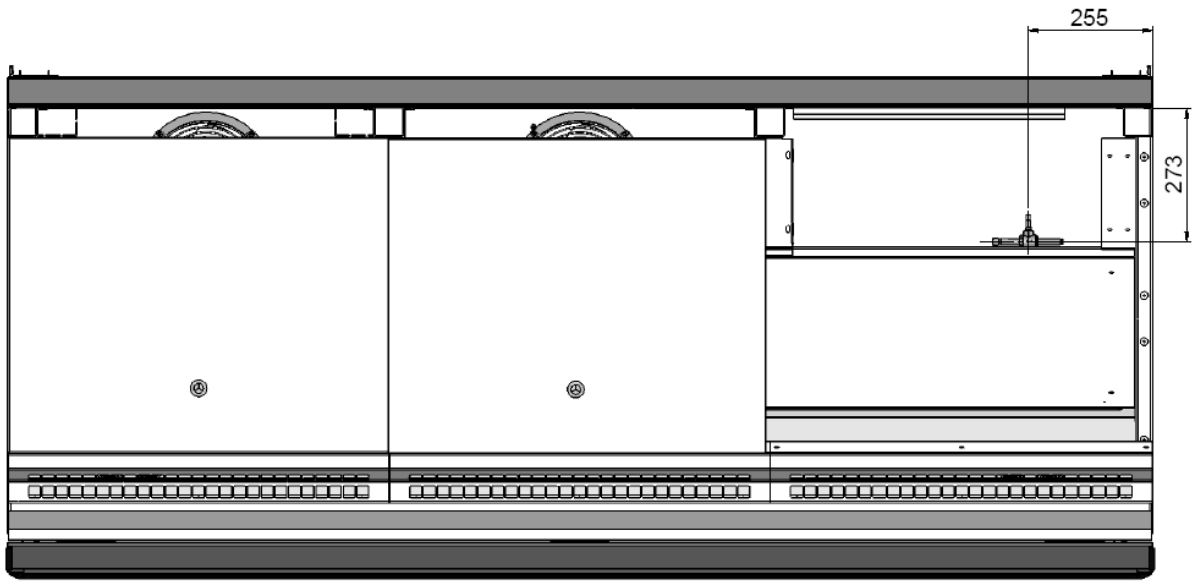


Dolap ön taraf

17. Valve Location

The valve on the Arctic refrigerator is located on right part of the refrigerator behind the evaporator near the fan sheet just as it is shown on Diagram 29.

Over Look;



DOLAP ÖN TARAF

Diagram 29

18. Care, Cleaning and Technical Service

Attention!! Make sure there is no electricity connection or the main power switch is turned off, before attempting any care and cleaning activities

It is a must for you to materialize your refrigerator's care and cleaning activities periodically. Cleaning section must be done by the users, such as cleaning the inner and outer surfaces of the refrigerators.

Before you start cleaning your refrigerator turn off the cooling and illumination keys. Remove the goods inside the refrigerator to somewhere else during the cleaning activity where the goods would not spoil. Do not remove the base displates during the cleaning. Cleaning of the refrigerator must be done just as written below.

Do not use alcohol during the cleaning

Use gloves for protecting your hands during the whole cleaning

- **First step cleaning**

After taking the delivery of:

- Be sure the package is not damaged
- Unpack the refrigerator without harming it
- Be sure all the pieces are undamaged and packed well.
- Apply the steps or cleaning the refrigerator
- Make contact with the provider company about any damage.
- **Cleaning the outer pieces (Daily/Weekly)**
 - Clean the outer pieces of the refrigerator once a week with detergent and soap.
 - Clean with soft gland and pure water.
 - Do not use any materials or solvent that could damage the outer surface.
 - Do not contact the parts which are related with electricity with water or detergent.
 - Do not use alcohol for cleaning the plexiglass.
- **Cleaning the inner pieces (Monthly)**

The reason of cleaning the inner side of the refrigerator is preventing the constitution of micro organisms so that the foods would be protected more efficiently.

- Remove all the foods inside.
 - Cut the electricity connection or turn off the main power switch.
- Disassemble all the piece that could be disassembled. For example base tray , air return gril etc. Clean it with the hot chemical water and dry it.
- Clean the base trays carefully and pay attention to the unknown materials do not contact with the fans
 - Contact with the authorized service if any abnormal situation occurs.

