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 **UPRIGHT CABINETS**  
instruction manual

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## COOLING AND FREEZING UPRIGHT CABINETS INSTRUCTION MANUAL

**Dear customers! Please read this manual thoroughly before operating the equipment!  
Following our instructions, you will ensure long and effective performance of the equipment.**

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**Dear customers! If you purchased our equipment on R290 refrigerant, please read carefully the instruction manual of the freezer.**

**Special precautionary instruction for equipment with refrigerant R290.**

**Fluorinated greenhouse gases are in a hermetically sealed system.** Any kind of works connected with refrigeration or electric systems shall be carried out by authorized service. There is no warranty responsibility for the repair by unauthorized persons.

- This equipment contains flammable and explosive refrigerant propane R290!
- Be sure to maintain a minimum distance of 10 cm from the walls of the equipment to the walls and surrounding objects. Make sure to provide proper air circulation for the equipment with combustible refrigerant!
- Do not close air inlets on the body frame of the equipment.
- Disconnect equipment from voltage before any maintenance operation.
- Any kind of works connected with refrigeration or electric systems shall be carried out by authorized service and personnel
- It is allowed to open refrigerant circulation circuit and pump it down only in well-ventilated areas or outside. Make sure that there are no people or animals around.
- Correct disposal of refrigerant propane R290 is a must!

**PRECAUTIONS**

- Make sure not to damage the refrigerant circulation circuit!
- Do not use mechanical or other means to accelerate defrosting process other than those authorized by the manufacturer.
- It is prohibited to put heating appliances inside the freezer.

The manufacturer reserves the right to modify product design for its performance improvement without prior notification of the customer. Product images are for illustrative purposes only and may differ from the actual product.

## 1. GENERAL INFORMATION

JUKA Upright Cabinets belong to professional cooling and freezing equipment and are designed for presentation, sales, and storage of refrigerated or frozen foodstuff in stores, supermarkets, pastries, cafes, and other catering establishments. Upright cabinets preserve the quality, safety, and taste of food. Operation temperature ranges inside JUKA Upright Cabinets:

### **Cooling Upright Cabinets:**

VD75G, VD70M +1°C / +10°C and SD70M +5°C / -5°C at ambient temperature +16°C / +35°C and relative humidity up to 75%;

VD75GA +1°C / +10°C at ambient temperature +16°C / +30°C and relative humidity up to 55%;

VG60G +2°C / +10°C and VD60G 0°C / +8°C at ambient temperature +16°C / +25°C and relative humidity up to 60%.

### **Freezing Upright Cabinets:**

ND75G, ND70M -12°C / -22°C at ambient temperature +16°C / +35°C and relative humidity up to 75%.

NG60G -12°C / -22°C at ambient temperature +16°C / +30°C and relative humidity up to 55%.

ND60G -14°C / -22°C at ambient temperature +16°C / +25°C and relative humidity up to 60%.

Upright cabinets are equipped with a built-in compressor, which is located at the top (SD70M, VD70M, ND70M, NG60G) and in the bottom (VD75G, ND75G, VD75GA, VD60G, VG60G, ND60G) part of a cabinet.

Cooling inside the cabinet is based on a system of dynamic airflow (models SD70M, VD70M, ND70M, VD75G, ND75G, VD75GA, VD60G, ND60G) or static cooling (NG60G, VG60G). Depending on the type of the upright cabinet, there are solid door and glass door units.

Depending on the model, upright cabinets have 2, 3, 4, 5 or 10 adjustable grid shelves.

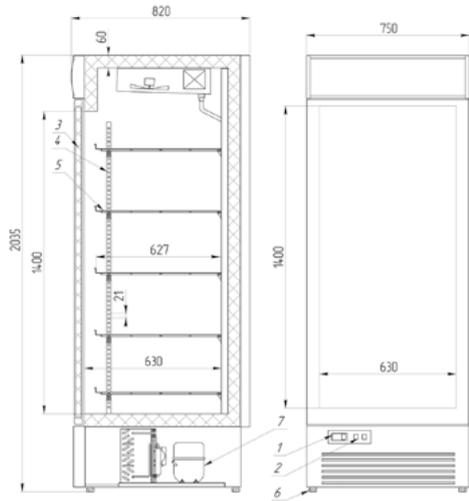
JUKA upright cabinets are manufactured following the latest technologies and comply with such standards as IEC 60335-2-89, IEC 60335-1, IEC 61000-6-3, IEC 61000-6-1.

### **Fluorinated greenhouse gases are in a hermetically sealed system.**

Equipment can be filled with refrigerant R290 (GWP 3), R600a (GWP 3), R404a (GWP 3922) or R452a (GWP 2140). Molecular formula of refrigerant R290 - C<sub>3</sub>H<sub>8</sub>. Molecular formula of refrigerant R600a - C<sub>4</sub>H<sub>10</sub>. Molecular formula of refrigerant R404a - CHF<sub>2</sub>CF<sub>3</sub>. Molecular formula of refrigerant R452a - CHF<sub>2</sub>CF<sub>3</sub>+CH<sub>2</sub>F<sub>2</sub>+C<sub>3</sub>H<sub>2</sub>F<sub>4</sub>.

