

COQ

Project:

VALZER KW Service Manual (short version)

VALZER KW

Service Manual



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1. AMOUNT OF REFRIGERANT IN THE EQUIPMENT

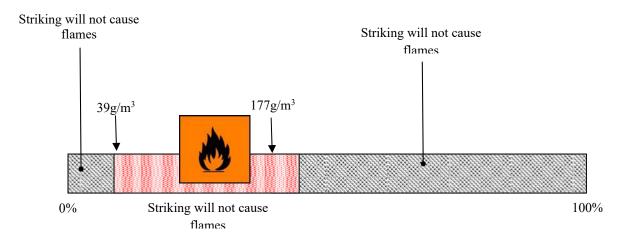
The most prominent feature of the VALZER KW versions is that they use a natural gas: propane (R290).

MODEL	AMOUNT OF PROPANE* [grams] / [Ounce]	
VALZER KW 2D	150 / 5,29	
VALZER KW 3D	150 + 150 / 5,29 + 5,29	
VALZER KW 4D	150 + 150 / 5,29 + 5,29	

^(*) The propane refrigerant R290 to be used must be technical-gas rated, with purity grade above 99,5%.

PROPANE IS HEAVIER THAN AIR, WHICH MEANS THAT IT WILL TEND TO CONCENTRATE NEAR THE FLOOR OF THE ROOM.

The flammability limit percentage (in a volume of air) is between 2,2% and 9,2% (at 25°C and 1bar). In mass terms:

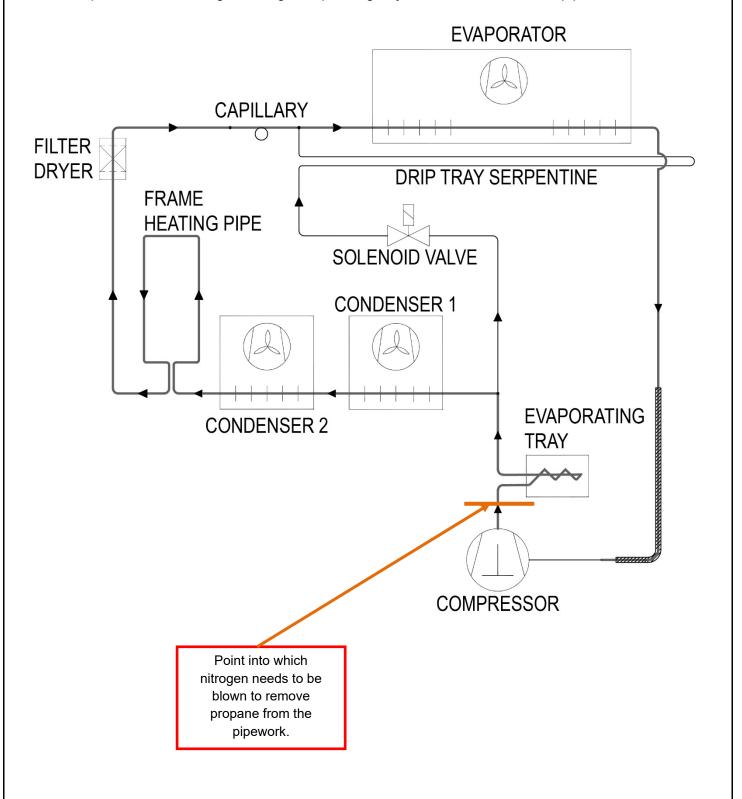


If the entire amount of refrigerant is released in the food compartment of VALZER KW, this would become a flammable zone.

2. REFRIGERATION SCHEMATICS FOR THE EQUIPMENT

2.1 REFRIGERATION DIAGRAM FOR THE COOLING CYCLE VALZER KW 2D

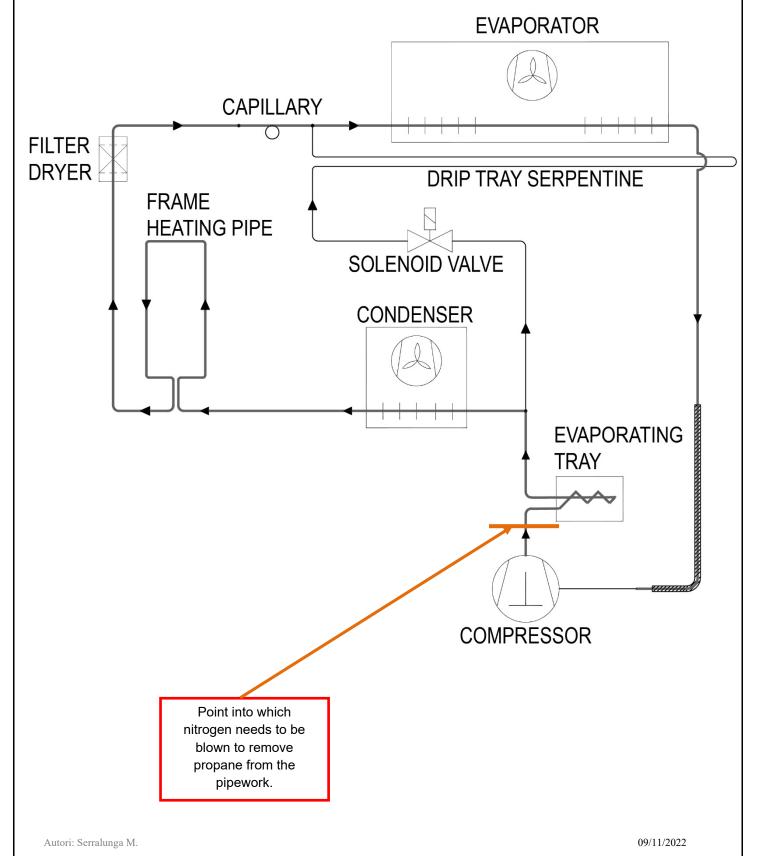
The compressor runs warm gas through evaporating tray, condensers and frame pipe.



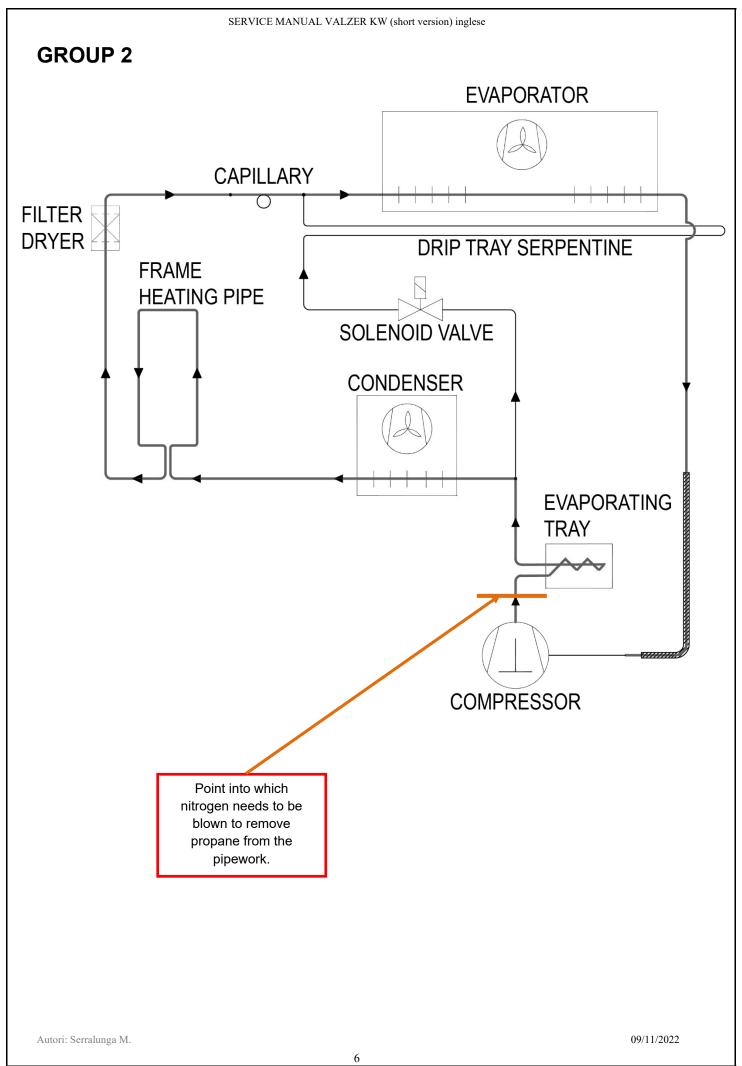
2.2 REFRIGERATION DIAGRAM FOR THE COOLING CYCLE VALZER KW 3D

The compressor runs warm gas through evaporating tray, condensers and frame pipe.

GROUP 1



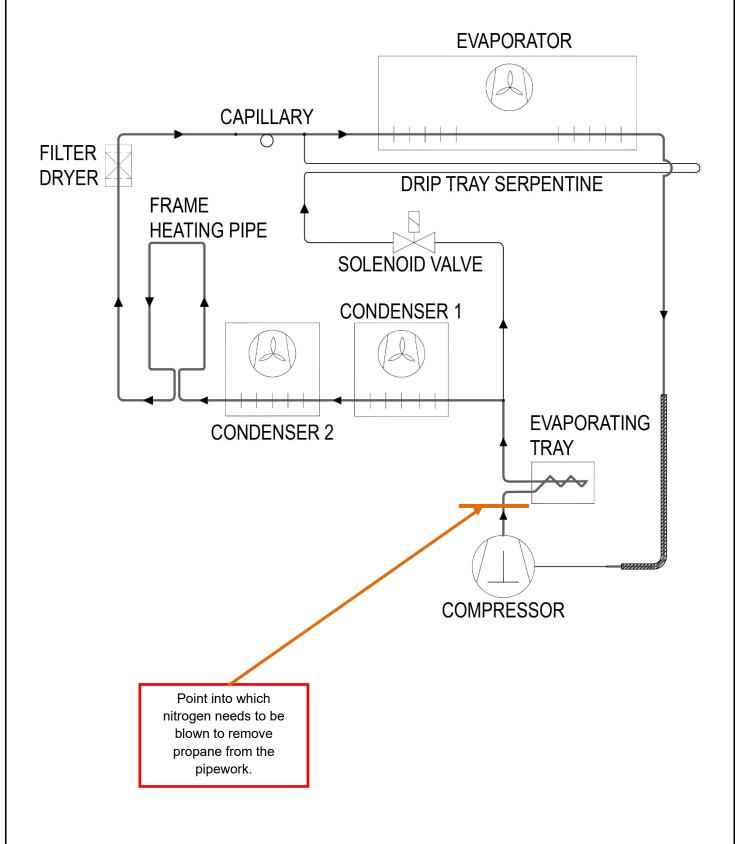
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2.3 REFRIGERATION DIAGRAM FOR THE COOLING CYCLE **VALZER KW 4D**

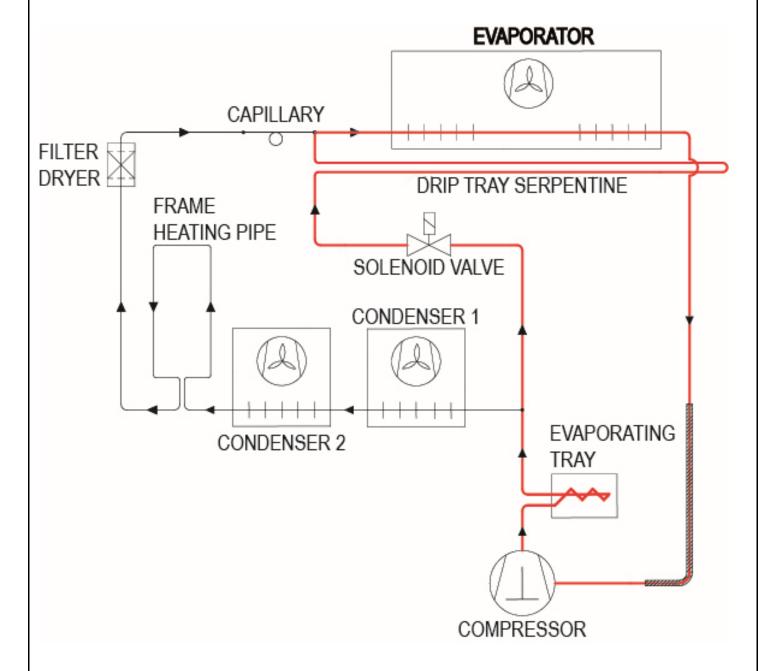
The compressor runs warm gas through evaporating tray, condensers and frame pipe.

GROUP 1



2.4 REFRIGERATION DIAGRAM FOR THE DEFROST CYCLE VALZER KW 2D

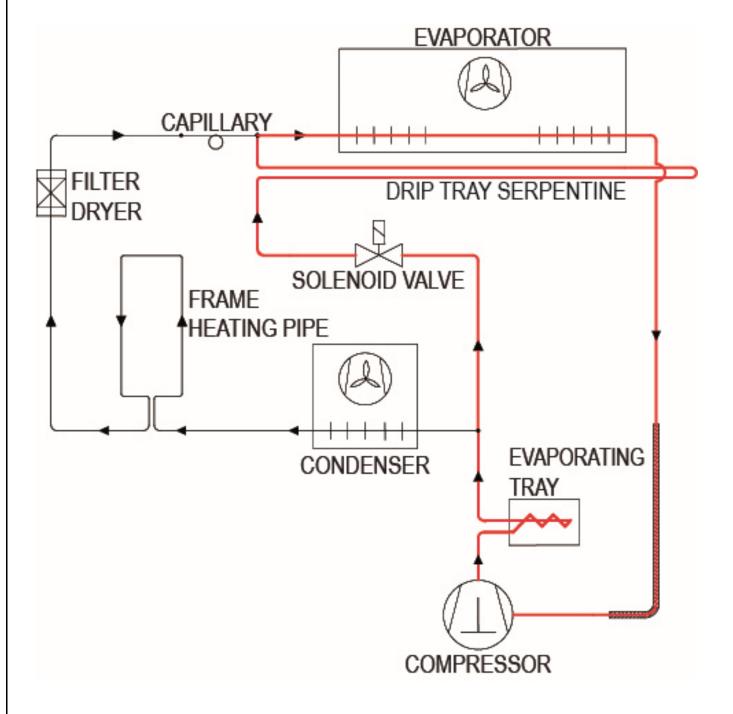
The NC solenoid valve opens and allow gas to run through the drip tray serpentine and then into the evaporator.

