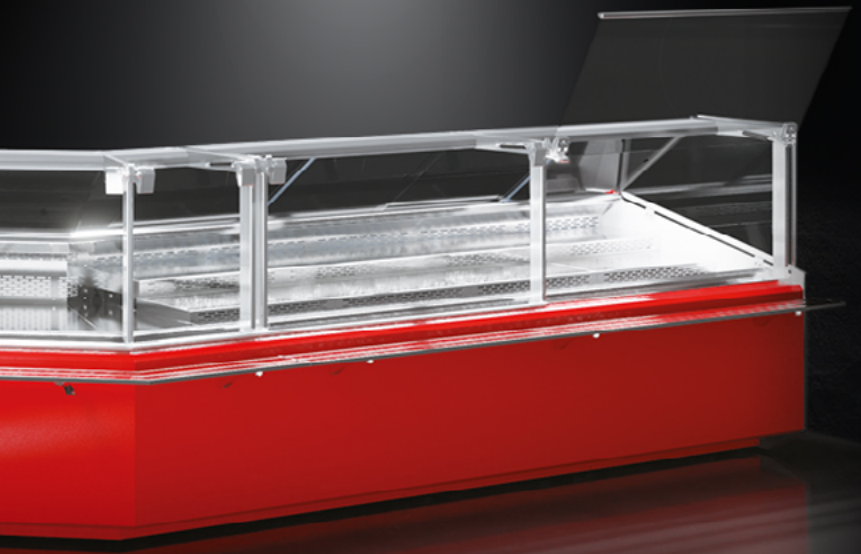


DISPLAY COUNTERS
instruction manual

JUKA®

Refrigerated Displays 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.

CONTENT

1. GENERAL INFORMATION

JUKA Refrigerated Displays **SGL/VGL/FGL/FDI** – belong to professional cooling and freezing equipment and are designed for presentation, sales, and storage of refrigerated or frozen foodstuff.

Refrigerated Displays of **SGL/VGL/FGL/FDI** Models belong to middle-temeperature displays with dynamic cooling and comply with such standards as IEC 60335-2-24, IEC 61000-6-3, IEC 61000-6-1

Fluorinated greenhouse gases are in a hermetically sealed system.

Equipment can be filled with refrigerant R404a (GWP3922) or R452a (GWP 2140). Molecular formula of refrigerant R404a - CHF2CF3. Molecular formula of refrigerant R452a - CHF2CF3+CH2F2+C3H2F4.

Refrigerated Displays SGL consists of two compartments:

- display compartment - operating temperature range -2°C to + 8°C; at ambient temperature no higher than + 25 °C and relative humidity up to 60%;
- storage chamber – operating temperature range - 2°C to + 8°C.

Refrigerated Displays VGL consists of two compartments:

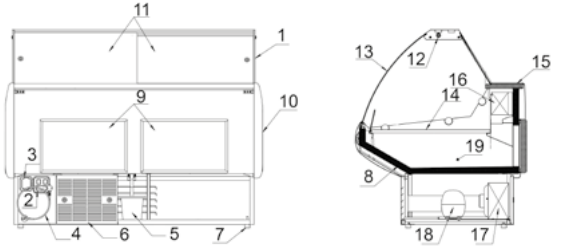
- display compartment - operating temperature range +2°C to + 8°C; at ambient temperature no higher than + 25 °C and relative humidity up to 60%;
- storage chamber - operating temperature range +2°C to + 8°C.

Refrigerated Displays FGL consists of two compartments:

- display compartment - operating temperature range -2°C to + 8°C; at ambient temperature no higher than + 25 °C and relative humidity up to 60%;
- storage chamber - operating temperature range -2°C to +8°C.

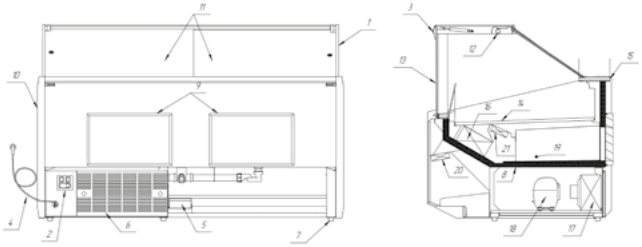
Refrigerated Displays FDI consists of two compartments:

- display compartment - operating temperature range -2°C to + 8°C; at ambient temperature no higher than + 25 °C and relative humidity up to 60%;
- storage chamber - operating temperature range -2°C to +8°C.



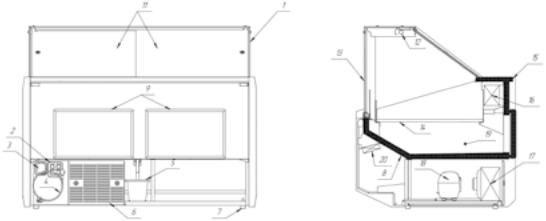
Picture 1. Constructive elements of SGL/VGL Models

1 - side glass;
2 - control panel;
3 - socket;
4 - power cable;
5 - condensate drain pan;
6 - protective grill;
7 - levelling support;
8 - body;
9 - storage chamber doors;
10 - side panel;
11 - sliding doors;
12 - lighting;
13 - frontal glass;
14 - display shelf;
15 - seller shelf;
16 - evaporator;
17 - condenser;
18 - compressor;
19 - storage chamber.



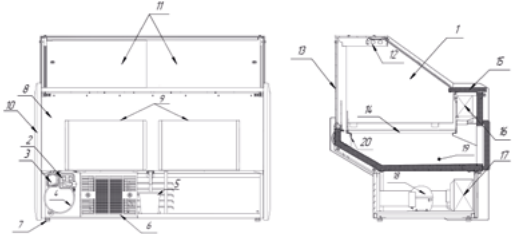
Picture 2. Constructive elements of FDI Models

1 - side glass;
2 - control panel;
3 - lifting mechanism;
4 - power cable;
5 - condensate drain pan;
6 - protective grill;
7 - levelling support;
8 - body;
9 - storage chamber doors;
10 - side panel;
11 - sliding doors;
12 - lighting;
13 - frontal glass;
14 - display shelf;
15 - seller shelf;
16 - evaporator;
17 - condenser;
18 - compressor;
19 - storage chamber;
20 - fan of the frontal glass airflow;
21 - evaporator fan.



Picture 3. Constructive elements of FGL Models (restyled)

1 - side glass;
2 - control panel;
3 - socket;
4 - power cable;
5 - condensate drain pan;
6 - protective grill;
7 - levelling support;
8 - body;
9 - storage chamber doors;
10 - side panel;
11 - sliding doors;
12 - lighting;
13 - frontal glass;
14 - display shelf;
15 - seller shelf;
16 - evaporator;
17 - condenser;
18 - compressor;
19 - storage chamber.
20 - fan of the frontal glass airflow.



Picture 4. Constructive elements of FGL Models

1 - side glass;
2 - control panel;
3 - socket;
4 - power cable;
5 - condensate drain pan;
6 - protective grill;
7 - levelling support;
8 - body;
9 - storage chamber doors;
10 - side panel;
11 - sliding doors;
12 - lighting;
13 - frontal glass;
14 - display shelf;
15 - seller shelf;
16 - evaporator;
17 - condenser;
18 - compressor;
19 - storage chamber.

2. TECHNICAL CHARACTERISTICS

Model of Refrigerated Displays		SGL130/ SGL130A*			SGL160/ SGL160A*			SGL 190/ SGL 190A*			SGL 260/ SGL260A*			VGL130/ VGL130A*			VGL160/ VGL160A*			VGL190/ VGL190A*		
Width without side panels	mm	1200			1500			1800			2500			1200			1500			1800		
Width with side panels	mm	1300			1600			1900			2600			1300			1600			1900		
Depth	mm	1120												1120								
Height	mm	1250			1250			1250			1250			1250			1250			1250		
Display Area of Glass Shelf**	m^2	0,30			0,38			0,45			-			0,30			0,38			0,45		
Display Area	m^2	0,88			1,11			1,33			1,83			0,88			1,11			1,33		
Volume of storage box	l	200			250			300			425			200			250			300		
Net weight	kg	125			150			167			239			125			150			167		
Refrigerant		R452a	R404a	R290	R452a	R404a	R290	R452a	R404a	R290	R452a	R404a	R290	R452a	R404a	R290	R452a	R404a	R290	R452a	R404a	R290
Quantity of refrigerant	kg	0,2	0,2	0,11	0,25	0,25	0,11	0,3	0,3	0,13	0,3	0,3	0,15	0,2	0,2	0,11	0,25	0,25	0,11	0,3	0,3	0,13
CO2 EQ	t	0,43	0,78	0,00	0,54	0,98	0,00	0,64	1,18	0,00	0,73	1,33	0,00	0,43	0,78	0,00	0,54	0,98	0,00	0,64	1,18	0,00
Current consumption	A	2,7	2,7	1,3	2,7	2,7	1,3	3,1	3,1	1,8	3,4	3,4	2,5	2,7	2,7	1,1	2,7	2,7	1,3	3,1	3,1	1,8
Electric power consumption (at 25°C)	kW\ 24h	4,2	4,2	4,1	5,8	5,8	4,5	6,6	6,6	5,3	10	10	8,5	4,2	4,2	3,3	5,8	5,8	3,6	6,6	6,6	4,4
Operating temperature range	°C	-2...+8												+2...+8								
Climate class		3																				
Ambient temperature range	°C	+16...+25																				
Voltage / Frequency	V/Hz	220-240/50																				
Type of air movement		gravitational																				
Type of defrosting		automatic																				

* The external design of refrigerated displays of «SGL A» and «VGL A» models may differ slightly depending on additional options installed (gas lifts).

** Additional option included in the package only when customer orders additional options.

Model of Refrigerated Displays		**FGL130/ FGL130A***			**FGL160/ FGL160A***			**FGL190/ FGL190A***			**FGL260/ FGL260A***			**FGL130 (restyling)/ FGL130 (restyling)A***			**FGL160 (restyling)/ FGL160 (restyling)A***			**FGL 190 (restyling)/ FGL 190 (restyling)A***			**FGL260 (restyling)/ FGL260 (restyling)A***		
Width without side panels	mm	1200			1500			1800			2500			1200			1500			1800			2500		
Width with side panels	mm	1300			1600			1900			2600			1300			1600			1900			2600		
Depth	mm	1110												1130											
Height	mm	1250												1250											
Display Area	m^2	0,88			1,10			1,32			1,83			0,88			1,10			1,32			1,83		
Volume of storage box	l	200			250			300			425			200			250			300			425		
Net weight	kg	140			165			183			254			140			165			183			254		
Refrigerant		R452a	R404a	R290	R452a	R404a	R290	R452a	R404a	R290	R452a	R404a	R290	R452a	R404a	R290	R452a	R404a	R290	R452a	R404a	R290	R452a	R404a	R290
Quantity of refrigerant	kg	0,2	0,2	0,11	0,25	0,25	0,11	0,3	0,3	0,13	0,34	0,34	0,15	0,2	0,2	0,11	0,25	0,25	0,11	0,3	0,3	0,13	0,34	0,34	0,15
CO2 EQ	t	0,43	0,78	0,00	0,54	0,98	0,00	0,64	1,18	0,00	0,73	1,33	0,00	0,43	0,78	0,00	0,54	0,98	0,00	0,64	1,18	0,00	0,73	1,33	0,00
Current consumption	A	2,7	2,7	1,3	2,7	2,7	1,3	3,1	3,1	1,8	3,4	3,4	2,5	2,7	2,7	1,3	2,7	2,7	1,3	3,1	3,1	1,8	3,4	3,4	2,5
Electric power consumption (at 25°C)	kW\ 24h	4,2	4,2	4,1	5,8	5,8	4,5	6,6	6,6	5,3	10,0	10,0	8,5	4,2	4,2	4,1	5,8	5,8	4,5	6,6	6,6	5,3	10,0	10,0	8,5
Operating temperature range	°C	-2...+8																							
Climate class		3																							
Ambient temperature range	°C	+16...+25																							
Voltage / Frequency	V/ Hz	220-240/50																							
Type of air movement		gravitational																							
Type of defrosting		automatic																							

* The external design of refrigerated displays of FGL A models may differ slightly depending on additional options installed (gas lifts).