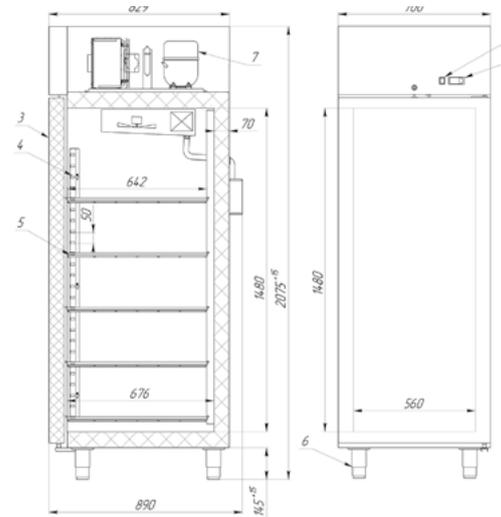


### Elements of the Construction:



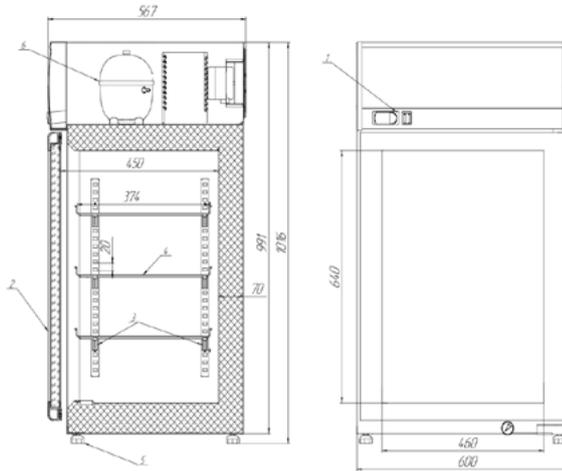
**Picture 1. Upright Cabinet VD75G, ND75G**

1. Electronic controller (temperature control).
2. Cabinet control panel (switches).
3. Cabinet door.
4. Shelf support.
5. Grid shelf
6. Levelling supports.
7. Compressor department.



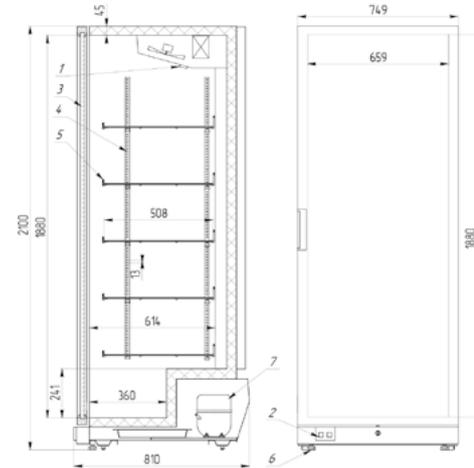
**Picture 2. Upright Cabinet SD70M, VD70M, ND70M**

1. Electronic controller (temperature control).
2. Cabinet control panel (switches).
3. Cabinet door.
4. Shelf support.
5. Grid shelf
6. Levelling supports.
7. Compressor department.



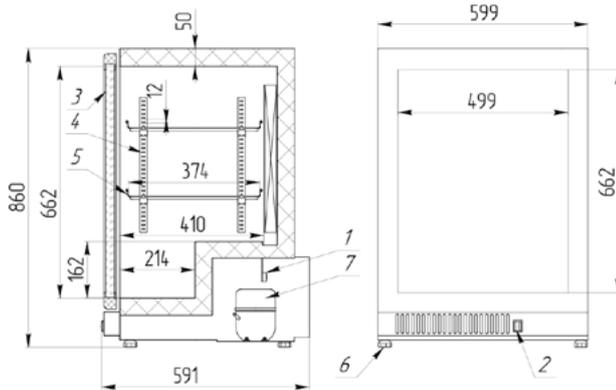
**Picture 3. Upright Cabinet NG60G**

1. Cabinet control panel (temperature control/switches).
2. Cabinet door.
3. Shelf support.
4. Grid shelf
5. Levelling supports.
6. Compressor department.



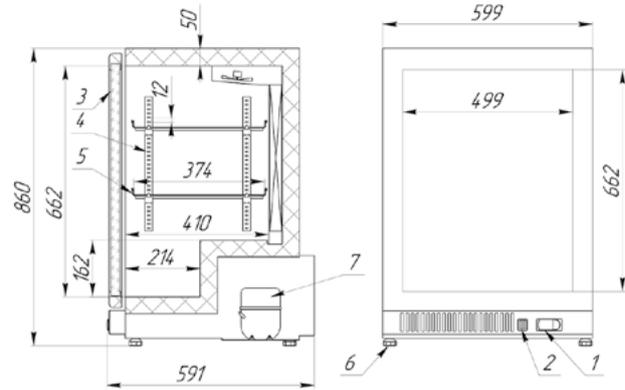
**Picture 4. Upright Cabinet VD75GA**

1. Electronic controller (temperature control).
2. Cabinet control panel (switches).
3. Cabinet door.
4. Shelf support.
5. Grid shelf
6. Levelling supports.
7. Compressor department.



