WHIRLPOOL (R404a)
TECHNICAL SERVICE MANUAL
ICE CUBE MAKERS
MODELS:
WWWD L DO OL 4 GG 00 4 (00 g
WHIRLPOOL AGS 836/837
WHIRLPOOL AGS 838/839
WHIRLPOOL AGS 840/841
WHIRLPOOL AGS 842/843
WHIRLPOOL AGS 844/845
WHIRLPOOL AGS 846/847
WHIRLPOOL AGS 848/849
MODULARS:
WHIRLPOOL AGS 850/851 (MODULAR 200)
CAREFULLY READ THE INSTRUCTIONS CONTAINED IN THIS MANUAL SINCE THE
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CAREFULLY READ THE INSTRUCTIONS CONTAINED IN THIS MANUAL SINCE THEY PROVIDE IMPORTANT INFORMATION RELATIVE TO SAFETY DURING INSTALLATION, USE, AND MAINTENANCE.

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TABLE OF CONTENTS

Introduction	
Warnings	3
Description	
Operating Principles	5
Specifications	
Diagrams of connections and dimensions (undercounter models)	
Consumption data, weights, crated dimensions and volumes (undercounter	models)
Technical data (undercounter models)	10
Production Tables	11
Delivery & Unpacking	
Packing	13
Rating plate and serial number	13
Installation	
Recommended placement of unit	
Water and drainage	
Connecting unit to water source	
Connecting unit to drain	
Electrical connection	15
Operation principle	
Preliminary check	17
Cross check	
Adjustment	
Water level	18
Water pressure control valve	18
Pressure control	19
Safety pressostat	
Maintenance and cleaning instructions	
Maintenance table	20
Water condenser	21
Air condenser	21
Evaporator / water deposit	21
Inlet filters	22
Special advice concerning r-404 refrigerant	23
Troubleshooting	2.4
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INTRODUCTION

Thank you for choosing Whirlpool ice cube makers.

You have purchased one of the most reliable ice-making products on the market today. Carefully read the instructions contained in this manual since they provide important information relative to safety during installation, use, and maintenance.

WARNINGS

This appliance should be installed by approved Technical Service Personnel.

This plug should be accessible at all times.

To reduce the risk of electrical shock, ALWAYS disconnect the machine BEFORE cleaning or maintaining the equipment. Do not attempt to install, service, or modify this machine. Improper use by other than specially trained technicians is extremely dangerous and may result in a fire or electric shock.

This machine should not be placed outdoors or exposed to rain.

Connect to drinking water mains.

This appliance is not intended for use by young children or infirm persons without supervision.

Young children should be supervised to ensure that they do not play with the appliance.

IMPORTANT!

- DO NOT ATTEMPT TO SERVICE THIS MACHINE AS IT IS DANGEROUS AND COULD CAUSE SEVERE DAMAGE TO THE UNIT.
- •SERVICE SHOULD ONLY BE CARRIED OUT BY TRAINED, CERTIFIED PERSONNEL.
- •WE STRONGLY RECOMMEND USING ONLY ORIGINAL REPLACEMENT PARTS AVAILABLE FROM AN AUTHORIZED DISTRIBUTOR.
- •WASTE AND OTHER MATERIAL SHOULD BE DISPOSED OF ACCORDING TO LOCAL REGULATIONS AND PROCEDURES FOR WASTE DISPOSAL.
- •CLEANING AND MAINTENANCE ARE NOT COVERED BY THE WARRANTY.

DESCRIPTION

The ice cubes maker is the result of years of experience in this field and the development of a high technology factory.

Main Features

- Storage bin made of polyester strengthened with glass fibre or ABS
- Stock bin made of high resistance plastic materials
- Polyurethane insulation injected "IN SITU"
- Heavy duty door (pat.) except AGS 836/837/838/839 and 850/851.
- Agitator motor for continuous service
- Tough cam motor (50 Kg/cm)
- Safety device and clutch for the water pan preventing its breakage during the upward cycle, (pat.)
- Machine stoppage and water pan protection during the downward cycle, (pat.)
- The stock ice is the maximum than it could be thanks to the stop machine system.
- Low noise
- High pressure safety pressostats even in air-cooled machine.
- Large condensers (work well at high ambient temperatures; and reduce cooling water consumption in water-cooled machines).
- Clear cubes.
- Ices Cubes can be adjusted (height and diameter).
- Easy to maintain and repair.

HOW IT WORKS

When the machine is switched on the compressor and the agitator motor start, the water entry valve opens and allows water into the production pan up to a level where the float makes a micro-switch cut the current to the valve and so stop water entering the tray. The compressor, controlled by capillaries produces enough cold in the evaporator to gradually freeze the water around its "fingers".

When the ice so formed reaches the proper size the paddles of the agitator are stopped and its motor, suspended, works the end of cycle micro-switch.

