Interlevin
REFRIGERATION

User manual for:

Manufacturer	Model
Interlevin	LPD900C
	LPD1200C
	LPD1500C
	LPD1700C
	LPD900F
	LPD1200F
	LPD1500F
	LPD1700F

Uploaded: March 2016

Interlevin Refrigeration Ltd
West Meadow Rise
Castle Donington
Derby
DE74 2HL

Sales: **01332 850090**
Parts: **01332 850190**
Service: **01332 850064**
Email: trade.sales@interlevin.co.uk
Web www.interlevin.co.uk

Please read the manual carefully before using the cabinet

Operation Instructions for Display Cabinets

Interlevin
REFRIGERATION

Contents

Operation Instruction for Display Case

I. Precautions (Very important, please read carefully!)

1. Please read the manual carefully before using the cabinet. If in any doubt, please contact Interlevin Refrigeration Ltd.
2. This series of products are mainly applicable to refrigeration and display of patisserie cakes and relevant food. During normal operation, the temperature inside the cabinet is between **2~8℃**. Do not use this equipment for other purposes.
3. The equipment should be installed in a dry place with good ventilation. Away from any heat source or air conditioning. Cabinet should not be in direct sunlight.
4. The equipment should be installed on flat solid surface and unit levelled using adjustable feet
5. Please ensure electrical supply for the unit is suitable.

① Independent single phase three pin socket. Supply should be earthed

② The power supply should be 220-240V / 50Hz

③ The power cord should not be placed where it can be trapped, trodden on or run over.

④ Electrical appliances should not be operated with wet hands.

⑤ Please turn off power supply if equipment is not being used.

⑥ Please turn off and unplug power supply before installation or dismantling of the cabinet

⑦ Clean equipment with dry or slightly damp cloth and mild soap. Do not use excessive water. Unplug power supply before cleaning.

⑧ In case of electrical or refrigeration failure, service agent authorized by the manufacturer or professional maintenance staff shall be responsible for the maintenance work.

II. Transportation and Handling

1. Special package box will be used for the equipment for delivery. Keep unit upright at all times.
2. Please carefully check the package box after receiving the product to

ensure that the equipment is not damaged during transportation.

3. When removing the packing box, carefully remove the wood in case of scratching the equipment.
4. After transportation of unit, please leave it to stand for 4 hours before switching on.
5. Do not throw away the package removed randomly. Please dispose as per relevant local rules and regulations.

III. Installation and Operation

1. After the cabinet has been installed the exterior should be wiped with a clean cloth. The inside base and shelves should also be wiped down before plugging in.
2. Turn on the light switch, check the light is operating normally.
3. The controller is delivered with default parameters. Do not alter the parameters except for special requirements. This should only be changed by a qualified engineer.
4. When running the cabinet for the first time, it should be run empty for 2 hours to ensure the refrigeration system is working normally. Only when the cabinet has achieved the correct temperature should product be put in the cabinet.
5. Product should be put into the unit pre-chilled. Do not put warm products into the unit. Product should not block airflow and vents. Items should not be put against the glass as this will cause condensation. Overloading the cabinet will cause it not to work correctly.
6. The cabinet comes fitted with a heater for the front glass. This by default is switched off. If you are experiencing condensation (fogging) on the front glass you can switch on the heater. (By the controller).
7. Cabinet should be running whenever there is food inside it.
8. During the defrosting process, the temperature of the cabinet may rise slightly. When the defrosting ends, it will return to normal.

IV. Maintenance

1. In order to ensure food hygiene and quality, please ensure to that the equipment is cleaned frequently.
2. Before cleaning turn off the power supply and unplug the unit.
3. Only use a damp cloth with mild soapy water to clean the cabinet.
4. Do not use any solvents or detergents to clean the equipment. This may result in damage.
5. After cleaning the equipment, please ensure it has dried completely before using.