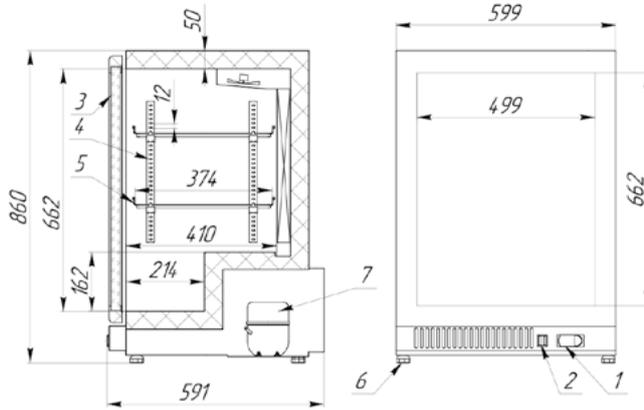
**Picture 5. Upright Cabinet VG60G**

1. Electronic controller (temperature control).
2. Cabinet control panel (switches).
3. Cabinet door.
4. Shelf support.
5. Grid shelf
6. Levelling supports.
7. Compressor department.



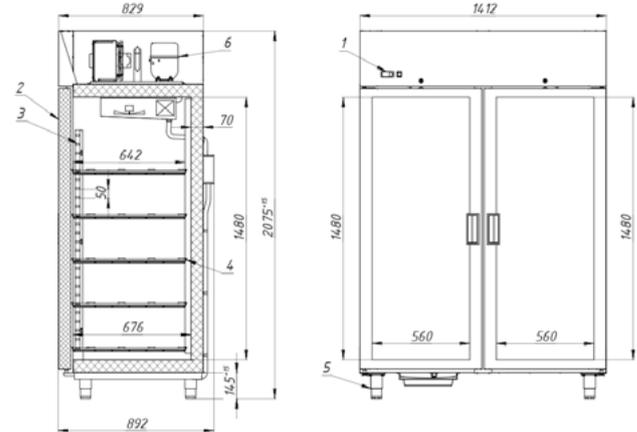
**Picture 6. Upright Cabinet VD60G**

1. Electronic controller (temperature control).
2. Cabinet control panel (switches).
3. Cabinet door.
4. Shelf support.
5. Grid shelf
6. Levelling supports.
7. Compressor department.



**Picture 7. Upright Cabinet ND60G**

1. Cabinet control panel (switches).
2. Cabinet door.
3. Shelf support.
4. Grid shelf
5. Levelling supports.
6. Compressor department.



**Picture 8. Upright Cabinet VD140M, ND140M**

1. Cabinet control panel (switches).
2. Cabinet door.
3. Shelf support.
4. Grid shelf
5. Levelling supports.
6. Compressor department.



## 2. TECHNICAL CHARACTERISTICS

Technical parameters	Unit.	SD70M		VD70M		ND70M		VD140M		ND140M		
Dimensions:		2075						2075				
Height	mm	700						1412				
Width		890						892				
Depth		563						1284				
Gross volume	dm <sup>3</sup>	460						920				
Net volume	dm <sup>3</sup>	121						180				
Upright cabinet net weight	kg	R452a	R404a	R452a	R404a	R452a	R404a	R452a	R404a	R452a	R404a	
Refrigerant type	-	0,27	0,27	0,27	0,27	0,27	0,27	0,55	0,55	0,5	0,5	
Refrigerant quantity	kg	0,58	1,06	0,58	1,06	0,58	1,06	1,18	2,16	1,07	1,96	
CO2 EQ	t	3,2		2,5		3,3		4,3		3,4		
Current consumption	A	6,0		3,0		8,5		4,8		13,9		
Electric power consumption	kW\ 24h	7										
Climate class		+16 ÷ +35										
Ambient temperature range	°C	-5 ÷ +5		+1 ÷ +10		-12 ÷ -22		+1 ÷ +10		-12 ÷ -22		
Operating temperature range	°C	220-240/50										
Voltage and current frequency	V/ Hz	electronic controller										
Temperature controller	-	dynamic										
Type of air movement		automatic										
Defrosting type		5						10				
Basic delivery set:		+										
grid shelves	pcs	70										
lock		30										
Thickness of isolation	mm											
Max. load on a grid shelf	kg											

