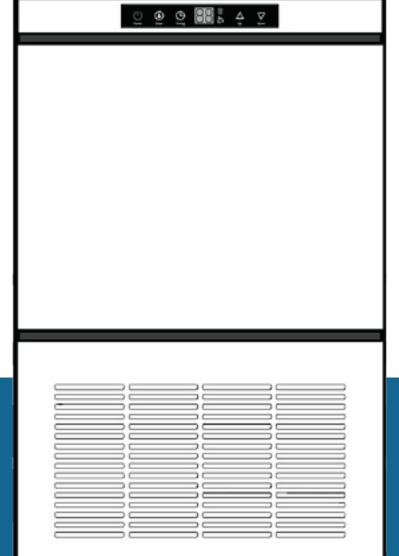
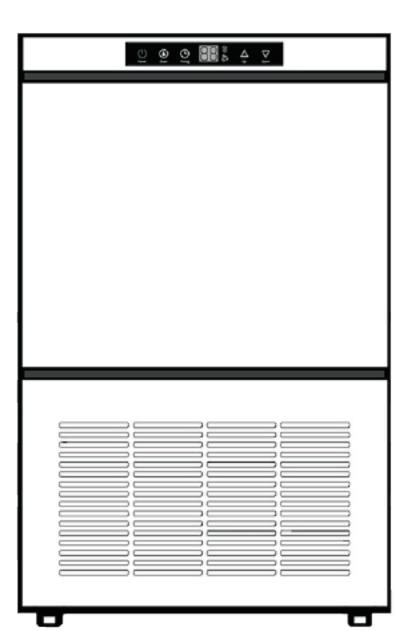


# SERVICE MANUAL



ICE MAKER

- PART I ERROR CODES & EXPLANATIONS
- PART II MAINTENANCE
- PART III TECHNICAL DATA
- PART IV SPARE PARTS DIAGRAM & LIST
- PART V WIRING DIAGRAM



#### **ERROR CODES**

PART	
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Error Code	Description	Solution
E1	Water Shortage	Check mains water pressure is between 1.4 - 5.5 bar
		Check mains water supply is connected and turned on
		Check for kinks or blockages in mains water supply line externally replace where necessary
		Check for kinks or blockages in mains water supply line internally, replace where necessary
		Check float valve for operation, replace where necessary
E2	Harvest Overtime	Refer to page 2
E3	Condenser sensor open circuit	Check condenser sensor connection, replace where necessary
E4	Evaporator sensor open circuit	Check Evaporator sensor connection, replace where necessary
E5	Ambient sensor open circuit	Check Ambient sensor connection, replace where necessary
E6	Evaporator over tempera- ture protection	Evaporator too hot, check hot gas valve, replace where necessary
E7	Ambient temperature out of range	Ice maker is located in a room with too high or too low ambient, relocate ice maker in a room with a temperature range of $+10^{\circ}$ c to $+32^{\circ}$ c
E8	Ice production over time	Ice production has taken too long, allow sufficient time for ice to fall from the evaporator plate, <b>do not try to manually remove the ice from the evaporator.</b>
		Check ambient air temperature is within operating range of $+10^{\circ}$ c to $+32^{\circ}$ c.
		Check incoming water temperature is within operation range of +7°c to +32°c.
		Check hot gas valve for operation, replace where necessary

#### **E2**

Error E2 is commonly caused by lime scale build up on the water distributor. This part needs to be cleaned and de-scaled on a 6 monthly basis or whenever necessary.

The use of a water filter will assist in reducing lime scale build up and prolong the life of the ice maker.

When lime scale is allowed to build up within the water distributor water will not be able to flow correctly over the evaporator.

If the water from the distributor is not flowing over the evaporator and is instead "spraying" past the evaporator and in to the storage bin the ice maker will constantly bring in fresh water to replace the lost water. The fresh incoming water will then need to be cooled to near 0°c by flowing over the evaporator. In this case the ice maker will not be able to make any ice at all within the allotted cycle time as the water will never be able to be cooled to 0°c.