Model of Refrigerated Displays		FDI160A		FDI190A		FDI260A		FDI E	
Width without side panels	mm	1500		1875		2500		2120	
Width with side panels	mm	1600		1975		2600		2220	
Depth	mm	1195						1240	
Height	mm	1255						1255	
Display Area	m^2	1,35		1,69		2,25		1,26	
Volume of storage box	l	170		210		280		-	
Net weight	kg	197		234		299		206	
Refrigerant		R452a	R404a	R452a	R404a	R452a	R404a	R452a	R404a
Quantity of refrigerant	kg	1,3	1,3	1,7	1,7	2,1	2,1	0,45	0,45
CO2 EQ	t	2,78	5,10	3,64	6,67	4,49	8,24	0,96	1,76
Current consumption	A	2,3	2,3	2,8	2,8	3,7	3,7	2,0	2,0
Electric power consumption (at 25°C)	kW\24h	8,2	8,2	9,9	9,9	12,2	12,2	7,8	7,8
Operating temperature range	°C	0...+8							
Climate class		3							
Ambient temperature range	°C	+16...+25							
Voltage / Frequency	V/Hz	220-240/50							
Type of air movement		dynamic							
Type of defrosting		automatic							

3. TRANSPORTATION, INSTALLATION AND STARTUP

3.1. Transportation

It is forbidden to transport the equipment in any position other than its working position. During transportation, the equipment must be properly secured and packed.

3.2. Storage of the Equipment

Refrigerated Displays should be stored in a working position. It is forbidden to store units under direct sunlight or influence any other atmospheric phenomena (rain, snow, etc.).

3.3. Requirements to the Place of Operation

Place of installation should have proper environmental conditions:

- ambient temperature range should be +16°C...+25°C;
- relative humidity inside the premises must not exceed 60%.

3.4. Installation

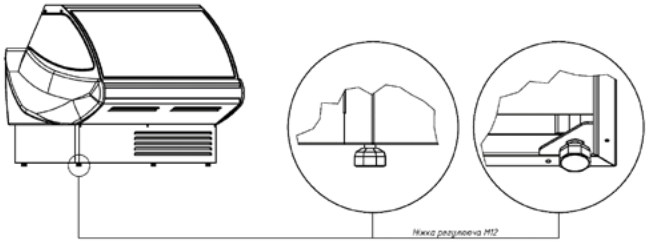
The appliance after unpacking should be carefully installed directly in final location (in the place of further operation). There should be a good airflow around the compressor/condensing unit, guiding openings should also be free of any foreign objects.

ATTENTION! When the access of air to the condenser is blocked, the temperature, and as a result, the pressure in the system will increase. This may cause system malfunction and display failure.

After installation of the display in the place of further operation, it is necessary to ensure its horizontal location with the help of the adjustable legs. Rotate legs into existing leg leveler holes to the level required for horizontal installation of the pastry counter.

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! Refrigerated Display 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.



Picture 5. Levelling legs

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

3.5. Connecting Electricity and Startup

ATTENTION! After transporting and installation of the equipment, wait for about 2 hours before its launching.

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. Strongly avoid connecting through extension cords.

ATTENTION! Extension cords can pose a real risk of injury, short circuit, or fire.

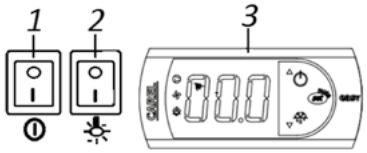
Before connecting the unit to the power supply, make sure that the switches on the control panel are in the O - «OFF» position. When voltage is supplied, the switches must light up (switches are equipped with light diodes, so when the voltage is supplied, they must light up).

ATTENTION! If switches do not respond to the connection of power supply, turn off the device and contact the service centre.

Turn on the red switch (main switch) to the I «ON» position. A light signal will be given on the control panel. After a few minutes, the system will start to operate. A green switch turns lighting inside the pastry counter.

ATTENTION! The first filling of the display should be performed after its previous cooling to working temperature. While the system is cooling to its usual operation temperature, sliding doors and front glass should be properly closed.

It is allowed to use the display only after reaching of the operation temperature inside the refrigeration area



Picture 6. Control panel

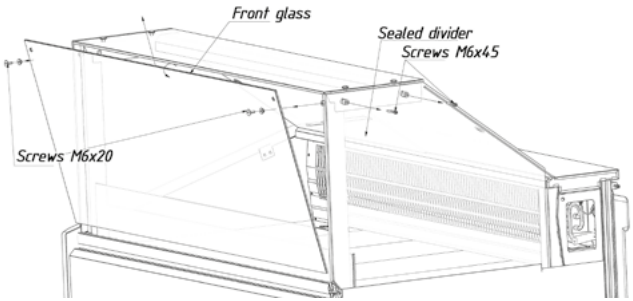
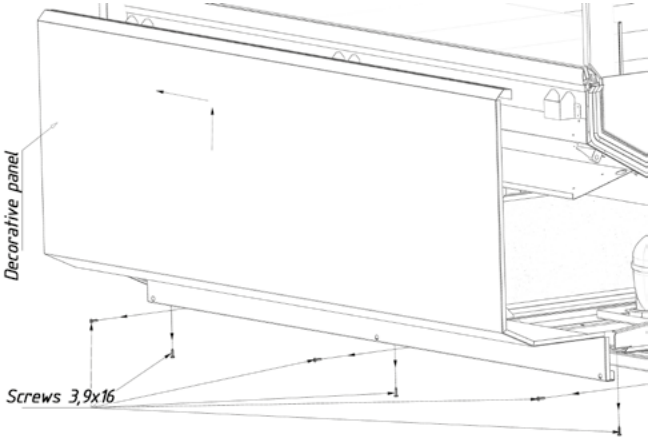
1 - Main switch (turns on / off the unit).

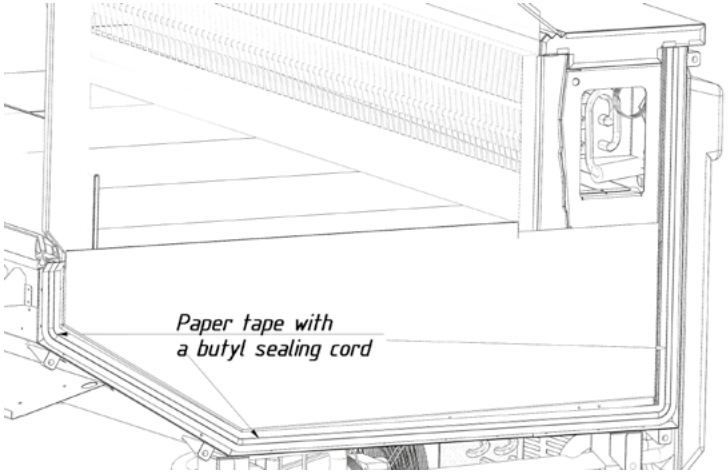
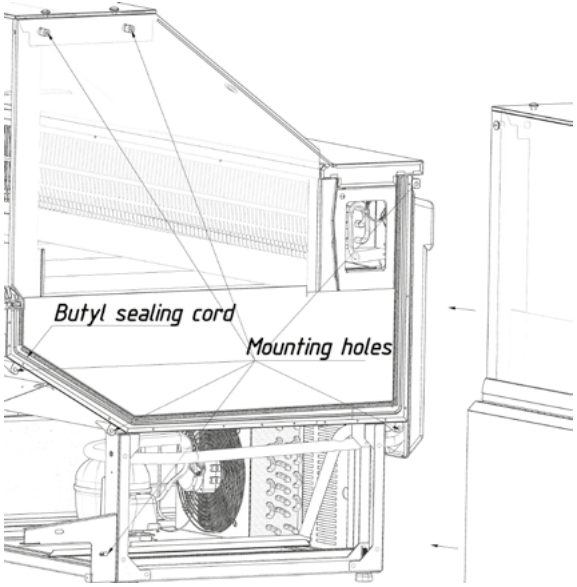
2- Lighting switch (green color).

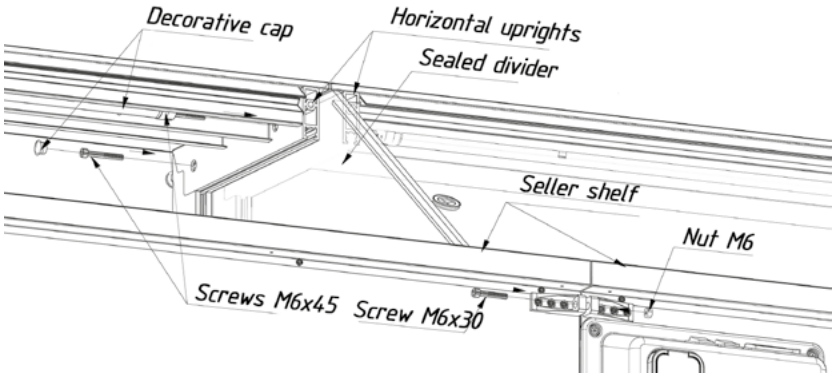
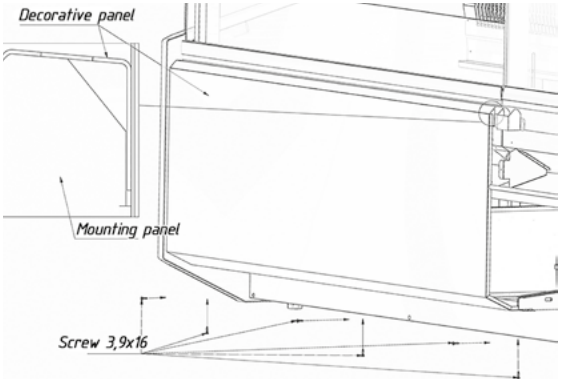
3- Electronic control panel.

3.6. Hermetic Assembly in Line of FGL, SGL, VGL Models

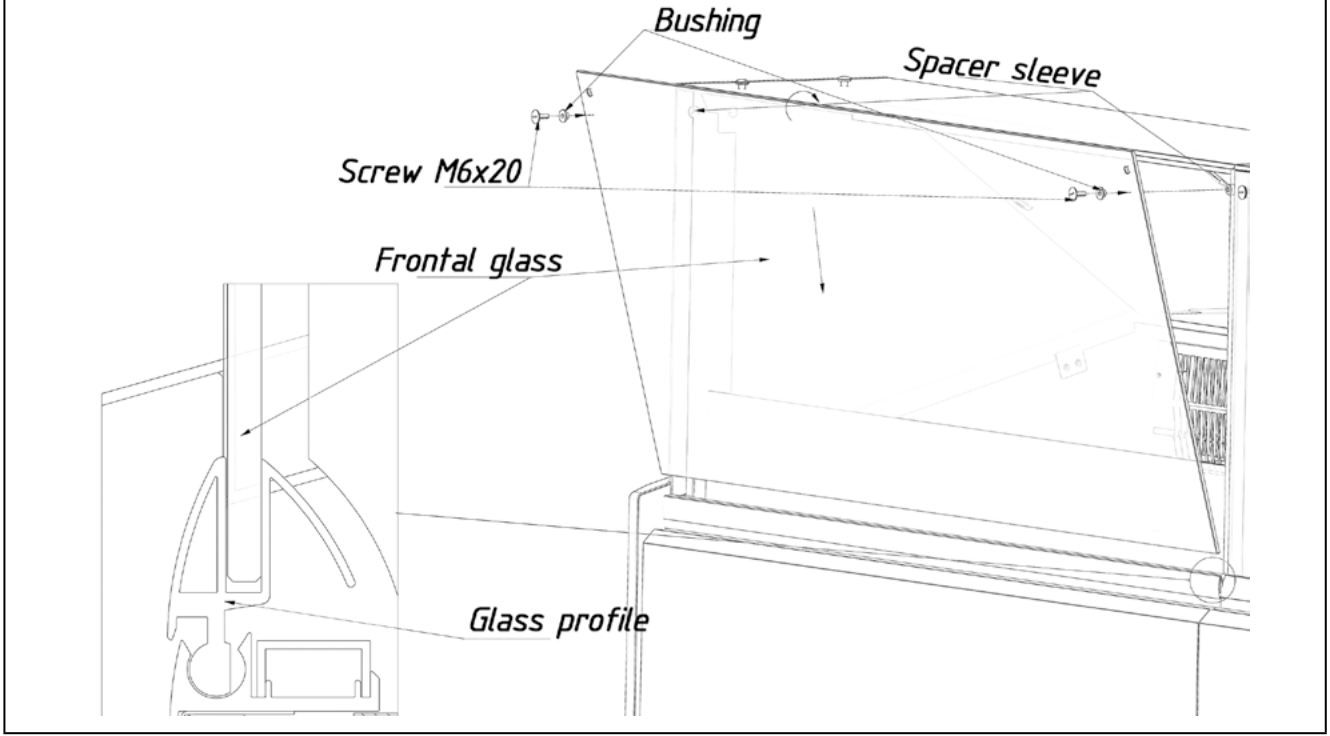
Place the displays that are part of the line (according to their final configuration) and keep a distance of at least 30 cm.

