



USER MANUAL NSC SERIES (R290 Refrigerant)



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1. Foreword

Dear valued customer,

Before using your device, read the instruction of use carefully. The instruction of use includes important information about setup, safety, usage and care of your device. Thus, you both protect yourself and prevent any damage to your device. Keep your instructions of use and hand in to the next owner.

Ahmet Yar products do not contain PCB, PCT, asbestos, formaldehyde, cadmium, similar hazardous substances and substances that harm to the user. Producing company does not take any responsibility for any damage that may occur in cases such as misuse of the device, installation faults, lack of periodic care, not using genuine parts, failure to comply with the given information, warnings and precautions.





2. Safe and beneficial use

Some statements and practices in this instruction of use can change depending on the type and the model of the device.



R290 REFRIGERANT WAS USED IN THIS DEVICE. R 290 REFRIGERANT IS FLAMMABLE AND EXPLOSIVE REFRIGERANT.



THIS DEVICE IS MANUFACTURED ACCORDING TO THE LEGAL SAFETY REGULATIONS.

MISUSAGE CAN DAMAGE PEOPLE AND THE DEVICE!

Attention should be paid to following rules below for a non-hazardous and a safe use.

- Before connecting the device to the electric wiring, compare the type tag data (voltage and frequency) to your data in the electric network. In order not to damage your device, these data have to match each other. When in doubt, call your electrician.
- The safety of your device can only be provided if a properly laid shielded wiring system (ground line) is connected. It is very important to follow this basic safety measure. When in doubt, have the electrical wiring examined by a specialist. Otherwise, the producing company is not responsible for any damage that may occur. (e.g., electrical shock)
- Montage, connection and repair works of the device must only be done by qualified personnel.
 Otherwise, the producing company cannot be held responsible for any possible dangers for the user.
- Do not use any splicing cables in the electrical connection of the device. Splicing cables cannot provide the necessary safety for your device.
- Do not keep explosive substance or substances that contain inflammable gases (e.g., spray boxes) in your device. May cause mixtures to explode.
- Do not operate electrical tools inside the device. There may be a sparkle. Risk of explosion!
- Do not use steam pressure cleaning tools while cleaning the device. Pressurized steam can leak to the electrolyte parts and can cause a short circuit.
- If you have any doubt about electrical connection, work or safety of the device, appeal for help.
- Do not remove any external protection cover unless specifically stated in this instruction of use. Otherwise, you can reach the life-threatening electrical parts.
- All work on electrical parts should be done by an authorized and qualified electrician or a person.
- Maximum load line must be taken into account when loading the goods into the device.
- Protective equipment should be used during cleaning and care of the device. (e.g., gloves)
- Do not allow children to play with the device.
- The device should not be used by people with physical (visual, audio) or mentally disabled, children and persons with lack of experience and knowledge, without the supervision of a person who responsible for their safety. Children should be supervised while using the device and make sure they do not play with the device.



3. Introduction

This guide has been prepared for NSC Series device. As a whole, there is information about how to use the device, technical specifications, installation and montage, of the device, information and suggestion for the users and cleaning and care operations.

NSC is a semivertical refrigerator. It's a plug and play cabinet. With its wide display area and loading capacity, it is suitable for normal to and larger stores. Food such as dairy & meat, fish products can be displayed in the cabinet. The cabinet has an off cycle defrost.

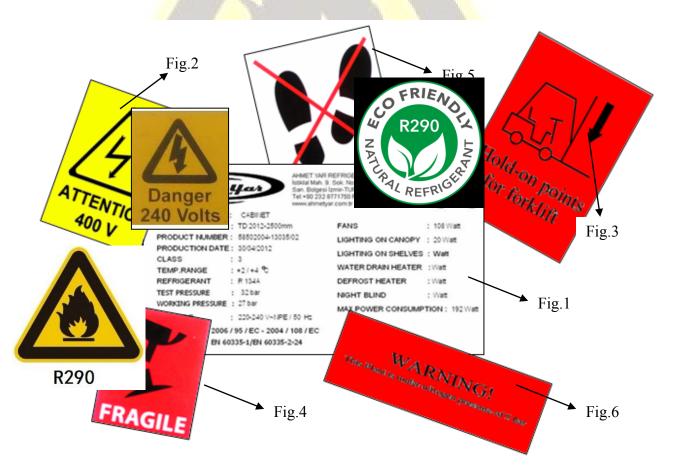




4. Warning and introduction labels that on the device

The labels on the device and what they about are written below. However, the labels can change according to the type and version of the device.