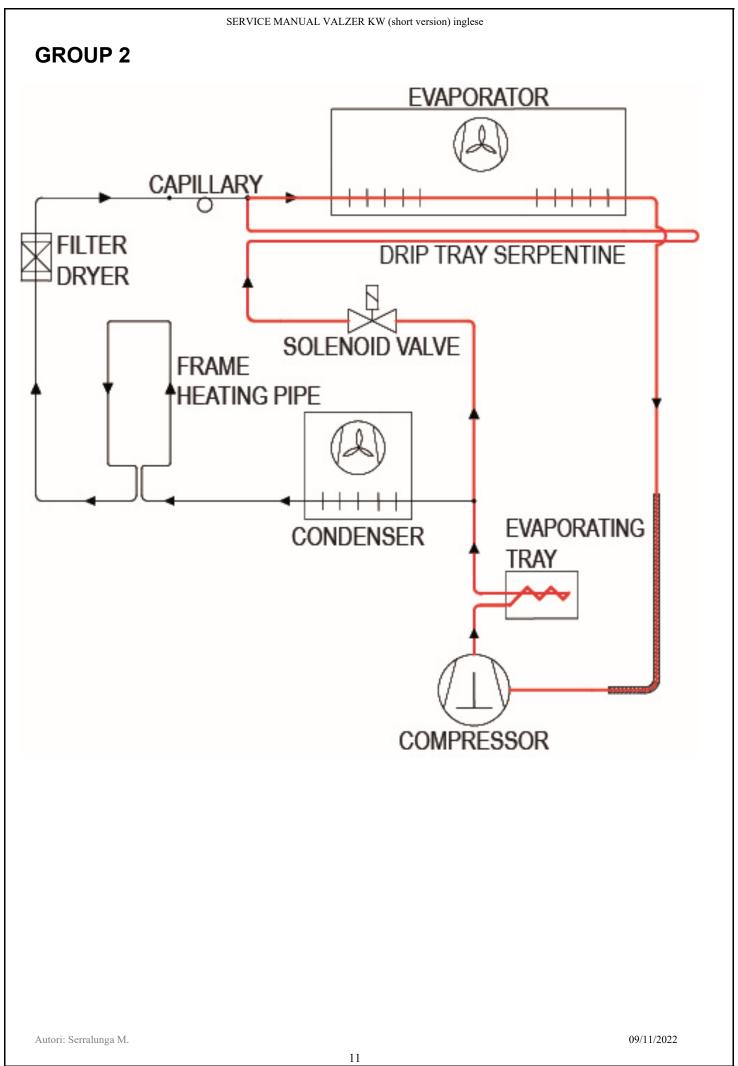


2.5 REFRIGERATION DIAGRAM FOR THE DEFROST CYCLE VALZER KW 3D

The NC solenoid valve opens and allow gas to run through the drip tray serpentine and then into the evaporator.

GROUP 1

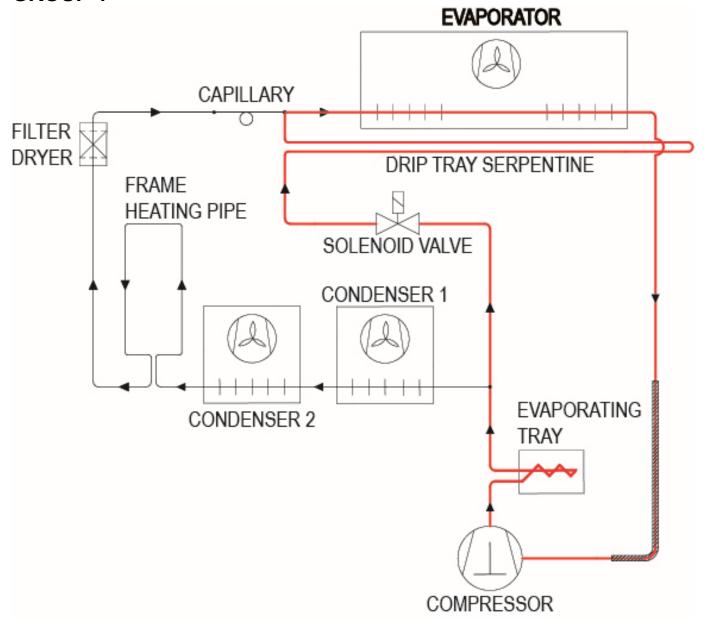




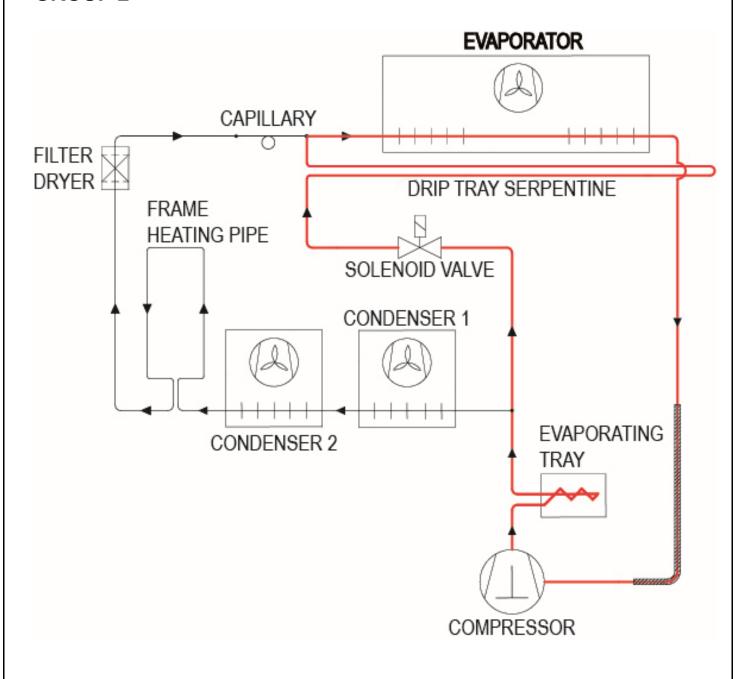
2.6 REFRIGERATION DIAGRAM FOR THE DEFROST CYCLE VALZER KW 4D

The NC solenoid valve opens and allow gas to run through the drip tray serpentine and then into the evaporator.