Technical parameters	Unit.	VD75G		ND75G			VD75GA
Dimensions:							
Height	mm	2035		2035			2100
Width		750		750			749
Depth		820		820			810
Gross volume	dm <sup>3</sup>	590		590			749
Net volume	dm <sup>3</sup>	490		490			700
Upright cabinet net weight	kg	154		154			152
Refrigerant type	-	R452a	R404a	R452a	R404a	R290	R290
Refrigerant quantity	kg	0,27	0,27	0,27	0,27	0,12	0,05
CO2 EQ	t	0,58	1,06	0,58	1,06	0,00	0,00
Current consumption	A	2,5		3,6		3,3	2,3
Electric power consumption	kW\ 24h	6,0		10,0		11,0	3,52
Climate class		7					4
Ambient temperature range	°C	+16 ÷ +35					+16 ÷ +30
Operating temperature range	°C	+1 ÷ +10		-12 ÷ -22			+1 ÷ +10
Voltage and current frequency	V/ Hz	220-240/50					
Temperature controller	-	electronic controller					
Type of air movement		dynamic					
Defrosting type		automatic					
Basic delivery set:							
grid shelves	pcs	4					5
lock		-					+
Thickness of isolation	mm	60					45
Max. load on a grid shelf	kg	25					57



Technical parameters	Unit.	VG60G	VD60G	ND60G	NG60G		
Dimensions:							
Height	mm	860			1016		
Width		599			600		
Depth		591			567		
Gross volume	dm <sup>3</sup>	126			115		
Net volume	dm <sup>3</sup>	102	99		105		
Upright cabinet net weight	kg	52			52		
Refrigerant type	-	R600a		R290	R452a	R404a	R290
Refrigerant quantity	kg	0,037	0,043	0,043	0,15	0,15	0,065
CO2 EQ	t	0,00	0,00	0,00	0,32	0,59	0,00
Current consumption	A	0,7	0,8	1	1,94	1,94	1,6
Electric power consumption	kW\24h	1,6	2,2	4,0	6,0	6,0	4,9
Climate class		3			4		
Ambient temperature range	°C	+16 ÷ +25			+16 ÷ +30		
Operating temperature range	°C	+2 ÷ +10	0 ÷ +8	-14 ÷ -22	-12 ÷ -22		
Voltage and current frequency	V/ Hz	220-240/50					
Temperature controller	-	electromechanical	electronic controller				
Type of air movement		gravitational	dynamic		gravitational		
Defrosting type		automatic			manual		
Basic delivery set:							
grid shelves	pcs	2			3		
lock		-					
Thickness of isolation	mm	50			70		
Max. load on a grid shelf	kg	16			20		

### 3. TRANSPORTATION, INSTALLATION AND STARTUP

#### 3.1. Transportation

It is forbidden to transport the equipment in any position other than vertical. During transportation, the equipment must be properly secured and packed to prevent any movement or impact inside the vehicle, protected from the weather (direct sunlight, rain, snow, etc.). Manufacturer supplies upright cabinets protected by cardboard corners and film.

**ATTENTION! It is forbidden to connect upright cabinets to the power supply within at least 2 hours after it has been transported and installed.**

#### 3.2. Storage of the Equipment

Upright cabinets should be stored vertically. It is forbidden to store units under direct sunlight or influence any other atmospheric phenomena.

#### 3.3. Requirements to the Place of Operation

It is necessary to install the upright cabinet in a dry, ventilated room at the distance no less than 10 cm away from the nearest wall. There should be good airflow around the compressor unit. It is also necessary to install an upright cabinet away from any equipment source of heat and conditioners/ventilators.

The upright cabinet should be installed away from direct sunlight or any other atmospheric phenomena. Make sure that voltage and frequency in the electricity grid correspond to those recommended by the manufacturer.

#### 3.4. Installation

- Unpack the unit, remove the protective film and cardboard corners;
- Install the unit on a solid surface and adjust the horizontal position of the cabinet with the levelling supports.

**ATTENTION! Make sure to install the upright cabinet with the inclination of min. 20° degrees to the rear side.**

The cabinet is supplied to the buyer partially disassembled. After transportation and installation of the unit, please follow the next steps:

- I. Fix shelf holders in perforated rack straps.
- II. Place the grid shelves on the fixed holders.

The first cleaning of the unit should be done after unpacking and/or its first launching. For cleaning use only warm water (no more than 40°C) with neutral detergents. Do not use any cleaning agents that contain chlorine and sodium of different types as they can damage the protective layer and components of the unit. Any residue of adhesive or silicone on metal elements of the equipment should be removed only with extraction gasoline (it is not applied to plastic elements!). Do not use any other organic solvents!

**ATTENTION! Upright cabinet shall not be cleaned with a water jet, use only a damp cloth. After transporting and installation of the equipment, wait for about 2 hours before its launching.**

**ATTENTION! Make sure not to damage the refrigerant circulation circuit!**



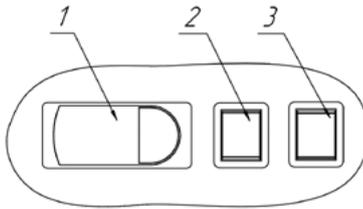
### 3.5. Connecting Electricity and Startup

The device should be connected to a separate, properly mounted electrical circuit with a grounding socket.

The system of the power supply must be maintained with automatic circuit breakers.