Re-place all the refrigerator equipment that you've disassembled from the refrigerator after you've finished the cleaning and connect the refrigerator to the electricity. Turn on the illumination and cooling keys after you've finished cleaning your refrigerator.

P.S. : Be sure the fans, the illumination pieces, the electrical cables and the other equipments are dry.

▪ **Technical Service:**

Please read the guide carefully. By this way the call center operator could be more helpful.

- Be sure the environmental heat and the moisture are not so different than the recommended values.
- Be sure the food packages do not contact with daylight directly.
- Isolate the store's Windows against daylight.
- Do not point the spotlights on to the refrigerator directly.
- Do not let the air grills blocked.
- Use the refrigerator for only keeping the cooled goods.
- Be sure the refrigerator cools constantly. Check on the refrigerator twice a day
- Load the refrigerator as to loading limits, do not overload.
- Empty the refrigerator immediately if any failure occurs.
- If any of the screws falls or if any of the lamp goes off change it immediately.
- Check on the automatic defrost periodically.
- Be sure there is no abnormal water condensing, if so then contact with cooling technician immediately.
- Make the periodical care continual.

Cabinets could give failure even you make the cleaning and care activities. When you realize that the refrigerator does not operate move as to the instructions below:

- Is cooling key switched on?
- Is everything normal at the cooling system's electricity box?
- Is there power?

If the answer of the question above are yes, then there is a problem with cabinet, with condensing unit or with installation. **Contact with the technical service.** Till the technical service arrives, remove all the goods in the refrigerator to somewhere else as soon as possible.

IN CASE OF GAS LEAK AND FIRE; Do not stay in the room if there is no air circulation. Plug off the refrigerator. **DO NOT USE WATER TO PUT OUT THE FIRE. ONLY USE FIRE EXTINGUISHER.**

19. Separating the pieces as to recycling

Every country provides the recycling by separating the refrigerator's pieces as to their local environmental laws.

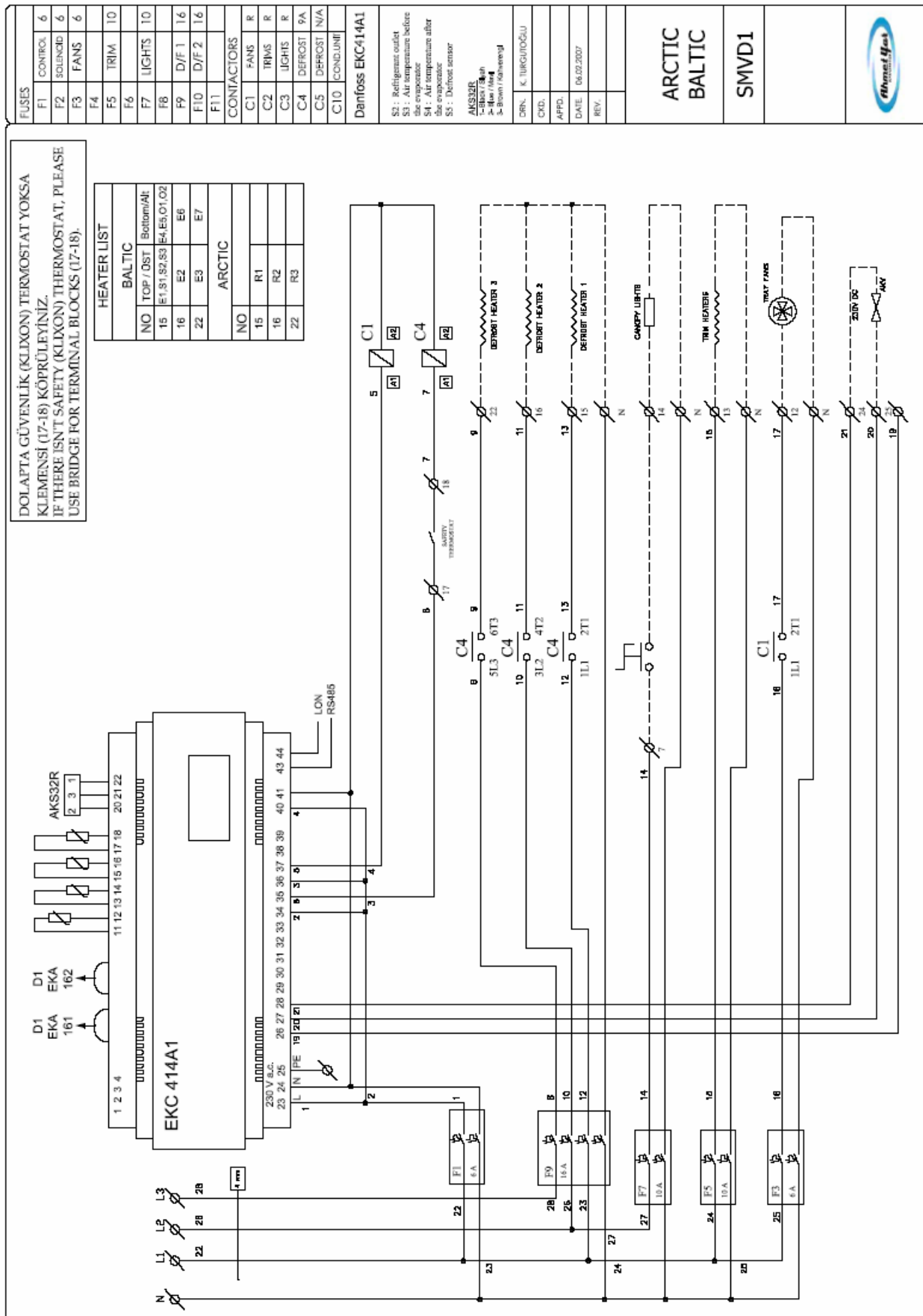
Pieces that used for the refrigerator;