GROUP 1

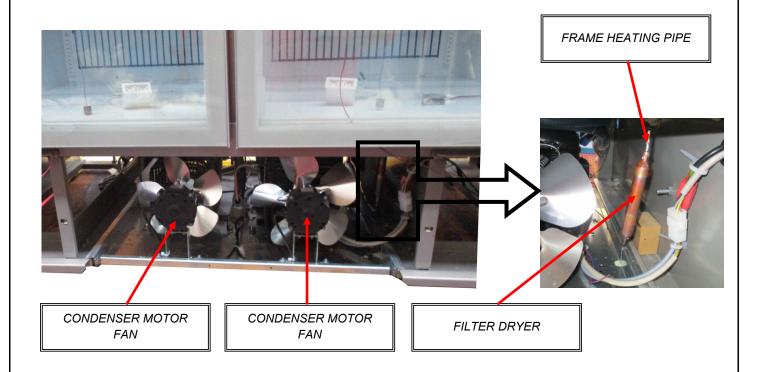


GROUP 2

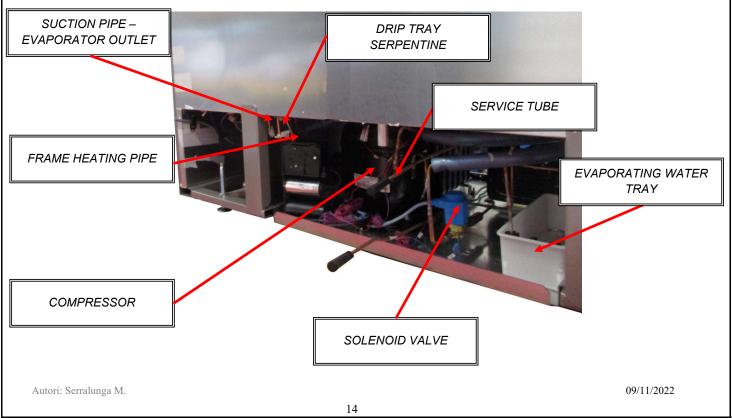


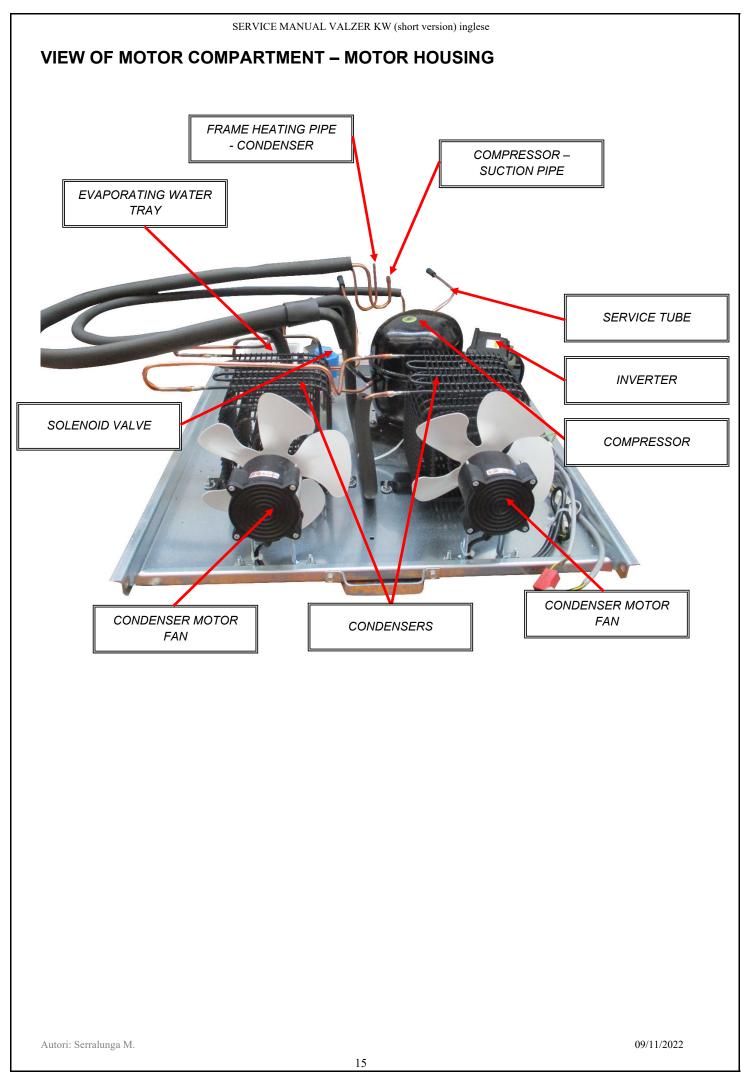
2.7 VIEW OF THE MOTOR COMPARTMENT AND RELEVANT PIPEWORK VALZER KW 2D

VIEW OF MOTOR COMPARTMENT - FRONT SIDE



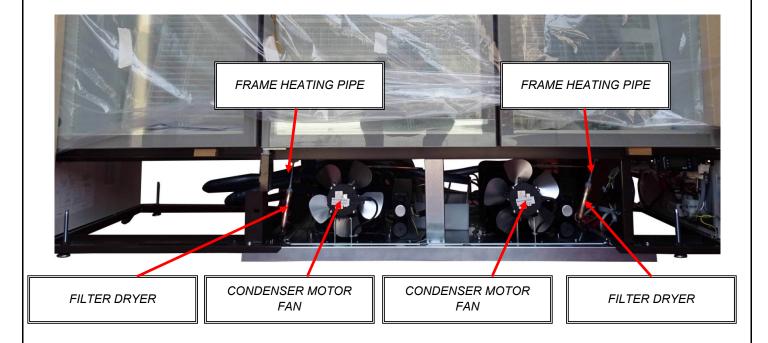
VIEW OF MOTOR COMPARTMENT - REAR SIDE



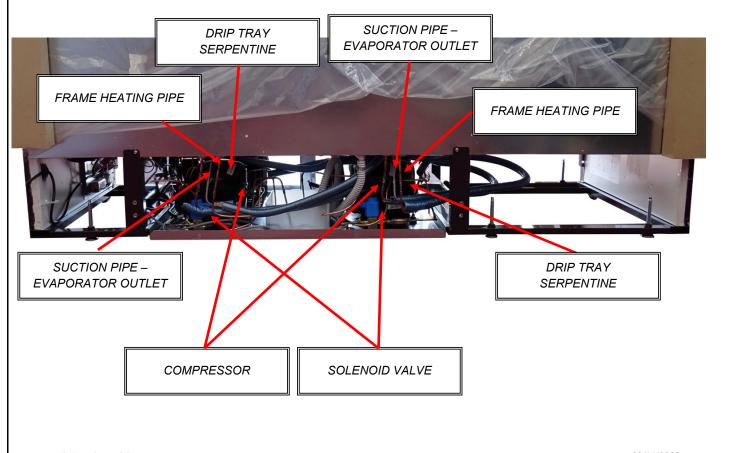


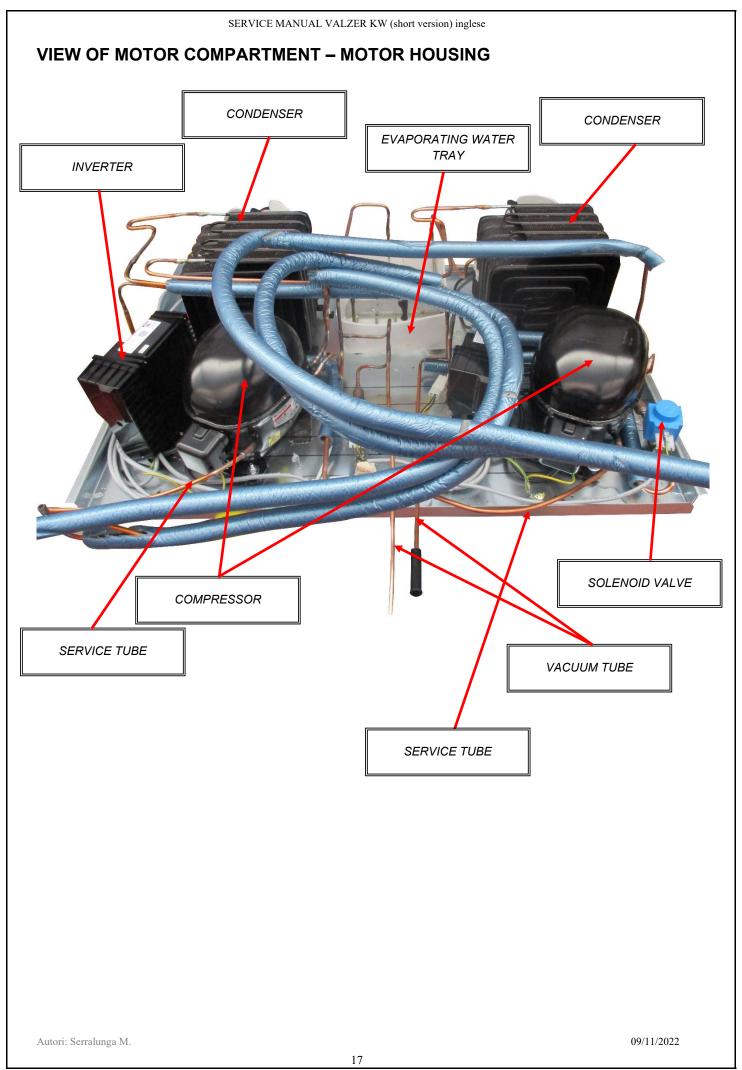
2.8 VIEW OF THE MOTOR COMPARTMENT AND RELEVANT PIPEWORK VALZER KW 3D

VIEW OF MOTOR COMPARTMENT - FRONT SIDE



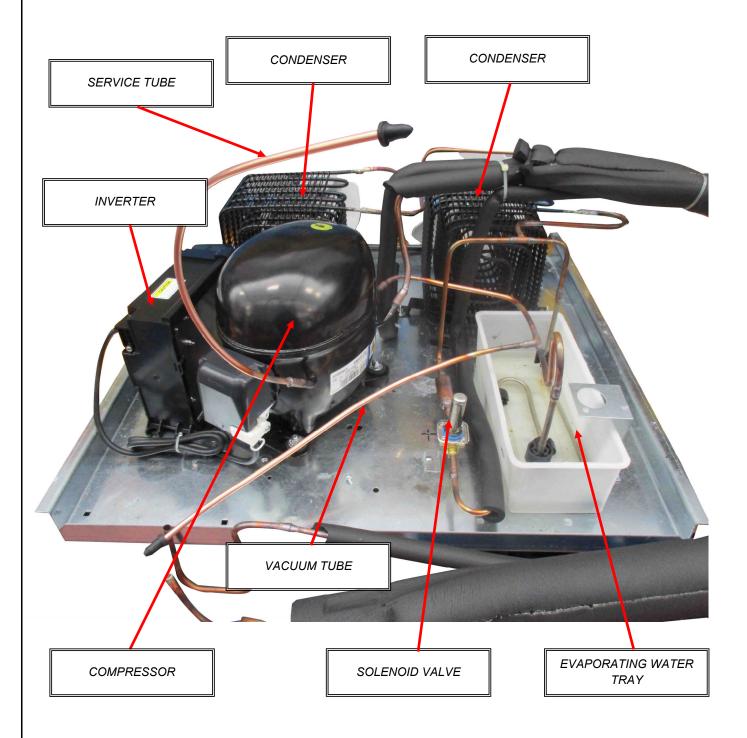
VIEW OF MOTOR COMPARTMENT - REAR SIDE



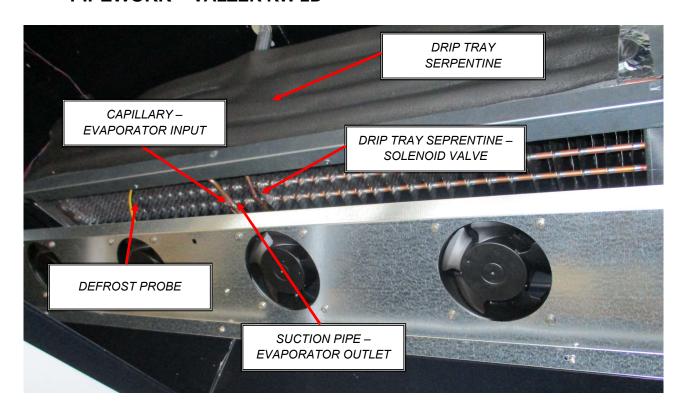


2.9 VIEW OF THE MOTOR COMPARTMENT AND RELEVANT PIPEWORK VALZER KW 4D

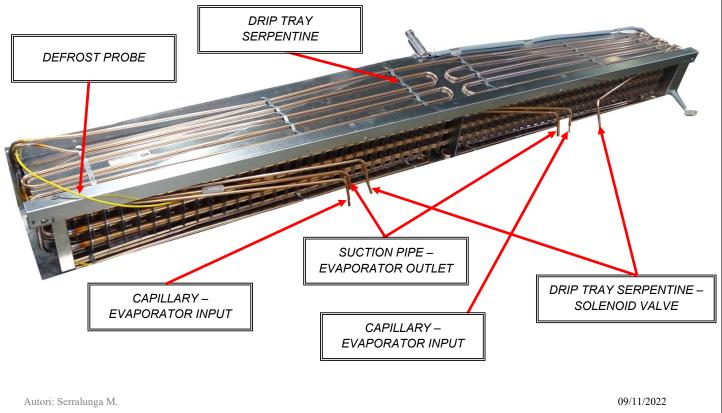
VIEW OF MOTOR COMPARTMENT - MOTOR HOUSING



2.10 VIEW OF THE EVAPORATOR COMPARTMENT AND RELEVANT PIPEWORK – VALZER KW 2D

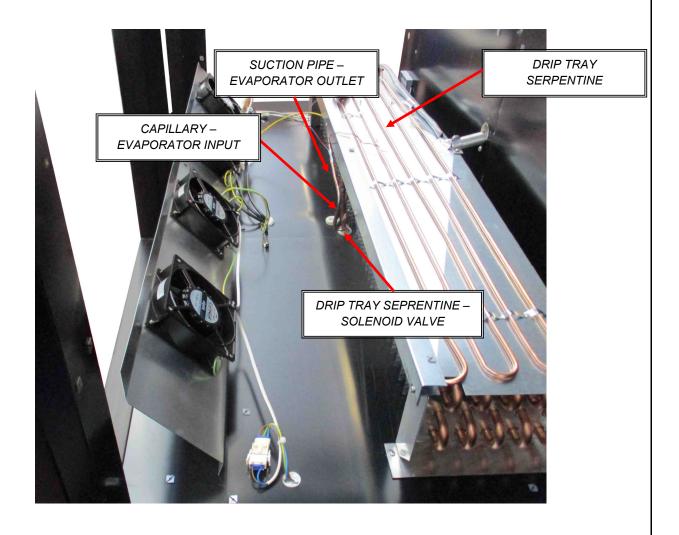


2.11 VIEW OF THE EVAPORATOR COMPARTMENT AND RELEVANT PIPEWORK – VALZER KW 3D



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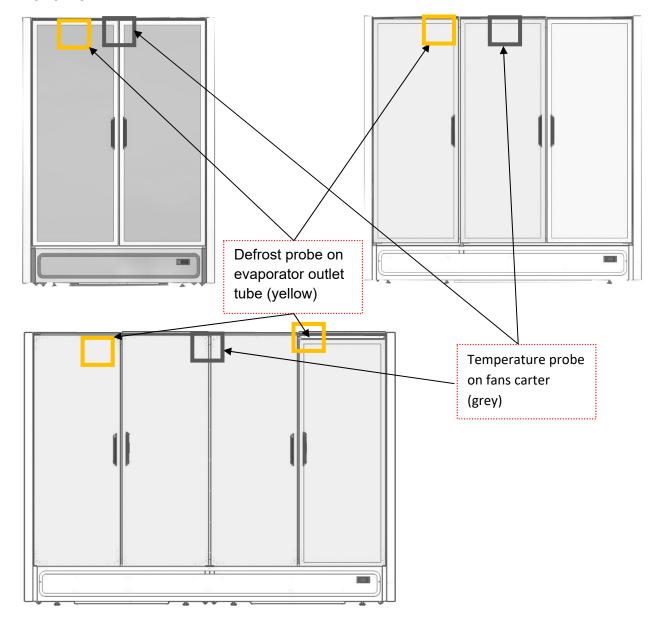
2.12 VIEW OF THE EVAPORATOR COMPARTMENT AND RELEVANT PIPEWORK – VALZER KW 4D



3. POSITION OF PROBES IN THE CABINET

There are two probes in the VALZER KW 2D, VALZER KW 3D and VALZER KW 4D.

Front view:



Model	Position of probe	Probe Colour	Function	Probe Epta code
VALZER KW 2D	Evaporator	Yellow	Defrost end	10205786
	Tank	Gray	Display - Thermostat	10205739
VALZER KW 3D	Evaporator	Yellow	Defrost end	I0205786
	Tank	Gray	Display - Thermostat	I0205713
VALZER KW 4D	Evaporator	Yellow	Defrost end	I0205786
	Tank	Gray	Display - Thermostat	I0205739

4. ALARMS (Dixell Controller)

ALARM	CAUSE	CONSEQUENCES
"P1"	Temperature probe damaged	Compressor running with fixed on/off periods (parameters "Con" and "CoF")
"P2"	Evaporator probe damaged	Defrost ended for timeout (parameter "MdF")

5. REPLACEMENT OF COMPONENTS AND REPAIR OF A LEAK

The instructions below, which involve opening the refrigerating circuit, must be performed in a place with sufficient air circulation and not in the sales area.

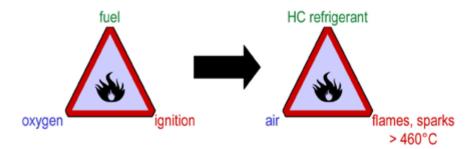
5.1 SAFE OPERATING PROCEDURES FOR REFRIGERATION UNITS USING R290

Before carrying out any kind of maintenance operation on the refrigerator, make sure that the machine is disconnected from power (unplugged).

R290 (Propane CH3CH2CH3) is a flammable natural refrigerant (Hydrocarbon HC) having lower explosive limit (LEL %V/V) = 1.7.

The very low quantity of refrigerant used and the safe design (possible ignition sources far from the potential explosive areas) make this unit totally safe in use. Caution must be used during servicing and with this respect it is essential to understand the basic concept of flammability.

Three ingredients are needed for a fire: a fuel at the right concentration, a supply of oxygen (normally from air) and a source of ignition. The common way of illustrating this is by means of the fire triangle.



Eliminating at least one but preferably two of these ingredients fire can be prevented. In order to achieve this, three general guidelines should be followed during servicing:

- F1. Containment of the substance;
- F2. Avoidance of ignition sources;
- F3. Use of ventilation.

F1. Containment

The flammable substances must be kept within a suitably designed and constructed "container", be it a suitable cylinder or a refrigeration system. If the substance leaks, it should be prevented from spreading to other areas.

F2. Ignition sources

Ensure that all the obvious and unobvious ignition sources have been removed from the equipment and handling areas. Ignition sources can vary greatly and may include sparks from electrical equipment or welding and cutting tools, hot surfaces, open flames from heating equipment, smoking materials, etc.

F3. Ventilation

There should be adequate airflow where flammable substances are stored and used. Good ventilation will mean that any vapor arising from a leak or a release will be rapidly dispersed. In case one of the components of the refrigerating hermetic circuit (compressor, dryer, condenser, evaporator, capillary) needs to be serviced, the basic safe guideline must be always followed:

NEVER USE FLAMES OR HEAT SOURCES IF FLAMMABLE REFRIGERANT IS PRESENT INSIDE THE REFRIGERATING CIRCUIT

Flames can be used only when there is evidence that no flammable substance is still inside the circuit or the circuits; IN CASE OF MULTIPLE CIRCUITS NONE OF THEM MUST CONTAIN FLAMMABLE SUBSTANCES in case heat sources are to be used: all circuits need to be emptied and absence of flammable substances must be proved.

IMPORTANT

Provisions for all jobs involving the opening of the refrigerating circuit:

- SHUT DOWN THE POWER SUPPLY
- MANDATORILY WEAR GLOVES AND GLASSES
- DO NOT WORK WITH OPEN FLAMES BEFORE THE PIPEWORK HAS BEEN CUT!
- REMOVE ALL SPARK SOURCES FROM THE WORKING AREA (LIGHTERS, LAMPS, CIGARETTES).