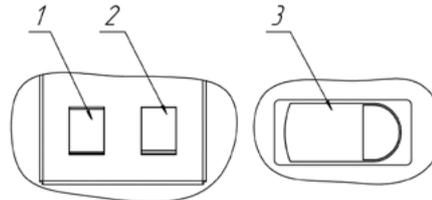
**ATTENTION! Strongly avoid connecting through extension cords!**

- When the plug is connected directly into the socket, you have to:
- Turn on the main switch
- Set on the temperature on the electronic controller`s display (except for Model VD60G where the temperature is regulated by the electromechanical thermostat)
- Turn on the lighting switch (if your model is equipped with internal lighting).



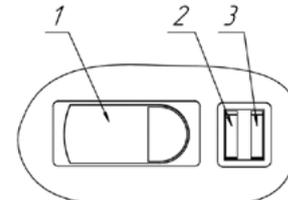
**Picture 9. Cabinet control panel, Models VD75G, ND75G**

1. Electronic control panel (temperature control);
2. Lighting switch ;
3. Main switch (turns on / off the unit).



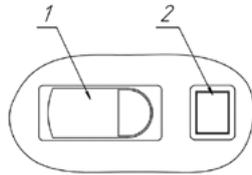
**Picture 10. Cabinet control panel, Model VD75GA**

1. Main switch (turns on / off the unit).
2. Lighting switch;
3. Electronic control panel (temperature control is located on a top panel inside the cabinet).



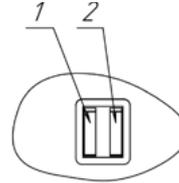
**Picture 11. Cabinet control panel, Models NG60G, ND60G, VD60G**

1. Electronic control panel (temperature control);
2. Lighting switch;
3. Main switch (turns on/off the unit).



**Picture 12. Cabinet control panel, Models SD70M, VD70M, ND70M, VD140M, ND140M**

1. Electronic control panel (temperature control);
2. Main switch (turns on / off the unit).



**Picture 13. Cabinet control panel, Model VG60G**

1. Lighting switch;
2. Main switch (turns on/off the unit).

## 4. OPERATION

### 4.1. Operation Requirements

The temperature inside the refrigerated compartment of the cabinet and its operation cycles may vary due to different reasons (such as the temperature of refrigerated foodstuff, the ambient temperature in the premises, door opening frequency, etc.).

**Upright cabinets are designed for operation only in the particular climate class! The manufacturer is not responsible for the normal operation of the unit in the climate class, other than specified in the technical characteristics (indicated on the data plate).**

- To ensure proper and long-lasting operation of JUKA Upright Cabinets, please follow the recommendations indicated below:
- After transporting the equipment, wait for about 2 hours before its launching
- The counter should be installed away from direct sunlight
- Before stocking the unit with refrigerated products, wait until the desired temperature is reached
- Do not place warm or hot products inside the upright cabinet
- Do not store beverages in bottles and cans, especially carbonated beverages, in the freezer chamber. The cans and the bottles may explode.
- Do not store explosive substances, such as flammable aerosol cans, inside the unit
- During the day it is not allowed to place more products in the chamber of the unit than its freezing capacity can handle
- To ensure proper storage conditions, please avoid full loading of the grid shelves
- To prevent the packaging from freezing, dry it thoroughly before placing it in the appliance.
- Do not block the ventilation openings inside the freezer as it may prevent your appliance from functioning properly.
- Keep the condenser clean. The buyer should periodically perform technical maintenance to avoid malfunctions and/or unsatisfying operations of the cabinet.
- After closing the doors, do not try to use force to open them. The cooling of the gas causes a reduction in pressure inside the freezer, resulting in a partial vacuum that makes the door more difficult to open. In 1 – 2 minutes pressure equalizes and the door becomes easier to open.
- Please avoid unnecessary openings of the door, as well as do not leave the door open for a long time.



## 4.2. Temperature Settings

Controller is a device used to set and maintain a desired temperature inside the upright cabinet. The manufacturer sets all necessary settings of the electronic controller for the normal operation of the unit. Before start-up, the buyer should check and, if needed, set the temperature on the electronic controller display. The display of the electronic controller shows the actual temperature inside the equipment.

**ATTENTION! Do not interfere with the system parameters of the electronic controller as it may cause serious consequences and can lead to failure of the equipment.**

### 4.3. Electronic controller CAREL

#### 4.3.1. Light signals on the electronic controller's display:

**Diode a - Compressor:** The symbol is visible during operation of the compressor. It is blinking when compressor start is delayed by security procedure.

**Diode b - Fan:** the symbol is visible when the fans are on. It is blinking when the fan start is delayed by an external disengagement or when another procedure is in progress.

**Diode c - Defrosting:** the symbol is visible when the defrosting function is turned on. It is blinking when defrosting start is delayed by external disengagement or when another procedure is in progress.

**Diode d - Alarm:** the symbol is visible when the alarm is activated.

**Diode e - the temperature inside** the equipment is displayed.

#### 4.3.2. Setting of the Temperature

To change the settings of the temperature you have to:

1. Push the button **2** - the screen will show "SET"; hold for 1 second and blinking temperature value will be displayed;
2. Increase or decrease the temperature by pressing buttons **1** or **3**;
3. Push the button **2** again, to set a new temperature.

