USER MANUAL FOR SOLI

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1. Foreword

Dear Customer,
Please be sure to read this operating manual carefully before putting your new device into use. The manual contains important notes on safety and proper installation, use and maintenance of the device.

Please keep the manual ready for reference and hand it over to any future new owner of the device. Make sure the manual is read by all staff who may use or work with the cabinets and that they understand and observe the contents.

To ensure safe operation in all service conditions, the following safety precautions must be observed:

- Contact your Service Organization if you are in any doubt about electrical connection, working or safety of your refrigerated cabinets.
- Never detach any cover except where specifically instructed in this manual. Doing so might expose live electrical parts.
- Never use a water hose or high-pressure jet to clean the device.
- All work on electrical equipment must be left to a qualified electrician.
- Please pay attention to the maximum load limits when filling the display shelves.
- Electrical elements may only be replaced by a qualified electrician or person with experience in electrical engineering!
- Wear safety gloves when cleaning and servicing the device.

Ahmet Yar cabinets does not contain PCB, PCT, asbestos, formaldehyde, cadmium or substances which interfere with moistening.

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.

(Some of the explanations and applications may vary depending on the device type and model.)

2. Introduction

This guide is prepared for the SOLI cabinet. 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.

SOLI is a semi-vertical, open-front, multi-shelfed cooler refrigerator. Its condenser unit is designed as remote. With its wide display area and loading capacity, it is suitable for usage of stores and larger stores.
 Cheese in the cabinet. The cabinet has a defrost-type off-cycle. Run cases modules are 1875 mm, 2500 mm and 3750 mm

3. Warning and definition stickers on the case

- Product Definition Sticker (Fig.1): Product definition sticker is located inside the cabinet on the ceiling and it can includes all technical properties as below: Logo and address info of the producer company, product certificates and quality certificates of the producer, model of the product, article no, serial number of the product, production date of the product, air conditioner class of the product, temperature range of the cabinet, type of refrigerant, test pressure, working pressure, working voltage info, approved certificates of the product and the standards&directives, fans supply voltage info, power of evaporator fans, power of led lights, power of drain heaters, power of defrost heaters, power of glass heaters, load max.. etc.

- High Voltage Sticker (Fig.2): High voltage sticker is located on the electricity box.

- Loading Sticker (Fig.3): 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.

- Fragile Stciker (Fig.4): There ara on the risk of fracture surfaces.Carefully moving is important and do not hit to hard materials. There are fra-gile stickers on the side walls.

- Foot Print Sticker (Fig.5): This sticker located on the base trays.

- Pressure Sticker (Fig.6): Pressure sticker is located at the exit points of the copper pipes. It is used for determining the quantity of nitrogen.

Fig.2

Fig.5

Fig.3

Fig.1

Fig.4

Fig.6
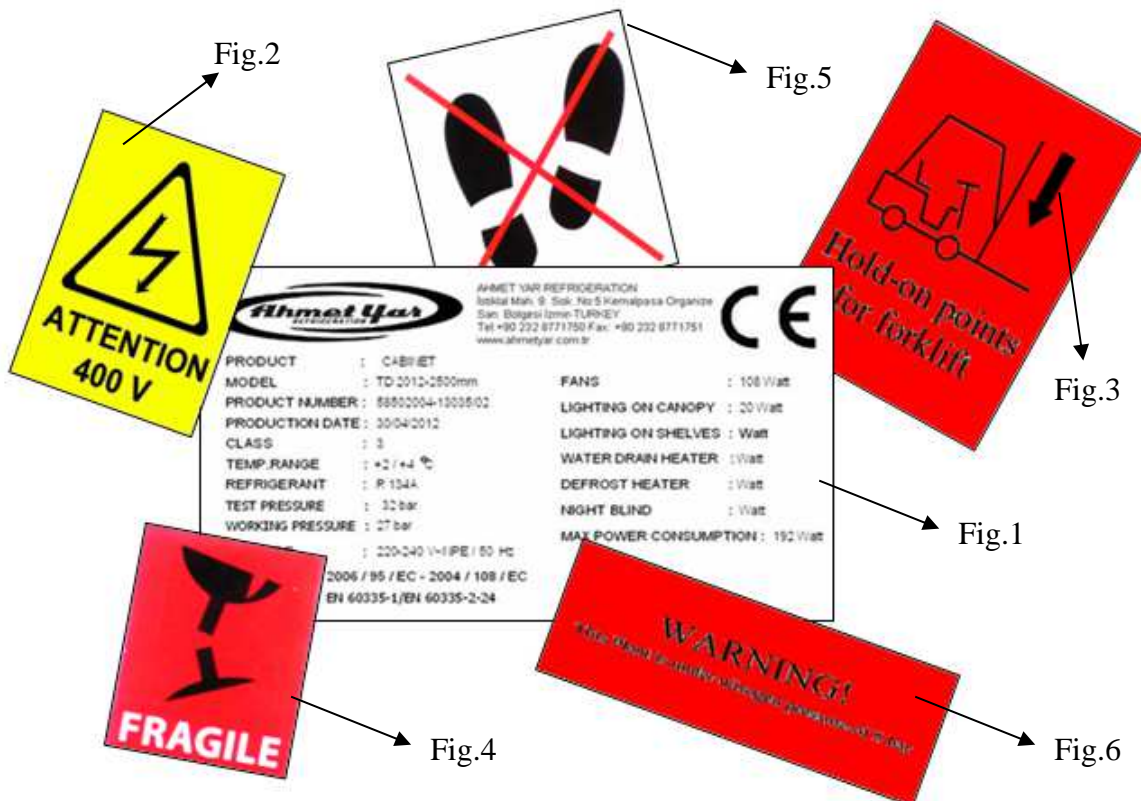
4. Norms and Certificates

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.

Class	Dry Air Temparature	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

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

5. Installation and Environmental Situations

Follow the instructions below for installation.