- Product's identification label (Image 1): Product's identification label is located in the cabin and includes device's technical information as follows: Producing company, logo and address information, certificate that belongs to the product and certificates of quality that belong to the producer, version of the device, serial number of the device, production date of the device, climate class, temperature range, the type of refrigerant used in the device, approved certificate of the device and directives that are suitable, test pressure, working pressure, working voltage values, the power of evaporator fan, lighting electric power, night curtain electric power, defrost resistors electric power, frame resistances electric power, glass resistances electric power, etc.
- High voltage label (Image 2): The high voltage label is located on the conduit box of the device.
- Transport label (Image 3): Pallets are attached to the cabinets for transportation. Transport by forklift or pallet can be done thanks to this pallet. There is a label on the device about the transport location. Transport: The aforementioned label should be placed in the middle of the forklift arms.
- Fragile Label (Image 4): This label is located on the product and points out that there is a risk of fracture. At this point, it should be treated lightly to prevent any damage that may occur.
- Non-Print Label (Image 5): It is located on the base of the device, on the pan.
- Pressure Label (Image 6): The pressure label is located at the exit point of the copper pipes. It is
 used in order to determine the amount of nitrogen.





5. Norms and certificates

Norms that used as reference and approved certificates of the device: IEC 60335-2-89(2019) / EN 60335-1

ENVIRONMENTAL CLIMATIC MEDIA (EN 23953)

This device has been tested for a climatic media 3.

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

Directives that the device complies with 2014/35/EC-2014/30/EC





6. Settlement and environmental conditions

Attention should be paid for placement listed below:

- Do not place your device in direct sunlight.
- Do not place your device in front of a door.
- Do not place your device close to any heat source.
- Do not place your device where it will be exposed to direct air flow such as a air conditioning or a ventilator.
- Do not place your device in open air.
- Do not place your device near the places with explosive gas.





7. Cleaning, maintenance and technical service



MAKE SURE THE CABIN'S MAIN SWITCH IS OFF OR NOT ELECTRICALLY CONNECTED BEFORE ANY MAINTENANCE AND CLEANING OPERATION!

Make sure that the package isn't damaged when it is purchased. Open the package without harming the device. Make sure that any parts of the device are undamaged and in place. Call the supplier company in case of any damage.

It is essential to clean and maintain your device periodically. The cleaning part of these is done by the user. These are cleaning the interior and exterior surfaces of the device. Before starting to clean your device, turn off the cooling and lighting switch, disconnect the electricity. Take the goods in the device and put them in a place that will not go off during cleaning.

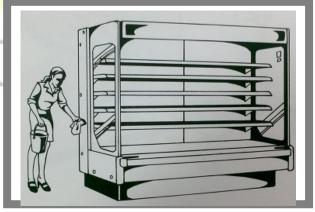


AS A CLEANING MATERIAL, DO NOT USE ABRASIVE AND SCRATCHING SUBSTANCES, ALCOHOL, SODA OR CHEMICAL SOLVENTS!

A. External cleaning (Daily / Weekly)

- Clean the exterior parts of the cupboard weekly with detergent and warm water.
- Do the cleaning with a soft cloth and clean water.
- Do not use abrasives, rubber cloth or solvents that will damage the exterior surface.
- Do not use water or detergent on electrical parts.
- Do not use alcohol to clean plexiglass parts

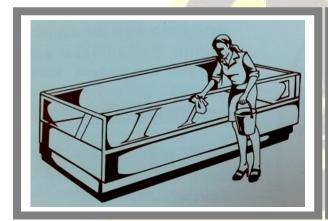






B. Internal cleaning (Monthly)

- Before the internal cleaning, wait for the interior surface of your device to react to ambient temperature.
- Remove all the parts that can be removed (e.g., pan, shelves, different wires, etc.), clean them with hygienic cleaners mixed with warm water and dry the parts carefully.
- While cleaning the pans, be careful not to let foreign substances and dirt fall into the parts where the fans are.
- Wipe the dirt in the evaporator section with a moist cloth after cleaning residual liquids and residues from the products.
- Disinfect the inside of the device so that the malodors caused by rotting and deterioration do not affect the products. When disinfecting, do not use substances that smell strongly and may cause acidification.
- If the water drain is not completely blocked, wash it with plenty of water without removing it. Repeat this process until you are sure that the water drain is cleaned.
- Call the authorized service in abnormal situations that seen on the device during or after cleaning.









