Whirlpool

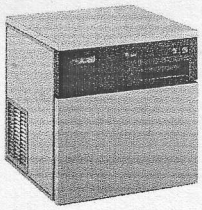
ICE MAKERS

MANUAL OF INSTRUCTIONS FOR USE AND INSTALLATION

Pentland
wholesale limited

Whirlpool

Datasheet – K20 Ice Makers



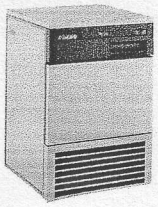
Specifications

Ice Production	24KG/24HOURS 3500 CUBES / 24 HOURS 60-70 Cubes Approx. Per Cycle
Cube Size **Thickness (Variable)**	29 X 29MM 10 – 12MM
Storage bin capacity	10KG
Length of cycle	17MINS 1ST CYCLE WILL TAKE UPTO 45MINS DEPENDENT ON WATER TEMP
Ventilation	BOTHSIDES REQUIRE VENTILATION 50mm Min. Clearance each side
Condenser	AIRCOOLED
Ambient Range	13°C to 43°C
Voltage	240volts 50hz
Connection	13amp Plug
Dimensions (HxWxD)	590 x 555 x 535
Weight	38kg
Can be built in?	NO
Drain Connection	30mm
Water Connection	¾ BSP
Compressor	ASPIRA COMPRESSOR NB1116Z
Gas Charge	0.17kg R134a
Electrical Loading	400Watts

Features
Stainless Steel Finish
Crystal Clear Ice
Removable Door, Aids Cleaning & Hygiene
Insulated Polypropylene Storage Bin
Adjustable Ice Thickness
Adjustable Bin Thermostat

Whirlpool

Datasheet – K40 Ice Makers



Specifications

Ice Production	40KG/24HOURS 5600 CUBES / 24 HOURS 60-70 Cubes Approx. Per Cycle
Cube Size **Thickness (Variable)**	29 X 29MM 10 – 12MM
Storage bin capacity	20KG
Length of cycle	17MINS 1ST CYCLE WILL TAKE UPTO 45MINS DEPENDENT ON WATER TEMP
Ventilation	FRONT VENTILATION
Condenser	AIRCOOLED
Ambient Range	13°C to 43°C
Voltage	240volts 50hz
Connection	13amp Plug
Dimensions (HxWxD)	850 x 555 x 535
Weight	46kg
Can be built in?	YES
Drain Connection	30mm
Water Connection	¾ BSP
Compressor	ASPIRA COMPRESSOR NE5187Z
Gas Charge	0.22kg R134a
Electrical Loading	450Watts

Features

Stainless Steel Finish
Crystal Clear Ice
Removable Door, Aids Cleaning & Hygiene
Insulated Polypropylene Storage Bin
Adjustable Ice Thickness
Adjustable Bin Thermostat

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K20/K40

ICE MAKER MAINTENANCE

Always pull out the plug and turn off the water supply before doing any work (cleaning or repair) on the unit. Periodically clean the appliance (every 6 months) and the water system, to keep the appliance operating at maximum efficiency and to ensure the best ice cube quality. When the ice cube production time is increased, and the cubes start to lose their transparency, it is time to clean the water system. How often you clean the system depends on the hardness of the water. During freezing, the calcium in the water is deposited on the refrigerant plate. These deposits act as insulation, decreasing the efficiency of the appliance's performance.

HOW TO CLEAN THE WHIRLPOOL ICEMAKERS:

1) Turn off the water and switch off the appliance by pressing the green switch.
2) Open the ice bin and remove all the cubes.
3) Remove the plug or the drain hose (if provided) inside the bin.
4) Pour 1.5l of water mixed with 1/10 litre of vinegar or 4 tablespoons of lemon juice or citric acid into the bin using the funnel provided.
5) Press the two switches (green and blue) and operate the appliance for 40 minutes approx.
6) Release the two switches (green and blue) and drain this water mixture into the liner by inverting the position of the funnel.
7) Pour 1.5l water and 2 tablespoonful of baking soda into the bin, press the two switches (green and blue) and operate the appliance for 5 minutes approx.
8) Drain the water and repeat the operation, by rinsing with 1.5l of water and leaving the appliance operating for 5 minutes.
9) Remove the funnel with the hose after the water drain and replace the plug or the drain hose.
10) Clean the inside of the bin reservoir and the door gasket with a soft cloth dampened in a solution of warm water and baking soda.
11) Press the green switch and turn the water on: the ice maker will begin to work again.