The situations that must be paid attention to placing the cabinets. Do not leave or assemble the refrigerator at the positions below ;

- Do not place the cabinet under direct sunlight
- Do not place the cabinet in front of a door
- Do not place the cabinet near a heat sources
- Do not place the cabinet in front of direct air flow from an air condition or a vantilator.
- Do not place the cabinet outdoors
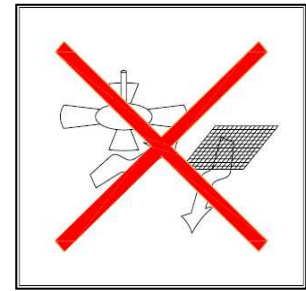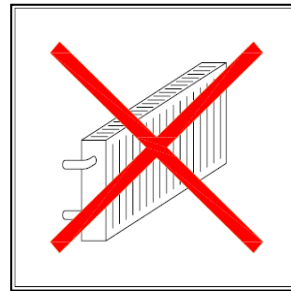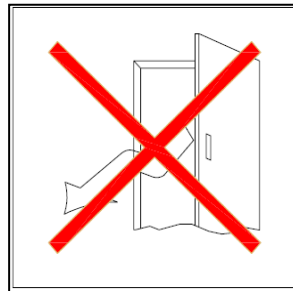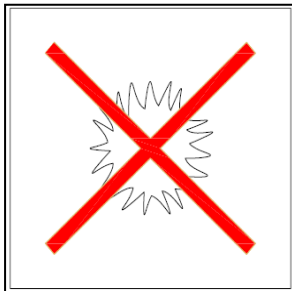
6. Care and Cleaning

Long life and satisfactory performance of any equipment is dependent upon the care it receives. To ensure long life, proper sanitation and minimum maintenance costs, these display Cases should thoroughly cleaned, all debris removed and the interiors washed down, weekly.

⚠ **WARNING**

SHUT FANS OFF DURING CLEANING PROCESS.

Fan Plenum
To facilitate cleaning, the fan plenum is hinged and also fastened with screws at each end. After cleaning be sure the plenum is properly lowered into position and that screws are reinstalled or product loss will result due to improper refrigeration.

Exterior Surfaces
The exterior surfaces should clean with a mild detergent and warm water to protect and maintain their attractive finish. Never use abrasive cleaners or scouring pads.

Interior Surfaces
The interior surfaces may cleaned with most domestic detergents, ammonia based cleaners and sanitizing solutions with no harm to the surface.

DO NOT USE:
Abrasive cleansers and scouring pads, as these will mar the finish. Solvent, oil or acidic based cleaners on any interior surfaces.

⚠ **WARNING**

Do not use hot water on cold glass surfaces. This can cause the glass to shatter and could result in personal injury. Allow glass fronts, ends and service doors to warm before applying hot water.
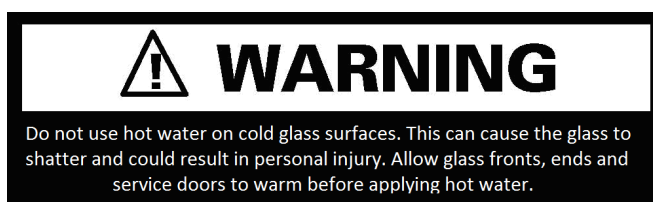
DO:
Remove the product and all loose debris to avoid clogging the waste outlet. Store product is in a refrigerated area such as a freezer. Remove only as much product as can be taken to the freezer in a timely manner.

First turn off refrigeration, and then disconnect electrical power.

Thoroughly clean all surfaces with soap and hot water. Do not use steam or high water pressure hoses to wash the interior. This will destroy the display cases sealing causing leaks and poor performance.

Remove screws and lift fan plenum for cleaning. Be sure to reposition the fan plenum after cleaning display cases.

Take care to minimize direct contact between fan motors and cleaning or rinse water. Rinse with hot water, but do not flood. Never introduce water faster than the waste outlet can remove it.

Allow display cases to dry before resuming operation.

After cleaning completed, turn on power and refrigerant to the Display Case. Verify that display case is working properly.

7. Electricity Connection

Details below must be examined while making the electrical connections.

⚠ **WARNING**

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 device. Users must know where the key is kept in case of an emergency.
- Electric systems must be grounded.
- Maximum voltage difference must be guarantied 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 device 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. (+25°C;R.H. 60%)
- The personnel who will interfere to the device must have electricity certificate.

8. Recycle Parts

All countries are disposing of waste according to EU laws and norms. Current Recycle Parts on the case;
Painted Metals: Pillars, shelves, legs, back panel, base tray, ceiling.
Cupper-Aluminium: Condanser, evaporator and electrical parts.
Galvanised Steels: Bottom panels, painted panels, basic parts, base tray.
Polyurethane: Thermal injection.
Thermopane: Glass parts.
PVC: Handrails.
Polystyrene: Thermoform side endwalls.
Polycarbon: Lighting cover.

9. Loading Goods

Cabinet loading important rules that should be followed.

- Locate the goods to the shelves tidy.
- The overall load does not exceed the capacity of the shelves (160 kg/ m²).
- Shelves can be adjusted at different angles according to the device type (0°, 10°, 20°).
- To install packages in the closet, set max and do not leave blank space.
- Between the top shelf loaded with goods leave the 30mm gap.
- Ensure consumption of the substance and accordingly load.
- Except for the closet shelf and the base tray, do not install any goods.
- Do not obstruct the flow of refrigerated air.
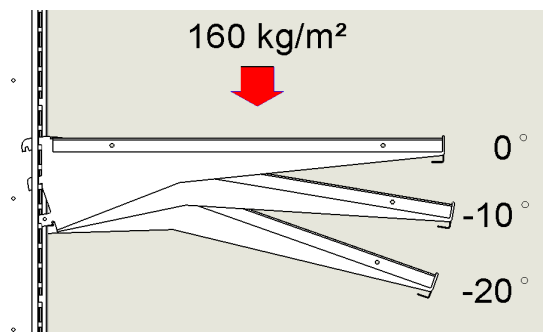
10. Technical Details

	TECHNICAL DATA SHEET - SOLI 1100 Sushi Cabinet	

TECHNICAL DETAILS	1875 mm	2500 mm

Refrigeration Load		
Temp Class (prEN ISO 23953-2)	3M0	
Case Temp (ºC)	-1/+4	
Evap Temp (ºC)	-10	
Duty (kW)	2,04	2,66
Expansion Valve (R744 - 65 bar)	AKVH 10-2	AKVH 10-3
Pipe Size - Suction	3/8"	3/8"
Pipe Size - Liquid	3/8"	3/8"
Expansion Valve (R404)	AKV 10-3	AKV 10-4
Pipe Size - Suction	5/8"	5/8"
Pipe Size - Liquid	3/8"	3/8"
Pipe Size - Drain	28 mm	
Cubic Capacity (dm^3)		
Display Area (m^2)		