DO NOT USE STEAM PRESSURE CLEANING TOOL. STEAM CAN SPREAD TO THE ELECTROLYTE PARTS OF THE DEVICE AND CAUSE SHORT CIRCULATION!



DO NOT USE HOT WATER ON COLD GLASS SURFACES. THIS CONDITION MAY CAUSE THE SHATTERING GLASS AND INJURY!

After cleaning, put the goods back into your device and make sure that the fans, ceiling lights, electrical cables and all other electrical equipment are dry. Turn on the lighting and cooling switch.

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C. Technical service

- Make sure that the ambient temperature and humidity are not apart from the values that are shown. Hence, make sure that the air conditioning, and heating devices are working in the store accurately.
- Make sure that the products do not contact to the direct sunlight.
- Isolate the glass of the market against sunlight.
- Do not point the spotlights directly on the device.
- Do not block the suction grilles in a way that prevents air intake.
- Use the device only for the storage of refrigerated products.
- Make sure the device cools down constantly. Check the fridge twice a day.
- Load the device in accordance with the loading line, do not exceed the upper limit.
- When the device fails, empty the products from the device immediately.
- When the screw falls out and the lamp lights up, replace it immediately.
- Check the automatic defrost periodically.
- Make sure there are no abnormal water condensations. If it comes to that, call the cooling technician immediately.
- Carry out periodic maintenance continuously.

Devices can break down despite all the cleaning and care. When you notice that the device doesn't work, go by instructions below:

- Is the cooling switch open?
- Is everything normal in the fuse box of the radiator assemblies?
- Is there energy?

If the above-mentioned questions' answers are YES, there is a problem with the radiator assemblies or installation. Let the technical service know immediately. Put your goods in your device into another place that will prevent them from deteriorating until the technical service arrives.

IN CASE OF GAS LEAK AND BURNING: Do not stand in the room if there is no air flow. Unplug the cooler. DO NOT USE WATER TO EXTINGUISH FIRE. ONLY USE A FIRE EXTINGUISHER.



IN CASE OF GAS LEAK AND BURNING: DO NOT STAND IN THE ROOM IF THERE IS NO AIR FLOW. UNPLUG THE COOLER. DO NOT USE WATER TO EXTINGUISH FIRE. ONLY USE A FIRE EXTINGUISHER.

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8. Power Connection



CHECK THE ELECTRICAL DIAGRAM ON THE PILOT BOX BEFORE MAKING THE ELECTRICAL CONNECTIONS AND MAKE THE CONNECTIONS ACCORDING TO THIS

When making the electrical connections, the following details should be examined.

- Automatic switch and main switch that protected against electric currents must be used in the
 device. The user must know the location of the easily accessible switch in case of emergency.
- The safety of your device can only be provided if a protected wiring system (ground cable) that was laid according to the rules is connected. It is very important to follow this basic safety measure. When in doubt, have the electrical wiring examine by a specialist.
- Maximum voltage change should be ±6%.
- The thickness of the cable in the energy line should be at least 2.5 mm² and it should be able to handle high current.
- The energy line cable should not be longer than 4-5m, if the cable length increases depending on the situation, the cable section should be increased.
- Do not use extension cable in the electrical connection of the device.
- Make sure that the temperature and humidity are in accordance with the reading in EN23953 and that the climate class is 3 (+ 25 ° C; R.H. 60%) for the cooler to work properly.
- All work related to the electrical connection of the device and other electrical parts should be made by an authorized and qualified person with an electrical certificate.



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9. Recycling

Each country separates the cabinet's parts according to waste disposal and environmental laws. Hence, each country provides recycling. The parts used in our products generally:

Painted sheet metals: Stiles, shelves, shelf handles, back panel, pans.

Copper-Aluminium: Condenser, evaporator, electrical parts.

Galvanized sheet metals: Bottom panels, painted panels, basic parts, pan.

Polyurethane: Thermal injection.

Thermopane: Glass pieces.