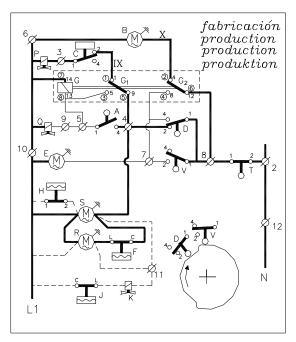
This micro-switch connects the relay that starts the cam motor. When the micro-switch has fallen, opens the hot gas valve and stops the agitator motor. The compressor continues working for another 20", then stops, and the agitator motor is connected. The cam motor starts to move downwards, making part of the surplus water flow to the drain, and dropping the ice cubes, pushed by the ejection plate into the storage bin.

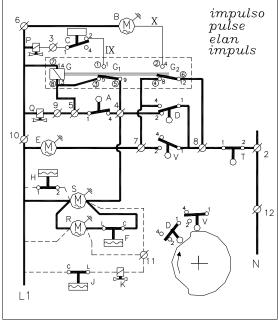
The pan eventually gets back to its initial position and so starts another production cycle.

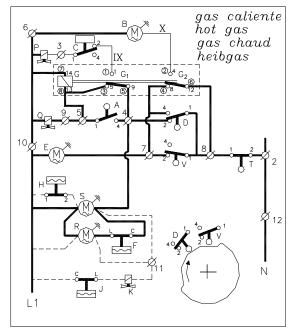
Once the storage bin is full the pan stops in its downward movement as it touches the cubes, so working the safety stop micro-switch and switching off the machine. Production will start again as soon as the cubes which detained it move or are removed.

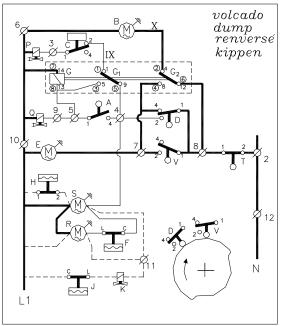
WHI RLPOOL

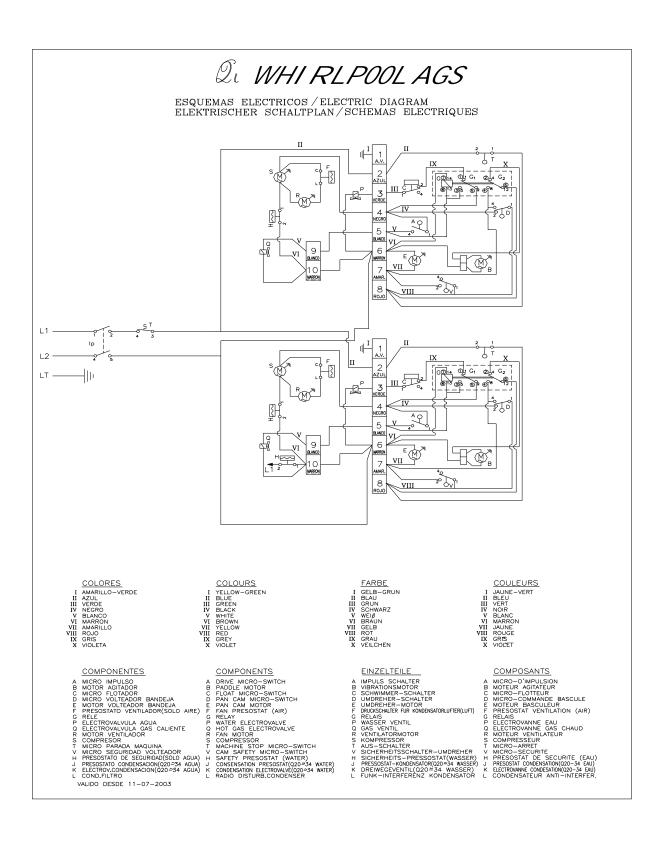
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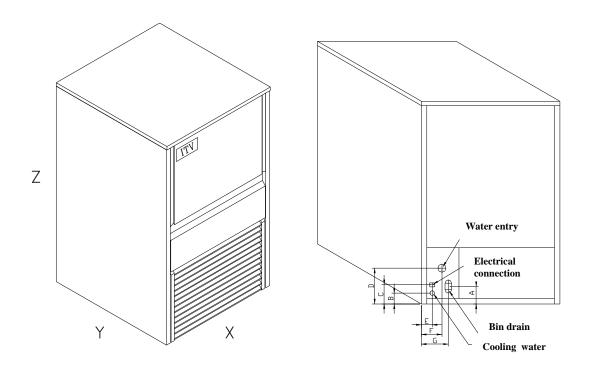