5.2 PROTECTION TOOLS AND DEVICES FOR SERVICEMENT

Protection tools:



Devices for service personnel:

	1
	LOW PRESSURE SUCTION GAUGE
	REFRIGERANT PLIER
	ELECTRONIC LEAK DETECTOR
	REFRIGERANT JUNCTIONS
10 00 3	LOKRING JOINT PLIER
	LOKRING CAP
	REFRIGERANT GAS CONTAINER
	NITROGEN GAS BOTTLE



5.3 HOW TO EMPTY THE COOLING CIRCUIT AND TEST IT BEFORE SERVICING

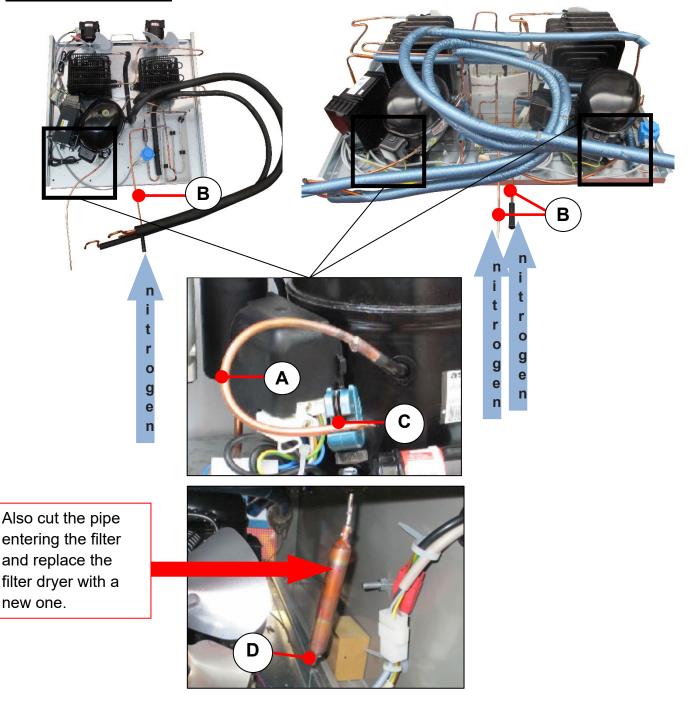
The refrigerating unit has a double servicing pipe, on the low (**A**) and on the high (**B**) pressure sides: in order to totally remove the flammable refrigerant from the refrigerating circuit both pipes are to be opened by using an orbital cutter (**C**).

Cut the capillary tube (**D**) exiting the filter dryer.

When the inside pressure is equalized with the ambient pressure, blow nitrogen at 10 bars in the circuit through the service pipe on high pressure side (**B**) and check that it flows out through the other service pipe on the low pressure side; continue to blow nitrogen for at least 5 minutes. At the end of this procedure **NO FLAMMABLE REFRIGERANT CAN REMAIN INSIDE THE**

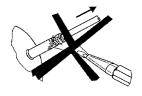
At the end of this procedure **NO FLAMMABLE REFRIGERANT CAN REMAIN INSIDE THE**CIRCUIT IN SUCH A QUANTITY TO BE DANGEROUS WHEN FLAMES OR HEAT

SOURCES ARE USED.



5.4 COMPRESSOR REPLACEMENT









VALZER KW 2D

Epta code: 21848070

Model: EMBRACO VNEU217U

VALZER KW 3D

Epta code: 45911034

Model: SECOP NLV12.6CN





VALZER KW 4D

Epta code: 21848070 (2 Pc) Model: EMBRACO VNEU217U





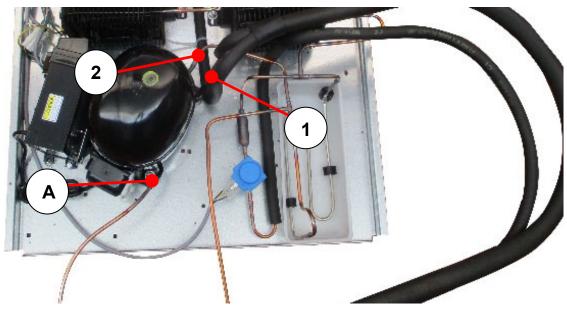
Epta code for filter: 78729000

Model: Filter UL gr 12 - Holes 5-3,2

Note: when the compressor is replaced the filter drier must be replaced too

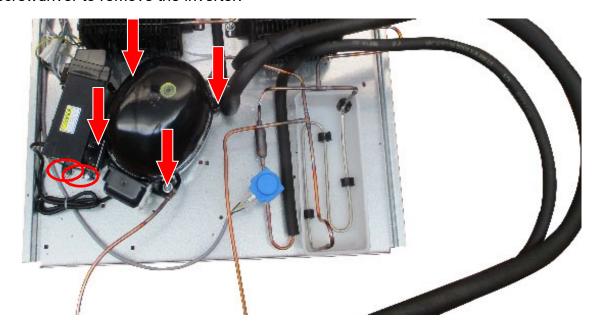
5.5 UNSOLDER COPPER PIPE TUBE

When no more refrigerant gas is inside the thermodynamic circuit, unsolder from compressor the charge pipe (**A**), the suction pipe (**1**) and the discharge pipe (**2**).



5.6 COMPRESSOR REMOVING

Unscrew the 4 compressor screws by using a wrench n°10. Use a screwdriver to remove the inverter.



5.7 NEW COMPRESSOR INSERTION

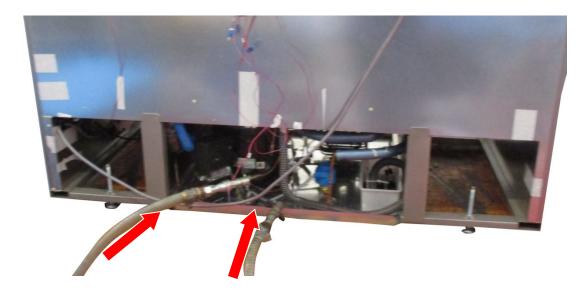
Fix the new compressor to the motor plate with 4 screws (wrench n°10) and then fix the inverter (screwdriver).

After securing the compressor to the plate, braze the discharge and suction pipes, then cut the capillary terminal by a 45° diagonal cut, insert it into the filter outlet (max 3cm) and braze it. Braze the pipe exiting the condenser to the filter inlet.

When the circuit is closed, charge the circuit with helium/nitrogen up to a pressure of 8 bar; check for possible leakages on brazing points.

Connect the vacuum pump to the compressor service tube and to the high pressure pipe and hold the vacuum for a period of 30-40minutes (check vacuum pump characteristics and manual for the correct procedure). The vacuum degree to be achieved is below 15 Pa (0,15 mbar).

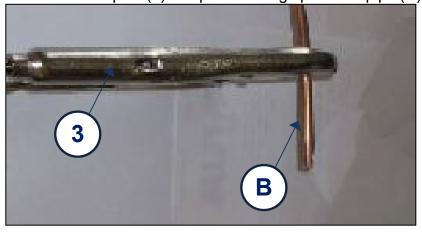
WARNING! Wrong vacuum execution may cause problems on the refrigerator performances.



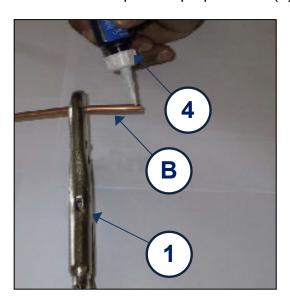
5.8 HIGH PRESSURE PIPE CLOSING

After 30-40 minutes of vacuum, disconnect the vacuum pump only on the high pressure pipe (**B**).

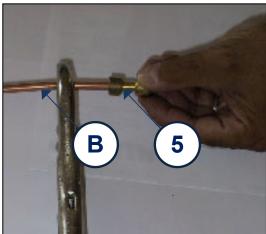
■ Take the plier (3) and pinch the high pressure pipe (B), then remove refrigerant junction.



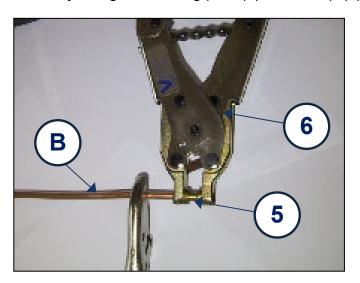
Put a drop of Lokprep sealant (4) on the high pressure pipe terminal (B).



■ Insert a Lokring cap (5) on the high pressure pipe (B). Rotate the cap (5) for correctly distribute the sealant (4).

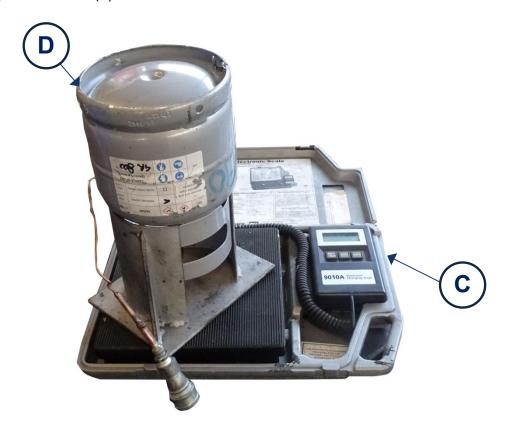


■ By using the Lokring plier (6) fix the cap (5) on the copper pipe (B).



5.9 REFRIGERANT GAS CHARGING AND THERMODYNAMIC CIRCUIT CLOSING.

Check the nominal refrigerant gas charge on the data label of the cabinet (in g / oz). Using a scale (7) with an adequate precision (± 1 g / ± 0.01 oz), verify the quantity of refrigerant gas in the gas container (8).



Disconnect the vacuum pump from the compressor service tube (**A**); connect the gas container (**8**) to the circuit, and measure the amount of refrigerant gas introduced in the circuit.



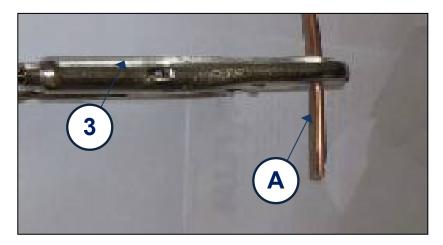
Picture example of compressor

If necessary, switch on the refrigerator, in order to introduce further refrigerant gas; the final charge should be the nominal value with a tolerance of ±3% in mass.

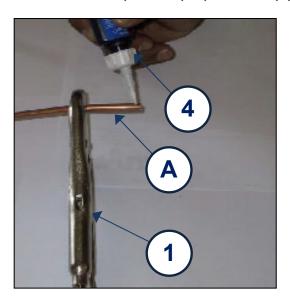
WARING! In order to avoid damages to the thermodynamic system components, do not switch on the refrigerator without any refrigerant gas inside the circuit.

Disconnect the refrigerant container from the circuit at the end of the charging process, then keep the refrigerator on for 5-6 minutes. Switch off and disconnect from the power supply.

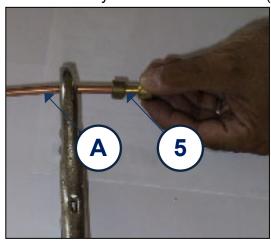
■ Take the plier (3) and pinch the compressor service tube (A), then remove refrigerant junction.



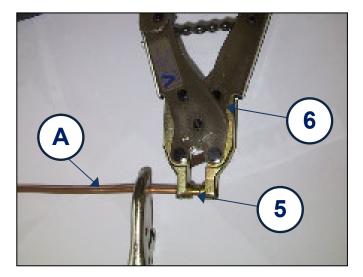
Put a drop of Lokprep sealant (4) on the compressor service tube terminal (A).



• Insert Lokring cap (5) on the compressor service tube (A). Rotate the cap (5) for correctly distribute the sealant (4).



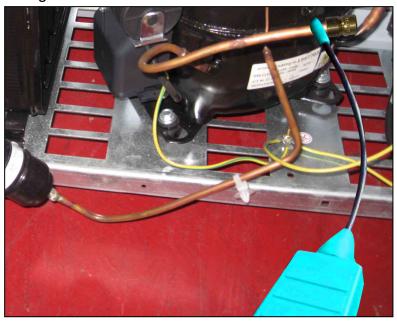
By using the Lokring plier (6) fix cap (5) on the tube (A).



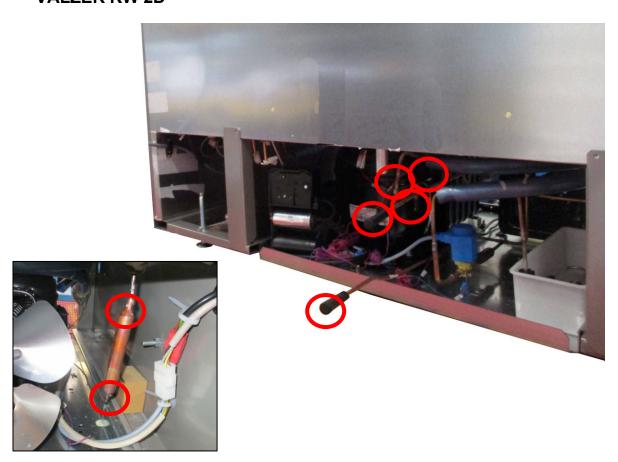
5.10 LEAKAGES CHECK

Use the electronic leak detector (9) in order to check for refrigerant gas leakages; adjust the sensitivity of the detector (when available) and test each brazing point and the two Lokring caps.

- Compressor service tube (Lokring cap).
- High pressure tube (Lokring cap).
- Suction pipe welding.
- Charge pipe welding.
- Discharge pipe welding.