V. Troubleshooting

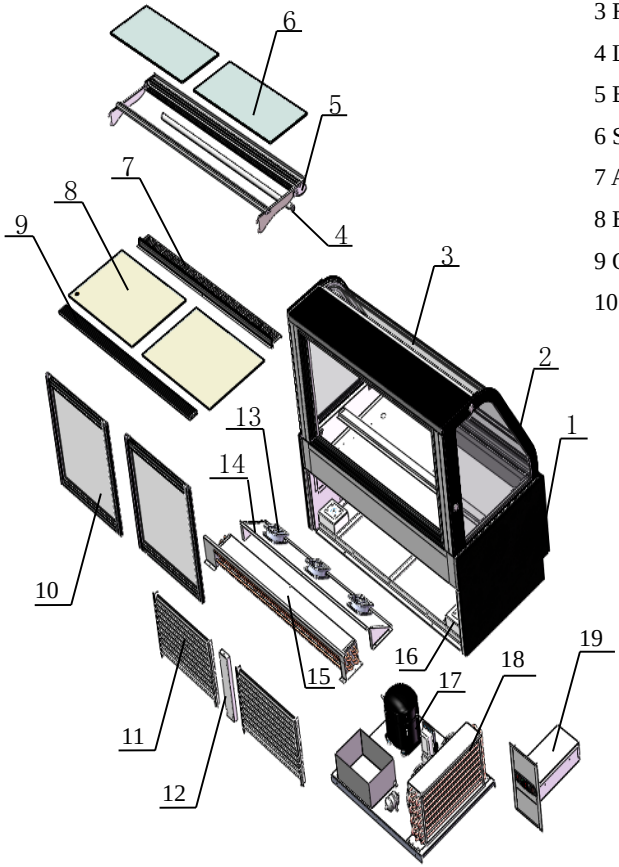
Note:

1. For any maintenance or repair please contact your supplier a qualified engineer or Interlevin Refrigeration Ltd.

Problem	Potential Cause	Solutions
No Power supply	Fuse blown or tripped	Replace fuse or reset trip
	Poor socket contact	Repair or replace the socket
	Damaged Cable	Replace cable
High cabinet temperature	Near a heat source	Move the counter or the heat source
	Unit ice up	Defrost manually
	Overloading of the cabinet and or restriction of air flow within the unit.	Take out excess product and ensure vents are not obstructed
	Condenser blocked	Clean the condenser
	Fan failure	Repair or replace the fan

	Temperature controller failure	Replace the temperature controller
	Temperature control probe has been moved	Replace probe to original location
Front glass condensation	Defogging switch is off or failed	Switch on the defogging switch or replace switch.
	Damaged Cable	Replace cable
	Transformer Damaged	Replace Transformer
Too much noise	Unit is not level	Adjust the feet
	The screws are loose on the fans or compressor	Check for any loose screws
The compressor is not running	Fuse blown or tripped	Replace fuse or reset trip
	Temperature controller failure	Replace the temperature controller
	Compressor is damaged	Replace the compressor
Light is not working	Light is off	Checked light has been switched on
	Light damaged/blown	Replace light tube

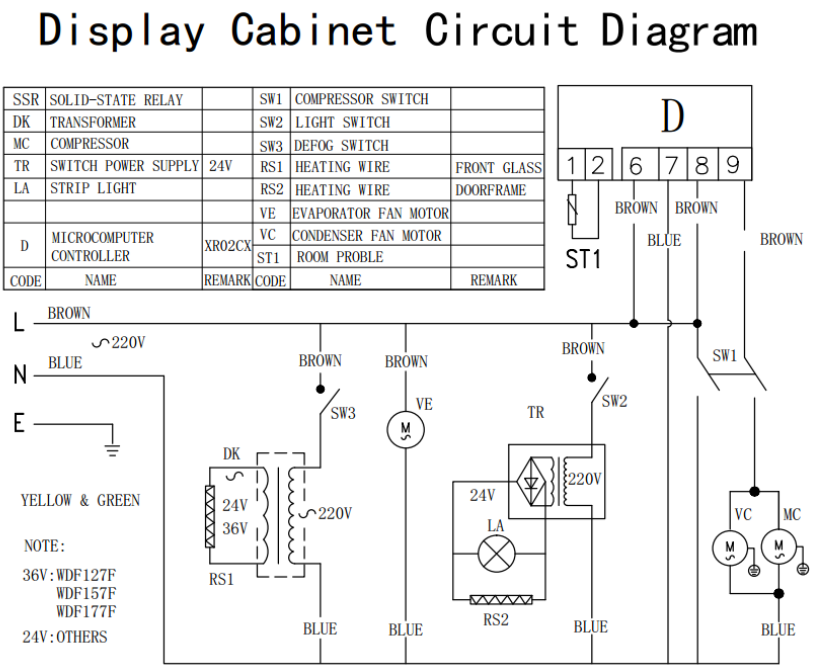
VI. Structure Diagram



1Marble decorative sheet
2 Side glass
3 Front glass
4 Light tube
5 Bracket
6 Shelf
7 Air shield
8 Bottom cover
9 Outlet housing
10 Sliding door
11 Air window
12 Center support
13 Evaporation fan
14 Fan base plate
15 Evaporator
16 Castors
17 Compressor
18 Condenser
19 Control box

Note: refer to the real object in case of change of the product structure.