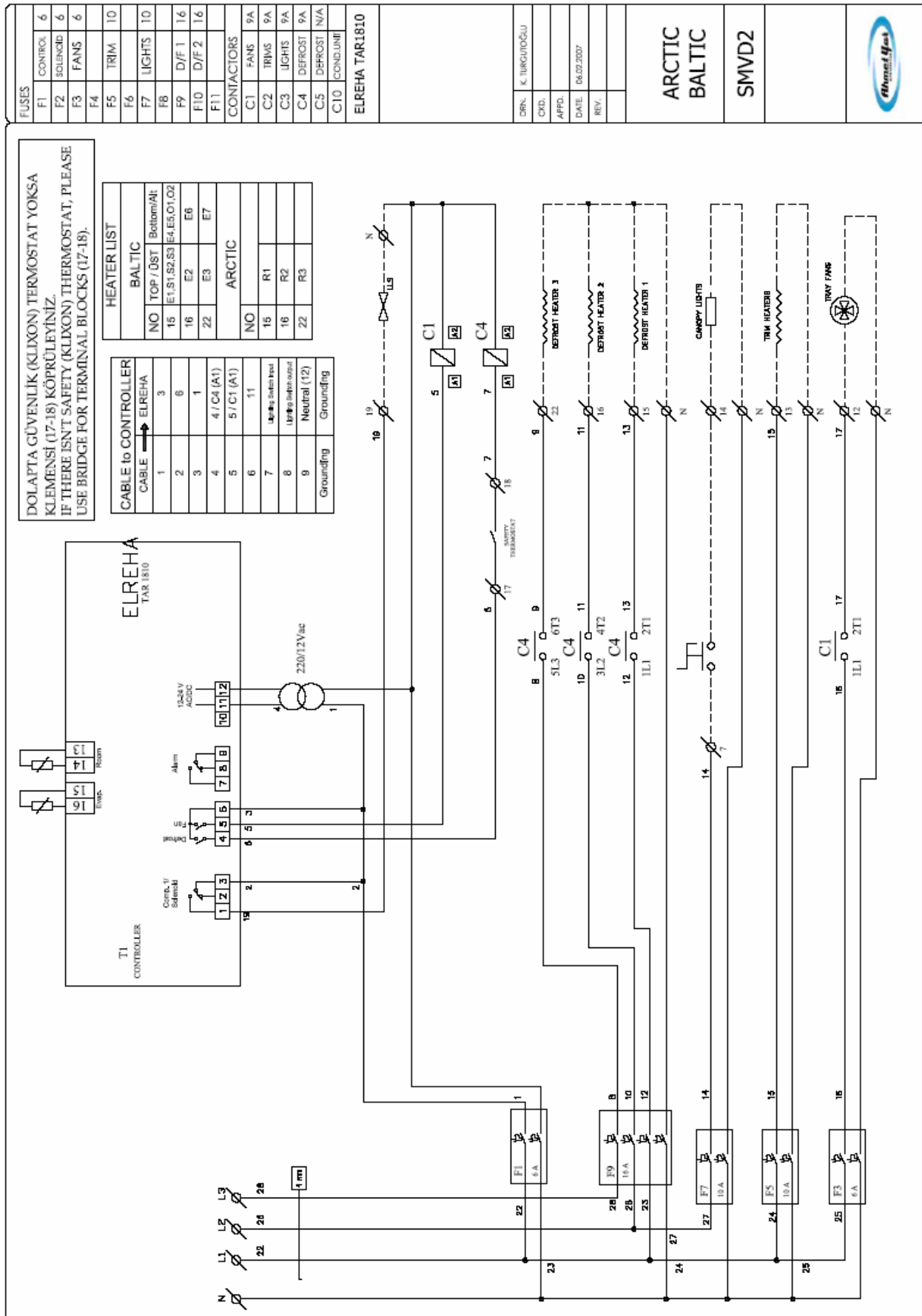
- Painted sheets : Pillars,shelves,legs
- Copper, aluminium :Cooling circuit, electricity system ve ceiling illumination
- Galvanize sheets :Lower panels, painted panels, simple pieces, shelves, base trays
- Polyurethan foam :Thermal injections
- Isıcam :Glasses
- Wooden :Corners of the foamed bodies
- PVC :Bumper and plastics on the windows
- Polistiren :Termoform endwalls
- Polikarbon :Lamp protection tubes