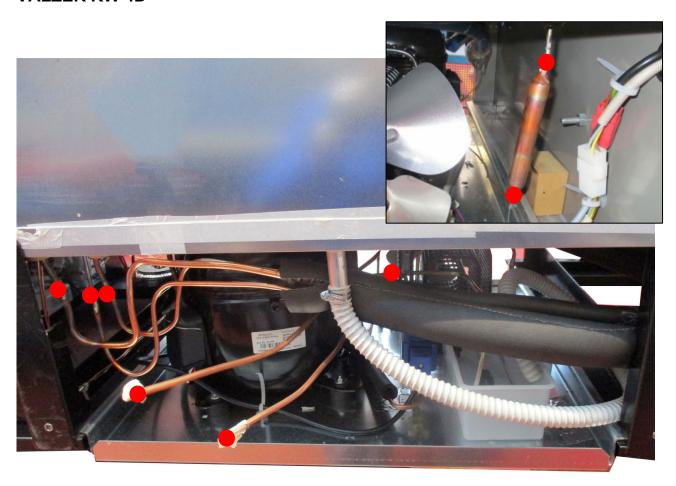


VALZER KW 2D



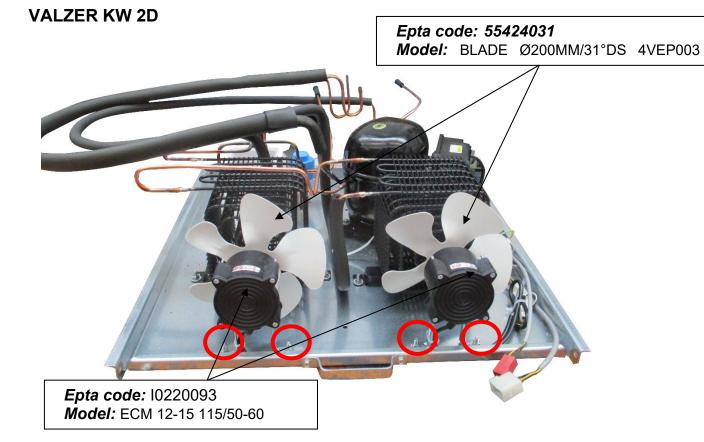


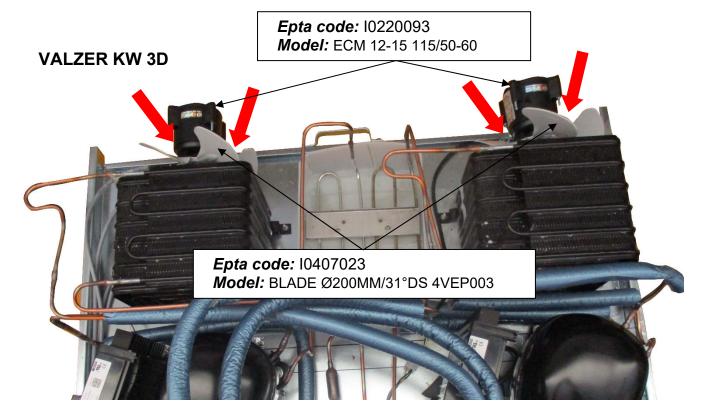
VALZER KW 4D



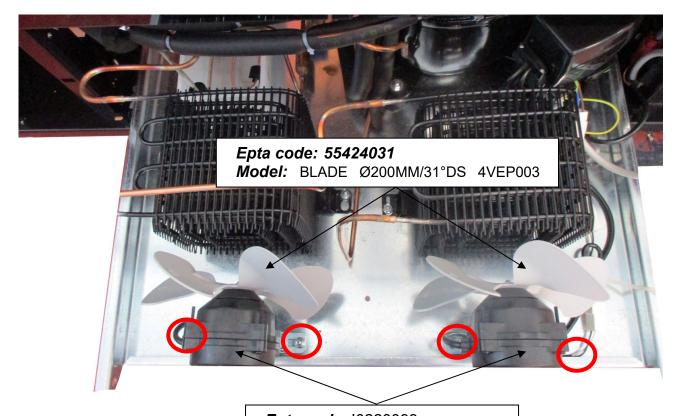
5.11 REPLACEMENT OF CONDENSER MOTOR FAN

- 1 Disconnect the motor fan terminal connector and release the cable from the plastic tie.
- 2 Unscrew the hexagonal-head screws and remove the motor fan from the motor plate.
- 3 Unscrew the hexagonal-head screw fixing the fan blade and remove the screws fastening the motor to its bracket.





VALZER KW 4D

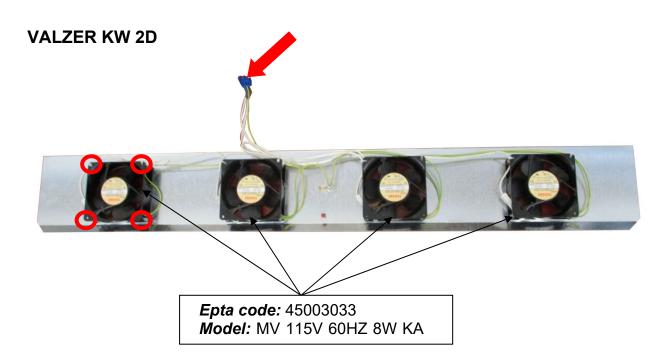


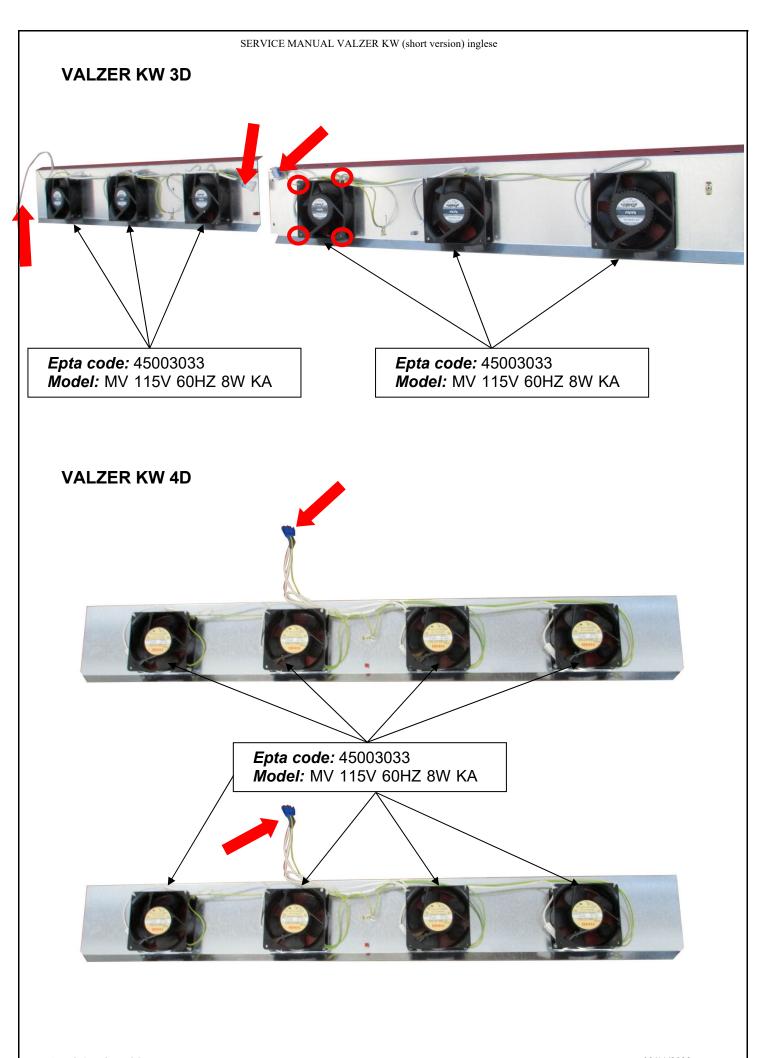
Epta code: 10220093

Model: ECM 12-15 115/50-60

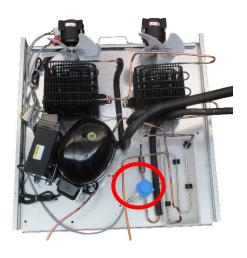
5.12 REPLACEMENT OF EVAPORATOR MOTOR FAN

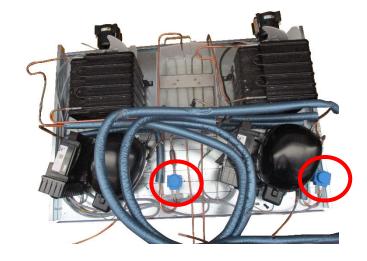
- 1 Unscrew and remove evaporator plastic cover.
- 2 Disconnect the motor fan connectors.
- 3 Unscrew and remove the motor fan.



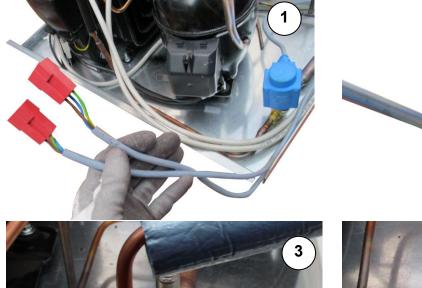


5.13 REPLACEMENT OF SOLENOID VALVE





- 1) Disconnect the valve connector.
- 2) By using the screwdriver, remove the valve coil.
- 3) Open the circuit according to previous paragraph, then remove the solenoid valve.
- 4) Unsolder and replace the mechanic filter.









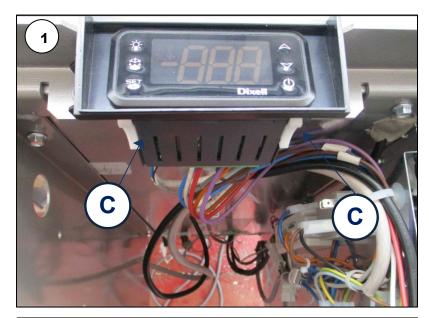
Epta code Solenoid Valve: 10189033 Model: SOLENOID VALVE EVR3 115/60 U.L.

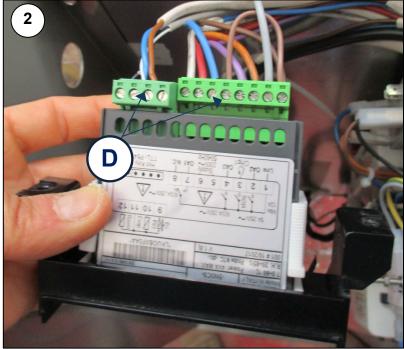
Epta code Coil: 13304601 Model: COIL EVR3 115/60 U.L.

Epta code Mechanic filter: 10145001 Model: MECHANIC FILTER D.MM17X74

5.14 REPLACEMENT OF ELECTRONIC CONTROLLER

- 1 Remove the frontal grid to access to electrical components.
- 1 Remove the controller lateral clips (C).
- 2 Disconnect the rear connector (**D**).
- 3 Remove the electronic controller.





Epta code Electronic controller: 52997031

Model: ELECTRONIC CONTROL DIXELL XR72CH 4N0F9 120VAC

5.15 REPLACEMENT OF LED BARS

LED POWER SUPPLY VALZER KW 2D

Epta code: 13305249Model: LPV 35-24

Epta code : I3305723Model : APV 16-24

LED POWER SUPPLY VALZER KW 3D

Epta code: 13305249*Model*: LPV 35-24

Epta code : I3305248Model : LPV 20-24

LED POWER SUPPLY VALZER KW 4D

Epta code: 13305249Model: LPV 35-24

Epta code: 13305249Model: LPV 35-24

LED BARS VALZER KW 2D

- Epta code for LED lamp: 50915002- LED LAMP 8W 1573 24V 4000K WHITE (2 Pc)
- Epta code for LED lamp: 50916002 LED LAMP 8W 1573 24V 4000K WHITE (2 Pc)

LED BARS VALZER KW 3D

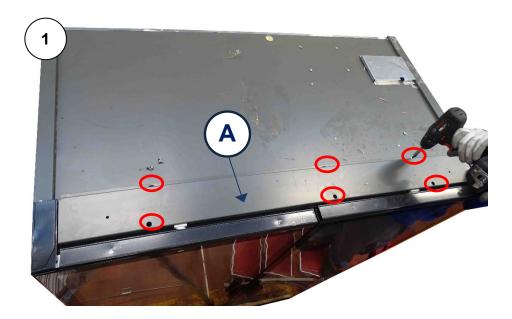
- Epta code for LED lamp: 50915002 LED LAMP 8W 1573 24V 4000K WHITE (3 Pc)
- Epta code for LED lamp: 50916002 LED LAMP 8W 1573 24V 4000K WHITE (3 Pc)

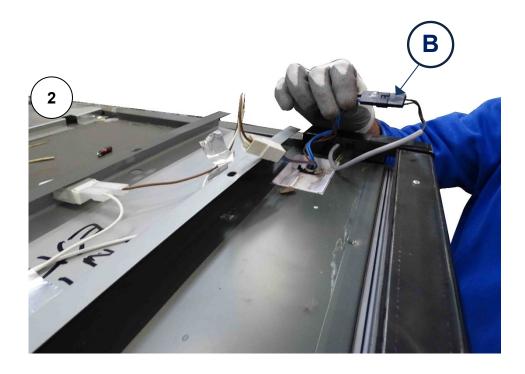
LED BARS VALZER KW 4D

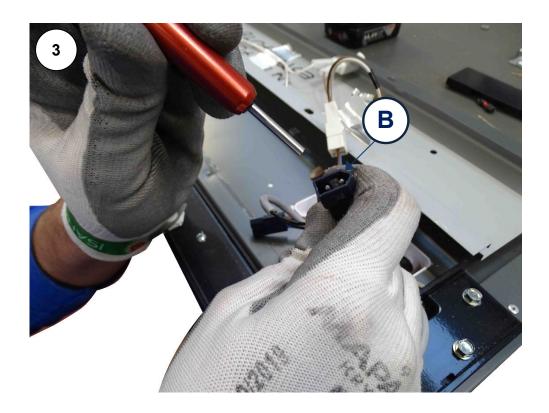
- *Epta code for LED lamp*: 50915002– LED LAMP 8W 1573 24V 4000K WHITE (4 Pc)
- Epta code for LED lamp: 50916002 LED LAMP 8W 1573 24V 4000K WHITE (4 Pc)

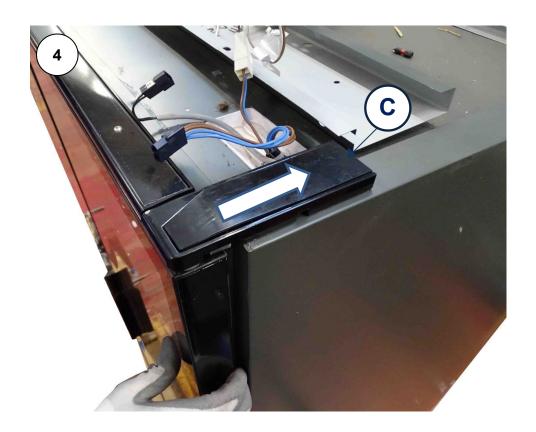
5.16 DOOR REPLACEMENT

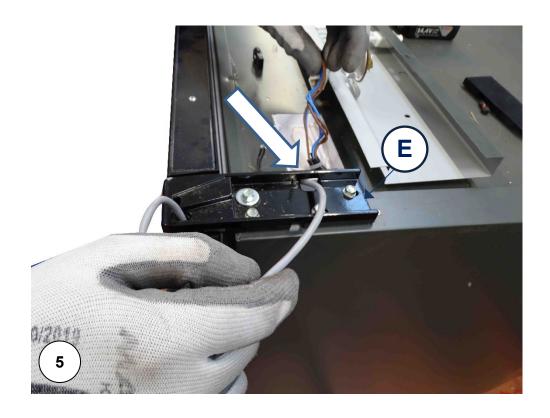
- 1 Unscrew and remove the Upper Cover (A).
- 2 Disconnect the connector (B).
- 3 Remove the connector (B).
- 4 Remove the plastic cover (C).
- 5 Pass the resistance wire from the upper door support (E).
- 6 Unscrew the upper door hinge (E).
- 7 Remove the door.
- 8 Insert the new door, pay attention to insert the lower hinge (**D**); the lower hinge must be perfectly aligned with the motor housing (**F**).
- 9 Repeat the operations starting from point 6 up to point 1 for restore the cabinet.