#### 4.3.3. Additional Defrosting

The device operates in the mode of automatic defrosting in 5-6 hours interval. If you noticed incomplete defrosting, complete the manual defrost. If you notice an incomplete defrost, then manual defrost must be performed, by pressing button **3** and holding it for 3 seconds (a defrost symbol will appear on the display). The system will automatically finish defrosting of the evaporator and continue its operation.

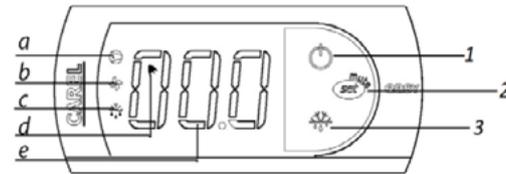
#### 4.3.4. Warning Signals:

„E0” - malfunction of temperature sensor

„E1” - malfunction of defrost sensor

„cht” - warning signal indicating that condenser is dirt

„CHt” - alarm of a dirty condenser.



Picture 14. Electronic controller CAREL

#### 4.4. Electronic controller EVCO

##### 4.4.1. Light Signals on the Electronic Controller's Display:

**Diode a – Compressor:** The symbol is visible during operation of the compressor. It is blinking when modification process is ongoing or in case when compressor operation is protected by security procedure.

**Diode b – Defrosting:** the symbol is visible when the defrosting function is turned on. It is blinking when defrosting start is delayed by external disengagement or when another procedure is in progress.

**Diode c – Celsius temperature scale.** The symbol is visible when temperature is set in degrees Celsius.

**Diode d – Fahrenheit temperature scale.** The symbol is visible when temperature is set in degrees Fahrenheit.

**Diode f – temperature inside the cabinet.**

During operation the display of the controller shows the actual temperature inside the equipment.

##### • Locking/unlocking of the controller keypad

The controller keypad is automatically locked in 30 seconds after the last pressure of the button - the «Loc» code is displayed for 1 second. To unlock press any button while holding it for 4 seconds - «UnL» code will be displayed for 4 seconds.

##### • Turning on/off of the equipment

Ensure that the keypad is not locked, unlock if necessary. To turn the equipment on/off press the button and |  | hold for 4 seconds - the indicator will blink, after this the equipment will be switched on / off.

When voltage is supplied, the red switch must light up (switch is equipped with light diodes, so when the voltage is supplied, it must light up).

##### 4.4.2. Setting of the Temperature

- make sure the keypad is not locked, unlock if necessary
- briefly press the button |  |, indicator (  ) will start to blink;
- using the buttons |   | and |  | set the required tempera;
- briefly press the button |  | to confirm or do nothing within 15 seconds - the indicator (  ) will stop blinking, the controller completes the setup process (all changes will be saved).

##### 4.4.3. Warning Signals

„Pr1” - malfunction of temperature sensor

„Pr2” - malfunction of defrost sensor

„COH” - warning signal indicating that condenser is dirt and overheated;

„dFd” - defrosting process is finished.



Picture 15. Electronic controller EVCO



## 4.5. Electronic controller Dixell

### 4.5.1. Display

1. Defrost;

2. Compressor operation;

3. Evaporator fan operation (in some models it signals condenser fan operation)

4. Temperature display.

The blinking indicator value indicates a program delay.

### 4.5.2. Checking the set temperature.

- Press the SET key (8) for a moment, then the set temperature will be shown on the display;
- Press the SET key (8) briefly, or wait 5 seconds to return to the normal display.

4.5.3. Changing the temperature. To change the set values:

- Press the SET key(8) for more than 2 seconds. The set temperature value will be displayed and the «°C» or «°F» indication will blink;
- To change the temperature, press the keys  (5) and  (6) for 10 seconds;
- To confirm the new value, press SET (8) or do not press the keys for 10 seconds.

### 4.5.4. Manual defrost request (if provided by the manufacturer).

- Press the key  (7) for more than 3 seconds, then the defrost will start, which is signaled by the indication.

### 4.5.5. List of alarms.

**dA** - open doors alarm: When the door is opened, the controller starts counting down the time, blocking the operation of the air cooler fan. After this time expires, the alarm is started and the «dA», signal is blinking on the display, during which the fan operation is restored. The alarm is reset automatically, when the doors are closed.

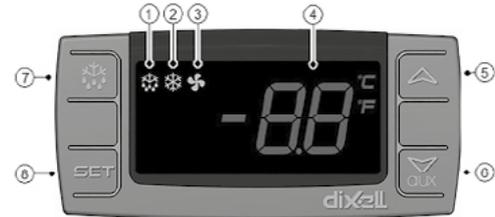
**P1** - chamber temperature sensor failure; **P2** - evaporator temperature sensor failure;

**HA** - high temperature in the chamber: indicates too high temperature in the chamber and may indicate equipment malfunction. The alarm turns off automatically, when it returns to normal operation.

**LA** - low temperature in the chamber: indicates too low temperature in the chamber and may indicate an equipment malfunction. The alarm turns off automatically when returning to normal operation.