VII. Circuit Diagram



Note: the part in dotted line box is not applicable to some types. Please refer to the real object for the wiring circuit.

VIII. Control Panel Operation

The light switch controls lights， The defog switch controls heaters on front glass, And the cooling switch controls the compressor and the condenser fan motors.

The most important is microcomputer Controller . It can be used to set operating parameter and control product running

Microcomputer Controller Operation Instruction

SET To display target set point. In programming mode it selects a parameter or confirm an operation
To start a manual defrost

In programming mode it browses the parameter codes or increase the display value

AUX In programming mode it browses the parameter codes or decrease the display value

SET + ▼ To lock or unlock the keyboard

▼ + ▲ To enter in programming mode

SET + ▲ To return to room temperature display

LED	Mode	Meaning
❄	on	Compressor enabled
	flashing	Anti short cycle delay enabled (AC parameter)
❄	on	Defrost in progress
	flashing	Dripping in progress
°C	on	Measurement unit
	flashing	Programming mode
°F	on	Measurement unit
	flashing	Programming mode

How to see the set point

1. Push and immediately release the **SET** key, the set point will be showed.
2. Push and immediately release the **SET** key, or wait about 5s to return to normal visualisation.

Operation Instruction for Display Case **How to change the set point**

1. Push the **SET** key for more than 2 seconds to change the Set point value;
2. The value of the set point will be displayed and the **℃or ℉** LED starts blinking;
3. To change the set value push the △or▽button within 10s.
4. To memorise the new set point value push the SET key again or wait 10s.

How to start a manual defrost

Push the **DEF** ❄ key for more than 2 seconds and a manual defrost will start

How to change the parameter's value

1. Enter the programming mode by pressing the SET+▽keys for 3s (**℃or ℉** LED starts blinking).
2. Select he required parameter. Press the **SET** key to display its value .
3. Use △or▽to change its value.
4. Press set to store the new value and move to the following parameter.

TO EXIT: press SET+△ or wait 15s without pressing parameter.

NOTE: the set value stored even when the procedure is exited by waiting the time-out to expire.

Our products have been modified precisely before leaving factory, so to avoid damaging compressor unit or other malfunctions, users must not modify the microcomputer parameters privately.

Ⅸ. Major Technical Parameters

1.This series of products are designed with climate type N;

2.This series product are designed with electric shock protection type I.

① Flat Glass Display Cabinet

Model	Storage temperature (℃)	Power supply	Input power (W)	Refrigerant	Effective volume (L)	Overall dimension (LxWxH) (mm)
LPD900F	0~8℃	220V 50Hz	480	R290	300	900*750*1200
LPD1200F			770		395	1200*750*1200
LPD1500F			900		497	1500*750*1200
LPD1700F			1030		600	1800*750*1200

② Curved Glass Display Cabinet

Model	Storage temperature (℃)	Power supply	Input power (W)	Refrigerant	Effective volume (L)	Overall dimension (LxWxH) (mm)
LPD900C	0~8℃	220V 50Hz	500	R290	310	900*750*1350
LPD1200C			770		421	1200*750*1350
LPD1500C			900		531	1500*750*1350
LPD1700C			1030		641	1800*750*1350

Warranty

Our company warrant to the original purchaser of every refrigerated unit, the cabinet and all parts thereof, to be free from defects in material or workmanship, under normal and proper use and maintenance service as specified by our company and upon proper installation and start-up in- accordance with the instruction supplied with each unit. Our company's obligation under this warranty is limited to a period of 12 months from the shipment date from our company.

Warranty does not cover standard wear parts which include door gaskets, incandescent bulbs or fluorescent bulbs. Warranty also does not cover issues caused by improper installation or lack of basic preventative maintenance.

NOTE: The following items are not covered by this warranty.

1. Improper usage. Our company assumes no liability for parts or labour coverage for component failure or other damages resulting from improper usage or failure to clean and/or maintain product as set forth in the warranty provided with the unit.
2. Improper electrical connections. Our company is not responsible for the repair or replacement of failed or damaged components resulting from incorrect supply voltage, the use of extension cords, low voltage, or unstable supply voltage.

Accessory

1. Operation Instruction*1;
2. Product certification*1
3. Guarantee card*1