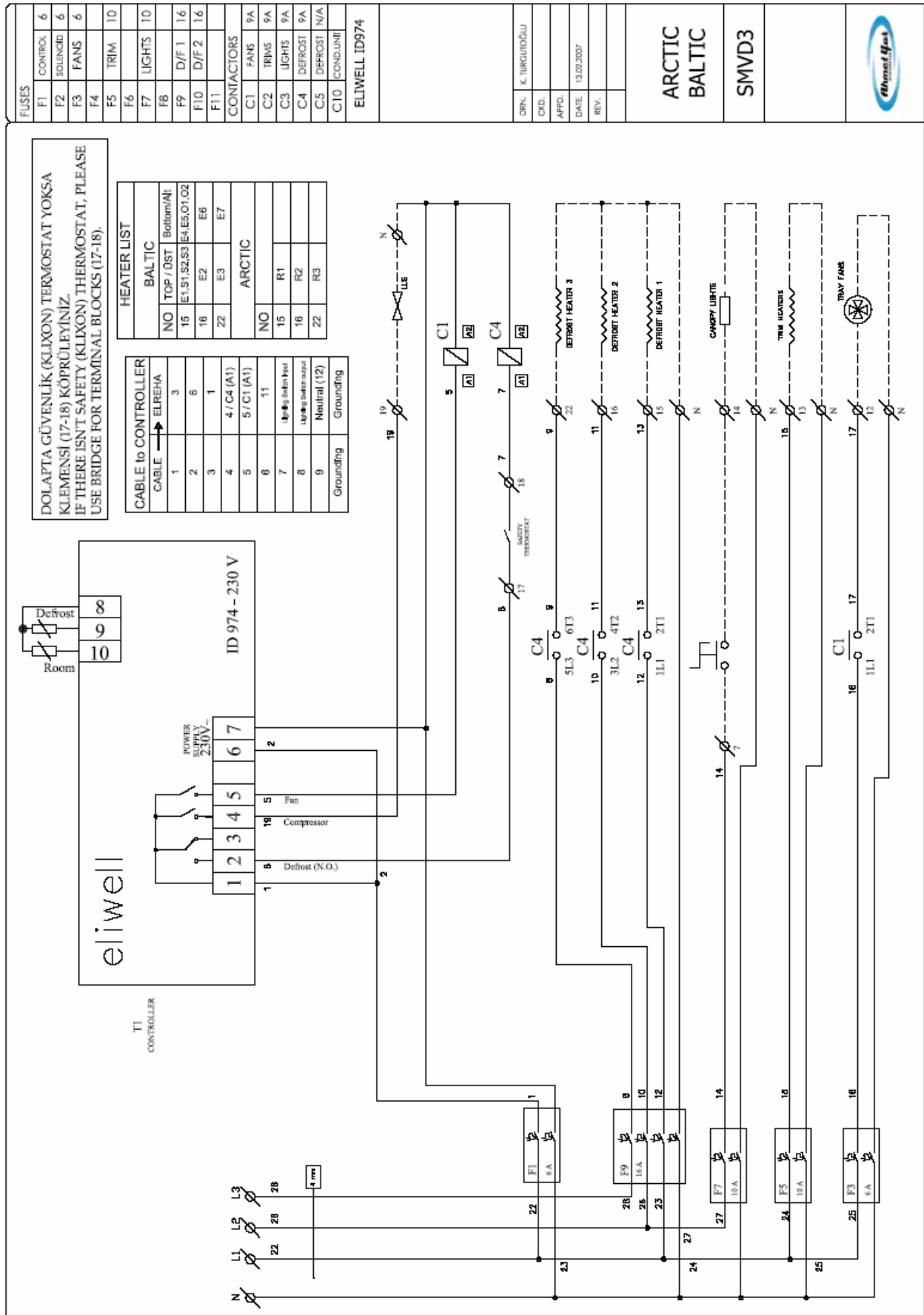
SIRA NO	2D	3D	4D	5D	AÇIKLAMA
1	23990201				DOOR SCHOOT LT 760x1601
2	23940206				FRAME SCHOOT FR LU-LT 1-2 4L (HL-2)
		23940206			FRAME SCHOOT FR LU-LT 1-3 6L (HL-2)
			23940206		FRAME SCHOOT FR LU-LT 1-4 8L (HL-2)
				23940206	FRAME SCHOOT FR LU-LT 1-5 10L (HL-2)
3	23990201				LIGHT T5 14W - 840
4					LIGHT SHROUD
5	SCHOTT 105111				DOOR SCHOOT HANDLE
6	24029902				BUMPER END SMALL
7	10419957				LOWER DECOR END LEFT
8	10419956				LOWER DECOR END RIGHT
9	10411010				BUMPER PLASTIC PROFILE 1562 mm
		10411010			BUMPER PLASTIC PROFILE 2343 mm
			10411010		BUMPER PLASTIC PROFILE 3124 mm
				10411010	BUMPER PLASTIC PROFILE 3898 mm
10	10320032				ALUMUNIU BUMPER HOLDER 1452 mm
		10320032			ALUMUNIU BUMPER HOLDER 2233 mm
			10320032		ALUMUNIU BUMPER HOLDER 3124 mm
				10320032	ALUMUNIU BUMPER HOLDER 3898 mm
11	42202036				LOWER DECOR SHEET 2D
		42203036			LOWER DECOR SHEET 3D
			42203036		LOWER DECOR SHEET 4D
				42203036	LOWER DECOR SHEET 5D
12	24029902				KICKPLATE MACE SCREW