**ATTENTION! Failure to comply with the recommendations regarding connection and operation of the equipment will void the warranty.**

The manufacturer reserves the right to modify product design for its performance improvement without prior notification of the customer. Product images are for illustrative purposes only and may differ from the actual product.



Picture 16 Electronic controller Dixell electronic controller

## 5. MAINTENANCE

### 5.1. Cleaning and Maintenance

**ATTENTION! All maintenance services should be carried out after the device is disconnected from the voltage!**

Make sure not to damage the temperature controller and other electric parts during the cleaning and maintenance of the unit.

It is recommended to switch off the unit at least once a month to conduct internal cleaning, condenser maintenance, defrosting procedures and check the door seals.

#### 5.1.1. Cabinet Cleaning

**During the cleaning of the upright cabinet, please AVOID TO USE the following objects:**

- any sharp objects for cleaning of the surfaces;
- any mechanical objects to speed up the process of defrosting;
- appliance shall not be cleaned with a water jet, use a damp cloth.

#### 5.1.2. Defrosting of the Evaporator

The upright cabinet is equipped with a system of automatic defrosting of the evaporator - with an interval of 8 hours. In the case of incomplete defrosting, this should be done manually.

#### 5.1.3. Condenser Maintenance

The user should periodically check the condition of the condenser. The ingoing and outgoing air openings of the condenser must not be blocked by objects. A dirty condenser leads to reduced cooling capacity, overheating of the refrigeration unit and even damage to the compressor.

**ATTENTION! The condenser needs to be cleaned at least once a month.**

Clean the condenser fins with a soft brush or paintbrush. To do that:

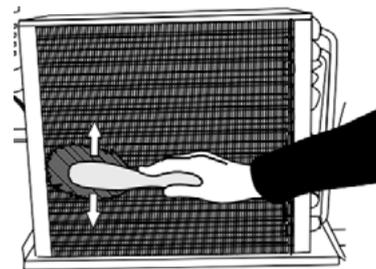
- 1) Disconnect the device from the power source;
- 2) Remove the protective grill covering the unit;
- 3) Using a soft brush, clean the condenser from dust, remnants of the package, etc. (Pic. 16);
- 4) After cleaning, place the protective grill in reverse order.

In case of dirty condenser (dust between the condenser fins) it is recommended to use an air compressor or compressed nitrogen to blow out the contaminants between the fins.

The compressor is equipped with an internal backup (thermal) switch, which protects the engine from accidental overloads. If you hear unnatural, loud operation or the heavy start of the compressor, switch off the appliance, check the condition of the condenser (in case of pollution - clean it).

**WARNING! Failure to perform this service can result in a complicated starting of the compressor, the operation of the unit, the overheating of the compressor and, consequently, deterioration of the cooling efficiency.**

**The manufacturer is not responsible for damage to the unit that arose as a result of noncompliance with the purity of the condenser!**



Picture 17. Cleaning the condenser



#### 5.1.4. Door Seal

The door seal should be cleaned regularly with clean water without detergents, and then wiped dry with a soft cloth. Please make sure that the cabinet door close properly after cleaning. To check the state of the door seal place a sheet of paper between the seal and the cabinet body and close the door. When you try to pull out the paper, you should feel moderate resistance.

#### 5.1.5. Other Terms and Conditions

Metal parts of the equipment can corrode in case of improper use and maintenance. To prevent corrosion of the metal parts, please:

- Do not use any cleaning agents that contain chlorine and sodium of different types as they can damage the protective layer and parts of the unit (including different types of stainless steel).
- During cleaning and maintenance of the equipment, please make sure not to damage the data plate of the unit. The data plate contains useful product-specific data.

## 6. FAULT IDENTIFICATION AND REPAIR

In case of any problems during the startup of the equipment or its operation, it is necessary to return to those sections of the service manual that explain their operations. This aims to ensure that the device is properly operated. If you still experience difficulties, the following hints will help you solve the problem.

### × **The equipment does not work:**

*Make sure that:*

- The device is connected to an electrical power supply
- Voltage and frequency in the network corresponds to those recommended by the manufacturer 220 V / 50 Hz
- The main switch is turned on
- The controller is switched on

### × **Water leakage under the device or into the chamber:**

*Make sure that:*

- Verify the correctness of device levelling
- Verify the patency of outlet hoses
- Empty the condensate tray or container

### × **Damage to the power cord:**

- In case of damage to the power cord in order to avoid danger its replacement must be carried out by a manufacturer, service department or similarly qualified personnel. In case of power cord replacement by unauthorized persons **WARRANTY CAN BE VOIDED!**