Defrost Details		
Defrost Type	Air	Air
Duration (minutes)	45 min x 6	45 min x 6
Termination	Temp	Temp

Heaters				
Evaporator (Coil)	-	-	-	-
	-	-	-	-
Frame (Schott Termofrost)	-	-	-	-
Doors (Schott Termofrost)	-	-	-	-
Front Glass	-	-	-	-
Side Glass	-	-	-	-
End Walls	-	-	-	-
Body	-	-	-	-
Water Drain	-	-	-	-
Air Return	-	-	-	-

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Air Intake	–	–	–	–

Electrical / Fans		
Supply	230 V / 50 Hz	
Exp. Valve Coil (Danfoss 018F6802)	12 W	
Lighting LED Nualight Alto 520 4000K	56 W	84 W
Evaporator Fans ELCO ECM HC 12-10-2	800 rpm – 200 mm /A 22°	
	4,5 W x 3	4,5 W x 4

Design Conditions					
Temp (ºC)	25	**Humidity (%)**	60	**Cross Draft Air Speed (m/s)**	0,2

Air Flow Info	
Air Speed on honeycomb	0.9 m/s at ambient conditions

	TECHNICAL DOCUMENTATION	CHAPTER REVISION STATUS					
		ORD.	DATE	CHANGE ORDER	ORD.	DATE	CHANGE ORDER
PRODUCT	Soli 1100	A			D		
DATE of 1st ISSUE	22.12.2014	B			E		
ORDER	ULAS GÜDÜCÜ	C			F		
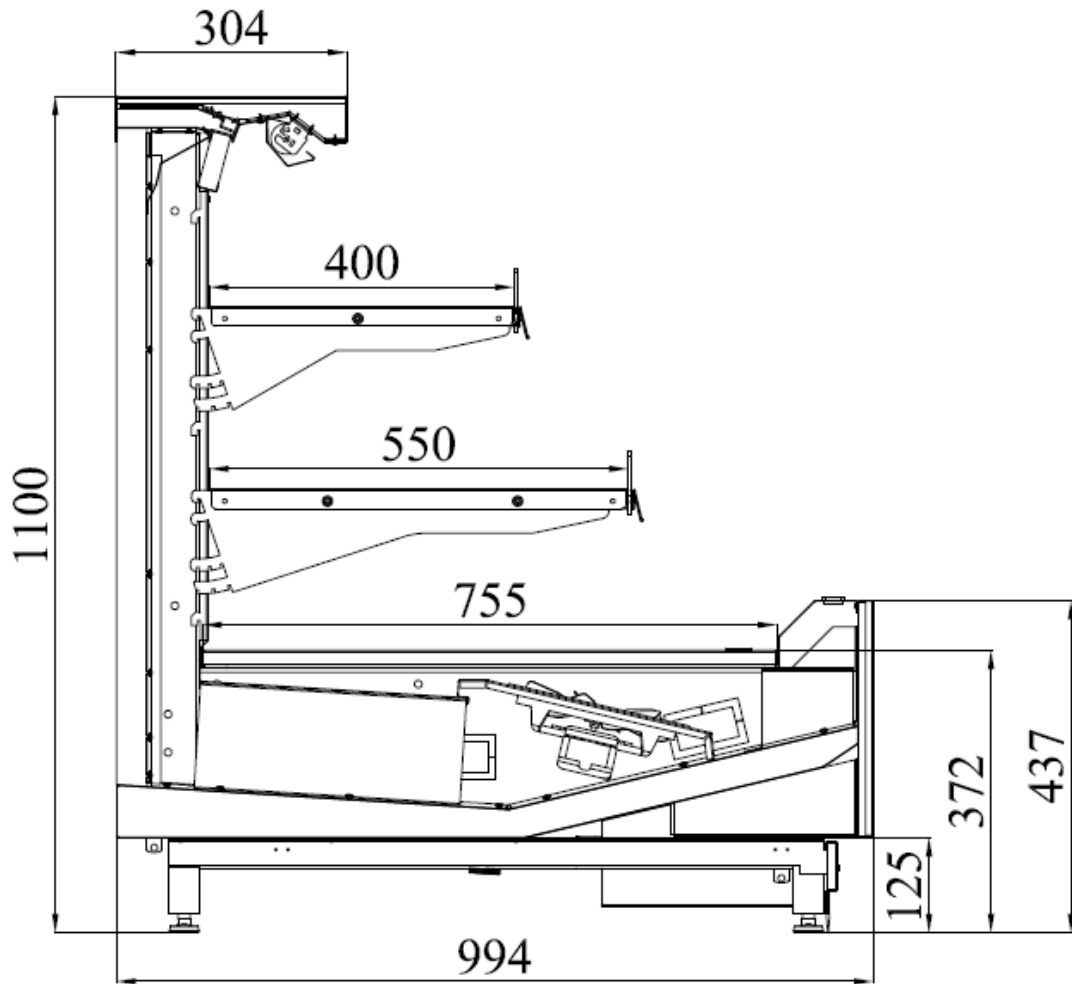
SOLI 1100
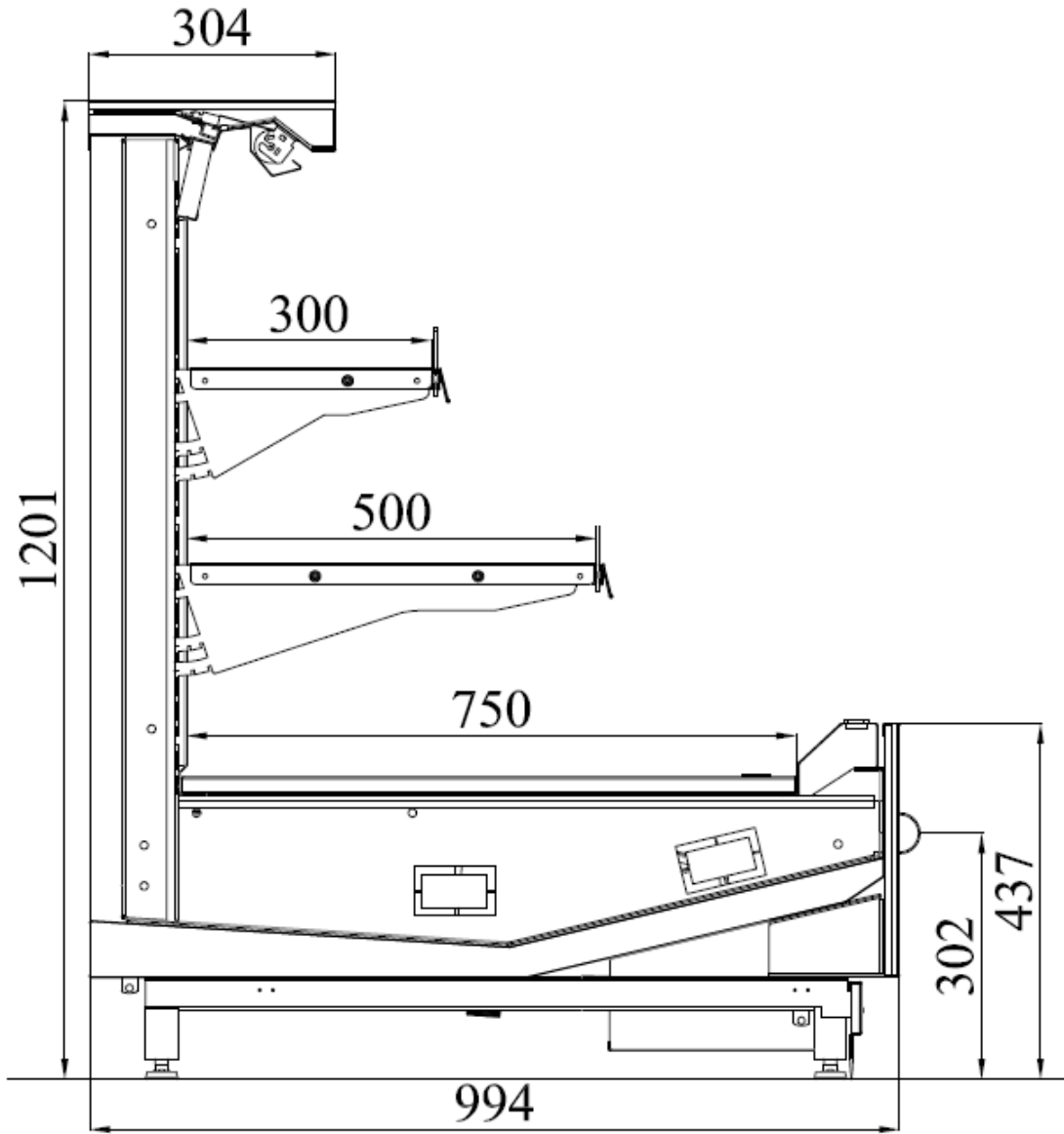
SOLI 1200
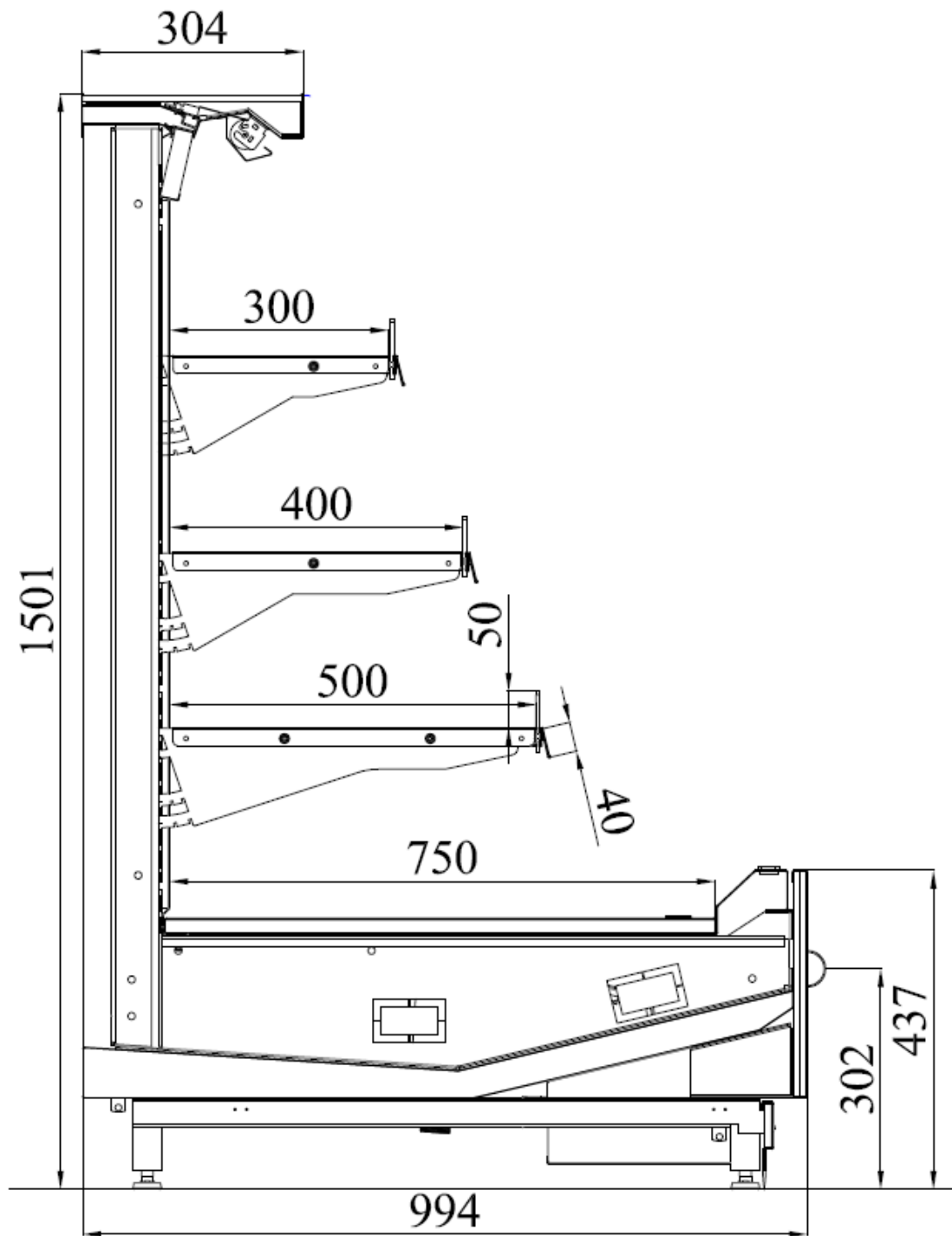
SOLI 1500