13	10410202				KICKPLATE RUBBER 1562 mm.
		10410202			KICKPLATE RUBBER 2343 mm.
			10410202		KICKPLATE RUBBER 3124 mm.
				10410202	KICKPLATE RUBBER 3898mm.
14	42202053				KICKPLATE 2D
		42203053			KICKPLATE 3D
			42204053		KICKPLATE 4D
				42205053	KICKPLATE 5D
15	24029911				M6 SPECIAL NUT
16	42200285				ENDWALL LEFT
17	24029915				ENDWALL RIGHT
18	42200285				NUT 6.3
19	24040541				SCREW 6K 6.3x45
20	24029902				KICKPLATE MACE SCREW Ø24mm.
21	42400012				SIDE KICKPLATE HOLDER
22	42200012				KICKPLATE RIGHT SIDE
23	42200013				KICKPLATE LEFT SIDE
24	10410202				KICKPLATE RUBBER SIDE
25	24010604				LEG
26	42202185				BUS-STOP TRACKING 2D
		42203185			BUS-STOP TRACKING 3D
			42204185		BUS-STOP TRACKING 4D
				42205185	BUS-STOP TRACKING 5D
27	32200250				ELECTRIC BOX
28	32200251				ELECTRIC BOX COVER
29	32200252				BALAST BOX
30	22330207				BALAST ELEKTRONIC TL5 HE HF-P 2 14-35
31	32200253				BALAST BOX COVER
32	42202084				UPSTAND 2D
		42203084			UPSTAND 3D
			42204084		UPSTAND 4D
				42205084	UPSTAND 5D