### × **The device is operating, the lighting is switched off...**

*Make sure that:*

- The lighting switch is on
  - Fluorescent lamp or the starter of the device are not burnt
  - × **Equipment does not reach the appropriate temperature, the lighting is on:**
    - Make sure that:*
    - The main switch is turned on
    - The temperature setting on the controller is set correctly
    - The controller is operating properly
    - The condenser is not filthy, and clean it when necessary
    - The ambient temperature does not exceed 35 °
    - Enough time has passed for products to be cooled
    - The cabinet does not have too many products and does not exceed the maximum freezing capacity
    - The door hardware closes correctly and the sealant is adjacent to the hardware case
    - Check that the ventilation openings are not blocked
    - Check whether the evaporator is not flooded. If necessary, complete preventive defrosting of equipment, pre-shifting the products to another location with the appropriate mode.
  - × **The equipment is working too loud:**
    - Make sure that:*
    - The device is standing stably and is properly levelled
    - Furniture adjoining the device do not vibrate when the compressor is working
    - Internal elements have been properly mounted
  - × **Dirty condenser alarms (cht, CHt):**
    - cht** - pre-alarm indicating that condenser is dirt. cht is shown on the display, alternating with the current temperature while cabinet operates normally. The alarm will be reset when temperature is normalized.
    - CHt** - dirty condenser alarm. Alarm indicates that condenser is dirty and the condenser temperature is high. CHt switch off the compressor and switch on the alarm (to reset the alarm press «SET»). CHt is shown on the display, alternating with cht and the current temperature.
- WARNING! The “CHt” alarm can only be reset manually by switching the unit off (on power-up, if the temperature is still above the normal, the alarm will go on again).**
- dor** - door alarm. When the door is opened, the controller will start counting the pre-alarm time and block operation of the ventilator. When time is over, the alarm will be activated immediately and the display will show “dor” alternating with the temperature reading. Ventilator resumes its operation. The alarm will be reset when the door is closed.
- («CAREL» controller only) Signs E0/E1/L0/HI/EE/Ed/DF on the electronic controller` s display:



- E0 – damage to the temperature sensor inside the cabinet – please contact authorized technical service center;
- E1 - damage to the evaporator sensor - please contact authorized technical service center.

**ATTENTION! The normal operation of your refrigerator will cause some sound. Upright cabinets have built-in ventilators, engines and compressor, which are turned on/off automatically. Each compressor during operation creates a certain noise. This noise is created by the engine of the unit and the moving refrigerant. This phenomenon is a technical feature of refrigeration equipment and is not a sign of malfunction. Moisture on the glass door of the cabinet at a high relative humidity (more than 60%) is a natural phenomenon and does not require a call to the service centre!**

If after verifying the items described in this section the equipment does not work properly, you should contact JUKA technical service, indicating the data from the data plate of the device.

**JUKA Service phone number: +38 (097) 524 84 11**

**e-mail:service@juka.ua**

## **7. DISPOSAL OF EQUIPMENT**

In case the equipment no longer serves a useful purpose, it should be disposed of. The disposal of this equipment must comply with the national regulations on the disposal of waste. It is strongly recommended to contact certified recycle companies to dispose JUKA equipment in accordance with local and international regulations.

**ATTENTION! ALL OPERATIONS REGARDING TRANSPORTATION AND DISPOSAL OF WASTE SHOULD BE CARRIED OUT BY AUTHORIZED COMPANIES AND PERSONNEL.**

**ATTENTION!**

A warranty card is an integral part of the equipment and should always accompany the product.

This warranty is a legal obligation of the seller and the service centre to undertake the responsibility to rectify defects caused by the manufacturer free of charge during the warranty period. All warranty claims should include: model number of the unit, the serial number of the cabinet, proof of purchase with the date of sale and clear seller's stamp.

**Warranty claims can be denied in these cases:**

- information about the equipment in the warranty card is not full or differs from the information, indicated on the equipment, buyer's sign is absent;
- wrong installation, transportation, improper use and maintenance service of a compressor by buyer (please see Instruction Manual);
- improper usage or installation or failure to clean and/or maintain the product as outlined in the Instruction Manual;
- any mechanical damages which could lead to improper operation or equipment failure;
- violation of instructions recommendations during the operation of equipment or because of wrong user actions;
- if there has been any disaster or in other standard insurance cases, which led to an inability to use the equipment (flood, fire, accident etc.) and in any other circumstances, which are not under seller's or manufacturer's control;
- in cases of detecting any signs of liquids, insects or other similar problems which led to the problem of normal operation;
- non-qualified repair or any constructive changes of the system by unauthorized persons;
- there is no warranty responsibility for the repair or replacement of failed or damaged components resulting from the incorrect supply voltage, the use of extensions cords, low voltage, or unstable supply voltage.

**WARRANTY DOES NOT COVER** periodical maintenance, installation, set up of the equipment, and cable change.

Warranty does not cover standard wear parts or parts which are considered as consumables by the standards of the manufacturer, such as lamps, glass, plastic (handles etc.), rubber, locks, wheels etc.

This warranty does not narrow the buyer's legal rights, which are determined by law.

Seller assumes no responsibility and will accept no claims nor any charges in connection with any repairs of a non-warranty case. Buyer must reimburse the service for labour, travel costs and other related expenses of non-warranty repairs by his own cost.

## Warranty card

Product and model \_\_\_\_\_

Date of sale \_\_\_\_\_

Serial number \_\_\_\_\_

Warranty period \_\_\_\_\_

**The buyer confirms the technical serviceability of the product/**

\_\_\_\_\_  
Seller's signature

\_\_\_\_\_  
Buyer's signature



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