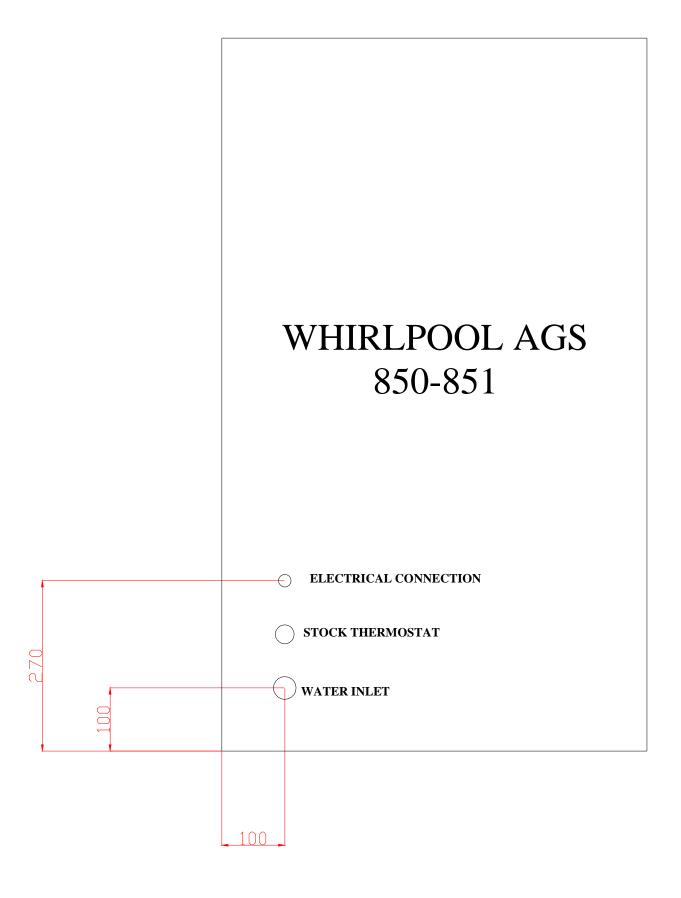
SPECIFICACIONS

Models: WHIRLPOOL AGS 836....849



 * HEIGHT Z REPRESENTS MINIMUM MACHINE HEIGHT. IF LEGS ARE PLACED UNDER MACHINE, THEN ADD AN EXTRA 80 MM. *

MODEL	X	Y	Z	A	В	С	D	Е	F	G
WHP AGS 836/837	405	510	690	60	35	65	123	45	65	105
WHP AGS 838/839	405	510	745	60	35	65	123	45	65	105
WHP AGS 840/841	405	510	870	60	35	65	123	45	65	105
WHP AGS 842/843	515	555	870	60	42	74	123	65	75	105
WHP AGS 844/845	595	555	995	60	42	74	123	65	75	105
WHP AGS 846/847	675	555	995	60	42	74	123	65	75	105
WHP AGS 848/849	845	555	995	60	42	74	123	65	75	105