3.6.1. Unscrew the M6x45 screws; leave the sealed divider in place. Remove the front glass by unscrewing the front glass fasteners.	3.6.2. Remove decorative panel by unscrewing 3,9x16 screws.
	

3.6.3. Peel off the paper tape; leave a butyl sealing cord on the display body - it is designed to seal the connection of the displays.	3.6.4. Install the displays so that the mounting holes are on the same axis.
	

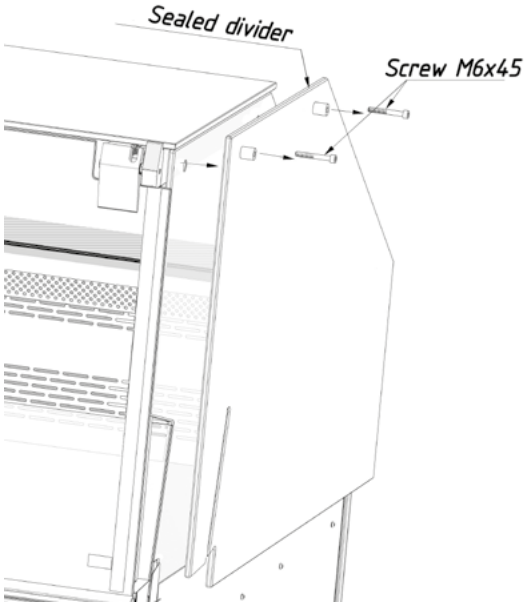
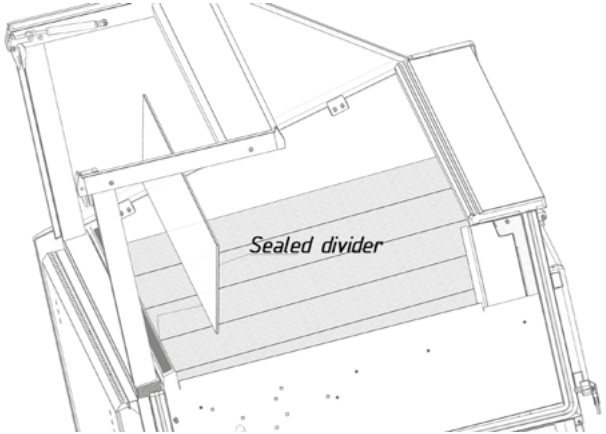
3.6.5. Connect the displays together using the fasteners included in the set. Connect the horizontal uprights with M6x45 screws. Close the holes with a decorative cap.	
3.6.6. Use the level to ensure the horizontal positioning of the display. Mount the decorative panel in the panel-mounting hook and fix the bottom with fasteners.	

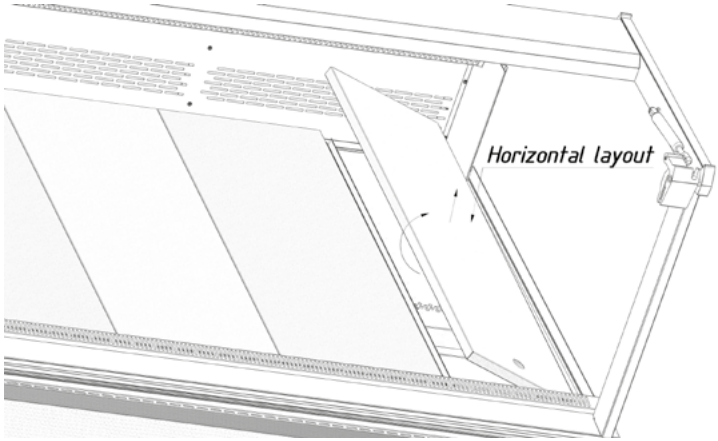
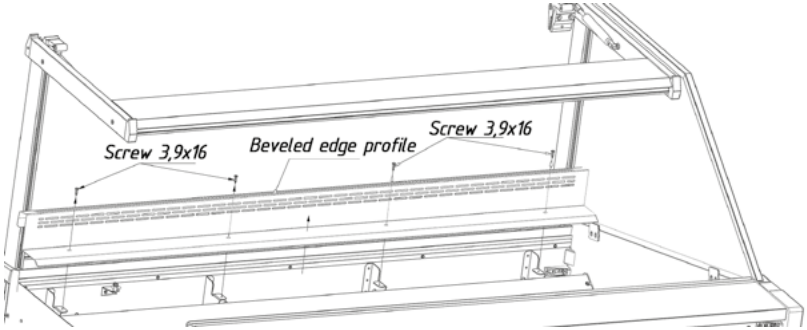
3.6.7. Install the front glass on its place and fasten it with M6x20 screws.

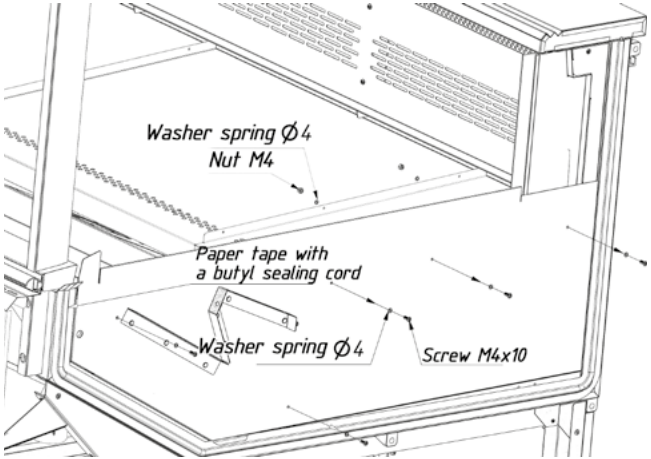
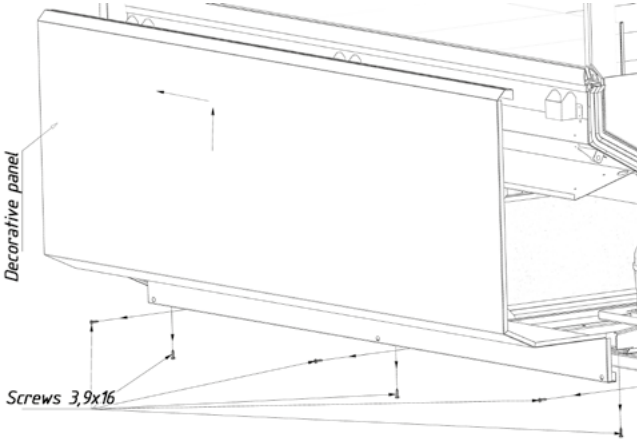


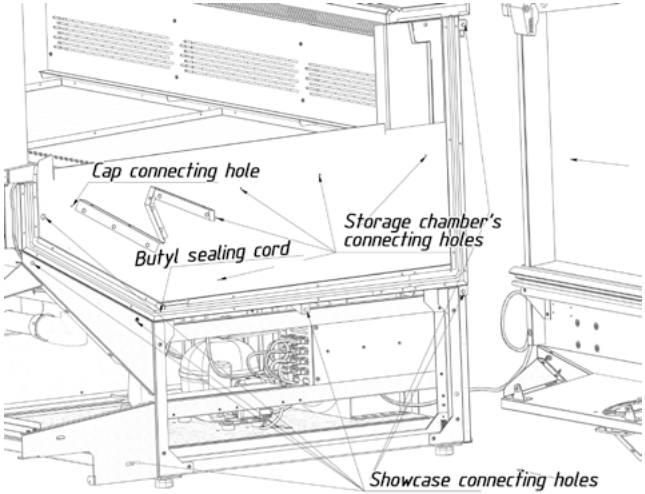
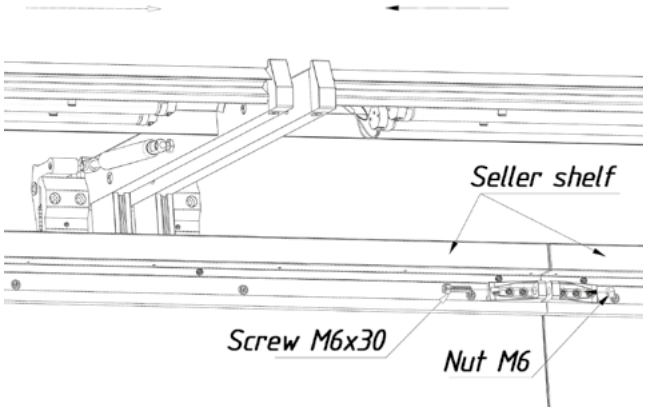
3.7. Hermetic Assembly in Line of FDI Models

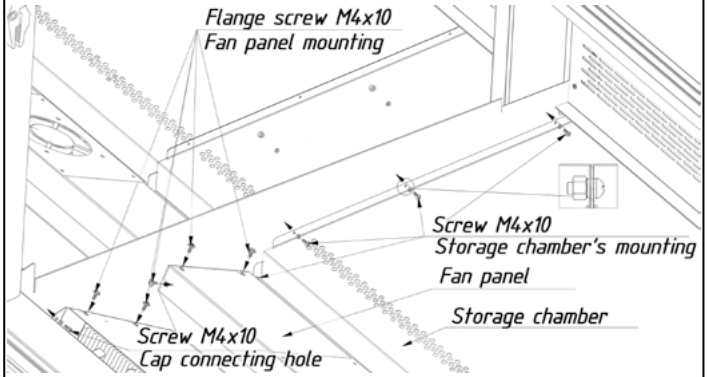
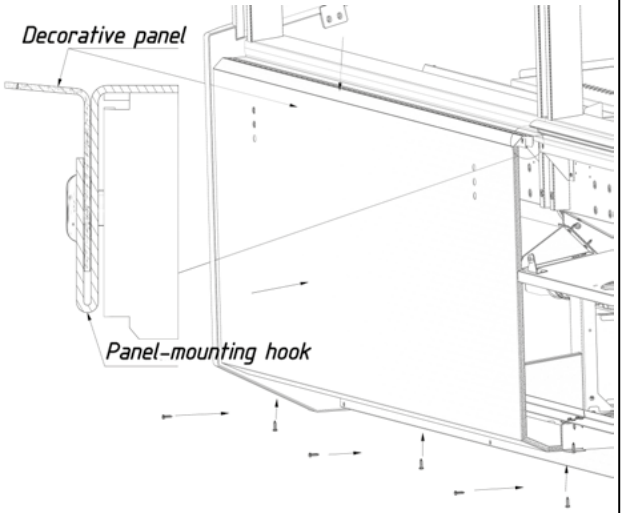
Place the displays that are part of the line (according to their final configuration) and keep a distance of at least 30 cm. Please remove the top and the front glass for the convenient assembly process.