NO	CODE	NAME	SOLI SPARE PARTS LIST									UNIT
			SOLI 1100			SOLI 1200			SOLI 1500			
			1875	2500	3750	1875	2500	3750	1875	2500	3750	
1	49402081	SOLI ON EMIS SACI 1250 MM SAG BOYALI		1	1		1	1		1	1	PCS
	49402082	SOLI ON EMIS SACI 1250 MM SOL BOYALI		1	2		1	2		1	2	PCS
	49401081	SOLI ON EMIS SACI 937 MM SAG BOYALI	1			1			1			PCS
	49401082	SOLI ON EMIS SACI 937 MM SOL BOYALI	1			1			1			PCS
2	49403050	SOLI ON DEKOR MDF'SI 1875 MM	1			1			1			PCS
	49404050	SOLI ON DEKOR MDF'SI 2500 MM		1			1			1		PCS
	49406050	SOLI ON DEKOR MDF'SI 3750 MM			1			1			1	PCS
3	49403002	SOLI ON DEKOR SACI 1875 MM BOYALI	1			1			1			PCS
	49404002	SOLI ON DEKOR SACI 2500 MM BOYALI		1			1			1		PCS
	49406002	SOLI ON DEKOR SACI 3750 MM BOYALI			1			1			1	PCS
4	48103053	MDM03 BAZA SACI 1875 MM BOYALI	1			1			1			PCS
	48104053	MDM03 BAZA SACI 2500 MM BOYALI		1			1			1		PCS
	48106053	MDM03 BAZA SACI 3750 MM BOYALI			1			1			1	PCS
5	10410203	BAZA LASTIGI YENI TIP 2550 mm. - (R07 SIYAH) (60008)		1			1			1		PCS
	10410202	BAZA LASTIGI YENI TIP 3800 mm. - (R07 SIYAH) (60008)	0,5		1	0,5		1	0,5		1	PCS
6	38703003	FM 130 FAN SACI 1875 MM	1			1			1			PCS
	38704003	FM 130 FAN SACI 2500 MM		1			1			1		PCS
	38706003	FM 130 FAN SACI 3750 MM			1			1			1	PCS
7	20830033	ENERGY SAVING FAN ECM HC 12-10 (EFA12100VC0421N) 2	3	4	6	3	4	6	3	4	6	PCS
7.1	20850102	FAN MONTAJ CEMBER TERMOPLASTIK 200	3	4	6	3	4	6	3	4	6	PCS
7.2	20840102	FAN KANAT EMIS 200-22	3	4	6	3	4	6	3	4	6	PCS
7.3	20860016	SPG FAN MUHAFAZA TELI Ø 200 SIYAH	3	4	6	3	4	6	3	4	6	PCS
8	39403051	SOLI EVAPORATOR ORTME SACI 1875 MM	1			1			1			PCS
	39404051	SOLI EVAPORATOR ORTME SACI 2500 MM		1			1			1		PCS
	39406051	SOLI EVAPORATOR ORTME SACI 3750 MM			1			1			1	PCS

#	Code	Description										Unit
9	49401056	SOLI TAVA 755*468 MM BOYALI	4			4			4			PCS
	49402056	SOLI TAVA 755*625 MM BOYALI		4	6		4	6		4	6	PCS
10	23700225	TAVA TAPASI - GRI	4	4	6	4	4	6	4	4	6	PCS
11	24019908	CIVATA AYAK M16*90 (LASTIKLI)	6	6	8	6	6	8	6	6	8	PCS
12	49401015	SOLI 1100 ARKA TEL SAG 937 MM BOYALI	1									PCS
	49401017	SOLI 1100 ARKA TEL SOL 937 MM BOYALI	1									PCS
	49402015	SOLI 1100 ARKA TEL SAG 1250 MM BOYALI		1	1							PCS
	49402016	SOLI 1100 ARKA TEL ORTA 1250 MM BOYALI			1							PCS
	49402017	SOLI 1100 ARKA TEL SOL 1250 MM BOYALI		1	1							PCS
	49601015	SOLI 1200 ARKA TEL SAG 937 MM BOYALI				1						PCS
	49601017	SOLI 1200 ARKA TEL SOL 937 MM BOYALI				1						PCS
	49602015	SOLI 1200 ARKA TEL SAG 1250 MM BOYALI					1	1				PCS
	49602016	SOLI 1200 ARKA TEL ORTA 1250 MM BOYALI						1				PCS
	49602017	SOLI 1200 ARKA TEL SOL 1250 MM BOYALI					1	1				PCS
	49701015	SOLI 1500 ARKA TEL SAG 937 MM BOYALI							1			PCS
	49701017	SOLI 1500 ARKA TEL SOL 937 MM BOYALI							1			PCS
	49702015	SOLI 1500 ARKA TEL SAG 1250 MM BOYALI								1	1	PCS
	49702016	SOLI 1500 ARKA TEL ORTA 1250 MM BOYALI									1	PCS
	49702017	SOLI 1500 ARKA TEL SOL 1250 MM BOYALI								1	1	PCS
13	49403005	SOLI UST KAPAMA SACI 1875 MM BOYALI	1			1			1			PCS
	49404005	SOLI UST KAPAMA SACI 2500 MM BOYALI		1			1			1		PCS
	49406005	SOLI UST KAPAMA SACI 3750 MM BOYALI			1			1			1	PCS
14	49401021	SOLI DEFLEKTOR SACI 937 MM BOYALI	2			2			2			PCS
	49402021	SOLI DEFLEKTOR SACI 1250 MM BOYALI		2	3		2	3		2	3	PCS
15	21070433	SUTLUK PERDE FRENLI - KULPLU (DELIKSIZ)	2			2			2			PCS
	21070434	SUTLUK PERDE FRENLI - KULPLU (DELIKSIZ)		2	3		2	3		2	3	PCS