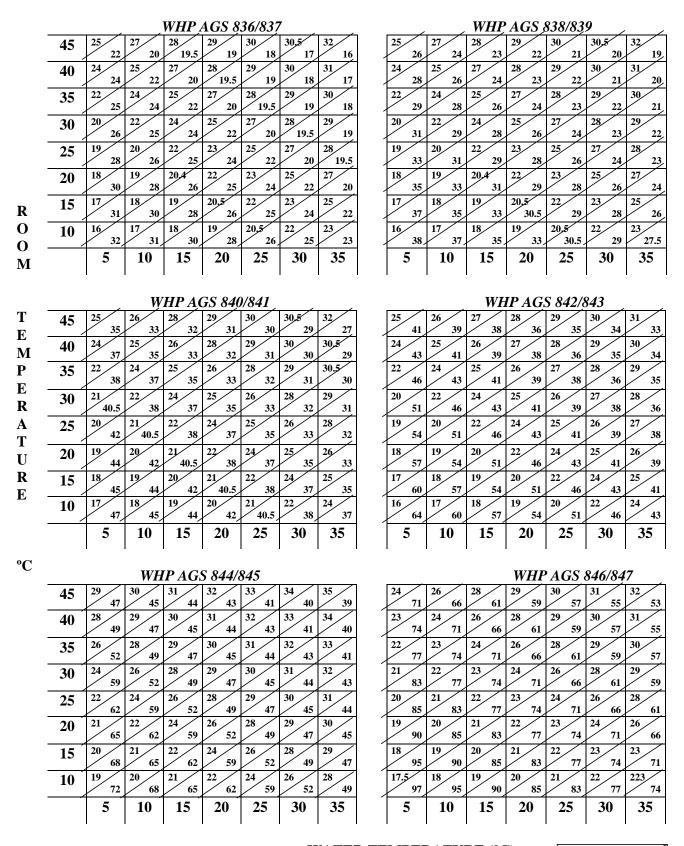
TECHNICAL DATA

MODEL	COOLING WATER	ICE PRODUCTION	TOTAL WATER	NET WEIGHT	DIMENSIONS CRATED	GROSS WEIGHT	VOLUME
	USAGE L/HOUR (1)	WATER USAGE L/HOUR (1)	USAGE L/HOUR (1)	(KG)	X*Y*Z	(KG)	(M ³)
WHP AGS 836		4	4	36	490x595x765	41	0.22
WHP AGS 837	15	4	19	36	490x595x765	41	0.22
WHP AGS 838		4	4	39	490x595x830	44	0.24
WHP AGS 839	15	4	19	39	490x595x830	44	0.24
WHP AGS 840		5	5	42	490x595x960	46	0.28
WHP AGS 841	25	5	30	42	490x595x960	46	0.28
WHP AGS 842		7	7	48	610x640x960	56	0.37
WHP AGS 843	33	7	40	48	610x640x960	56	0.37
WHP AGS 844		6	6	55	690x640x1080	66	0.47
WHP AGS 845	35	6	41	55	690x640x1080	66	0.47
WHP AGS 846		23	8	60	770x640x1080	74	0.53
WHP AGS 847	45	23	68	60	770x640x1080	74	0.53
WHP AGS 848		11	12	80	940x640x1080	95	0.65
WHP AGS 849	53	11	64	80	940x640x1080	95	0.65
WHP AGS 850		11	11	98	900*650*1200	113	0.702
WHP AGS 851	70	11	81	98	900*650*1200	113	0.702

MODEL	REFRIG. CHARGE]	HIGH PI	RESSURI	E	L(PRES	OW SURE	TOTAL CURR.	FUSES	COMPRESSOR OUTPUT	TOTAL OUTPUT
		MÍNI	MUM	MAXI	MUM	AVE	RAGE	(2)		(1)	(2)
	(GR)	Kg/cm ²	Psi	Kg/cm ²	Psi	Kg/cm ²	Psi	(A)	(A)	(W)	(W)
WHP AGS 836	260	16	228	17	240	2.5	38	1.5	10	175	220
WHP AGS 837	190	16	228	17	240	2.5	38	1.5	10	175	220
WHP AGS 838	260	16	228	17	240	2.5	38	1.5	10	190	220
WHP AGS 839	190	16	228	17	240	2.5	38	1.5	10	190	220
WHP AGS 840	270	16	228	17	240	2.5	38	1.7	10	190	270
WHP AGS 841	205/195	16	228	17	240	2.5	38	1.7	10	190	270
WHP AGS 842	270	16	228	17	240	2.5	38	2	10	210	300
WHP AGS 843	290	16	228	17	240	2.5	38	2	10	210	300
WHP AGS 844	370/390	16	228	17	240	2.5	38	2.2	10	210	310
WHP AGS 845	370	16	228	17	240	2.5	38	2.2	10	210	310
WHP AGS 846	370/380	16	228	17	240	2.5	38	2.8	10	365	450
WHP AGS 847	360	16	228	17	240	2.5	38	2.8	10	365	450
WHP AGS 848	425	16	228	17	240	2.5	38	3	10	440	500
WHP AGS 849	425	16	228	17	240	2.5	38	3	10	440	500
WHP AGS 850	400	16	228	17	240	2.5	38	6	10	440	1000
WHP AGS 851	340	16	228	17	240	2.5	38	6	10	440	1000

Data obtained at room temperature (20°C), water introduced at 15°C; water quality = 500ppm
 Maximum consumption obtained at room temperature = 43°, according to UNE climate classification Class T (Tropicalised).
 NOTE: Expansion controlled by capillary.

PRODUCTION TABLES FOR ICE CUBE MAKERS (KG/DAY)



WATER TEMPERATURE (°C)
Water quality= 500 ppm (240 Micromh/cm)

Min/cycle Kg/day

		WHF	PAGS	848/84	19		
45	24 99	26 92	28 85	29 81	30 79	31 77	32 74
40	23	24 99	26 92	28 85	29 81	30 79	31 77
35	22	23	24 99	26 92	28 85	29 81	30 79
30	21	22	23	24 99	26 92	28 85	29 81
25	20 119	21	22	23	24 99	26 92	28 85
20	19	20	21	22	23	24 99	26 92
15	18	19	20 119	21	22	23	24 99
10	17	18	19	20	21	22	23
	5	10	15	20	25	30	35

				WHI	AGS	850/85	5I
	19.5	20 143	21	23	26	27.5	28.5
/	18.5	19.5	20	21	23	26	27,5
/	16.5	151	143	138	126 21.5	23	99
/	174	160	151	145	131	125	110
	15.5 187	16.5 174	18.5 160	19	20 143	21.5	125
	14.5	15.5 187	16.5 174	17	19	20 140	21.5
	14 208	14.5	15.5 187	16	18.5	19	20 140
	13.5	14 208	14.5	15.5 185	16.5 174	18.5	19
,	12.5	13.5	14 204	15	15.5 187	16	18.5 158
,	5	10	15	20	25	30	35
		l	l	l	l	l	ļ.

Min/cy	cle
	Kg/day

WATER TEMPERATURE (°C) Water quality= 500 ppm (240 Micromh/cm)

DELIVERY & UNPACKING

Upon receipt, thoroughly inspect the packing container. If there appears to be damage to the container contact the shipper immediately. Unpack unit in the presence of delivery personnel noting any damage on the waybill.