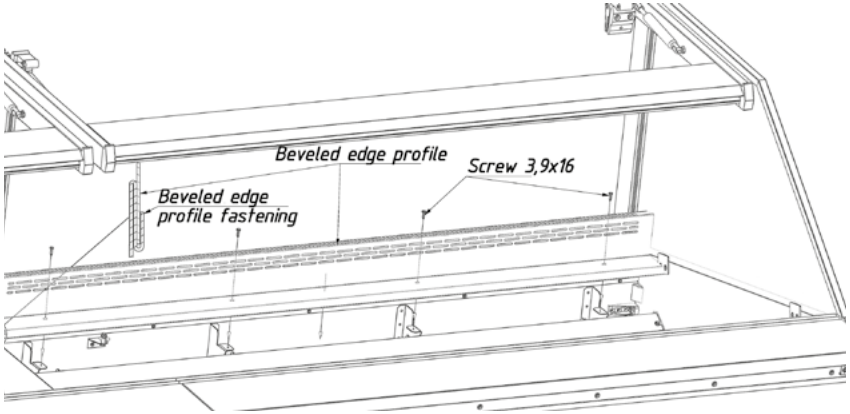
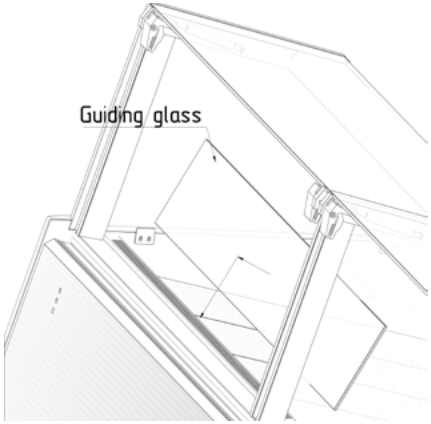
3.7.1. Unscrew the M6x45 screws and remove the sealed divider.	3.7.2. Remove the guiding glass.
	

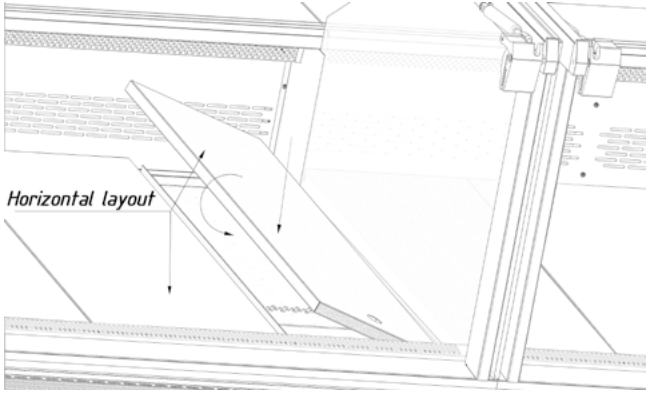
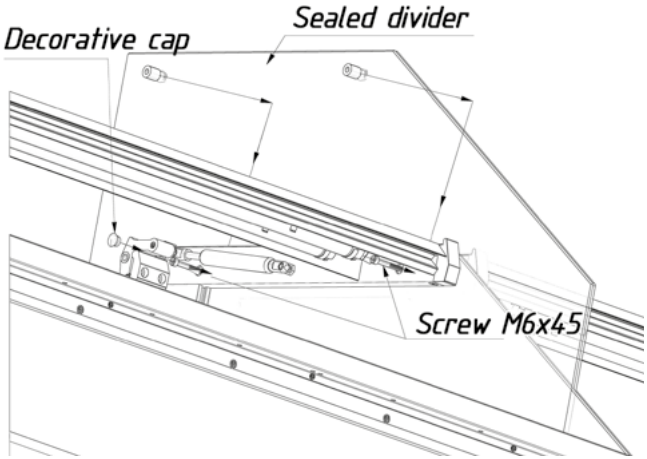
3.7.3. Remove shelves of the horizontal layout from the display.	
3.7.4. Unscrew the 3.9x16 screws and remove the beveled edge profile.	

3.7.5. Unscrew the M4x10 screws and M4 nuts that connect the product storage chamber and the evaporator cap. Peel off the paper tape; leave a butyl sealing cord on the display body - it is designed to seal the connection of the displays.	3.7.6. Remove decorative panel by unscrewing 3,9x16 screws.
	

3.7.7. Install the displays so that the mounting holes are on the same axis.	3.7.8. Connect the models together using the fasteners included in the set.
	

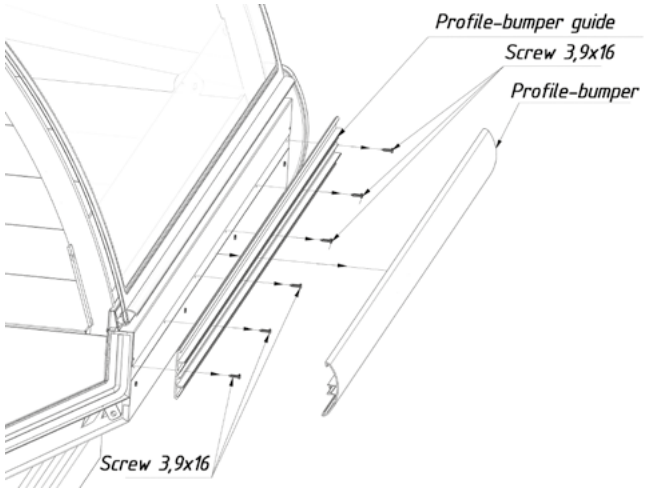
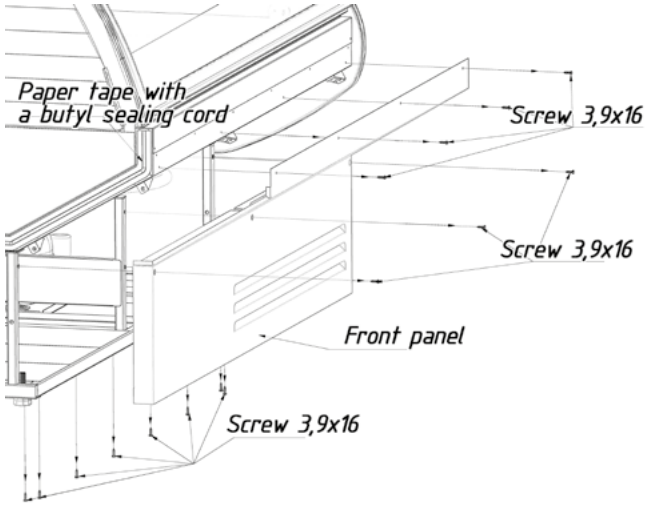
3.7.9. Secure the fan panel to the divider. Connect the storage chambers and the caps of the refrigerated display cases.	3.7.10. Use the level to ensure the horizontal positioning of the display. Mount the decorative panel in the panel-mounting hook and fix the bottom with fasteners.
	

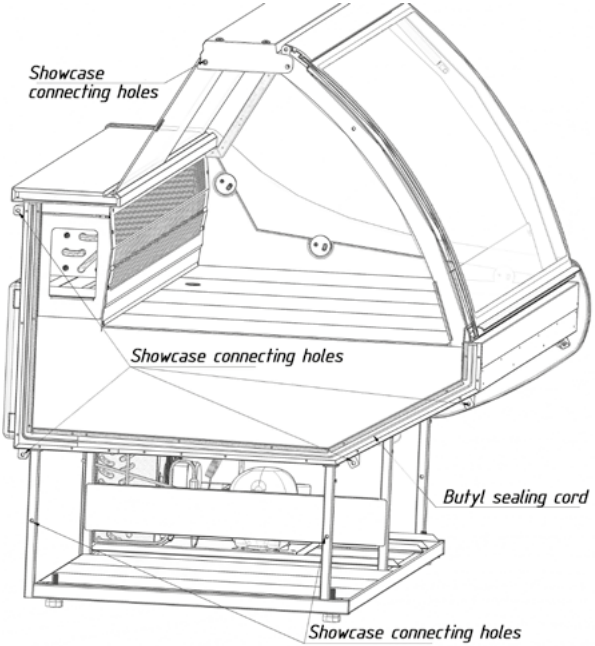
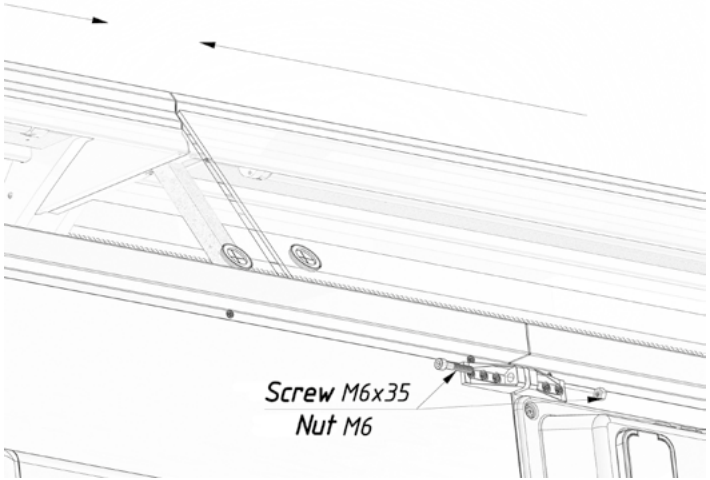
3.7.11. Install the beveled edge profile and fix with the 3.9x16 screws.	3.7.12. Install the guiding glass.
	

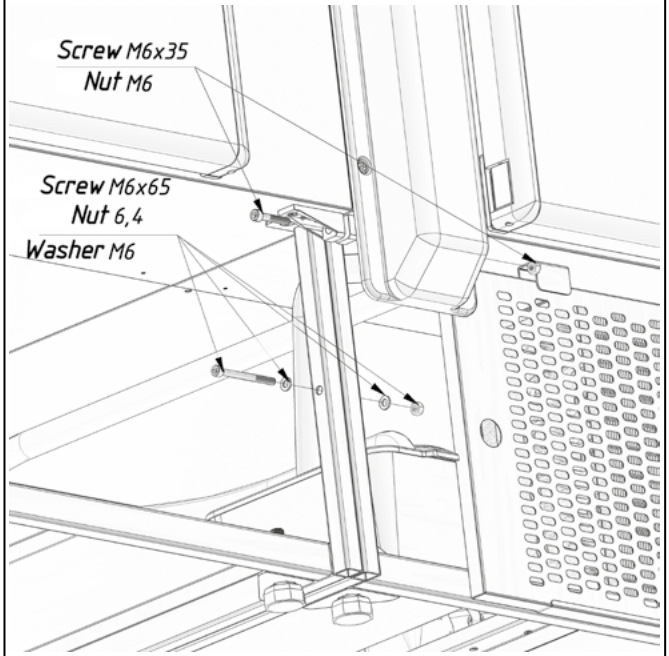
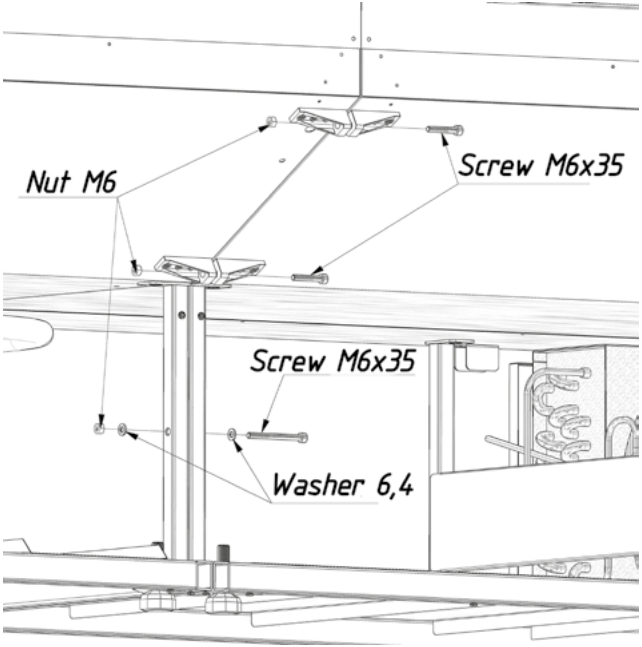
3.7.13. Install shelves of the horizontal layout from the display.	3.7.14. Install a sealed divider in the gap between the display racks and fix them with screws. Close the hole with a decorative cap. Install the upper and front glass.
	