16	49403025	SOLI 1100 PERDE ORTME SACI 1875 MM BOYALI	1			1			1			PCS
	49404025	SOLI 1100 PERDE ORTME SACI 2500 MM BOYALI		1			1			1		PCS
	49406025	SOLI 1100 PERDE ORTME SACI 3750 MM BOYALI			1			1			1	PCS
17	48701054	FM-130 ARI PETEGI ALT SACI 937MM BOYALI	2			2			2			PCS
	48702054	FM-130 ARI PETEGI ALT SACI 1250MM BOYALI		2	3		2	3		2	3	PCS
18	21030203	ARI PETEGI 1000*95*25 mm GRI - D:3 mm	2			2			2			PCS
	21030205	ARI PETEGI 1250*95*25 mm GRI - D:3 mm		2	3		2	3		2	3	PCS
19	40003096	FM-130 RAF KOLU 300MM BOYALI										PCS
	40003097	FM-130 RAF KOLU 400MM BOYALI										PCS
	40003098	FM-130 RAF KOLU 500MM BOYALI										PCS
20	40001096	FM-130 RAF 300MM 937MM BOYALI										PCS
	40001097	FM-130 RAF 400MM 937MM BOYALI										PCS
	40001098	FM-130 RAF 500MM 937MM BOYALI										PCS
	40002096	FM-130 RAF 300MM 1250MM BOYALI										PCS
	40002097	FM-130 RAF 400MM 1250MM BOYALI										PCS
	40002098	FM-130 RAF 500MM 1250MM BOYALI										PCS
21	22340205	ALTO 500 SILVER 927 mm. 4000 K. (L-BRK+CABLE) 21 W. -	4			4			4			PCS
	22340203	ALTO 520 SILVER 1240 mm. 4000 K. (L-BRK+CABLE) 26W. -		4	6		4	6		4	6	PCS
22	23640802	TD 2012 RAF SIPERLIGI 937 mm.	4			4			4			PCS
	23640170	TD 2012 RAF SIPERLIGI 1250mm.		4	6		4	6		4	6	PCS
23	10410154	RAF ETIKETLIGI (AGEAN-WDM) 937 mm. - R01 BEYAZ (52045)	4			4			4			PCS
	10410152	RAF ETIKETLIGI (WDM-AGEAN) 1250 mm. - R01 BEYAZ (52045)		4	6		4	6		4	6	PCS
24	23620462	SOLI 1100 YAN CAM SECURIT (FOR AHOLD)	2	2	2							PCS
	23620491	SOLI 1200 YAN CAM SECURIT (FOR AHOLD)				2	2	2				PCS
	23610497	SOLI 1500 YAN CAM SECURIT (FOR AHOLD)							2	2	2	PCS

25	49400288	SOLI 1100 CAMLI YAN SAG POLIURETANLI	1	1	1							PCS
	49400289	SOLI 1100 CAMLI YAN SOL POLIURETANLI	1	1	1							PCS
	49600288	SOLI 1200 CAMLI YAN SAG POLIURETANLI				1	1	1				PCS
	49600289	SOLI 1200 CAMLI YAN SOL POLIURETANLI				1	1	1				PCS
	49700288	SOLI 1500 CAMLI YAN SAG POLIURETANLI							1	1	1	PCS
	49700289	SOLI 1500 CAMLI YAN SOL POLIURETANLI							1	1	1	PCS
26	49400005	SOLI 1100 CAMLI YAN CAM KILIF SACI BOYALI	1	1	1							PCS
	49600005	SOLI 1200 CAMLI YAN CAM KILIF SACI BOYALI				1	1	1				PCS
	49700005	SOLI 1500 CAMLI YAN CAM KILIF SACI BOYALI							1	1	1	PCS
27	23610604	MARKET UST CAM DIK RODAJLI KRISTAL (937x170x8 mm.)	2			2			2			PCS
	23610603	MARKET UST CAM DIK RODAJLI KRISTAL (1250x170x8 mm.)		2	3		2	3		2	3	PCS
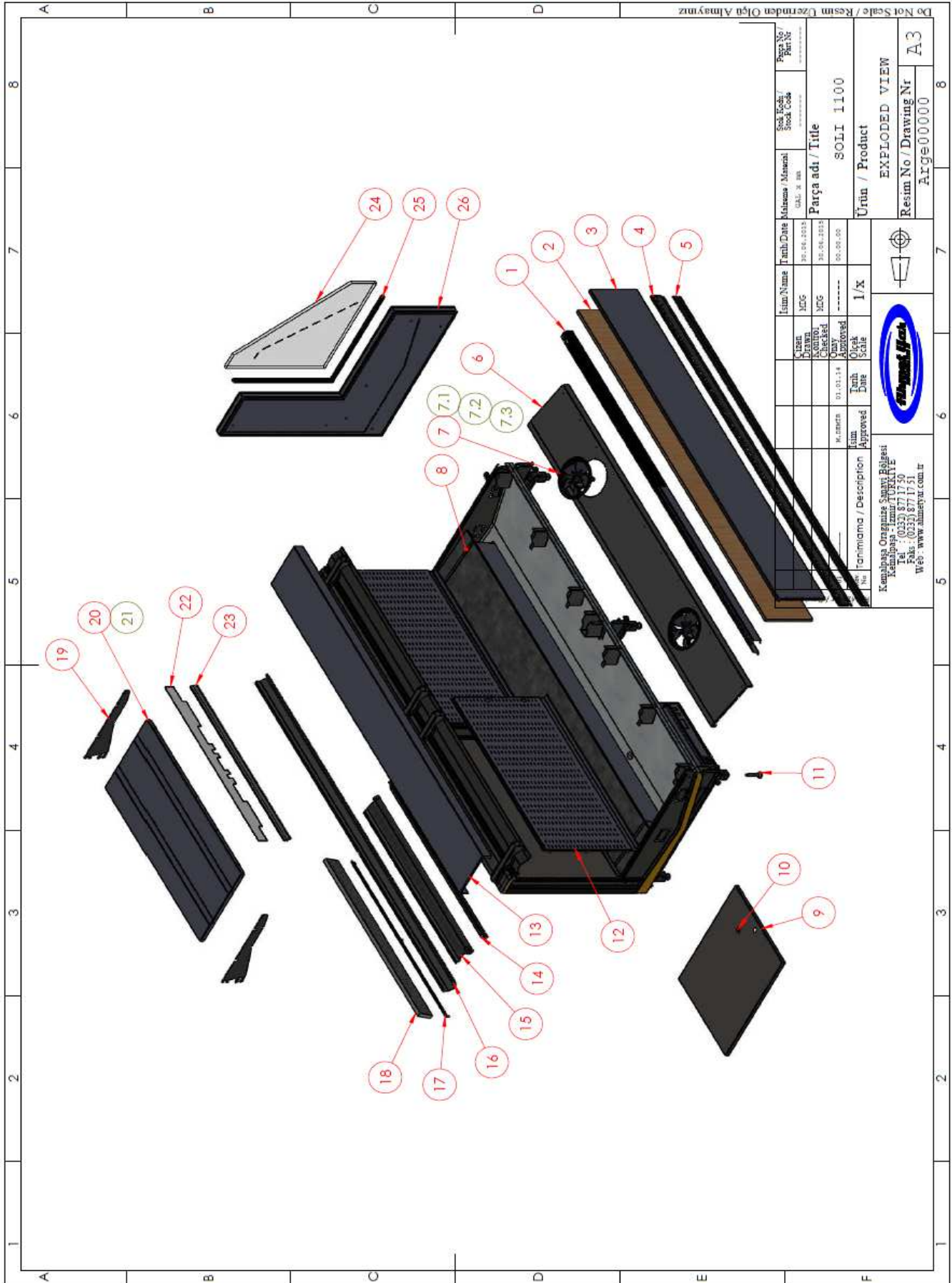
EXPLODED VIEW