Whirlpool packing bears the "Green Point" on all models according to the European Directives on management of Packaging and Waste Disposal.

Be sure to include model name and serial number on all claims. Serial number is located in the following three places:

Packing

There is a label stick onto the cardboard packing bearing this serial number (1).

Machine body

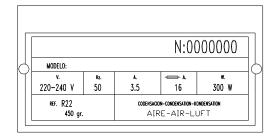
On the machine's rear panel (1).

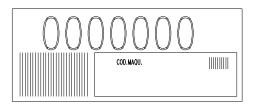
Rating plate and serial number

Located at the back of the machine.

Water cooled machines: check that the drainage hose at the back of the machine is in good condition.

Verify that the installation kit is inside the bin, and has the following pieces: scoop, 3/4' water hose, two small filters and user manual.





WARNING: DO NOT LEAVE PACKING MATERIALS (PLASTIC BAGS, CARDBOARD BOXES, ETC.) WITHIN REACH OF CHILDREN.

INSTALLATION

The ice cube maker is delivered on a small wooden pallet and is protected with a cardboard box and packaging. Loosen the cardboard box by cutting the straps, then lift vertically.

After having removed the packaging, make sure the machine is complete. If in doubt do not use it and go to the distributor who sold it to you.

This operation has to be performed with the wooden base structure firmly placed on the ground. All packaging elements (plastic bags, cartons, etc..) must not be left at children's reach, since they are a potential source of danger.

Place the machine where it is to be installed, and verify, using a level control, that the machine is in a horizontal position.

CAUTION:

If the gap between the back of the machine and the wall of the room/bar is not sufficient, or if it is going to receive hot air from another machine, we strongly advise, in case of not being able to change the location of the machine, to **INSTALL A WATER-COOLED MACHINE.**

Bear in mind the previous considerations if the premises where the machines is located are very dusty, or smoky. If possible make arrangements so that the machine may be moved front-wise in order to carry out maintenance.

Recommended Placement of Unit

AGS machines are intended to operate at room temperature between 5°C and 43°C and with water temperature ranging between 5°C and 35°C. Below recommended minimum temperatures, ice cubes will be un-stick correctly and may form a slab or block of ice. Operation carried out over maximum recommended temperatures can result in shorter compressor life and decreased production.

Air-cooled units receive air input via front of machine and expel air through rear grill.

IMPORTANT!

If front and/or rear ventilation is inadequate, obstructed, or in close proximity to other heat producing machinery, USE OF A WATER-COOLED UNIT is strongly recommended.

Water inlet tube should not pass near heat sources: water entering the machine should be as cold as possible, but always above 5°C.

The above mentioned also applies should unit be installed in an area where dust, smoke, or other airborne pollutants may be present. Units—especially air-cooled—should not be installed in kitchens. To facilitate

access to condenser and/or water pressure valve, allow sufficient space at front of the machine. Be sure that flooring is firm and even.

Water and Drainage

Water quality influences ice hardness, flavour, and quality as well as condenser life.

Keep in mind the following points:

- a) WATER IMPURITIES: Major impurities are eliminated by filters provided. Filters should be cleaned regularly depending on purity of water. For minor impurities we recommend installing a 5-micron filter (Provided with the unit: Part # 207499).
- b) WATER WITH MORE THAN 500 PPM: Ice will be less hard and tend to adhere. Lime deposits may impede proper function. In water cooled models, condenser obstruction is likely. Installation of a high quality water softener is recommended.
- c) CHLORINATED WATER: Chlorine taste can be avoided by installing a carbon filter (Part # 207509). (NOTE: You may encounter water with all aforementioned properties.)
- d) PURIFIED WATER: A 10% reduction in overall production may occur.

Connecting Unit To Water Source

- •Use 1.3 m. flexible tube (with two filters attached) provided. NOTE: We advise using a single faucet fixture.
- •Water pressure should be between 0.7 and 6 Kgs/cm2. (10/85 Psi.)
- •If water pressure exceeds these values, installation of appropriate corrective units will be necessary.
- •It is important that water tubing does not come close to or in contact with any heat sources or heat generated by unit as this could decrease production.

Connecting Unit To Drain (Water Cooled Models)

•Drain must be located at least 150mm. below machine level. Drain tube must have an inner diameter of 30mm. with a minimum gradient of 3 cm per metre.

Electrical connection

• Unit is provided with a 1.5 m cord and Schucko socket.

- It is recommended to install a switch and adequate fuses. Nominal voltage and intensity are indicated on rating plate as well as on this manual's technical pages. Voltage fluctuations greater than 10% can cause problems or prevent machine from starting.
- Line to base of plug must have a minimum section=2.5 mm2.
- Ensure voltage indicated on rating plate corresponds to that of mains supply.

Machine levelling

Place machine where it is required, and level the machine ONCE all four legs have been screwed on

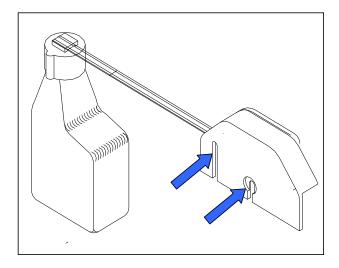
Space requirements

There should be a 150 mm gap on sides and top of the machine so as to allow air to circulate and prevent heat build-up.