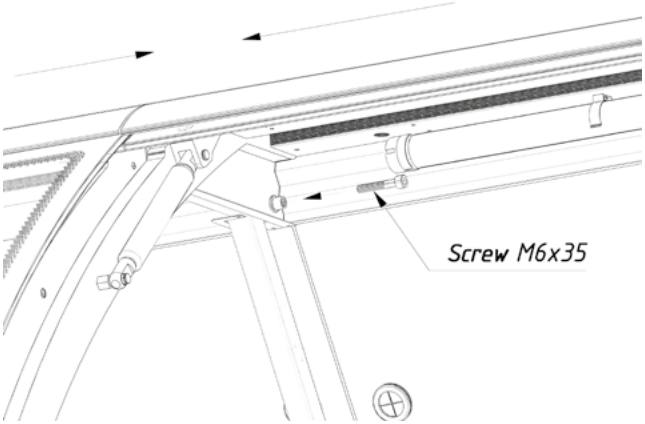
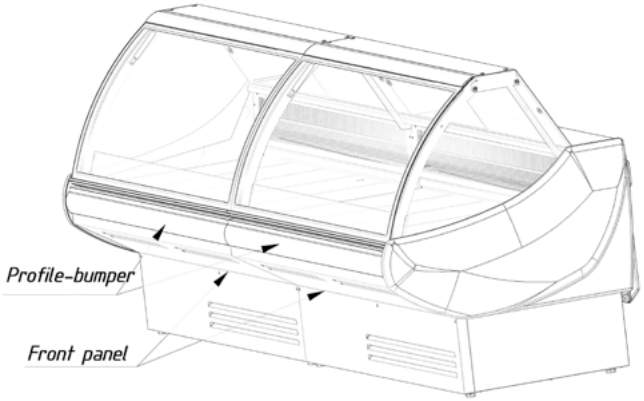
3.8. Assembly in Line of SGL A Models

Place the displays that are part of the line (according to their final configuration) and keep the distance of at least 30 cm.

3.8.1. Remove the profile-bumper and its guide.	3.8.2. Unscrew 3,9x16 screws and remove front panel. Peel off the paper tape; leave a butyl sealing cord on the display body - it is designed to seal the connection of the displays.
	

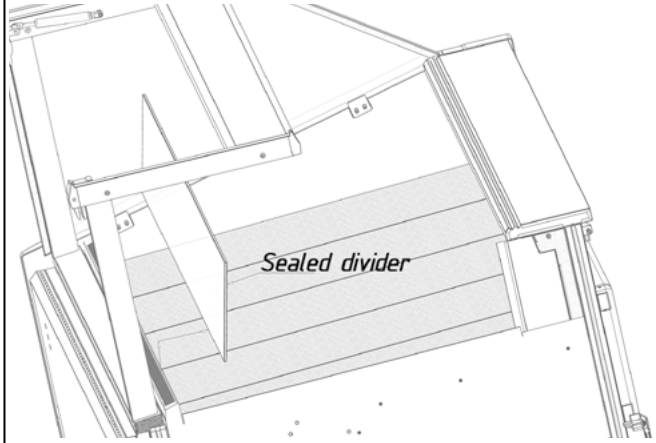
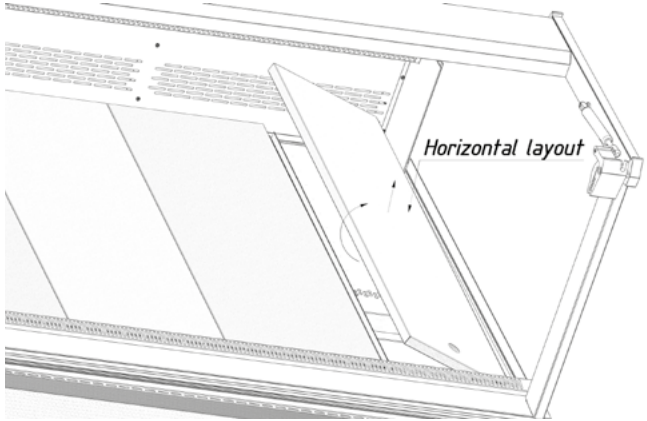
3.8.3. Install the displays so that the mounting holes are on the same axis.	3.8.4. Connect the models together using the fasteners included in the set.
	

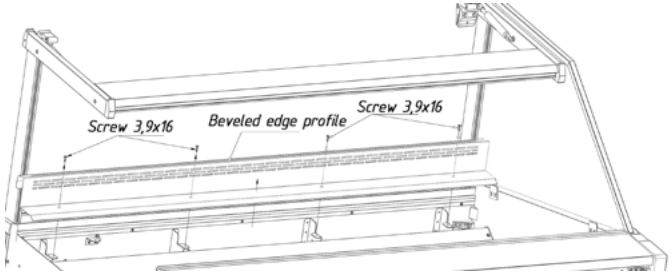
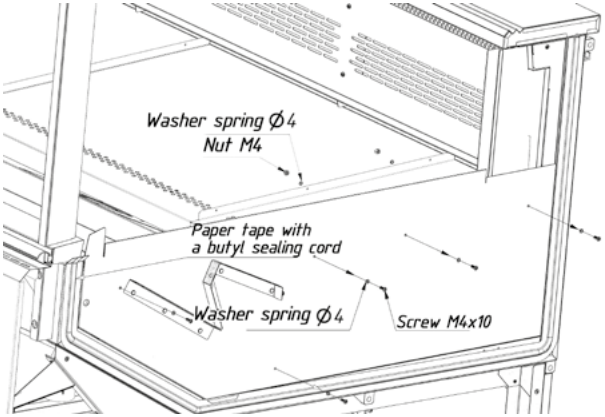
3.8.5. Connect the models together using the fasteners included in the set.	3.8.6. Connect the models together using the fasteners included in the set.
	

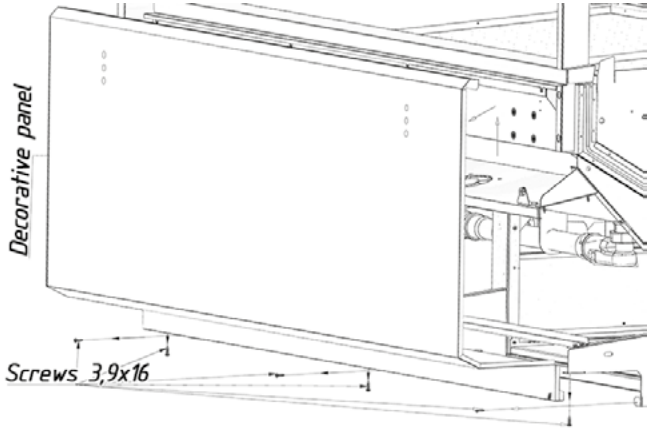
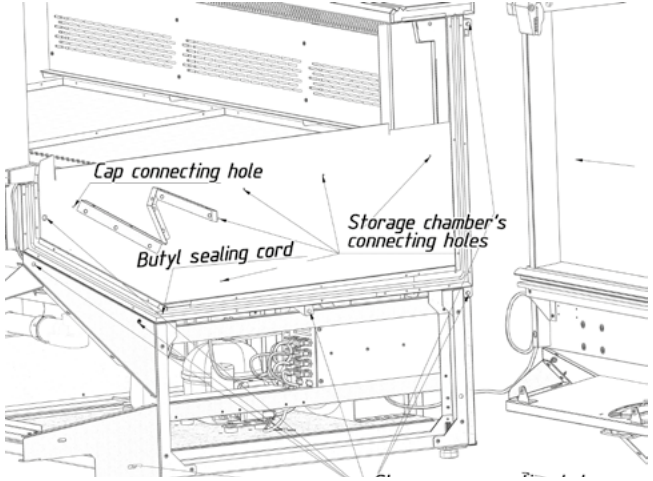
3.8.7. Install the displays so that the mounting holes are on the same axis.	3.8.8. Use the level to ensure the horizontal positioning of the display. Install the profile-bumper and its guide on models assembled in line.
	

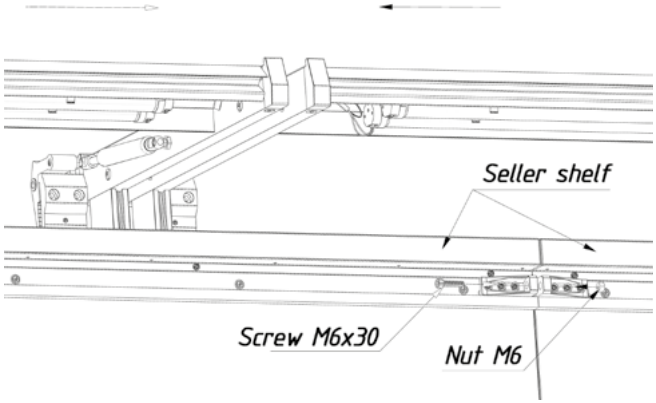
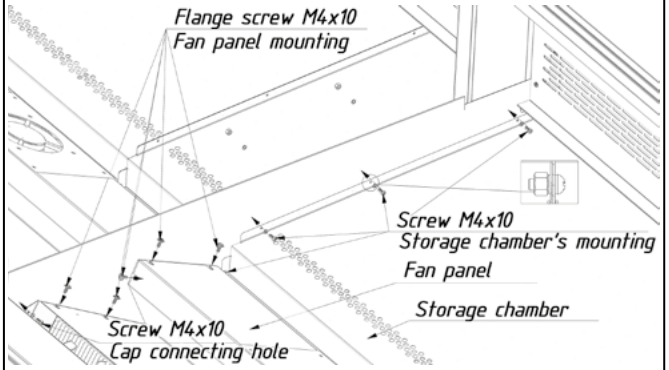
3.9. Assembly in Line of FDI Models

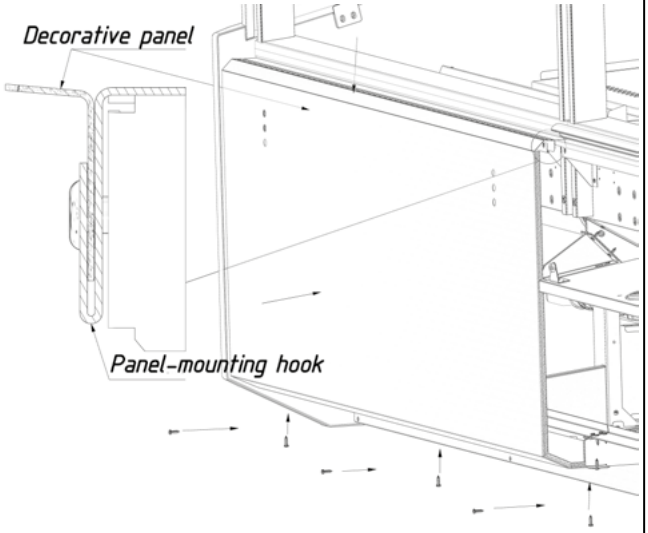
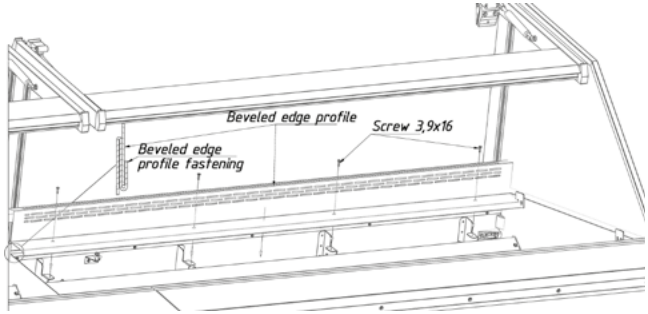
Place the displays that are part of the line (according to their final configuration) and keep a distance of at least 30 cm.
Please remove the top and the front glass for the convenient assembly process.