Parça adı / Title: SOLI 1100

Ürün / Product

Resim No / Drawing Nr: Arge000000

A3

Kemalpaşa Organize Sanayi Bölgesi
Kemalpaşa - İzmir /TÜRKİYE
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Web : www.ahmetyar.com.tr

		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 0= Blow probe 100= Suction probe	100	100	100	50	50	50
/5		ºC or ºF selection 0=°C, 1=°F	0	0	0	0	0	0
/6		Decimal 0=active, 1= inactive	1	1	1	1	1	1
rHS		Virtual probe regulation rate to calculate glass temperature 0= Blow probe 100= Suction probe	20	20	20	20	20	20
/t		Are signals and alarms viewed in non-button terminal? 0= inactive 1= active	0	0	0	0	0	0
/t1	probe to be viewed in button terminal 0 = Terminal inactive 1 = Probe 1 2 = Probe 2 3 = Probe 3 4 = Probe 4 5 = Probe 5 6 = Probe 6 7 = Probe 7	8 =Serial probe 8 9 =Serial probe 9 10 =Serial probe 10 11 =Serial probe 11 12 = Control probe 13 = Virtual probe 14 = Set point	12	12	12	12	12	12
/t2	probe to be viewed in non-button terminal 0 = Terminal inactive 1 = Probe 1 2 = Probe 2 3 = Probe 3 4 = Probe 4 5 = Probe 5 6 = Probe 6 7 = Probe 7	8 =Serial probe 8 9 =Serial probe 9 10 =Serial probe 10 11 =Serial probe 11 12 = Control probe 13 = Virtual probe 14 = Set point	12	12	12	12	12	12

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

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

		CAREL PARAMETERS	ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
CtL (Control)								
OFF	ON/OFF control unit on-off		0	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 holds for 15 minutes and works again. 0 = Compressor/valve always OFF; 100 = compressor/valve always ON	0	0	0	0	0	0
cc	Continuous cycle time	1	1	1	1	1	1
c6	Post-continuous cycle alarm by-pass	60	60	60	60	60	60
c7	Maximum pump down time	0	0	0	0	0	0
Def (defrost)							
d0	Defrost type 0 =temperature-based heater 1 = temperature-based hot gas 2 = temperature-based heater 3 = time-based hot gas 4 =time and temperature-based heater defrost 5 =temperature-based heater multiplied hotgas bypass 6 =time-based heater multiplied hotgas bypass	4	0	0	0	0	0
d2	Defrost-end synchronization by Master 0 = unsynchronous; 1 = synchronous	1	1	1	1	1	1
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 = No initial defrost ; 1 = inital defrost (Master = network defrost; Slave = local defrost)	0	0	0	0	0	0
d5	Defrost time delay at the beginning if d4=1 0 = delay inactive	0	0	0	0	0	0
d6	Terminal indicator status during defrost 0 = Real temperature value and "dEF" flashes 1 = pre-defrost last temperature remains on the screen 2 = 'dEF' is viewed	2	2	2	2	2	2
dd	Post-Defrost drip time 0= No drip	2	2	2	2	2	2

	CAREL PARAMETERS		ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
d7	defrost by-pass		0	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
	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 sıcaklıkğı (Syt)						
	7 =SH pressure transmitter temperature equivalence (tEu)	14 = çiğlenme noktası (SdP)						
AA2	Determination of temperature probe for AH2 and AL2 alarms control AA parameter		5	5	5	5	5	5
A0	Low and high temperature alarm difference		2.0	2.0	2.0	2.0	2.0	2.0
A1	Threshold type for AL and AH 1. Alarm delays		0	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
	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	4
AH	High temperature 1. alarm threshold		5	5	5	5	5	5
AL2	Low temperature 2. alarm threshold		0	0	0	0	0	0
AH2	High Temperature 2. alarm threshold		0	0	0	0	0	0
Ad	Low and high temperature alarm alarm delay		15	15	15	15	15	15
A4	ID1 digital input configuration in S4 input		0	0	0	0	0	0
	0 = input is not active	5 = kapı switci konfigürasyonu kompresör ve fanlar OFF						
	1 = momentary external alarm	6 = uzaktan ON/OFF						
	2 = delayed external alarm	7 = perde switchi						
	3 = defrost activation	8 = sürekli çevrim başlama / durma						
	4 = defrost starting	9 = ışık sensörü						