Float (buoy) valve level

This valve is factory set, but may need to be adjusted if mains water pressure is very high or very low. To do so, loosen the two small screws which connect the micro-switch to the steel support. Move micro-switch as required and tighten screws. Water level must be about 5mm below the evaporator coil to, otherwise there may be difficulty in releasing cubes in winter.

Note that if mains pressure is subject to large fluctuations, it will be difficult to maintain a constant water level, in this case it may be advisable to install a pressure regulator on the water mains line.



IMPORTANT!

Supply socket must be properly earthed. Be sure to check standard for country where appliance is going to be installed.

OPERATION

Preliminary Check

- a) Is machine levelled?
- b) Are voltage and frequency of main supply the same as indicated on rating plate?
- c) Is drainage system functioning?
- d) Is air circulation and room temperature adequate? (Air-cooled models)

R	OOM TEMPERATURE	WATER TEMPERATURE
MAXIMUM	43° C	35° C
MINIMUM	5° C	5° C

e) Is water pressure adequate?

 MAXIMUM
 0.7 Kg/cm2

 MINIMUM
 6 Kg/cm2

ATTENTION: Check that voltage and mains frequency are the same as in the rating plate.

Starting up

Once preliminary check has been completed (ventilation, connections, temperature, etc.), proceed as follows:

- 1) Open water faucet. Check for leaks.
- 2) Plug machine into electricity mains supply.
- 3) Ensure that there are no strange vibrations or scraping sounds
- 4) Check that the water curtain moves freely
- 6) After 10 minutes, check that the water bin has no leaks on the maximum level overflow.
- 7) At the cycle's end, there should be frost formed on the compressor inlet tube except for the last 50 mm.

IMPORTANT!

Be sure voltage and frequency of main supply correspond to indicated levels on rating plate.

ADVISE THE FINAL USER ON MAINTENANCE PROCEDURES WHICH ARE NOT INCLUDED IN WARRANTY, AS WELL AS THOSE BREAKDOWNS CAUSED BY NEGLECT OF PROPER MAINTENANCE PROCEDURES.

ADJUSTMENTS

Condenser water valve pressostat

(UP TO WHP AGS 841 WATER COOLED)

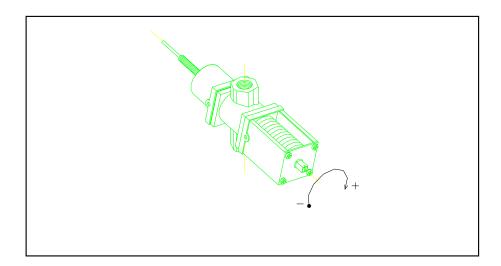
This pressostat controls high pressure by opening and closing the condenser water valve. Differential is a fixed 1 Kg/cm2 (14 Psi). The valve closes at 16 Kg/cm2 (228 Psi.) which is equivalent to a water exit temperature of 38°C. below this pressure it will be difficult to unstick the cubes in the defrosting stage. Above this pressure, compressor life and ice production are both reduced. Pressure can be increased by turning the small screw clockwise. A full turn is equivalent to about 1.5 Kg/cm2.

Water Pressure Control Valve

FROM AGS 843 (ONLY ON WATER COOLED MACHINES)

- •High pressure should be maintained at 16-17 bar (228-240 Psi) must be maintained which corresponds to a water temperature of 40° C (exit temperature).
- •When temperature exceeds 32°C, pressure and temperature of water at exit increase.

REGULATION: Water pressure and temperature can be decreased by regulating screw clockwise.

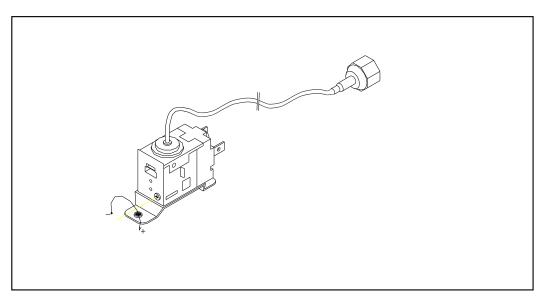


Pressure Control

Fan pressostat (air condensation)

<u>Pressure Control</u> operates on high pressure by starting and/stopping fan. Differential is fixed. (1Kg/cm2 or 14 Psi.) Cut-off pressure must be 16 Kg/cm2 (228 Psi) Low pressure values may cause gearbox malfunction. Pressure values higher than 16 Kg/cm2 may shorten compressor life and diminish ice production.

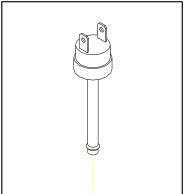
Pressure can be regulated by rotating screw on <u>Pressure Control Valve (clockwise to increase pressure)</u>. One rotation equals 1.5 Kg/cm2.