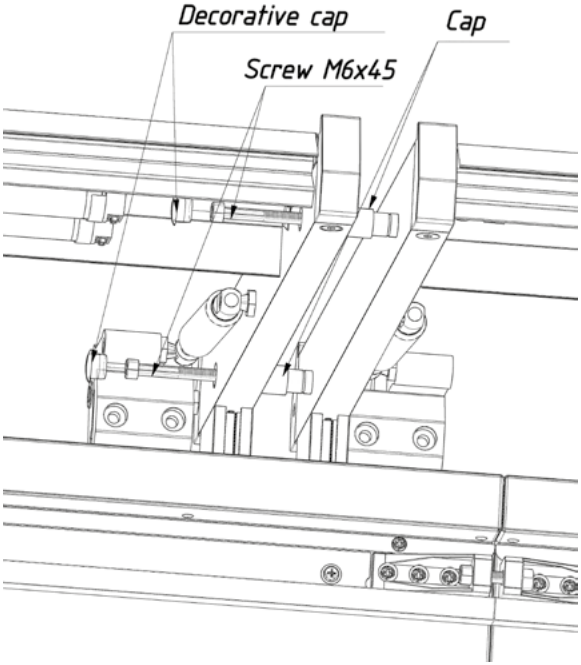
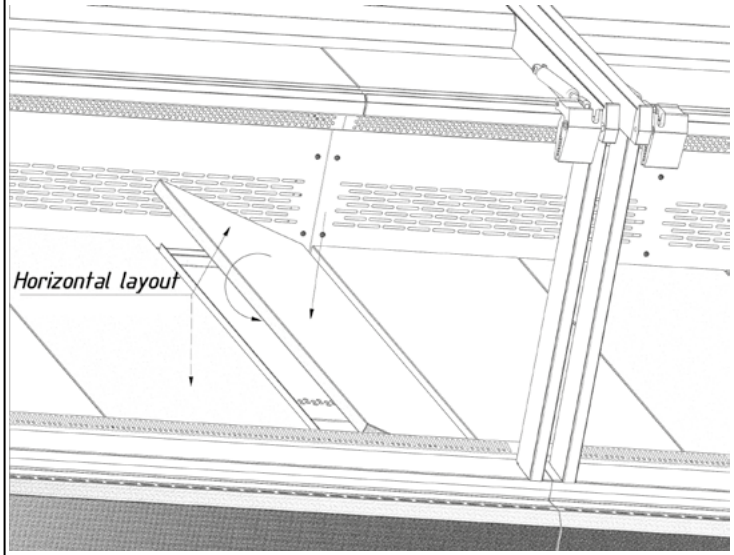
3.9.1. Remove the guiding glass.	3.9.2. Remove shelves of the horizontal layout from the display.
	

3.9.3. Unscrew the 3.9x16 screws and remove the beveled edge profile.	3.9.4. Unscrew the M4x10 screws and M4 nuts that connect the product storage chamber and the evaporator cap. Peel off the paper tape; leave a butyl sealing cord on the display body - it is designed to seal the connection of the displays.
	

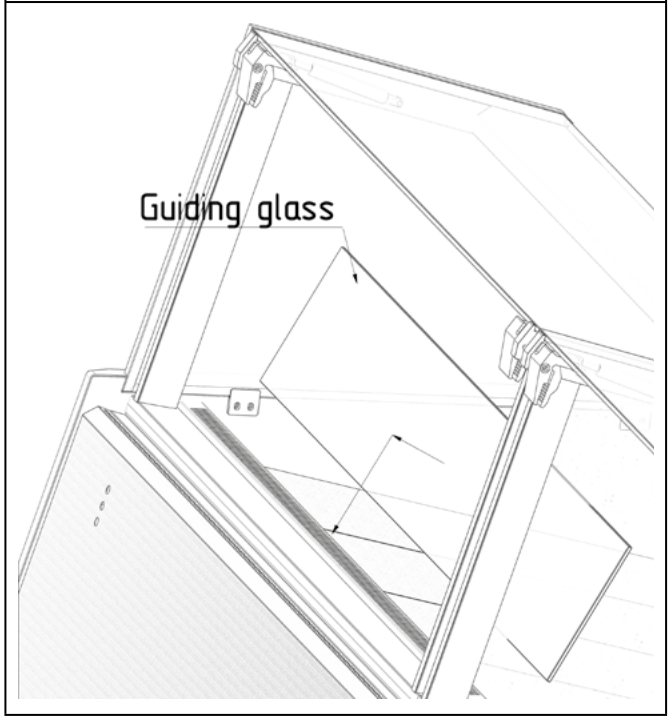
3.9.5. Remove decorative panel by unscrewing 3,9x16 screws.	3.9.6. Install the displays so that the mounting holes are on the same axis.
	

3.9.7. Connect the models together using the fasteners included in the set.	3.9.8. Secure the fan panel to the divider. Connect the storage chambers and the caps of the refrigerated display cases.
	

3.9.9. Use the level to ensure the horizontal positioning of the display. Mount the decorative panel in the panel-mounting hook and fix the bottom with fasteners.	3.9.10. Install the beveled edge profile and fix with the 3.9x16 screws.
	

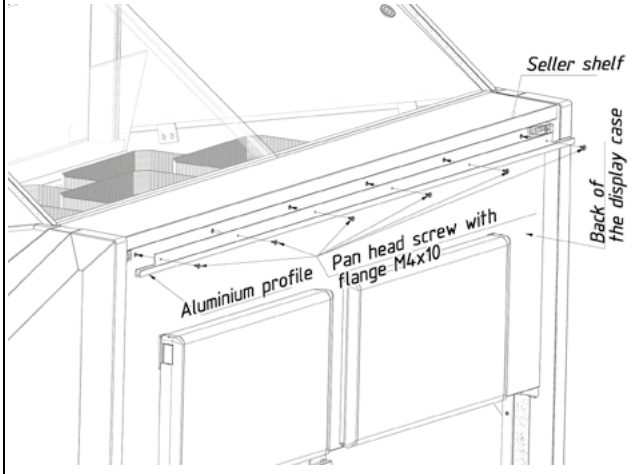
3.9.11. Install the bushings in the gap between the display racks and connect them with M6x45 screws. Close the hole with a decorative cap.	3.9.12. Install shelves of the horizontal layout from the display.
	

3.9.13.Install the guiding glass.
Install top and front glass.

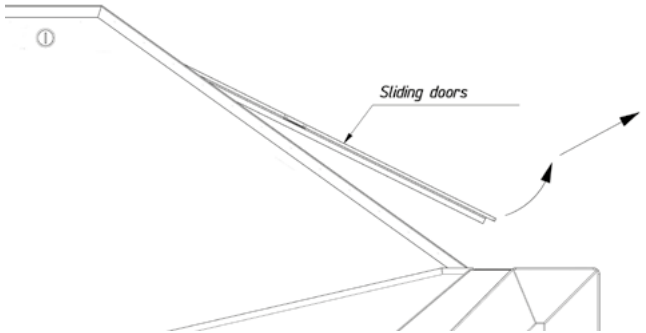
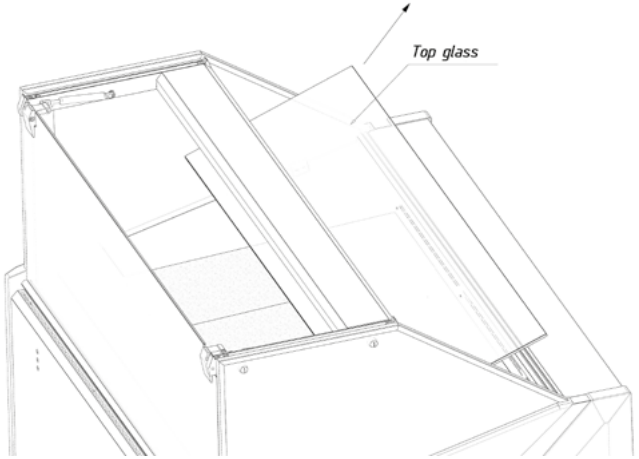


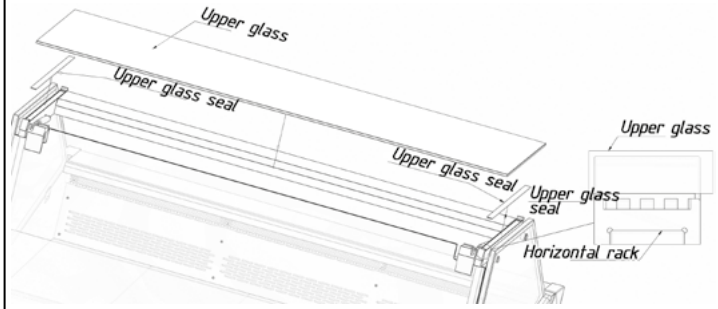
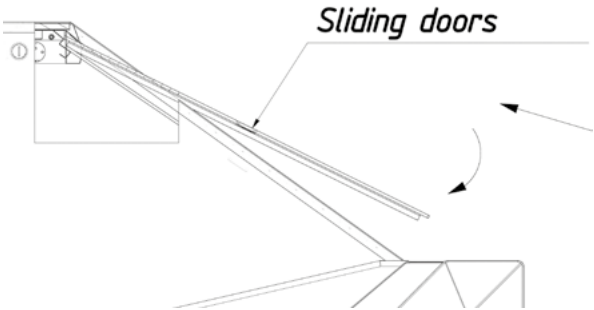
3.10. Installation of the FDI Profile

3.10.1. Install the aluminium profile on the back of the display case (under the seller's shelf) and fix it to the display case with M4x10 screws with a semicircular head with a flange.

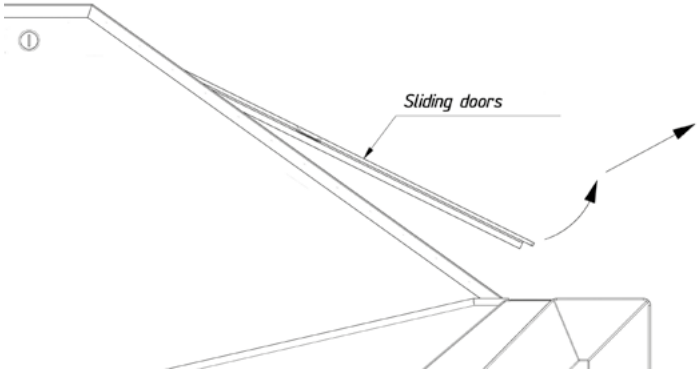
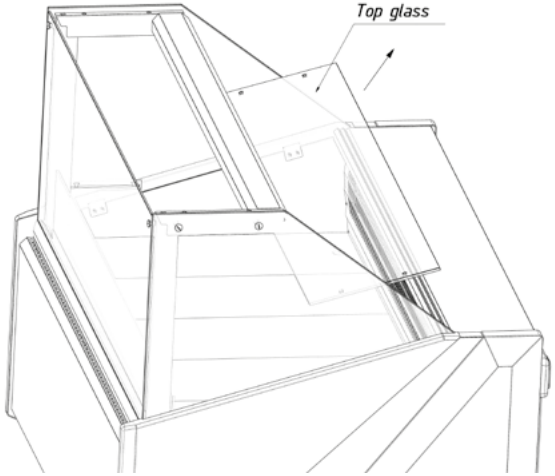


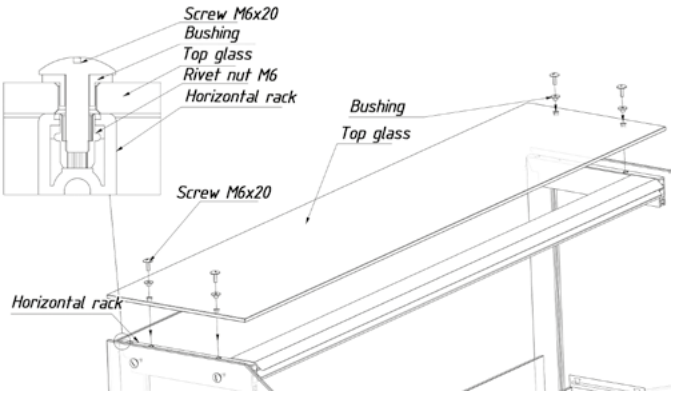
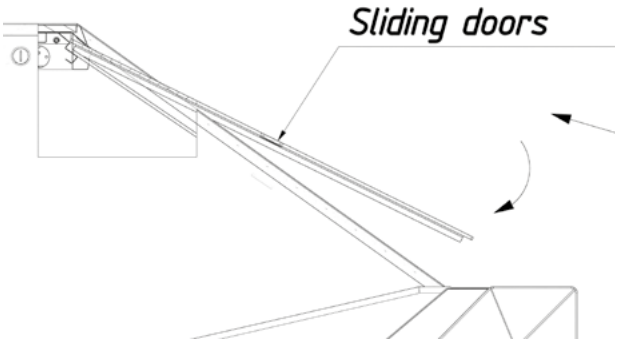
3.11. Installation of Upper Glass in Models FDI A, FGL A

3.11.1. Remove the sliding doors.	3.11.2. Remove the top glass from the internal compartment of the display.
	

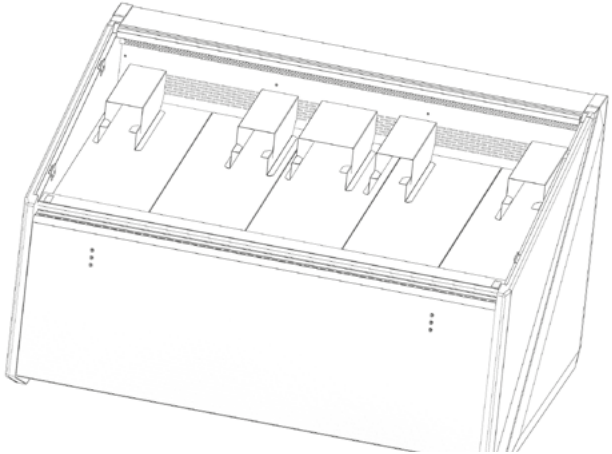
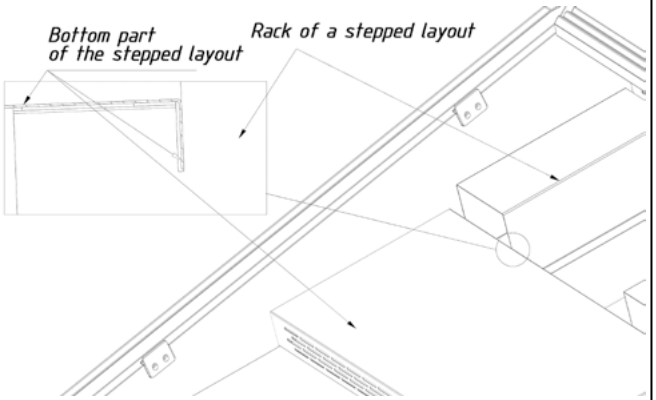
3.11.3. Install the upper glass seal on the horizontal rack, then install the upper glass.	3.11.4. Install the sliding doors.
	