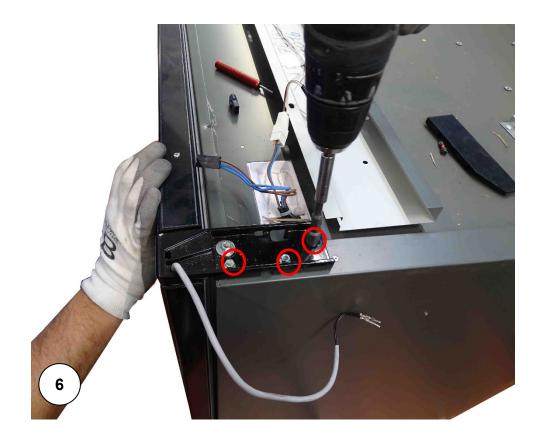


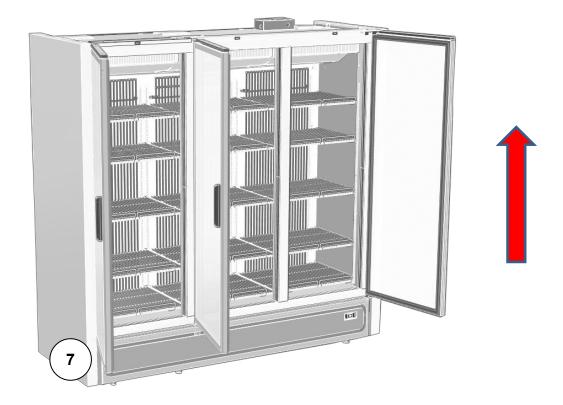


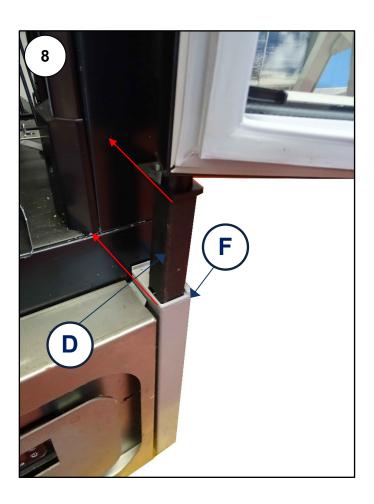












6. INVERTER INFORMATIONS

6.1 LED INDICATION

LED STATUS	PERIOD	COLOR	DESCRIPTION		
1 Flash	30 seconds	Green	Normal Operation		
2 Flashes	5 seconds	Green	Communication problem		
3 Flashes	5 seconds	Red	Inverter Problem		
4 Flashes	5 seconds	Orange	Compressor Problem		
No Flash	-	-	No imput power / Damaged inverte		

6.2 INVERTER TROUBLESHOOTING

COMPRESSOR DOESN'T START							
PROBLEM	ACTION						
Compressor disconnected from the inverter.	Verify compressor cable connection.						
No AC power supply; or wrong voltage/terminals connected.	Verify AC input cable connection and measure AC input voltage.						
No control signal input or bad connection.	Verify control input cable connection and measure the signal from the thermostat.						
Blown fuse (due to previous major failure).	Return the unit to manufacturer, replacing it by new one.						
Open compressor motor winding.	Measure winding for open circuit between all pair of pins on the hermetic terminal. If any winding is open, return compressor to manufacturer.						
Compressor with locked rotor (due to mechanical damage).	Replace compressor by new one and test for confirmation. Return damage unit to manufacturer.						
Dropped, damaged, burnt inverter.	Replace by new one and test for confirmation. Return damaged unit to manufacturer.						
Inverter on waiting time after failed start.	Wait the necessary time or reset the inverter disconnecting it from the AC power supply. The reset time is about 50s.						
Demagnetized rotor (only if compressor was previously connected directly to the AC power supply).	Replace compressor by a new one and test for confirmation. Return damaged unit to manufacturer.						
Unequaled pressures between discharge and suction pressures in the refrigerating system.	Allow the inverter to equalize pressure between suction and discharge sides.						
Low input voltage supplied to the inverter.	Measure AC voltage to confirm.						

7. MAIN CABINET FUNCTIONS

7.1 DISPLAY UNIT AND MAIN PARAMETERS



- 1. Light switch
- 2. Manual defrost
- 3. Show set point (longer pressure to modify value)
- 4. Decrease set point
- 5. Increase set point

7.2 USE OF LEDS

LED	MODE	MEANING			
N. Jak	ON	Compressor enabled			
***	FLASHING	Anti-short cycle delay enabled			
***	ON	Defrost enabled			
4,6,4	FLASHING	Drip time in progress			
42	ON	Fans enabled			
	FLASHING	Fans delay after defrost in pregress			
	ON	An alarm is occurring			
*	ON	Continuous cycle is running			
ECO	ON	Energy saving enebled			
	ON	Light Auxiliary replay on			
AUX	ON	Auxiliary relay on			
°C/°F	ON	Measurement unit			
C/ T	FLASHING	Programming phase			

7.3 TEMPERATURE SETTING

Each refrigerating appliance is provided with an electronic control factory programmed to maintain the temperature inside the tank in its operating range.

Parameters should not be modified by end users; only skilled personnel is authorized to enter in programming mode.

If the average internal temperature is too cold or too warm, set-point can be modified in an allowed range with the following steps:

- Press the (Set) key for a few seconds in order to see on display the temperature set point.
- Press the (♠) key or the (♥) key in order to increment or decrement the temperature set point.
- Press the (Set) key in order to store the new temperature set point.

7.4 VALZER KW 2D PARAMETERS

The company			IA5-22 2D KW- COPY CARD COD. 739	89000 Release	01_21					
M. TEMPERSTURE, Tempersture Corp. CAND Original Visibility Min Max Unity Corp. Corp.		?1								
Description Parameter Process		URA: F°								
Page			Description	COPYCARD	Original	Visibility	Min	Max	Unity	Commen
Part	robe		Probe P1 calibration	0	0	Pr1	-12	12	°C	
PSP										
Protect Pay Pa							-12	12	°C	
PAP Prote PA presence no							40	1.0		
Petro Pet californion							-12	12	°C	
Seguidation Set Se							-12	12	°C	
Page Compressor regulation Page Compressor regulation See Get Post min	Tobe	04	Probe P4 Calibration	0	U	FIZ	-12	12	-	
Page Compressor regulation Page Compressor regulation See Get Post min	Regulation	SEt	Set point	-6	-20		-5	5 2	5 °C	
September Sept				_	1	Pr1				
seguiation	Regulation	LS	Set Point min	-22	-55	Рг2	-55	-20	°C	
Seguidation AC	Regulation	US	Set Point max	14	25	Pr2	-20	150	°C	
Separation Act Starting Original Compression 1 0 0 71 0 255 lest regulation 100 72 0 100 72 72 72 72 72 72 72							_	_	_	
Page									_	
Experiment Continuous cycle outstand 00:00 00:00 P2 5 Pour	-								sec	
Separation CCS Separation for continuation acycle 23 Separation Continuation Conti							0	100	hour	
Segulation Congressor ON time with faulty probe 8 8 Pi 2 0 255 min							55	150		
Comparation CoF Comparation Per Irms with faulty probe 6 8 Pt 2 0 255 min		3 Company (1997)					_		_	
Segulation GF									_	
Pit							Ī	1	1	
Separation Col. Display temperature delay 99 99 99 99 99 99 99										
PFP2 percentage for display 99 99 PF2 1 90	tegulation									
werkende to def									min	
whereast disP	egulation	dtr	P1-P2 percentage for display	99	99	Pr2	1	99		
offered dFP Probe 1 selection for defineds P2 P5 P1 P5 P5 P5 P1 P5 P5 P5 P1 P5 P5 P5 P6 P6 P6 P1 O P30 P2 P3 P3 P4 P3 P3 P3 P4 P3	ofvont	4dE	Defrect tone a register and formation		in.	Ded				
Insert							-		+	
Defrost fermination temperature 59 15 9r1 35 50.0 Combrost termination temperature 59 8 9r2 35 50.0 Combrost termination temperature 59 8 9r2 35 50.0 Combrost to the second temperature 59 8 9r2 35 50.0 Combrost 16F 18F 1									+	\vdash
Selection Insert Configuration Selection Sel							-55	50.0	°C	
Interval between defronts cycles 6 8 Pri 0 120 nour leveled befores MdF Maximum length for defronts 30 20 Pri 0 225 min leveled 255							_			
Mode							_		_	
Seferost dSd Start defrost delay 0 0 Pr2 0 255 min	efrost	MdF	Maximum length for defrost	30	20	Pr1	0	255	min	
Interest GFG Configuration Configurati	efrost		Maximum length for 2nd defrost	0	0				min	
MAX display delay after defrost 15 30 Pt 2 0 255 min					_		0	255	min	
Post		1000								
AF									_	
Comparison Com							0	255	min	
ans FnC Fan operating mode							-	+	hour	
Process	reliost	UAI	Deliost delay after fast freezing	00.00	00.00	FIZ			rioui	
Find	ans	FnC	Fan operating mode	O-n	O-n	Pr1				
Part				_	7		0	255	min	
Annabe	ans	FCt	Differential of temperature for forced activation of fans	0	0	Pr2	0	50	°C	
Post Para of time with compressor of Para of the para of Para of time Para of Para of time Para of t	ans	FSt	Fan stop temperature	122	50	Pr1	-55	50.0	°C	
Probe selection for fan management							_		_	
Section Sect							0	15	min	
SAA Set point aussilarlary regulator 0 0 Pr2 55 150 °C	ans	FAP	Probe selection for fan management	P2	P2	Pr2				
SAA Set point aussilarlary regulator 0 0 Pr2 55 150 °C	ueilian	ACH	Type of action augisliany regulator	cl	cl	Dr2				
SHy							-55	150	°C	
Select probe for aussiliary Square			1 0				_			
ALC					nΡ		1	1	1	
ALU		Sdd			no	Pr2				
ALL Maximum alarm temperature 1 122 50 Pr1 50 150 °C larm ALL Low temperature alarm 5-88 5-50 Pr1 55 50 °C larm AFH Differential for temperat. alarm recovery 1 4 2 Pr2 1 25 °C larm ALd Temperature alarm delay 1 60 60 Pr2 0 255 min arm dAo Delay of temperature alarm at start up 1 02:00 03:00 Pr2										
ALL Low temperature alarm S8 S0 Pr1 S5 S0 °C C Iarm AFH Differential for temperat, alarm recovery 1 4 2 Pr2 1 25 °C C Iarm ALd Temperature alarm delay 1 60 60 Pr2 0 255 min Min ALd Temperature alarm delay 1 60 60 Pr2 0 255 min ALd Alarm ALd Temperature alarm at start up 1 02:00 03:00 Pr2 Min Mour Alarm AP2 Probe for temperature alarm at start up 1 02:00 03:00 Pr2 Mour Alarm AP2 Probe for temperature alarm at start up 1 02:00 03:00 Pr2 Mour Alarm AP2 Alarm threshold of low temperature probe 2 -67 -55 Pr2 -55 150 °C Alarm AU2 Alarm threshold of high temperature probe 2 -67 -55 Pr2 -55 150 °C Alarm AU2 Alarm threshold of high temperature probe 2 10 5 Pr2 1 25 °C Alarm AU2 Differential for temperature alarm probe 2 120 120 Pr2 1 25 °C Alarm AU2 Delay alarm temperature alarm probe 2 120 120 Pr2 0 255 min AU2 Alarm AU2 Delay alarm temperature at power-on 02:00 02:00 Pr2 0 255 min AU2 Alarm AU2 Compressor block for per low temperature alarm 2 no no Pr2 Mour Alarm AC2 Compressor block for per low temperature alarm 2 no no Pr2 Mour Alarm AC2 Comfiguration function exit AUX1 dEF dEF Pr2 Mour Alarm AC2 Comfiguration function exit AUX2 Fan FAn Pr2 Mour Alarm AC2 Configuration function exit AUX3 LiG LiG Pr2 Mour Alarm Ala										
AFH Differential for temperat, alarm recovery 1										
ALd							_			
Item							_		_	
AP2							0	233	_	\vdash
Alarm Al.2									nour	
Alarm AU2 Alarm threshold of high temperature probe 2 230 110 Pr2 -55 150 °C larm AH2 Differential for temperature alarm probe 2 10 5 Pr2 1 25 °C larm Ad2 Delay alarm temperature probe 2 120 120 Pr2 0 255 min darm Ad2 exclusion alarm temperature probe 2 120 Pr2 0 255 min larm Ad2 exclusion alarm temperature alarm 2 120 120 Pr2 0 255 min hour larm Ad2 exclusion alarm temperature alarm 2 100 no Pr2 100 Pr							-55	150	°C	
larm AH2 Differential for temperature alarm probe 2 10 5 Pr2 1 25 °C larm Ad2 Delay alarm temperature probe 2 120 120 Pr2 0 255 min darm Ad2 exclusion alarm temperature at power-on 02:00 02:00 Pr2 0 255 min hour larm BLL Compressor block for per low temperature alarm 2 no no Pr2 larm AC2 Compressor block for per low temperature alarm 2 no no Pr2 larm AC2 Comfiguration function exit AUX1 dEF dEF Pr2 lonfiguration oA2 Configuration function exit AUX2 Fan FAn Pr2 ligital input oA3 Configuration function exit AUX3 LiG LiG Pr2 longitual input liTP Polarity digital input did Alarm delay from digital configurable in 255 255 Pr1 0 255 min ligital input nPS Numbers of action of preassure switch 15 15 Pr2 0 15 ligital input Odc Open door control : fans and compressor no no Pr2 larm rrd Restart regulation with open door alarm rrd Restart regulation with open door alarm Pr2 larm Pr3 Serial address 1 1 Pr2 1 247 longinguration DFC Configuration button OFF no no Pr2 longinguration LPC Configuration button OFF no no Pr2 light pr2 light probe Pr3 Display probe Pr3 Display probe Pr4 longingurape Pr2 light		AU2							°C	
larm bLL Compressor block for per low temperature alarm 2 no no Pr2 larm bLL Compressor block for per low temperature alarm 2 no no Pr2 larm AC2 Compressor block for per low temperature alarm 2 no no Pr2 larm AC2 Compressor block for per high temperature alarm 2 no no Pr2 larm AC2 Comfiguration function exit AUX1 dEF dEF Pr2 longifiguration oA1 Configuration texit AUX2 Fan FAn Pr2 longifiguration oA2 Configuration function exit AUX2 Fan FAn Pr2 large l				10				_	°C	
According Acco							0	255	_	
AC2 Compressor block for per high temperature alarm 2 no no Pr2 Configuration oA1 Configuration function exit AUX1 Configuration oA2 Configuration function exit AUX2 Fan FAn Pr2 Configuration oA3 Configuration function exit AUX3 LiG LiG Pr2 Configuration oA3 Configuration function exit AUX3 LiG LiG Pr2 Configuration oA3 Configuration function exit AUX3 Ligital input I1P Polarity digital input CL CL Pr1 Cl CL									hour	
Configuration oA1 Configuration function exit AUX1 dEF Pr2 Configuration oA2 Configuration function exit AUX2 Fan FAN Pr2 Configuration oA3 Configuration function exit AUX3 LiG LiG Pr2 Configuration oA3 Configuration function exit AUX3 LiG LiG Pr2 Configuration by the function depth of									-	
configuration oA2 Configuration function exit AUX2 Fan FAn Pr2 Configuration oA3 Configuration exit AUX3 LiG LiG Pr2 Configuration oA3 Configuration exit AUX3 LiG LiG Pr2 Configuration oA3 Configuration exit AUX3 LiG LiG Pr2 Configuration exit AUX3 LiG Pr2 Confi	ıarm	AC2	Compressor block for per high temperature alarm 2	no	no	PT2				
configuration oA2 Configuration function exit AUX2 Fan FAn Pr2 Configuration oA3 Configuration exit AUX3 LiG LiG Pr2 Configuration oA3 Configuration exit AUX3 LiG LiG Pr2 Configuration oA3 Configuration exit AUX3 LiG LiG Pr2 Configuration exit AUX3 LiG Pr2 Confi	Configuration	οΔ1	Configuration function exit ALIX1	AEE	dEE	Pr2				
Configuration oA3 Configuration function exit AUX3 LiG LiG Pr2 Display probe P4 Display probe P5 Display probe P4 Display pro									+	
igital input i1P Polarity digital input i1F Function digital input i1F Function digital input i1F Function digital in input i1F Function digital in input input i1F Function digital in input input input i1F Function digital input input i1F Function digital configurable in i1F Function digital configurable in i1F Function i1F Func										
In the configuration If Function digital in If Function digital in If Function digital in If If Function digital in If If If If If If If I										
lagital input inpu	igital input		Polarity digital input	cL	cL					
In the configuration	igital input		Function digital in							
In the configuration									min	
Restart regulation with open door alarm Yes Yes Pr2							0	15	_	
Temperature increasing at Energy Saving	igitai input	Oac	Open door control : tans and compressor	no	no	PT2				
Temperature increasing at Energy Saving	larm	rrd	Pectart regulation with open dear clares	Voc	Vec	Dr2				
The column The							-30	30	°C	
Proceed					1				+	
onfiguration onF Configuration button OFF no no Pr2 onfiguration LPC Configuration LIGHT function button Lig Lig Pr2 other dP1 Display probe P1 0 0 Pr2 other dP2 Display probe P2 0 0 Pr2 other dP3 Display probe P3 0 0 Pr2 other dP4 Display probe P4 0 0 Pr2 other rSE Display regulation set (SET + ES + SETd) 0 0 Pr2					ntC		ľ	- "		
Configuration LPC Configuration LIGHT function button Lig Lig Pr2 Lig Pr2 Lig Li										
ther dP1 Display probe P1 0 0 Pr2 ther dP2 Display probe P2 0 0 Pr2 ther dP3 Display probe P3 0 0 Pr2 ther dP4 Display probe P4 0 0 Pr2 ther dP4 Display regulation set (SET + ES + SETd) 0 Pr2										
ther dP2 Display probe P2 0 0 Pr2 ther dP3 Display probe P3 0 0 Pr2 ther dP4 Display probe P4 0 0 Pr2 ther dP4 Display probe P4 0 0 Pr2 ther rSE Display regulation set (SET + ES + SETd) 0 Pr2										
ther dP2 Display probe P2 0 0 Pr2 ther dP3 Display probe P3 0 0 Pr2 ther dP4 Display probe P4 0 0 Pr2 ther rSE Display regulation set (SET + ES + SETd) 0 0 Pr2	ther		Display probe P1	0	0					
ther dP4 Display probe P4 0 0 Pr2 ther rSE Display regulation set (SET + ES + SETd) 0 0 Pr2			Display probe P2	0	0					
ther rSE Display regulation set (SET + ES + SETd) 0 0 Pr2										
ther rEL Release firmware code (read only) 0 0 Pr2										
ther Ptb Identify EPROM map 1 106 Pr2 0 65535	ther				-					