The ice maker will then go into a harvest cycle, if the ice maker does not detect ice falling from the evaporator by activating the bin full sensor the harvest cycle will time out after 5 minutes and E2 will be displayed.

#### De-scaling and cleaning procedure

Open the door of the ice maker.

Discard any ice in the storage bin

ALWAYS WEAR SUITABLE GLOVES AND EYE PROTECTION WHILST CARRYING OUT THIS PROCEDURE

Prepare a solution of 50% water and 50% phosphoric acid



Holding both sides of the water distributor rotate the tube so that the holes are facing towards your.

DISCARD ANY ICE MADE FOR THE FIRST 3

HOURS AFTER WATER DISTRIBUTOR CLEANING.

WARNING

Using a stiff brush clean the water distributor with the de-scaling solution paying close attention to ensure water can freely flow through the holes.

Rotate the water distributor back to its original location with the holes facing down and slightly backwards.

Pour the phosphoric acid and water solution into the water reservoir

Put the ice maker into clean cycle



After the clean cycle has completed allow the ice maker to stand with the descaling solution in the unit for 30 minutes.

Put the ice maker through another clean cycle and totally empty the water reservoir

Put the ice maker back in to production mode

Discard any ice made for the first 3 hours after cleaning to ensure all traces of lime scale and de-scaling solution has been removed.

CL161019SM Rev 1.0

#### MAINTENANCE AND CLEANING

PERIODIC CLEANING AND PROPER MAINTENANCE WILL EXTEND THE LIFE OF YOUR ICE MAKER, ENSURE MAXIMUM EFFICIENCY AND DELIVER BETTER TASTING ICE TO YOUR CUSTOMER.

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DISCONNECT THE MACHINE FROM THE MAINS ELECTRICITY BEFORE PERFORMING ANY CLEANING OR MAINTENANCE

# <u> Marning</u>

INSPECTION, DE-SCALING AND SERVICING SHOULD ONLY BE UNDERTAKEN BY A QUALIFIED ENGINEER

# \Lambda WARNING

NEVER CLEAN THE ICEMAKER WITH A PRESSURE WASHER OR BY SPRAYING WATER

# ▲ WARNING

NEVER USE ACIDIC OR ABRASIVE DETERGENTS, THESE TYPES OF CLEANERS MAY TRANSFER TASTE AND ODOUR TO THE MACHINE AND THE ICE. THIS TYPE OF CLEANER MAY ALSO DAMAGE OR DISCOLOUR THE ICE MAKER.

# MARNING

NEVER CLEAN STAINLESS STEEL WITH A BLEACH BASED CLEANER AS THIS MAY CAUSE CORROSION ON THE STAINLESS STEEL.

#### EXTERIOR CLEANING

ALWAYS CLEAN THE EXTERIOR STAINLESS STEEL PARTS OF THE ICE MAKER WITH A MICRO-FIBRE CLOTH AND OR A SPONGE. ALWAYS CLEAN IN THE DIRECTION OF THE GRAIN OF THE STAINLESS STEEL.

DO NOT USE ABRASIVE OR METALLIC PRODUCTS (WIRE WOOL) WHICH COULD SCRATCH AND DAMAGE THE SATIN FINISH OF THE ICE MAKER PERMANENTLY.

USING A METALLIC CLEANING PRODUCT SUCH AS WIRE WOOL WILL DEPOSIT IRON PARTICLES INTO THE STAINLESS STEEL WHICH COULD CAUSE CORROSION OF THE STAINLESS STEEL FINISH.