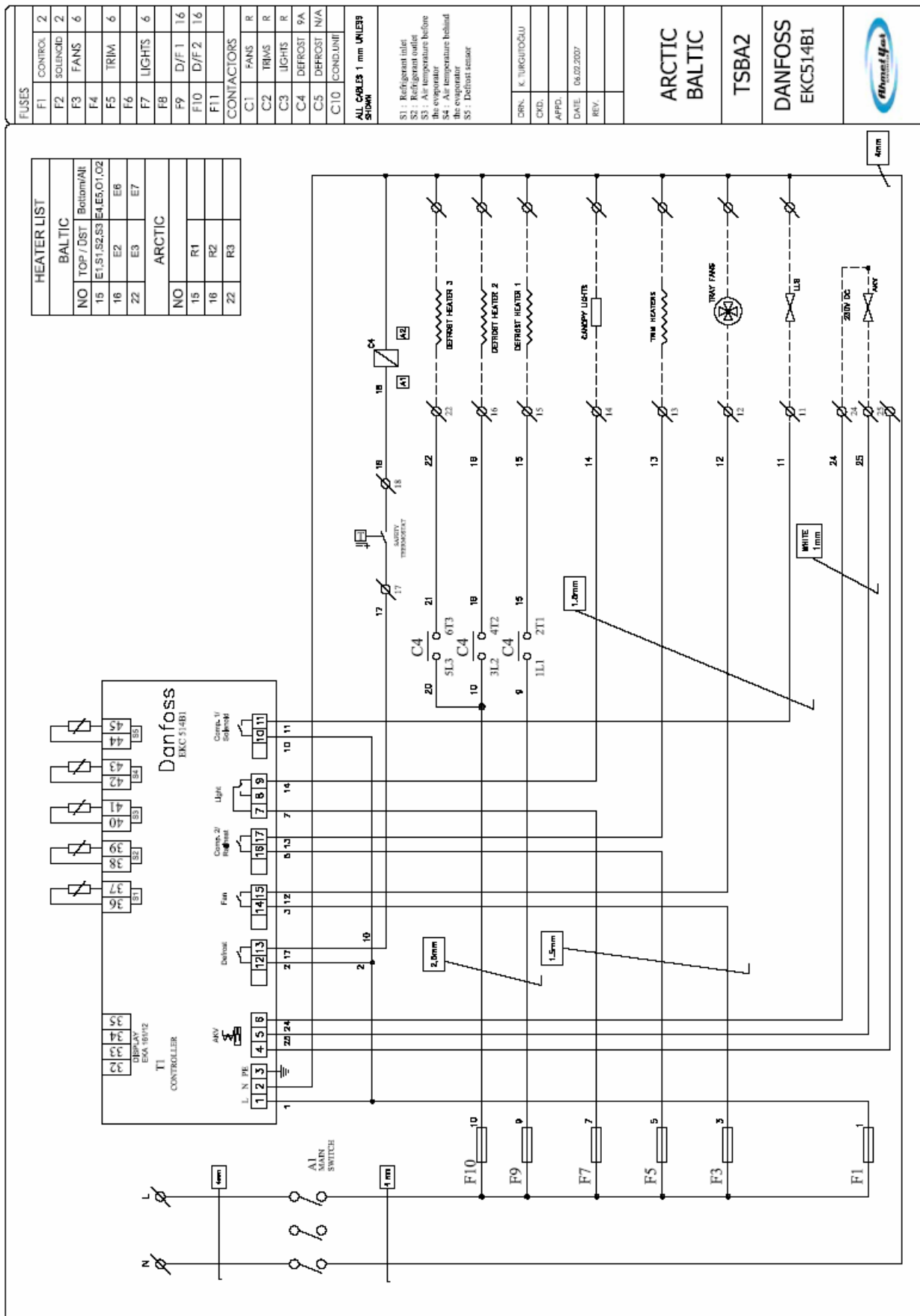
SIRA NO	2D	3D	4D	5D	AÇIKLAMA
33		42200060			UPSTAND SIDE
34		24029912			NUT 3.9
35		24040606			SCREW YSB 3.9x16 CR
36		32200255			UPSTAND HOLDER RIGHT
37		32200256			UPSTAND HOLDER LEFT
38		42201018			BACK GRILL TOP LEFT
39		42201015			BACK GRILL BOTTOM LEFT
40		42201017			BACK GRILL TOP MIDDLE
41		42201016			BACK GRILL BOTTOM MIDDLE
42		42201013			BACK GRILL TOP RIGHT
43		42201014			BACK GRILL BOTTOM RIGHT
44		10419930			PROBE COVER
45		40002101			SHELF BRACKET LEFT
46		40002100			SHELF BRACKET RIGHT
47		23650102			SHELF WIRE
48		23650103			BASE SHELF
49	42201168	42201168	4220168		BASE STD.
				42205168	BASE 5D
50		21100104			ADAP KOOL AKV 10-4 ELEC. EXP. VALVE
51	42201041	42201041	42201041		FRONT AIR GRILL STD.
52				42205041	FRONT AIR GRILL 5D
53	49703012				COIL 2D
		49703013			COIL 3D
			49703014		COIL 4D
				49703015	COIL 5D
54		40015017			FAN
55		20860010			FAN COVER D:230 CR-NI
56		2364014			SYSTEM DIVIDER
57		23701004			DRAIN TRAPS
58		23200121			DRAIN SEAL
59		23701018			ELBOW 90°
60		23701017			ELBOW 45°
61		23701013			DRAIN SIPHON