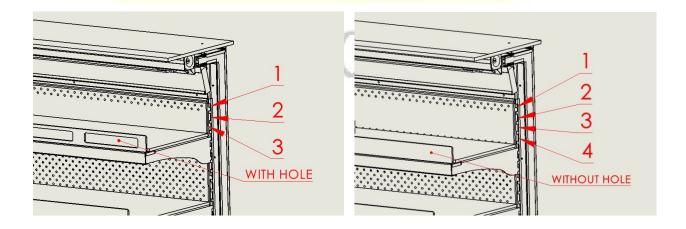
PVC: Handles

Polystyrene: Thermoform side walls. Polycarbonate: Lighting cover.

10. Loading the cooler

There is important information about the loading below:

- Place your products on the shelves neatly.
- Do not exceed the loading capacity on pans and shelves. (160 kg / m²)
- Do not leave space between products loaded on the same shelf in the devices with shelves.
- Leave a minimum of 30mm space for air circulation between the upper shelf and the product in the devices with shelves.
- Do the loading process in accordance with the product consumption rate.
- Do not load products anywhere other than shelves and pans.
- Do not load products that are not allowed to cool down on your device.
- Do not load in a way that prevents the cold air flow. (e.g., front suction zone)
- To achieve correct air flow, if dumper shelf shield is used, leave 3 gaps above to install the shelf and if full shelf shield is used leave 4 gap to install the shelf.

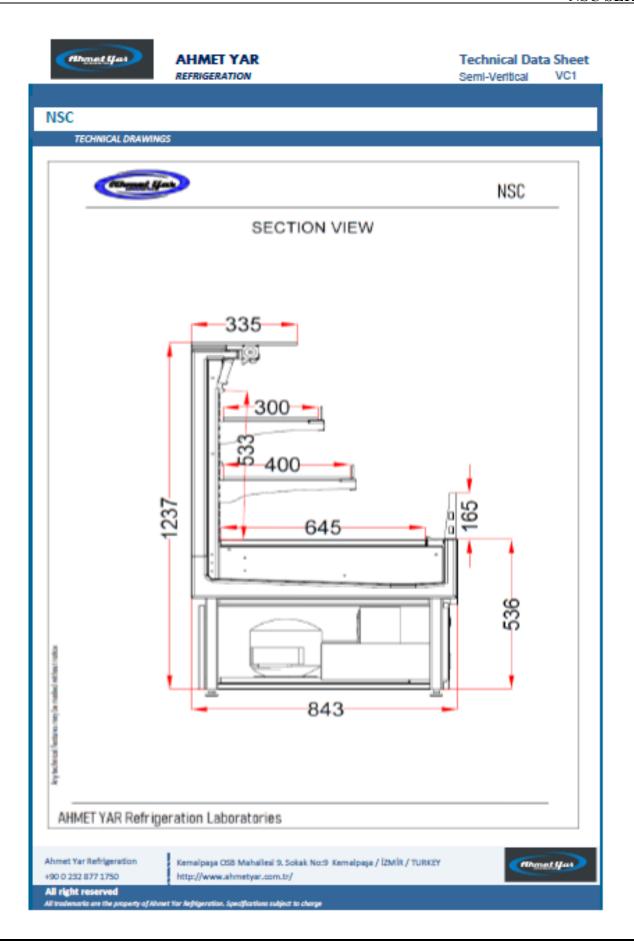




11. Technical Details

(met yar	AHME			Technical Data Sheet Semi-Veritical VC1
					Climate Class 3 25°C / 60% rH (EN ISO 23593-2)
NSC			R 290		
	MODUL.			_	1000
	AL DETAILS			Unit	
8 TC	DA .			m2	1,17
S Cr	ubic Capacity			dm3	0.24
Dimensions Di	splay Area			m2	0.5
	onsumption				
u	•	se -1°/+1°C			
	DEC*	ise -17/+17C		kW/day	14.4
	D/DC.			Kw/usy	14,4
Efficiency Though	nnual energy con	sumption		kWh/a	5249
Tholency Tholency		2011pcon		everily w	57.8
- E	 nergy Efficiency C	Taxoc			E
	Companents for I				
	tatic Valve				TD1-1
Refricers	int charge			gr	140
Compres					NT 6220 U
Electrical	Items				
Heates	im Hester			w	10
Postporestor Fam Fam	F2-8AXD11	1050 rpm	1000 / Each	w	20
\$ @ C		2000	2011 / 2001		
0 BI	ade				Compact
å E Ec	F2-BAXD11	1400 rpm		w	10
		1400 rpm		**	
O BI	ade				Compact
w los	snopy	Led		w	8.5
		Led		w	17
\$ U	nder Shelf	DCG!		**	17
w	ater Tray		400W/Each	w	800
Settings					
Cut Out -Cut InTemperatures -2/+1°C					
Se	election thermost	tat sensor			Air off
	Defrost Interval Time		Hour	4	
	lax. Defrost Dural			Min.	24
Defrost End Temperature		°C	6		
	in During Defrost				On
	ripping Time Min	ute		Min.	0
Air Flow					
Ai	r Off / Air Return	Speed			0.6 / 1.5 m/s at ambient conditions