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

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

	CAREL PARAMETERS		ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
PH	Gas type		3	3	3	3	3	3
	1 = R22	8 = R600						
	2 = R134a	9 = R600a						
	3 = R404A	10 = R717						
	4 = R407C	11 = R744						
	5 = R410A	12 = R728						
	6 = R507A	13 = R1270						
	7 = R290	14 = R417A						
OSH	Superheat offset for modulation thermostate		0.0	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
PMP	Electronic expansion valve manual operation activation 0 = inactive 1 = active		0	0	0	0	0	0
PMu	Manual valve position		-	-	-	-	-	-
Phc	Large capacity valve activation		0	0	0	0	0	0
Cnf (Configuration)								
In	MPXPRO Unit type 0 = Slave 1 = Master		1	1	1	1	1	1
Sn	Number of slave in local network 0 = No Slave		0	0	0	0	0	0
H0	Supervisor and Master-Slave network adrdess		199	199	199	199	199	199
H1	AUX1 output configuration 0 = no function 1 = alarm without energy normally 2 = energy alarm normally 3 = auxiliary output 4 = auxiliary output shared by Master with slaves 5 = Light output 6 = auxiliary output shared by Master with slaves	7 = second Evaporator defrost output 8 = Evaporator Fan output 9 = Glass heater output 10 = Suction valve 11 = Compensation valve 12 = Solenoid valve	8	8	8	8	8	8
H2	Button set and remote control deactivation 1 = Button set and remote control is active		1	1	1	1	1	1
H3	Remote control activation code 0 =no remote control activation code		0	0	0	0	0	0
H4	Buzzer activation 0 = active; 1 = inactive		0	0	0	0	0	0
H5	Please see AUX2 output configuration H1 parameter		7	2	2	2	2	2
H6	Terminal button set locking configuration		0	0	0	0	0	0
H7	Please see AUX3 output configuration H1 parameter		5	5	5	5	5	5
H8	Output association with time bands 0 = Light 1 = AUX		0	0	0	0	0	0

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

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

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

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

	DANFOSS PARAMETERS	ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
A26	S6 alarm time delay	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=not active, 1=monitoring only 2=skip allowed day 3=skip allowed both day and night 4=own assessment + all schedules		0	0	0	0	0	0
d23	Time delay before opening of hot gas valve		0	0	0	0	0	0
d27	Rail heat during defrost 0=off 1=on 2=Pulsating		2	2	2	2	2	2
d40	Max. duration of -d- in display		30	30	30	30	30	30
Injection control function								
n09	Max. value of superheat reference		12	12	12	12	12	12
n10	Min. value of superheat reference		3	3	3	3	3	3
n11	MOP temperature. Off if MOP temp. = 15.0 °C		15	15	15	15	15	15
n13	Period time of AKV pulsation Only for trained personnel		6	6	6	6	6	6
Fan								
F04	Fan stop temperature (S5)		50	50	50	50	50	50
F05	Pulse operation on fans: 0=No pulse operation 1=At thermostat cuts out only 2= Only at thermostat cut outs during night operation		0	0	0	0	0	0
F06	Period time for fan pulsation (on-time + off-time)		5	5	5	5	5	5
F07	On-time in % of period time		100	100	100	100	100	100
Real time clock								
t01-t06	Six start times for defrost. Setting of hours. 0=OFF		0	0	0	0	0	0
t11-t16	Six start times for defrost. Setting of minutes. 0=OFF		0	0	0	0	0	0
t07	Clock - Setting of hours		REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME
t08	Clock - Setting of minute		REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME

		DANFOSS PARAMETERS		ISLAND FREEZER	WALL FREEZER	COMBI FREEZER	UPRIGHT FREEZER	COUNTER	MULTIDECK CABINET
t45		Clock - Setting of date		REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME
t46		Clock - Setting of month		REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME
t47		Clock - Setting of year		REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME	REAL TIME
Miscellaneous									
o01		Delay of output signals after start-up		5	5	5	5	5	5
o02		Input signal on DI1. Function:		0	0	0	0	0	0
		0=not used	7=thermostat band changeover (activate r21)						
		1=status on DI1	8=alarm function when closed						
		2=door function with alarm when open	9=alarm function when open						
		3=door alarm when open	10=Appliance cleaning (pulse signal)						
		4=defrost start (pulse-signal)	11=forced cooling at hot gas defrost						
		5=ext.main switch	12=night cover						
		6=night operation	15=case shut down						
o03		Network address		0	0	0	0	0	0
o04		On/Off switch (Service Pin message) IMPORTANT! o61 **must** be set prior to o04 (used at LON 485 and DANBUSS only)		Off	Off	Off	Off	Off	Off
o05		Access code 1 (all settings)		0	0	0	0	0	0
o06		Used sensor type 0=Pt1000 1=Ptc1000,		0	0	0	0	0	0
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: 1=R12 2=R22 3=R134a 4=R502 5=R717 6=R13 7=R13b1 8=R23 9=R500 10=R503 11=R11 12=R142b 13=User defined 14=R32		15=R227 16=R401A 17=R507 18=R402A 19=R404A 20=R407C 21=R407A 22=R407 23=R410A 24=R170 25=R290 26=R600 27=R600a 28=R744	29=R1270 30=R417A 31=R422A 32=R413A 33=R422D 34=R427A 35=R438A 36=R513A 37=R407F 38=R1234ze 39=R1234yf 40=R448A 41=R449A 42=R452A	19	19	19	19	19	19
o30	Refrigerant setting:				19	19	19	19	19	19
o37	Input signal on DI2. Function: (0=not used. 1=status on DI2. 2=door function with alarm when open. 3=door alarm when open. 4=defrost start (pulse-signal).		5=ext. main switch 6=night operation 7=thermostat band changeover (activate r21). 8=alarm function when closed. 9=alarm function when open.	10=Appliance cleaning (pulse signal). 11=forced cooling at hot gas defrost.). 12=night cover, 13=coordinated defrost). 15=case shut down	0	0	0	0	0	0
o38	Configuration of light function: 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.				1	1	1	1	1	1
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=no Appliance cleaning. 1=Fans only. 2=All output Off.				0	0	0	0	0	0
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=not used, 1=pulse control with timer function (o41 and o42), 2=pulse control with dew point function			0	0	0	0	0	0
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= Running (defrost allowed) 2= Stopped (defrost not allowed) 3= Running (defrost not allowed)			1	1	1	1	1	1
o92	1=defrost stop temperature, 2=S6 temperature, 3=S5_B temperature (application 9), 4=S3B (application 10)			1	1	1	1	1	1
o97	Display of temperature 1= u56 Air temperature 2= u36 product temperature			1	1	1	1	1	1
o98	Light and night blinds defined 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			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).						