7.5 VALZER KW 3D PARAMETERS

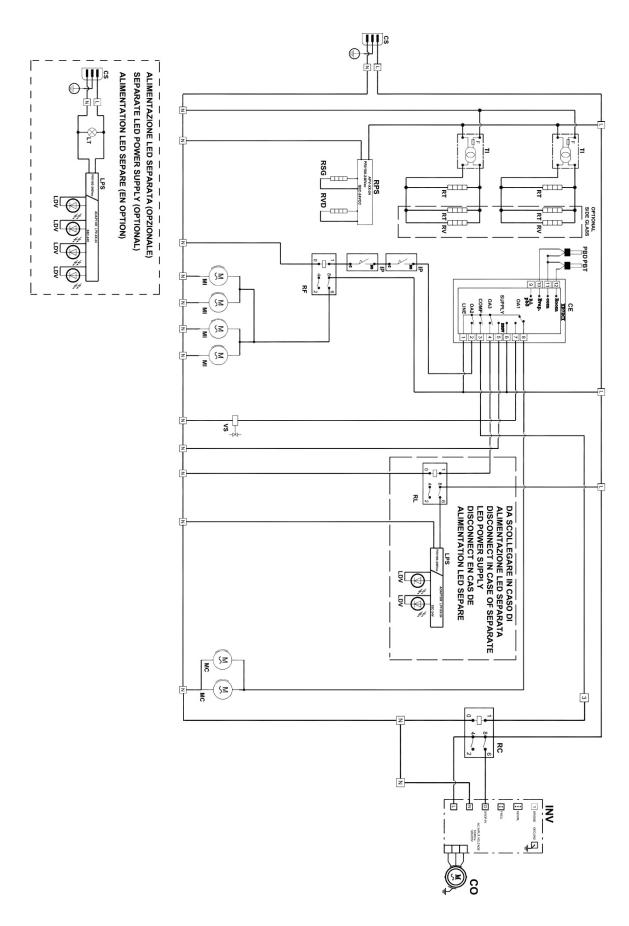
		DIXELL Model : XR72CH - 120V - NTC/PT IA5-22 3D KW- COPY CARD COD. 7							
Date: 08/02/202 Firmware: 1,8	21								
J.M TEMPERA	TURA: F°	3	97.0	25 -	× 6			,	22
Group	Parameter	Description	COPYCARD	Original	Visibility		Max		Commer
Probe Probe	ot P2P	Probe P1 calibration Probe P2 presence	0 Yes	0 Yes	Pr1 Pr1	-12	12	°C	
robe	οE	Probe P2 calibration	0	0	Pr2	-12	12	°C	
robe	P3P	Probe P3 presence	no	no	Pr2				
robe	о3	Probe P3 calibration	0	0	Pr2	-12	12	°C	
robe	P4P	Probe P4 presence	no	no	Pr2	40	40		
robe	04	Probe P4 calibration	0	0	Pr2	-12	12	°C	
Regulation	SEt	Set point	-4	-20		-55	25	°C	
Regulation	Hy	Compressor regulation hysteresis	3	1	Pr1	1	25	°C	
Regulation	LS	Set Point min	-22	-55	Pr2	-55	-20	°C	
Regulation	US	Set Point max	14	25	Pr2	-20	150	°C	3
Regulation	odS AC	Output delay at start up	1	0		0	255	min	
Regulation Regulation	Ac1	Anti-short cycle delay Starting delay 2nd compressor	3	3	Pr1 Pr1	0	50 255	min sec	-
Regulation	rtr	P1-P2 percentage for regulation	100	100		0	100	300	
Regulation	CCt	Continuous cycle duration	00:00	00:00	Pr2			hour	
Regulation	ccs	Set point for continuous cycle	23	-5	Pr2	-55	150	°C	
Regulation	Con	Compressor ON time with faulty probe	8	8	Pr2 Pr2	0	255 255	min	
Regulation Regulation	CF	Compressor OFF time with faulty probe Temperature measurement unit	6 °F	°C	Pr2	U	200	min	
Regulation	rES	Resolution (per °C) : decimal , integer	dE	in	Pr1				
Regulation	Lod	Local dispaly : default display	P1	P1	Pr2		4 9		
Regulation	dLy	Display temperature delay	03:00	00:00	Pr1		S .	min	2
Regulation	dtr	P1-P2 percentage for display	99	99	Pr2	1	99		
)efrost	tdF	Defroct type : resistance importion	in	in	Pr1		2		
)efrost)efrost	dFP	Defrost type : resistance , invertion Probe 1 selection for defrost	in P2	in P2	Pr1 Pr2				2
)efrost	dSP	Probe 2 selection for defrost	np	nP	Pr2		9		
)efrost	dtE	Defrost termination temperature	59	15	Pr1	-55	50.0	°C	
)efrost	dtS	2nd Defrost termination temperature	59	8	Pr2	-55	50.0	°C	
Defrost	idF	Interval between defrost cycles	6	6		0	120	hour	
Defrost Defrost	MdF MdS	Maximum length for defrost Maximum length for 2nd defrost	30	20		0	255 255	min min	
)efrost	dSd	Start defrost delay	0	0		0	255	min	
Defrost	dFd	Displaying during defrost	dEF	dEF	Pr2		200		
efrost	dAd	MAX display delay after defrost	15	30		0	255	min	
efrost	Fdt	Draining time	3	3		0	255	min	
efrost	dPo	First defrost after start-up	no	no	Pr2				
Defrost	dAF	Defrost delay after fast freezing	00:00	00:00	Pr2			hour	
ans	FnC	Fan operating mode	0-n	O-n	Pr1		S		
ans	Fnd	Fan delay after defrost	7	7		0	255	min	
ans	FCt	Differential of temperature for forced activation of fans	0	0		0	50	°C	3
ans	FSt	Fan stop temperature	122	50	Pr1	-55	50.0	°C	3
ans	Fon	Fan on time with compressor off	0	0	Pr2	0	15	min	
ans	FoF	Fan off time with compressor off	0	0		0	15	min	
ans	FAP	Probe selection for fan management	P2	P2	Pr2		9 7		
Ausiliary	ACH	Type of action ausialiary regulator	cL	cL	Pr2		10		
Ausiliary	SAA	Set point ausialiary regulator	0	0	Pr2	-55	150	°C	
Ausiliary	SHy	Differential for ausialiary regulator	4	2	Pr2	1	25	°C	
Ausiliary	ArP	Select probe for ausialiary regulator	nP	nΡ	Pr2				
Ausiliary	Sdd	Block regolator AUX during defrost	no	no	Pr2				
Alarm	ALC	Configuration alarms : relative / absolute	Ab	Ab	Pr2		2		
Alarm	ALU	Maximum alarm temperature 1	122	50	Pr1	-50	150	°C	
Alarm	ALL	Low temperature alarm	-58	-50	Pr1	-55	50	°C	
larm	AFH	Differential for temperat. alarm recovery 1	4	2	Pr2	1	25	°C	2
Marm	ALd	Temperature alarm delay 1	60	60		0	255	min	
Marm	dAo AP2	Delay of temperature alarm at start up 1 Probe for temperat. alarm of condenser 2	02:00	03:00 nP	Pr2 Pr2			hour	
Alarm Alarm	AL2	Alarm threshold of low temperature probe 2	nP -67	-55	Pr2	-55	150	°C	
Alarm	AU2	Alarm threshold of high temperature probe 2	230	110	Pr2	-55	150	°C	
Alarm	AH2	Differential for temperature alarm probe 2	10	5	Pr2	1	25	°C	1
Alarm	Ad2	Delay alarm temperature probe 2	120	120	Pr2	0	255	min	
Marm	dA2	exclusion alarm temperature at power-on	02:00	02:00	Pr2		-	hour	
larm larm	AC2	Compressor block for per low temperature alarm 2 Compressor block for per high temperature alarm 2	no	no	Pr2 Pr2				
									Š.
Configuration	oA1	Configuration function exit AUX1	dEF	dEF	Pr2				
Configuration	oA2	Configuration function exit AUX2	Fan	FAn	Pr2				
Configuration	oA3	Configuration function exit AUX3	LiG	LiG	Pr2				
Digital innet	i1P	Polarity digital input	cL	cL	Pr1		-		
Digital input Digital input	ifF	Polarity digital input Function digital in	dor	dor	Pr1		9 3		
Digital input	did	Alarm delay from digital configurable in	255	255		0	255	min	1
igital input	nPS	Numbers of action of preassure switch	15	15	Pr2	0	15		
Digital input	Odc	Open door control : fans and compressor	no	no	Pr2				
	2	D.		V-	n.c				
larm nergy Saving	rrd HES	Restart regulation with open door alarm Temperature increasing at Energy Saving	Yes	Yes 0	Pr2 Pr2	-30	30	°C	_
ther Saving	Adr	Serial address	1	1	Pr2	1	247	-	
robe	pbC	Select probe type	ntC	ntC	Pr1		1		
Configuration	onF	Configuration button OFF	no	no	Pr2				
Configuration	LPC	Configuration LIGHT function button	Lig	Lig	Pr2				
Other	dP1	Display probe P1	0	0	Pr2		h 3	_	
Other Other	dP2 dP3	Display probe P2 Display probe P3	0	0	Pr2 Pr2			\vdash	
other	dP4	Display probe P4	0	0	Pr2				
Other	rSE	Display probe P4 Display regulation set (SET + ES + SETd)	0	0	Pr2		1 3		
Other	rEL	Release firmware code (read only)	0	0	Pr2		-		
Juner									