Safety pressostat

This Security device trips when discharge pressure is too high. Pressure might exceed the limit when:

- a) Air circulation is not sufficient, room temperature is too high or condenser is dirty (air condensation models).
- b) There is not enough water in the system or water ten too high (water-cooled models).



HIGH PRESSURE REGULATION (fixed):

29-21 Kg/cm2 (406-296 Psi)

MAINTENANCE AND CLEANING INSTRUCTIONS

IMPORTANT!

**Maintenance and cleaning procedures as well as problems derived from failing to carry them out are not covered by the warranty.

Proper maintenance is essential to obtain favourable ice quality and optimum function of unit. Frequency depends on water quality and characteristics of room where unit is installed.

IMPORTANT:

** Maintenance/cleaning procedures should take place at least once every six months. If concentration of air pollutants is high, complete procedures on a monthly basis.

MAINTENANCE TABLE

PROCEDURE	MONTHLY	QUARTERLY	BIANNUAL	YEARLY	BIENNIAL	DURATION
Air condenser cleaning	0000	0000	****	****	****	30 minutes
Water condenser cleaning				####	****	90 minutes
Water circuit cleaning		####	####	****	****	45 minutes
Sanitary cleaning		####	####	****	****	30 minutes
Water filter cleaning/replacement	####	####	****	****	****	30 minutes
Stock deposit cleaning.	&&&	&&&	&&&	&&&	&&&	
Unit cleaning	&&&	&&&	&&&	&&&	&&&	

0000 Depending on room characteristics #### Depending on water quality &&Carried out by owner **** ESSENTIAL

Maintenance and cleaning procedures as well as problems derived from failing to carry them out ARE NOT COVERED BY THE WARRANTY.

Service personnel will invoice you for travel expenses, time invested and materials required for maintenance and cleaning of unit.

MAINTENANCE AND CLEANING PROCEDURES

WARNING: Unit should always be disconnected during maintenance/cleaning procedures.

Water Condenser

- 1) Disconnect machine.
- 2) Close water faucet.
- 3) Disconnect water entry/exit from condenser.
- 4) Prepare a solution of 50% phosphoric acid in distilled water.
- 5) Distribute solution through condenser. (Solution is more effective at 35°-40°C).

WARNING!

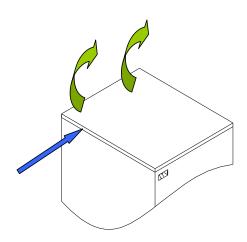
DO NOT USE HYDROCHLORIC ACID

Air Condenser

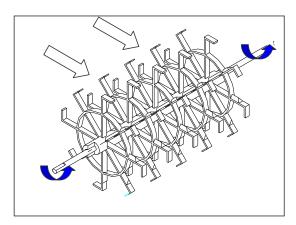
- 1) Disconnect machine.
- 2) Close water faucet.
- 3) Clean condenser using a vacuum cleaner, brush or low pressure air.

Removing scale (lime) from ice production mechanisms

- 1) Close the water inlet faucet.
- 2) Remove lid from top of machine by pulling upwards from the rear part of the lid. Some force is required for this it may be better to prise it open with a flat screwdriver.



3) Hold agitator paddles so that water pan releases water.



- 4) Once the water pan returns to its horizontal position again, switch off the machine. Pour 3 litres of water and one half of di-caloid (cleaner) into water pan
- 5) Allow the solution to work for 20 or 30 minutes, occasionally turning the paddles by hand so that they are also cleaned.
- 6) Turn on the machine and hold paddles so that pan releases water.
- 7) Open the water inlet faucet and allow the water pan to fill with water.
- 8) Dissolve a spoonful of sodium bicarbonate in a glass of water, then pour solution into water tray. Wait 5 minutes.
- 9) Repeat (6) several times until water pan has been thoroughly rinsed.

WARNING:** Discard ice produced during cleaning procedure.

Cleaning the ice bin

- 1) Unplug the machine, turn off water supply, and empty storage bin of ice
- 2) Wipe with a kitchen cloth soaked in bleach and detergent
- 3) If white lime stains do not vanish, rub with some lemon or vinegar, wait for a few minutes and wipe with the cloth again.
- 4) Rinse with plenty of water, dry, and run the machine

Cleaning the outside of the machine

Follow the same procedure as for the ice bin.

Cleaning the water inlet filters

These round wire gasket filters placed on either end of the water hose to mains, often become blocked in the first few days of use, especially when the plumbing installation is new. Clean them under a jet of water.

Checking for water leaks

This must be done whenever maintenance is carried out on the machine: check all water connections, braces, tubes and hoses in order to eliminate leaks and prevent breakages and flooding. Check that the valve closes tightly on models with an automatic cleaning system.