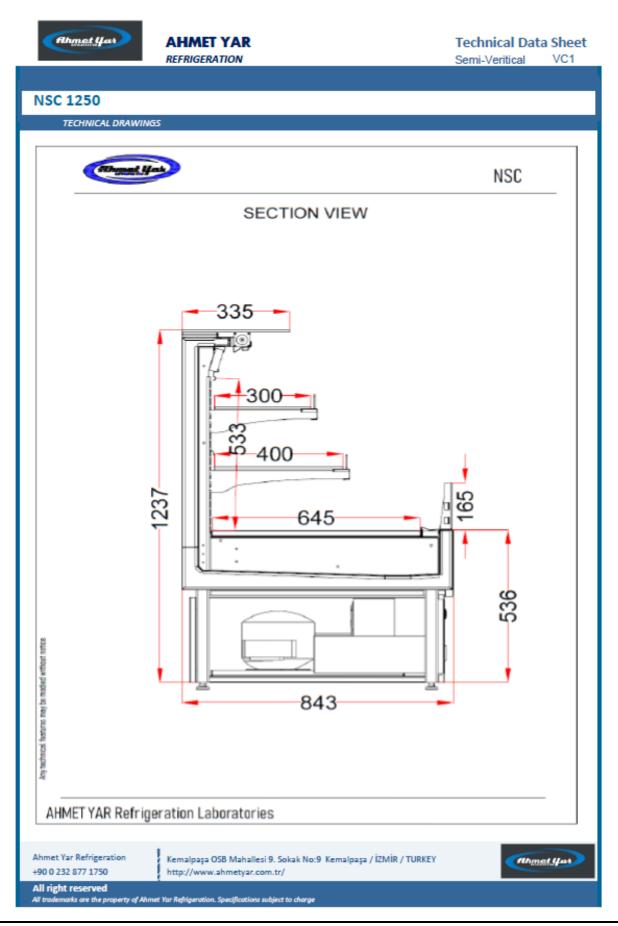


AHMET YAR REFRIGERATION

Technical Data Sheet Semi-Veritical VC1

	REFRIGERATION		Semi-ventical VC1
			Climate Class 3 25°C / 60% rH (EN ISO 23593-2)
NSC 1250	R 290		
MODUL			1250
TECHNICAL DETAILS		Unit	1230
		m2	1.46
Cubic Capacity Display Area		dm3	0,3
2 Display Area		m2	0,6
E Display Area		1112	0,0
Consumption			
	case -1°/+1°C		
DEC*		kW/day	26,6
		,,	
Annual energy co	nsumption	kWh/a	8632
e je eel	•	-	56,9
Energy Efficiency	Class		E
Cooling Companents for	R 290		
Thermostatic Valve			TD1-1
Refrigerant charge		gr	140
Compressor			NT 6220 U
Electrical Items			
Trim Heater		w	10
Trim Heater			
_			
ECF2-8AXD11			
를 듄 ECF2-8AXD11	1050 rpm 10W / Each	w	20
å Blade			Compact
8			
ECF2-8AXD11	1400 rpm	w	10
8 Blade			Compact
_			
Canopy Under Shelf	Led	w	8,5
Under Shelf	Led	w	17
3			
Luci -			
Water Tray	400W/Each	W	800
Settings	manatura -		07:190
Cut Out -Cut InTe Selection thermo	•		-2/+1°C Air off
Defrost Interval Time		Hour	Air off
Max. Defrost Duration Time		Min.	24
Defrost End Temperature		°C	6
Fan During Defrost			On
Dripping Time Mi		Min.	0 0
Air Flow Info	nuce	IVIIII.	
Air Plow IIII0	m Sneed		0,6 / 1,5 m/s at ambient conditions
All Oil / All Netur	ореси		o,o / 1,o m/s of ambient contamons