#### INTERIOR CLEANING

CLEAN THE INTERIOR OF THE ICE BIN AND ALL REMOVABLE PARTS BY WASHING THEM WITH A SOLUTION OF LUKEWARM WATER AND A SMALL AMOUNT OF DISH-WASHING LIQUID. RINSE AND DRY IMMEDIATELY. THE ICE STORAGE BIN IS FOR STORAGE OF ICE ONLY, NEVER STORE ANYTHING OTHER THAN ICE IN THE STORAGE BIN AS THIS IS A HEALTH HAZARD.

#### AIR FILTER

THE ICE MAKER IS EQUIPPED WITH AN AIR FILTER TO PREVENT DIRT AND DUST ENTERING THE CONDENSER. IT IS IMPORTANT THAT THE AIR FILTER IS CLEANED TWICE A MONTH TO ENSURE EFFICIENT OPERATION OF THE ICE MAKER.

TO CLEAN YOUR AIR FILTER SLIDE THE FILTER OUT FROM THE FRONT GRILL AND REMOVE ANY DUST OR DIRT USING A SOFT BRUSH AND A VACUUM CLEANER. IF THE AIR FILTER IS HEAVILY BLOCKED WE RECOMMEND USING WATER AND A MILD DETERGENT TO CLEAN THE FILTER.

IMPORTANT: AIR FILTER MUST BE CLEAN AND DRY BEFORE REPLACING INTO THE MACHINE.

IMPORTANT: DO NOT OPERATE YOUR ICE MAKER WITHOUT THE AIR FILTER IN PLACE

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FAILURE TO CLEAN YOUR AIR FILTER COULD CAUSE COMPONENT FAILURE AND WILL INVALIDATE YOUR WARRANTY.

#### CONDENSER CLEANING

A DIRTY OR CLOGGED CONDENSER WILL PREVENT PROPER AIR FLOW. THIS WILL LEAD TO REDUCED EFFICIENCY, REDUCED ICE PRODUCTION AND AN INCREASE IN OPERATING TEMPERATURE WHICH MAY LEAD TO COMPONENT FAILURE. WE RECOMMEND THE CONDENSER IS CLEANED EVERY SIX MONTHS BY A QUALIFIED ENGINEER. TO CLEAN THE CONDENSER DISCONNECT THE ICE MAKER FROM THE MAINS ELECTRICITY. REMOVE THE SCREWS FROM THE BOTTOM PANEL AND GENTLY REMOVE THE GRILL. REMOVE DIRT AND DUST FROM THE CONDENSER FINS WITH A SOFT BRUSH AND VACUUM CLEANER. REATTACH THE FRONT GRILL AND RECONNECT POWER TO THE MACHINE.

# \Lambda WARNING

FAILURE TO CLEAN YOUR CONDENSER COULD CAUSE COMPONENT FAILURE AND WILL INVALIDATE YOUR WARRANTY.

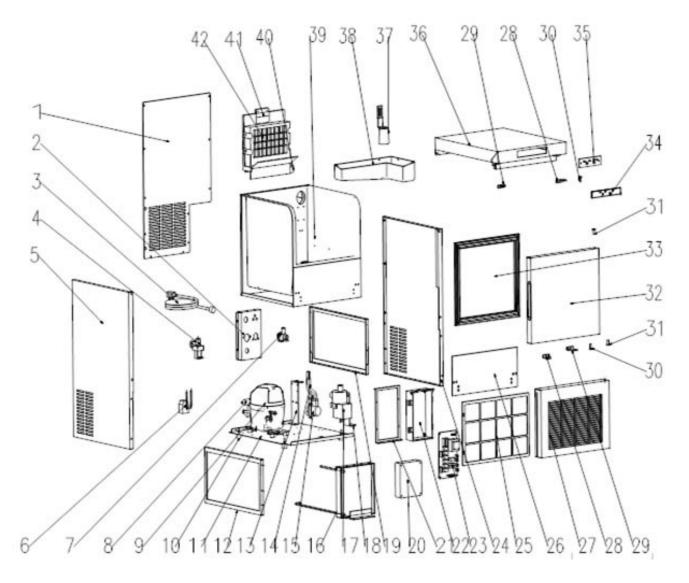
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CONDENSER CLEANING MUST BE CARRIED OUT BY A QUALIFIED ENGINEER