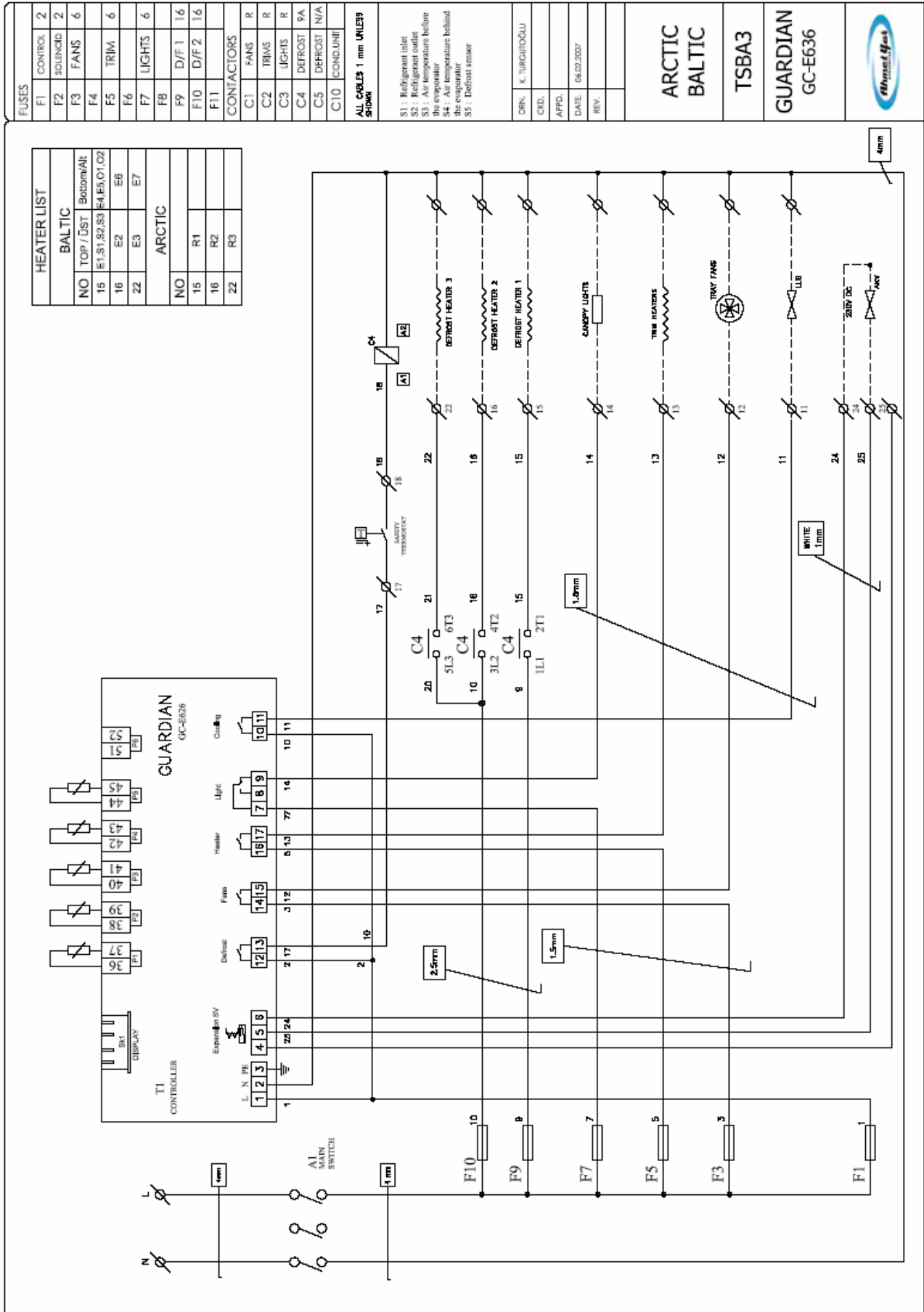
21. Electrical Diagrams











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	Virtual Prob: Blowing and suction probes rates for regulation		100	100	100	50	50
	0= Blow probe						
	100= Suction probe						
/5	°C or °F selection		0	0	0	0	0
	0=°C, 1=°F						
/6	Decimal		1	1	1	1	1
	0=active,						
	1= inactive						
rHS	Virtual probe regulation rate to calculate glass temperature		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= inactive						
	1= active						
/t1	probe to be viewed in button terminal		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
	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
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)						
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							
d1	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	
d7	defrost by-pass	0	0	0	0	0	0	
	0 = inactive ; 1 = active;							
d8	Alarm delay following defrost and door opening	30	30	30	30	30	30	
d9	Status of compressor protection times in hotgas bypass	1	1	1	1	1	1	
	0 = protection times are followed ; 1 = protection times are ignored							
Sd1	Defrost Probe value	-	-	-	-	-	-	
Sd2	Second Evaporator defrost probe value	-	-	-	-	-	-	
dC	Defrost time basis	0	0	0	0	0	0	
	0 = dl hour,dP1,dP2 and ddP minute; 1 = dl minute,Dp2 and ddP second							
d10	Time for defrost based on lamel temperature	0	0	0	0	0	0	
	0 = Function inactive							
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	0	0	0	0	0	
	0 = Function inactive							
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	0	0	0	0	0
	0= pump down inactive						
dHG	Multiplied hot gas bypass type	0	0	0	0	0	0
	0 = Compensator valve is OFF usually						
	1 = Compensator valve is ON usually						
ALM (Alarm)							
AA	Determination of temperature probe for AH and AL alarms		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 sıcaklığı (Syt)					
	7 =SH pressure transmitter temperature equivalence (tEu)	14 = çığlınme noktası (SdP)					
AA2	Determination of temperature probe for AH2 and AL2 alarms control AA parameter		5	5	5	5	5