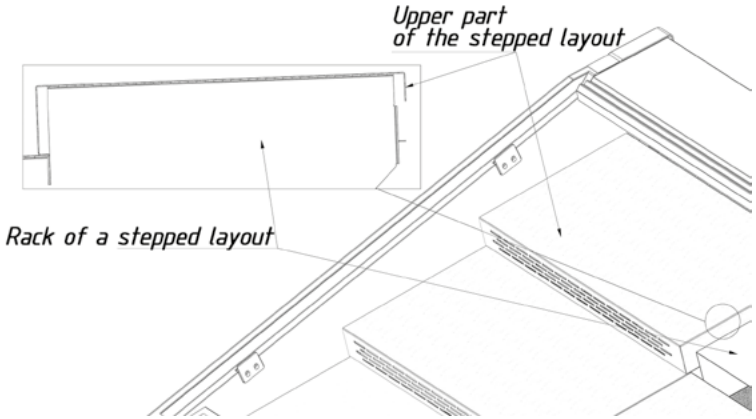
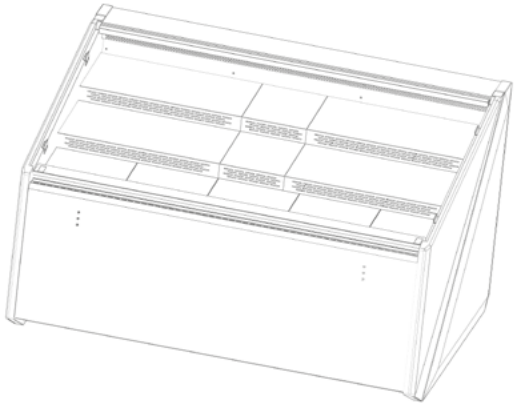
3.12. Installation of Upper Glass in Models FDI , FGL

3.12.1. Remove the sliding doors.	3.12.2. Remove the top glass from the internal compartment of the display.
	

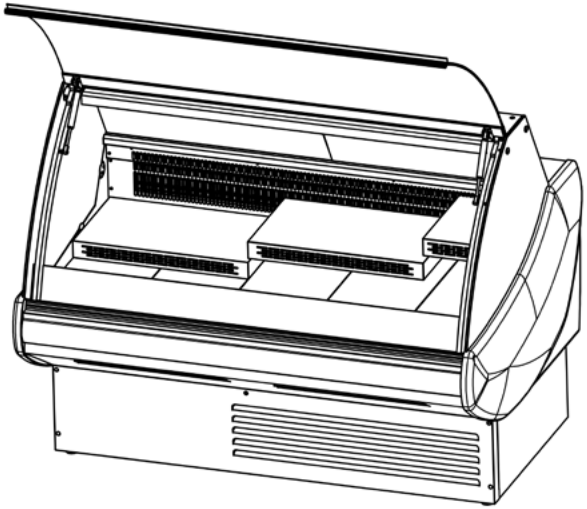
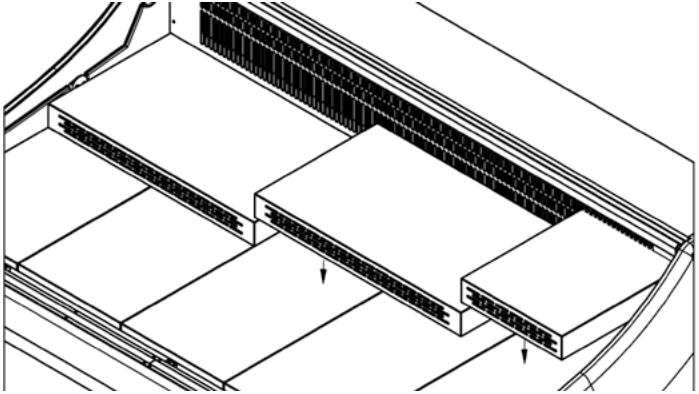
3.12.3. Install the upper glass seal on the horizontal rack, then install the upper glass.	3.12.4. Install the sliding doors.
	

3.13. Installation of Stepped Layout in FDI Model

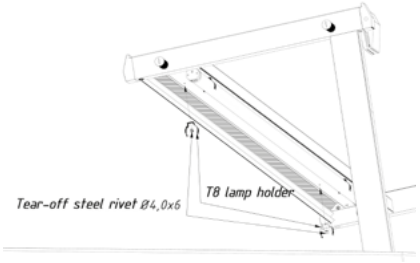
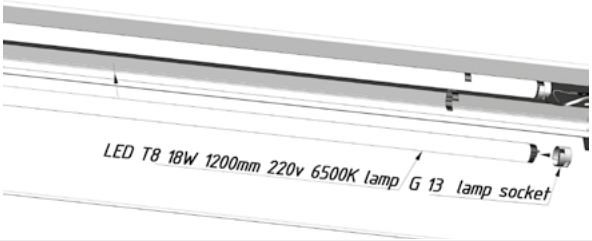
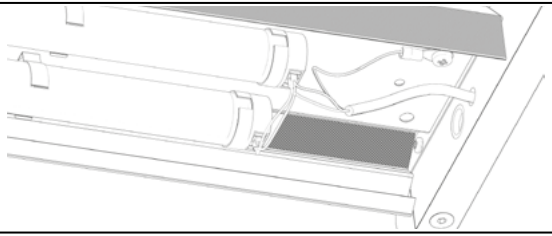
3.13.1. Install the racks of the stepped layout on the horizontal stainless steel layout (2 pcs. on 1 segment of the layout).	3.13.2. Place the bottom part of the stepped layout on the horizontal stainless steel layout by inserting the back of the segment of a stepped layout in the corresponding fixing groove of a rack of a stepped layout.
	

3.13.3. Install the upper part of the stepped layout so that the inner part of the segment is adjacent to the step of the stepped layout.	3.13.4. Press the assembled stepped layout construction to the back side of the display.
	

3.14. Installation of Stepped Layout in SGL Models

3.14.1. Install the stepped layout on the display shelf with perforated holes to the front glass.	3.14.2. Ensure close location of the stepped layout to the evaporator grill.
	

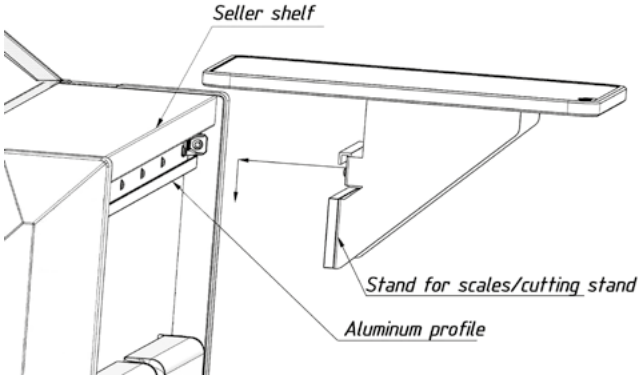
3.15. Installation of Additional Lamp

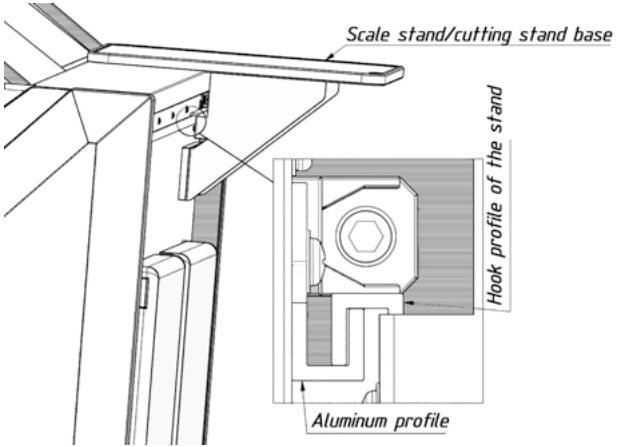
3.15.1. Disconnect the display from the power supply to avoid electric shock. Disconnect the terminals from the G13 socket. Remove the LED T8 lamp from the holder and disconnect the G 13 socket.	
3.15.2. Connect the terminals to the G 13 socket of the new lamp and install the new lamp.	
3.15.3. Connect the terminals to the G 13 socket of the new lamp.	

4. ADDITIONAL OPTIONS

FDI Refrigerated Displays have the possibility of installation of three additional options: bag holder, knife stand and cutting board/scale stand. Additional options are installed on a special aluminium profile, which is mounted only when a customer orders additional options.

Set the additional option so that the base of the stand is adjacent to the shelf of the seller, and the hook profile of the stand is fixed in the aluminium profile. The installation procedure for all options is similar. Example: installation of the scale stand/cutting board.





5. OPERATION

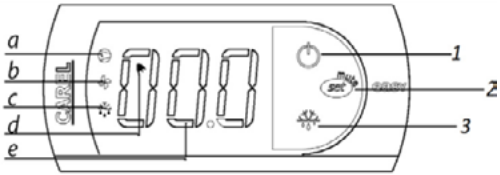
5.1. Electronic controller CAREL

5.1.1. 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.



Picture 7. Electronic controller CAREL

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

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

5.1.2. 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.

5.1.3. 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.

5.1.4. 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.
If you have any problems, contact a service center.

5.2. Electronic controller Dixell

5.2.1. 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.

5.2.2. 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.

5.2.3. 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:

Picture 8. Electronic controller Dixell

• 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.

5.2.4. 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.

5.2.5. 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.

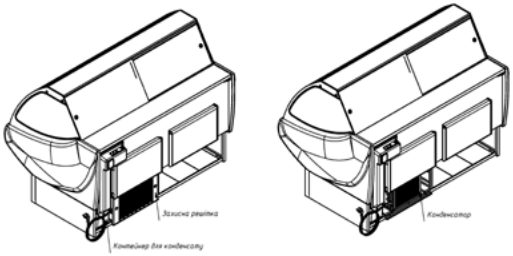
LA - low temperature in the chamber: indicates too low temperature in the chamber and may indicate an equipment malfunction. The alarm turns off automatically when returning to normal operation.

6. MAINTENANCE

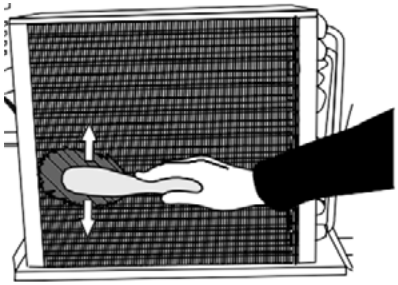
6.1. Cleaning and Maintenance

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.



Picture 9. Condenser.



Picture 10. Cleaning the condenser.

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

6.1.1. Cleaning

During the cleaning of the refrigerated display, 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.