#### **TECHNICAL DATA**

ICE PRODUCTION	22KG PER 24 HOURS
ICE STORAGE	6KG STORAGE BIN
VOLTAGE	230V/50HZ
RATED POWER	155W
CLIMATE CLASS	SN,N,ST
REFRIGERANT	R290
REFRIGERANT CHARGE	55G
UNIT DIMENSIONS	380 X 470 X 600 (W,D,H MM)
AMBIENT OPERATING AIR TEMPERATURE	10°C - 32°C
WATER SUPPLY TEMPERATURE	7°C - 32°C
WATER SUPPLY PRESSURE	1.4 - 5.5BAR

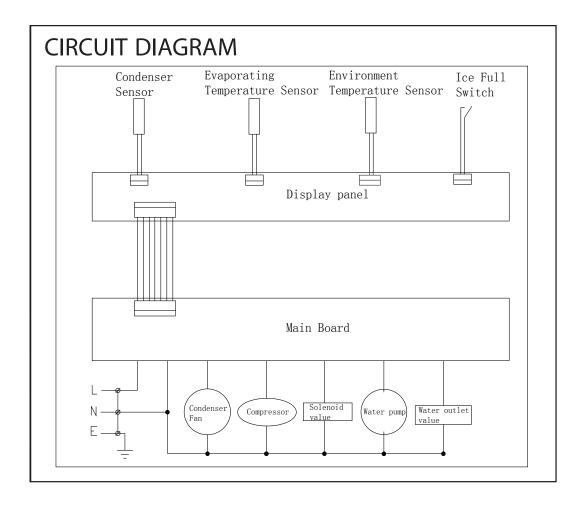
#### PARTS DIAGRAM



PART IV

DRAWING #	DESCRIPTION	PART NUMBER
1	REAR PANEL	CL20PANEL01
2	WATER INLET VALVE BRACKET	CL20BRACKET01
3	POWER CORD	CL20CABLE01
4	N/A	N/A
5	LEFT PANEL	CL20PANEL02
6	N/A	N/A
	DRAINAGE THREE WAY TEE PIECE	CL20TEE02
8	FILTER DRIER	CL20DRIER01
9	COMPRESSOR	CL20COMP01
10	FOOT	CL20FOOT01
11	BASE PANEL	CL20BASE01
12	N/A	N/A
13	N/A	N/A
14	WATER PUMP THREE WAY TEE PIECE	CL20TEE01
15	WATER OUTLET VALVE	CL20VALVE02
16	CONDENSER	CL20COND01
17	WATER PUMP	CL20PUMP01
18	N/A	N/A
19	N/A	N/A
20	CONDENSER FAN MOTOR	CL20MOTOR01
21	N/A	N/A
22	PCB HOUSING	CL20HOUSING01
23	MAIN PCB BOARD	CL20BOARD01
24	RIGHT PANEL	CL20PANEL03
25	AIR FILTER	CL20FILTER01
26	N/A	N/S
27	FRONT GRILL	CL20GRILL01
28	N/A	N/A
29	N/A	N/A
30	HINGE AXIS + BUSHING	CL20BUSH01
31	SEE #30	N/A
32	DOOR	CL20DOOR01
33	DOOR GASKET	CL20GASKET01
34	N/A	N/A
35	DISPLAY BOARD	CL20BOARD02
36	TOP PANEL	CL20PANEL01
37	WATER LEVEL FLOAT	CL20FLOAT01
38	WATER TANK	CL20TANK01
39	N/A	N/A
40	BIN SENSOR	CL20SENSOR01
41	N/A	N/A
42	EVAPORATOR	CL20EVAP01
42	EVAPORATOR	CL20EVAP01

#### WIRING DIAGRAM



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