We recommend you ask the intervention of a qualified technician to clean periodically (once a year) the condenser and the motor compartment.

Important:
To prevent odour contamination of the ice cubes, do not put foods or beverages into the ice cube bin. When not in use for long periods of time (holidays, etc.) turn off the water, pull out the plug, remove all ice cubes, drain the water tank by removing the plug or the drain hose and leave the door open to prevent the formation of odours.

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ADJUSTING THE ICE CUBE THICKNESS

Ice cube thickness is pre-set at the factory. The thickness can be increased or decreased by turning the thermostat knob with a screwdriver. Turning the knob clockwise increases the thickness, turning it anti-clockwise decreases the thickness. By means of the thermostat knob it is possible to adjust the variations due to the ambient temperature, when it is higher than 32°C and lower than 10°C.

- Never turn the thermostat knob outside the field indicated on the dial.
- Adjust the ice thickness thermostat only after a few hours operation and only after the bin has half-filled with ice cubes.
- Non-observance of the thermostat setting rule could result in damage to the ice maker, especially if the thermostat knob is left on a low setting in a high room temperature.

In this case the ice could become so thick the ice will not cut. On the other hand, the ice thickness could be reduced to a minimum or none at all.

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ADJUSTING THE BIN THERMOSTAT

The thermostat is pre-set at the factory.
However, if the ambient temperature is higher than + 32°C it is necessary to adjust the thermostat knob to position (Sun Symbol = Hot), if the ambient temperature is lower than +16°C, it will be necessary to adjust the thermostat knob to position (Snowflake = Cold).

Whirlpool K20/K40 Fault finding Guide

Symptoms	Possible cause
Machine doesn't run when plugged in	Mains fuse blown On/Off switch faulty Clean switch faulty Bin thermostat faulty-open circuit Machine is off on Bin Stat, may need adjusting
Evaporator freezing but no water running over evaporator	Mains water tap turned off Water inlet valve faulty Water pump impellor cover loose Water pump seized/open circuit Hot gas coil open circuit
Ice bin full of water with little or no ice and water leaks from front of machine	Drain hose kinked or blocked Drain hole in ice bin blocked Dirty evaporator holding ice back when pump restarts Incorrectly installed drains Water pressure too high Water inlet valve restrictor blown out
Machine doesn't make ice fast enough	Condenser blocked Water inlet valve leaking through Dirty Evaporator/spray arm Lack of adequate ventilation Ambient temperature too low or too high Short of Refrigerant gas
Ice too thick ****K40 Model only**	Ice thickness thermostat set too high Ice thickness thermostat faulty Condenser blocked Inadequate ventilation Dirty evaporator Hot gas coil open circuit Condenser fan motor faulty **Microswitch activator above cutter grid sticking **Cutter Grid faulty
Ice too thin	Dirty evaporator/spray arm Blocked water inlet filter(causing water starvation) Ambient temperature too low Splash guard sticking Drain blocked or slow drain Water pressure too high Water inlet valve restrictor blown out Short of refrigerant gas

Symptoms	Possible cause
Water pours into ice bin	Rubber Bung missing from water reservoir Dirty evaporator Cutter grid out of position Cutter grid faulty/transformer faulty/fuse blown Water inlet valve restrictor blown out
Ice sticks together in the ice bin and can be white in colour ****K40 model only**	Dirty evaporator/spray arm Anbient temperature too low Hard water(fit water softener) Hot gas valve seeping through causing slush to form **Evaporator base flap missing
Machine will not go into defrost when ice thickness stat is turned fully anti-clockwise	Hot gas coil open circuit Water inlet valve open circuit **Microswitch actuator sticking above cutter grid
Condenser fan motor turns slowly on defrost	Fan motor windings resistance incorrect, should be 261 ohms Hot gas coil resistance incorrect, should be 1.33 kohms Water inlet valve resistance incorrect, should be 4.07 Kohms
Machine uses too much water	Ambient temperature too low Dirty evaporator Water inlet valve restrictor blown out Water inlet valve seeping through Incorrect water inlet valve fitted Water pressure too high
Machine doesn't defrost long enough	Ambient temperature too low Dirty evaporator Short of refrigerant gas Ice thickness stat fitted incorrectly Sheath missing from ice thickness stat Ice thickness stat faulty
Machine runs but not freezing	Condenser fan motor faulty/jammed up Water inlet valve stuck open Hot gas valve leaking through(a tap may close it) Short of refrigerant gas Blockage in refrigerant system Compressor electrics/compressor faulty