6.1.2. Defrosting of the Evaporator

The display is equipped with a system of automatic defrosting of the evaporator - with an interval of 5-6 hours. In the case of incomplete defrosting, this should be done manually.

6.1.3. Maintenance of the Condenser

User should periodically check the condition of the condenser. The system does not require any special technical maintenance except periodical cleaning of the condenser.

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

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

- disconnect the device from the power source;
- remove the protective grill covering the condenser;
- using a soft brush, clean the condenser from dust, remnants of the package, etc. (pic. 9);
- after cleaning, place the protective grill in the 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.

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

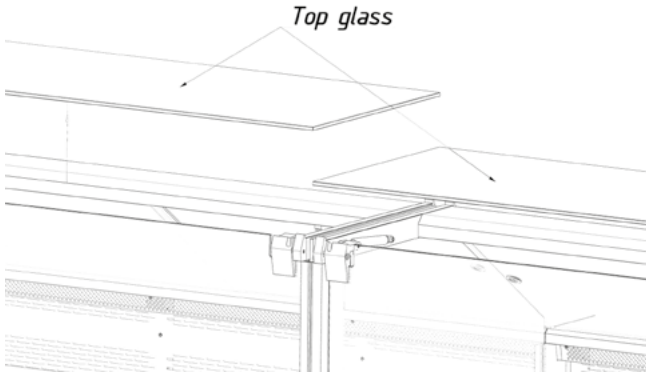
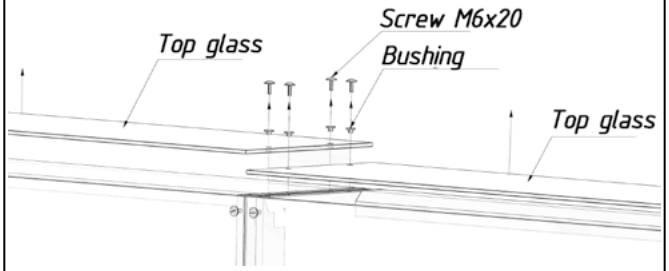
6.1.4. Other Terms and Conditions

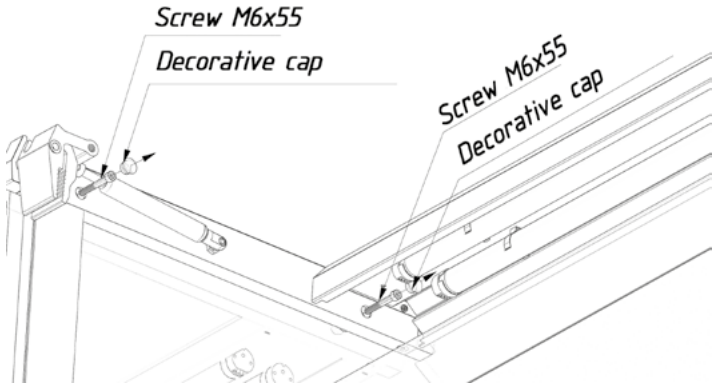
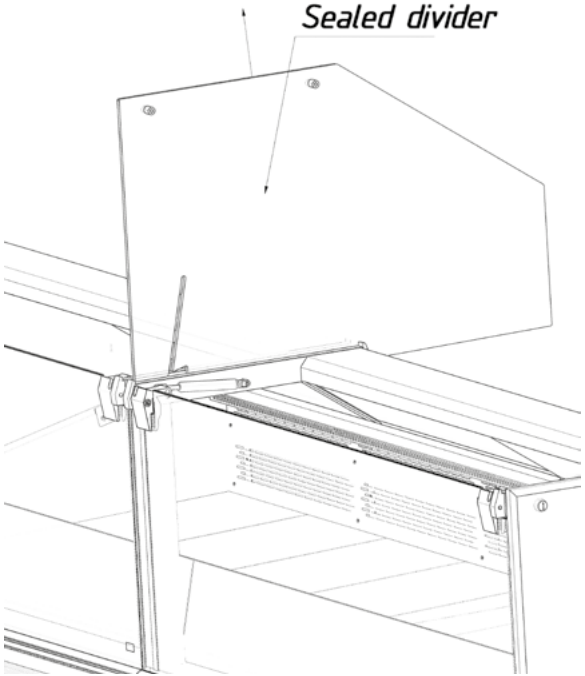
Metal parts of the equipment can corrode in case of improper use and maintenance. To prevent corrosion of the metal parts, please:

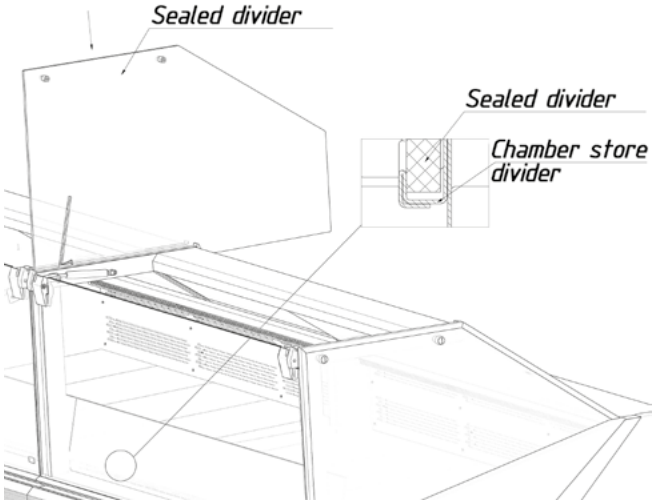
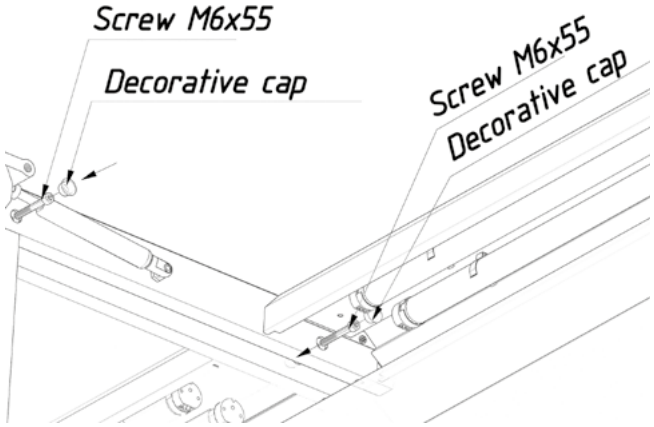
- Do not use any cleaning agents that contain chlorine and sodium of different types as they can damage the protective layer and parts of the unit (including different types of stainless steel).
- During cleaning and maintenance of the equipment, please make sure not to damage the data plate of the unit.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

7. REPLACEMENT OF THE SEALED DIVIDER AND A LIGHTING BULB

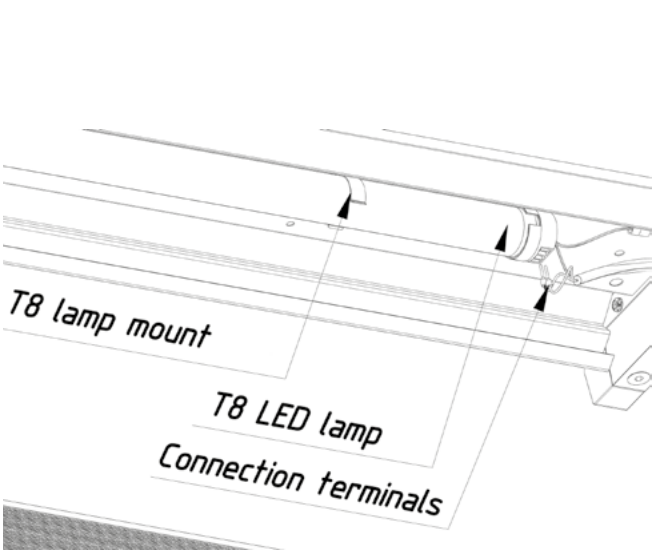
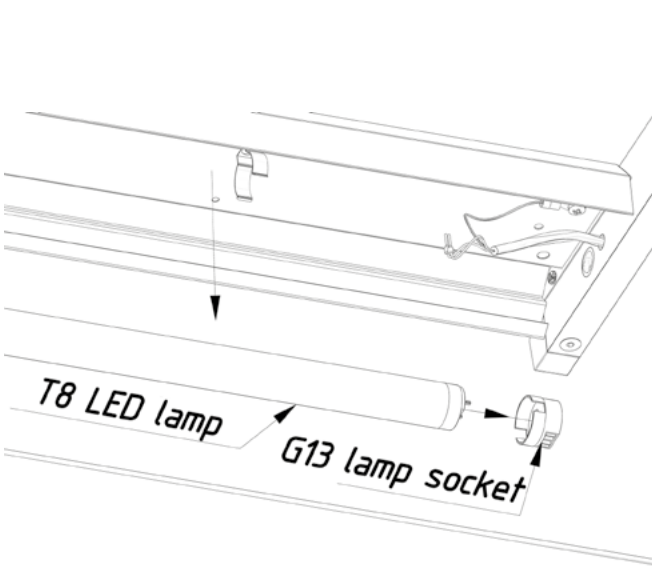
7.1. Replacement of the Sealed Divider in FDI, FGL, SGL, VGL Models

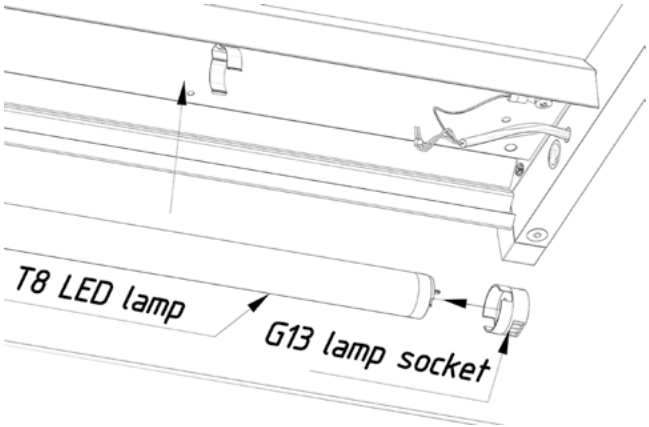
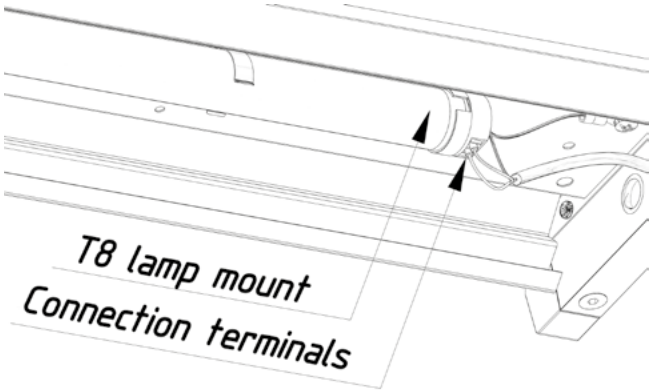
7.1.1. Remove the top glass.	7.1.2. If display does not have gas lifts - unscrew screws of the top glass fastening.
	

7.1.3. Remove the decorative caps and unscrew the M6x55 screws.	7.1.4. Remove the divider by lifting it vertically.
	

7.1.5. Install a new divider in the gap between the displays so that the lower part the divider is installed in its guide.	7.1.6. Connect the displays with M6x55 screws and close the hole with a decorative cap. Install the upper glass back on its place.
	

7.2. Change of a Lighting Bulb in FDI Models

7.2.1. Disconnect the display from the power supply to avoid electric shock. Disconnect the terminals from the G13 socket.	7.2.2. Remove the LED T8 lamp from the holder and disconnect the G 13 socket.
	

7.2.3. Connect the terminals to the G 13 socket of the new lamp and install the new lamp into the holder.	7.2.4. Connect the terminals to the G 13 socket of the new lamp.
	

8. 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;
- electronic controller is switched on;
- main switch is switched on.

Water leakage under the device or into the chamber...

- 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.

The device is operating, the lighting is switched off...

Make sure that:

- the lighting switch is on;
- LED 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 temperature setting on the controller is set correctly;
- the controller is operating properly;
- main switch is switched on;
- condenser is not dirty (please clean properly in case of contamination);
- ambient temperature does not exceed 25°.

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 parts are properly installed.

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

9. 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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