A0	Low and high temperature alarm difference		2.0	2.0	2.0	2.0	2.0
A1	Threshold type for AL and AH 1. Alarm delays		0	0	0	0	0
	0 = relative AL and AH set value 1 = absolute AL and AH absolute values						
A2	Threshold type for AL2 and AH2 2. Alarm delays		0	0	0	0	0
	0 = relative AL and AH set value 1 = absolute AL and AH finite values						
AL	Low temperature 1. alarm threshold		4	4	4	4	4
AH	High temperature 1. alarm threshold		5	5	5	5	5
AL2	Low temperature 2. alarm threshold		0	0	0	0	0
AH2	High Temperature 2. alarm threshold		0	0	0	0	0
Ad	Low and high temperature alarm alarm delay		15	15	15	15	15
A4	ID1 digital input configuration in S4 input		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	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 = 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 D15 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 = Function is 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	
PMP	Electronic expansion valve manual operation activation	0	0	0	0	0	0	
	0 = inactive 1 = active							
PMu	Manual valve position	-	-	-	-	-	-	
Phc	Large capacity valve activation	0	0	0	0	0	0	
Cnf (Configuration)								
In	MPXPRO Unit type	1	1	1	1	1	1	
	0 = Slave 1 = Master							
Sn	Number of slave in local network	0	0	0	0	0	0	
	0 = No Slave							
H0	Supervisor and Master-Slave network address	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	1	1	1	1	1	
	1 = Button set and remote control is active							
H3	Remote control activation code	0	0	0	0	0	0	
	0 =no remote control activation code							
H4	Buzzer activation	0	0	0	0	0	0	
	0 = active; 1 = inactive							
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	0	0	0	0	0	
	0 = Light 1 = AUX							

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 basin)	-	-	-	-	-	-
---	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)	-	-	-	-	-	-

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	
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	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).							