7.6 VALZER KW 4D PARAMETERS

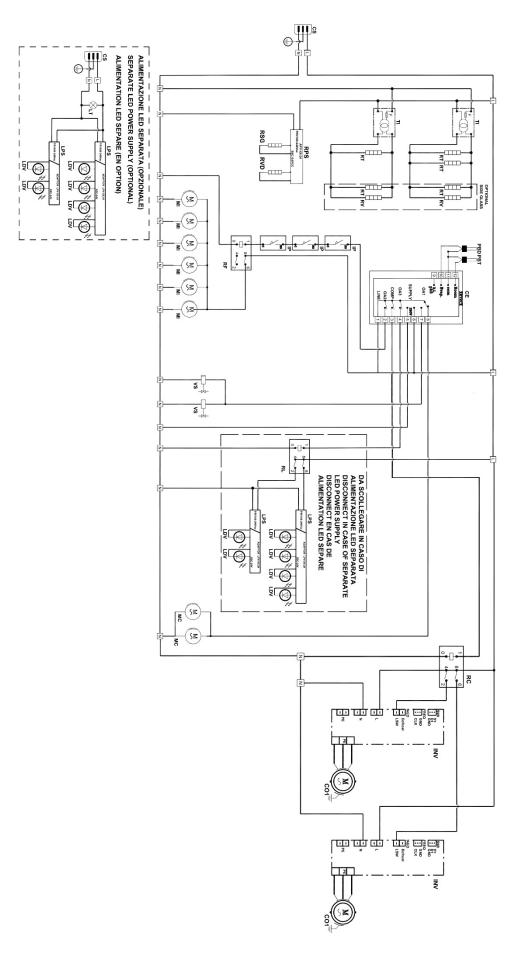
		DIXELL Model : XR72CH - 120V - NTC/PT IA5-22 4D KW- COPY CARD COD. 7							
Date : 08/02/202 Firmware: 1,8	21								
J.M TEMPERA	TURA: F°								
Group	Parameter	Description	COPYCARD	Original	Visibility	Min	Max	Unity	Commen
robe	ot	Probe P1 calibration	0	0	Pr1	-12	12	°C	
robe	P2P	Probe P2 presence	Yes	Yes	Pr1				
robe	oE	Probe P2 calibration	0	0	Pr2	-12	12	°C	
robe	P3P	Probe P3 presence	Yes	no 0	Pr2	40	40	°C	
robe robe	o3 P4P	Probe P3 calibration Probe P4 presence	no	no	Pr2 Pr2	-12	12	-0	
robe	04	Probe P4 calibration	0	0	Pr2	-12	12	°C	
TODE		Trope 1 1 damardion				12	12		
Regulation	SEt	Set point	-9	-20		-55	25	°C	
Regulation	Ну	Compressor regulation hysteresis	2	1	Pr1	1	25	°C	\$
Regulation	LS	Set Point min	-22	-55	Pr2	-55	-20	°C	
Regulation	US	Set Point max	14	25	Pr2	-20	150	°C	
Regulation	odS	Output delay at start up	1	0	Pr2	0	255	min	-
Regulation	AC	Anti-short cycle delay	3	3	Pr1	0	50	min	
Regulation	Ac1	Starting delay 2nd compressor	100	100	Pr1 Pr2	0	255 100	sec	
Regulation Regulation	CCt	P1-P2 percentage for regulation Continuous cycle duration	00:00	00:00	Pr2	U	100	hour	
Regulation	CCS	Set point for continuous cycle	23	-5	Pr2	-55	150	°C	
Regulation	Con	Compressor ON time with faulty probe	8	8	Pr2	0	255	min	
Regulation	CoF	Compressor OFF time with faulty probe	6	6	Pr2	0	255	min	2
Regulation	CF	Temperature measurement unit	°F	°C	Pr2		9	3	9
Regulation	rES	Resolution (per °C) : decimal , integer	dE	in	Pr1				
Regulation	Lod	Local dispaly : default display	P1	P1	Pr2				
Regulation	dLy	Display temperature delay	03:00	00:00	Pr1			min	
Regulation	dtr	P1-P2 percentage for display	99	99	Pr2	1	99		
) of sect	4.dE	Defeat two conjetures in the		-	D-1				
)efrost)efrost	dFP	Defrost type : resistance , invertion Probe 1 selection for defrost	in P2	in P2	Pr1 Pr2			-	
Defrost Defrost	dSP	Probe 1 selection for defrost Probe 2 selection for defrost	P3	nP	Pr2				
Defrost	dtE	Defrost termination temperature	59	15	Pr1	-55	50.0	°C	
Defrost	dtS	2nd Defrost termination temperature	59	8	Pr2	-55	50.0	°C	1
Defrost	idF	Interval between defrost cycles	6	6	Pr1	0	120	hour	
)efrost	MdF	Maximum length for defrost	30	20		0	255	min	
Defrost	MdS	Maximum length for 2nd defrost	0	0	Pr2	0	255	min	
Pefrost	dSd	Start defrost delay	0	0	Pr2	0	255	min	
Defrost	dFd	Displaying during defrost	dEF	dEF	Pr2	_		_	
)efrost)efrost	dAd Fdt	MAX display delay after defrost	15	30	Pr2 Pr2	0	255 255	min min	
)efrost	dPo	Draining time First defrost after start-up	no	no	Pr2		200	min	
Pefrost	dAF	Defrost delay after fast freezing	00:00	00:00	Pr2		- C	hour	-
remost	uni	Denost delay after last neezing	00.00	00.00	112			noui	
ans	FnC	Fan operating mode	O-n	O-n	Pr1				
ans	Fnd	Fan delay after defrost	7	7	Pr1	0	255	min	
ans	FCt	Differential of temperature for forced activation of fans	0	0	Pr2	0	50	°C	
ans	FSt	Fan stop temperature	122	50	Pr1	-55	50.0	°C	1
ans	Fon	Fan on time with compressor off	0	0	Pr2	0	15	min	1
ans	FoF	Fan off time with compressor off	0	0	Pr2	0	15	min	
ans	FAP	Probe selection for fan management	P2	P2	Pr2				
Ausiliary	ACH	Time of action auxilalians consister		cL	Pr2		10		
Ausiliary	SAA	Type of action ausialiary regulator Set point ausialiary regulator	CL 0	0	Pr2	-55	150	°C	
Ausiliary	SHy	Differential for ausialiary regulator	4	2	Pr2	1	25	°C	2
Ausiliary	ArP	Select probe for ausialiary regulator	nP	пP	Pr2		-		-
Ausiliary	Sdd	Block regolator AUX during defrost	no	no	Pr2				
							1		
Alarm	ALC	Configuration alarms : relative / absolute	Ab	Ab	Pr2		£ 80	8	1
Alarm	ALU	Maximum alarm temperature 1	122	50	Pr1	-50	150	°C	7.
Marm	ALL	Low temperature alarm	-58	-50	Pr1	-55	50	°C	
Alarm	AFH	Differential for temperat. alarm recovery 1	4	2	Pr2	1	25	°C	
larm	ALd	Temperature alarm delay 1	60	60	Pr2	0	255	min	Ž.
Alarm	dAo	Delay of temperature alarm at start up 1	02:00	03:00	Pr2		-	hour	
Marm	AP2	Probe for temperat, alarm of condenser 2	nP	nP	Pr2		150	00	
larm larm	AL2 AU2	Alarm threshold of low temperature probe 2 Alarm threshold of high temperature probe 2	-67 230	-55 110	Pr2 Pr2	-55 -55	150 150	°C	
Alarm	AH2	Differential for temperature alarm probe 2	10	5	Pr2	1	25	°C	
larm	Ad2	Delay alarm temperature probe 2	120	120	Pr2	0	255	min	
larm	dA2	exclusion alarm temperature at power-on	02:00	02:00	Pr2		[B	hour	
Marm	bLL	Compressor block for per low temperature alarm 2	no	no	Pr2				
larm	AC2	Compressor block for per high temperature alarm 2	no	по	Pr2				
					- 8		8	3	è
Configuration	oA1	Configuration function exit AUX1	dEF	dEF	Pr2		2		
Configuration	oA2	Configuration function exit AUX2	Fan	FAn	Pr2			-	
Configuration	oA3	Configuration function exit AUX3	LiG	LiG	Pr2				
igital input	i1P	Polarity digital input	cL	cL	Pr1		s 52		
Digital Input	ifF	Function digital in	dor	dor	Pr1		9 9	-	
Digital input	did	Alarm delay from digital configurable in	255	255	Pr1	0	255	min	1
igital input	nPS	Numbers of action of preassure switch	15	15	Pr2	0	15		1
igital input	Odc	Open door control : fans and compressor	no	no	Pr2				
larm	rrd	Restart regulation with open door alarm	Yes	Yes	Pr2		1 8		
nergy Saving	HES	Temperature increasing at Energy Saving	0	0	Pr2	-30	30	°C	
Other	Adr	Serial address	1	1	Pr2	1	247		
robe	pbC	Select probe type	ntC	ntC	Pr1		3 77		
onfiguration	onF	Configuration button OFF	no	no	Pr2				
onfiguration	LPC	Configuration LIGHT function button	Lig	Lig	Pr2				
Hhor	dD4	Director probe P1		0	D-2				
ther	dP1	Display probe P1	0	0	Pr2		8	0	
other Other	dP2 dP3	Display probe P2 Display probe P3	0	0	Pr2 Pr2		-		
ther ther	dP3	Display probe P3 Display probe P4	0	0	Pr2		-		
ther	rSE	Display regulation set (SET + ES + SETd)	0	0	Pr2		1 2	4	
	rEL	Release firmware code (read only)	0	0	Pr2				
Other									

8. WIRING DIAGRAM

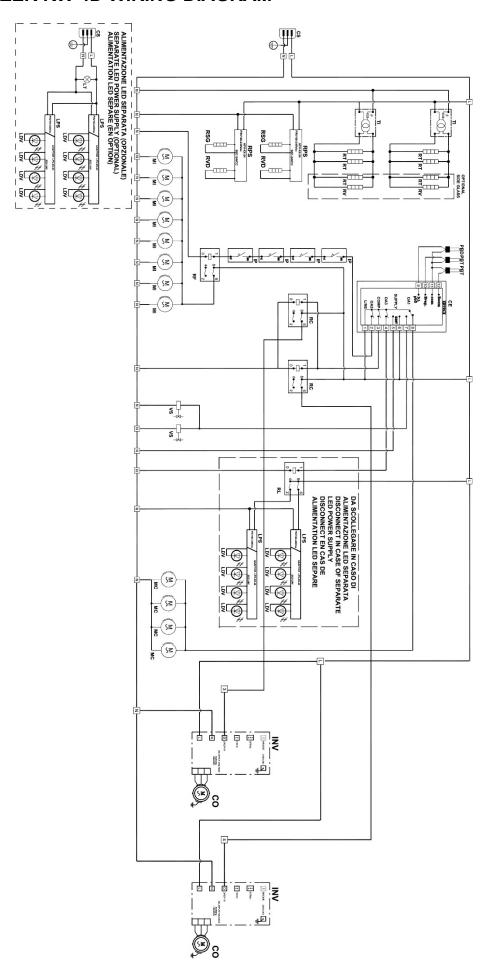
8.1 VALZER KW 2D WIRING DIAGRAM



8.2 VALZER KW 3D WIRING DIAGRAM



8.3 VALZER KW 4D WIRING DIAGRAM



8.4 WIRING DIAGRAM LEGEND

REF	DEVICE			
CE	ELECTRONIC CONTROL			
CO	COMPRESSOR			
CS	PLUG CABLE			
F	TRANSFORMER FUSE			
INV	LIGHT SWITCH			
IP	INTERNAL MOTOR FAN MICROSWITCH			
LDV	TANK INNER LED LIGHT			
LPS	LED POWER SUPPLY UNIT			
LT	SUPPLY LINE LED ALIGHT			
MC	CONDENSER MOTOR FAN			
MI	INNER MOTORISED FAN			
PBD	DEFROST END PROBE			
PBT	TEMPERATURE PROBE			
RC	COMPRESSOR RELAY			
RF	FAN RELAY			
RL	LED RELAY			
RPS	RESISTOR POWER SUPPLY UNIT			
RSG	WATER DRAINAGE RESISTOR			
RRC	RETARDED COMPRESSOR RELAY			
RT	DOOR RESISTOR			
RV	GLASS RESISTOR			
RVD	DECOMPRESSION VALVE RESISTANCE			
TI	ISOLATION TRANSFORMER			
VS	DEFROST VALVE			