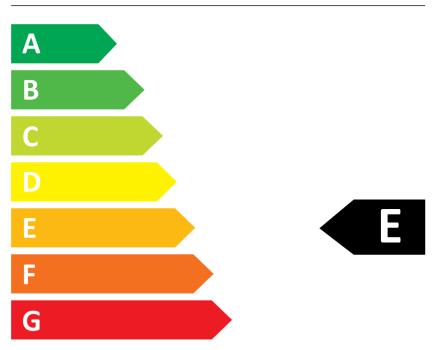
5269 kWh/annum







AHMET YAR NSC 1250











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PRODUCT : CABINET

MODEL : NSC 1000

PRODUCT NUMBER : 25602 PRODUCTION DATE : 05/05/2021

CLASS : 3

TEMP. RANGE : -1 / +1 °C

REFRIGERATION : R290

VOLTAGE : 220-230 V~NPE / 50 Hz

DIRECTIVE : 2014 / 35 / EC - 2014 / 30 / EC STANDARD : IEC 60335-2-89(2019) /EN 60335-1

TRIM HEATER : 10 Watt

COMPRESSOR MODEL : NT6220U

CONDANSER FAN : 10 Watt

EVAPORATOR FAN : 20 Watt

LIGHTING ON CANOPY : 8,5 Watt

LIGHTING UNDER SHELF : 17 Watt

WATER TRAY : 400 Watt*2

REFRIGERATION CHARGE : 140 gr







Filmet Yar		NSC SPARE PARTS LIST						
	CODE		P	CS				
NO		NAME	1000	1250	UNIT			
1	21403008	HONEYCOMB	1	1	PCS			
2	451201276	NSC FRONT DECOR SHEET 1000 MM PAINTED	1		PCS			
	451202276	NSC FRONT DECOR SHEET 1250 MM PAINTED		1	PCS			
3	451201247	NSC REAR WIRE 1000 MM PAINTED	1		PCS			
3	451202247	NSC REAR WIRE 1250 MM PAINTED		1	PCS			
4	451201237	NSC COMB HOLDER LOWER SHEET 1000 MM PAINTED	1		PCS			
4	451202237	NSC COMB HOLDER LOWER SHEET 1250 MM PAINTED		1	PCS			
5	451201238	NSC COMB HOLDER UPPER SHEET 1000 MM PAINTED	1		PCS			
5	451202238	NSC COMB HOLDER UPPER SHEET 1250 MM PAINTED		1	PCS			
6	23808609	NSC FRONT GLASS FASTENING SHEET RIGHT	1	1	PCS			
6	23808610	NSC FRON <mark>T G</mark> LASS FA <mark>STENING S</mark> HEET LE <mark>FT</mark>	1	1	PCS			
7	451201246	NSC PAN <mark>LA</mark> NDING SHEET 1000 MM PAINTED	1		PCS			
7	451202246	NSC PAN LANDING SHEET 1250 MM PAINTED		1	PCS			
	451201256	NSC FRONT SUCTION SHEET 1000 MM PAINTED	1		PCS			
8	451202256	NSC FRONT SUCTION SHEET 1250 MM PAINTED		1	PCS			
	451201245	NSC PAN 500 MM PAINTED	2		PCS			
9	451202245	NSC PAN 625 MM PAINTED		2	PCS			
11	21504001	NSC CURTAIN 932 MM	1		PCS			
11	21504002	NSC CURTAIN 1250 MM		1	PCS			
4.2	23205193	NSC FRONT GLASS 1000 MM	1		PCS			
12	23205255	NSC FRONT GLASS 1250 MM		1	PCS			
4.2	23205194	NSC UPPER GLASS 1000 MM	1		PCS			
13	23205256	NSC UPPER GLASS 1250 MM		1	PCS			
4.4	451201250	NSC FRONT BASE SHEET 1000 MM PAINTED	1		PCS			
14	451202250	NSC FRONT BASE SHEET 1250 MM PAINTED		1	PCS			
4.5	451200271	NSC SIDE BASE SHEET RIGHT	1	1	PCS			
15	451200272	NSC SIDE BASE SHEET LEFT	1	1	PCS			
16	451200248	NSC COVER SHEET PAINTED	1	1	PCS			
17	20503071	DIGITAL THERMOSTATE	1	1	PCS			
10	451201251	NSC UPPER GLASS FASTENING SHEET 1000 MM PAINTED	1		PCS			
18	451202251	NSC UPPER GLASS FASTENING SHEET 1250 MM PAINTED		1	PCS			
19	451201252	NSC CURTAIN HOLDING SHEET 1000 MM PAINTED	1		PCS			
	451202252	NSC CURTAIN HOLDING SHEET 1250 MM PAINTED		1	PCS			
20	351200214	NSC EVAPORATING DISH	1	1	PCS			
21	20101099	COMPRESSOR NT 6220 U	1	1	PCS			
22	24602047	NSC HC CONDENSER	1	1	PCS			
23	351201016	NSC COMPRESSOR FRAME SHEET	1	1	PCS			
24	451200273	NSC BASE LOWER HOLDING SHEET	1	1	PCS			





]]	22602057	CANOPY & SHELF LED 876 MM	3		PCS
25	22602069	CANOPY & SHELF LED 1176 MM		3	PCS
25.1	22602068	POWER PLUG	3	3	PCS
25.2	22602060	MAGNET BRACKET	6	6	PCS
25.3	22601033	LED DRIVER	1	1	PCS
26	451201243	NSC EVAP COVERING SHEET 1000 MM PAINTED	1		PCS
	451202243	NSC EVAP COVERING SHEET 1250 MM PAINTED		1	PCS
27	24601157	EVAPARATOR	1	1	PCS
20	451201261	NSC FAN SHEET 1000 MM PAINTED	1		PCS
28	451202261	NSC FAN SHEET 1250 MM PAINTED		1	PCS
28.1	21103024	FAN MOTOR ECF2-8AXD11	2	2	PCS
28.2	21107007	FAN GUARD	2	2	PCS
29.1	23808624	NSC SHELF ARM SHEET 300MM - RIGHT	1	1	PCS
29.2	23808625	NSC SHELF ARM SHEET 300MM - LEFT	1	1	PCS
29.3	23206071	NSC 1000 SHELF GLASS 300 MM	1		PCS
29.3	23206073	NSC 1250 SHELF GLASS 300 MM		1	PCS
29.4	23501051	NSC PLEX <mark>Y S</mark> HELF SHIELD WITH HOLE 1000 MM	1		PCS
29.4	23501057	NSC PLEXY SHELF SHIELD WITH HOLE 1250 MM		1	PCS
29.5	451201253	NSC SHIELD FRONT SHEET 1000 MM PAINTED	1		PCS
29.5	451202253	NSC SHIELD FRONT 1250 1000 MM PAINTED		1	PCS
29.6	451201239	UNDER SHELF LED FASTENING SHEE <mark>T 100</mark> 0 MM PAINTED	1		PCS
29.0	451202239	UNDER SHELF LED FASTENING SHEET 1250 MM PAINTED		1	PCS
30.1	23808626	NSC SHE <mark>LF ARM</mark> SHEET 400MM - RIGHT	1	1	PCS
30.2	23808627	NSC SHELF ARM SHEET 400MM - LEFT	1	1	PCS
20.2	232060 <mark>72</mark>	NSC 1000 SHELF GLASS 400 MM	1		PCS
30.3	2320 <mark>607</mark> 4	NSC 1250 SHELF GLASS 400 MM		1	PCS
20.4	23 <mark>501</mark> 051	NSC PLEXY SHELF SHIELD WITH HOLE 1000 MM	1		PCS
30.4	23 <mark>501</mark> 057	NSC PLEXY SHELF SHIELD WITH HOLE 1250 MM		1	PCS
20 E	4512 <mark>01253</mark>	NSC SHIELD FRONT SHEET 1000 MM PAINTED	1		PCS
30.5	451202253	NSC SHIELD FRONT 1250 1000 MM PAINTED		1	PCS
20.6	451201239	UNDER SHELF LED FASTENING SHEET 1000 MM PAINTED	1		PCS
30.6	451202239	UNDER SHELF LED FASTENING SHEET 1250 MM PAINTED		1	PCS
		11270			