SPECIAL ADVICE CONCERNING R-404 REFRIGERANT

- R-404 is a <u>mixture</u> of 3 liquid-phase gases. On evaporating, the 3 component gases separate
- Always use the liquid phase valve (at the end of condenser or accumulator) for refills and purges.
- When replacing a compressor. wash inside of circuit with a suitable solvent + pump, dry with nitrogen,
 REPLACE THE DRIER WITH ONE SUITABLE FOR
- R-404, which must also have ANTI-ACID properties.
- If you need to add oil, use one which is specific for R-404 (POE). If you are in doubt, contact the machine manufacturer.
- If there is a leak anywhere in the circuit where R-404 in the GAS phase, and a refill of over 10% is required, then ALL THE GAS IN THE CIRCUIT MUST BE PURGED AND THEN REFILL AS DESCRIBED PREVIOUSLY (LIQUID PHASE VALVE)

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSES	SOLUTION
1) None of the electrics work.	A) The machine is not plugged in.	A) Plug the machine.
	B) The line fuse has blown.	B) Replace fuse.
	C) The current line is wrongly connected in	C) Check connections.
	the junction box.	
	D) The cut off micro-switch is faulty or	D) Verificar y regular o cambiar.
	wrongly adjusted.	
2) All the electrics work except	A) Loose wire.	A) Check connections.
compressor.		
	B) Faulty relay.	B) Replace relay.
	C) Faulty Klixon.	C) Replace Klixon.
	D) Faulty compressor.	D) Replace compressor.
		T
3) All the electrics work but the compressor "Klixons" (cycles intermittently).	A) Voltage too low.	A) Check voltage.
•	B) Dirty condenser.	B) Clean condenser.
	C) Obstruction in air circulation.	C) Move machine to a correct
		position.
	D) Fan has broken.	D) Replace fan.
	E) Starter capacitor faulty.	E) Replace condenser.
	F) Fan presostat faulty or wrongly adjusted.	F) Replace or adjust presostat.
	G) Water presostat valve faulty or wrongly	G) Replace or adjust.
	adjusted.	
	H) Cooling water pressostat is faulty or	H) Adjust or change.
	badly adjusted.	
	I) Cooling water entry valve is faulty.	I) Change.
	J) Non-condensable gases in system.	J) Purge system.

PROBLEM	POSSIBLE CAUSES	SOLUTION
4) Everything appears to be running	A) Freezing system faulty.	A) Check system.
correctly but no ice made in the	(dirty condenser, or problem into the	
evaporator.	freezing system).	
	B) Hot gas valve faulty (outlet pipe	B) Repalce hot gas valve.
	temperature would indicate this).	
5) The ice cubes form correctly but do not	A) The hot gas valve does not open.	A) Check valve.
unstick.	B) The lower cam micro-switch is faulty or	B) Replace micro-switch or connect
	wrongly connected.	it right
	(Only on water condensed machines)	C) Regulate water presostat to 40°C-
	Presostat faulty or opens too much	43°C.
	D) Faulty presostat.	D) Check or adjust presostat.
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6) Low ice production.	A) Water level in pan too low or too high.	A) Check water level. Look at the
•		position of the buoy.
	B) Blocked condenser.	B) Clean condenser.
	C) fan pressostat or cooling water inlet	C) Adjust or replace them
	valve out of order or wrongly adjusted.	, J
	D) wrong quatity of refrigerant	D) Draw vacuum and reload.
	E) Water intake valve does not close and	E) Check and replace if is necessary.
	drips.	,
	F) Humidity into the system	F) Replace drier, draw vacuum and
		reload
	G) Compressor out of order	G) Replace the compressor
	H) Water pan broke down.	H) Replace it.
	•	•
7) A sheet of ice forms in pan.	A) Agitator motor micro-switch faulty.	A) Check micro-switch.
•	B) Agitator motor faulty.	B) Check motor.
	C) Loose union bush pins	C) Tighten pins.
	D) Cutted wire	D)Replace itr
8) The machine does not stop though the	A) Connecting rod micro-switch faulty or in	Check micro-switch. Place this
bin is full of cubes.	wrong position.	correctly.
	B) Wrong pressure on this micro-switch	B) Verificar presión muelle.
	spring.	,
	C) In WHP AGS 850/851 model termostat	C) Replace termostat.
	faulty.	
9) Cubes are formed normally for some	A) Moisture in system.	A) Draw vacuum in installation by
cycles. Then the evaporator stops getting	,	heating compressor and dehydrator.
cold at some point.		Load with the correct refrigerant.
*	B) Foreing body blocking capillari at	B) Remove dehydrator.
	certain times.	Unblock capillary and replace with
		new dehydrator.
		Draw vacuum and reload.
10) The pan remains in stop position	A) Connecting rod micro-swith faulty or in	A) Replace or change position of
althought cubes have dropped out.	wrong position.	micro-switch.
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PROBLEM	POSSIBLE CAUSES	SOLUTION
11) Pan does not free cubes or remains in am intermediary position.	A) Cam motor disconnected or in bad condition.	A) y B) Connect or replace cam motor. ALWAYS change pin and wheel.
	B) Flexible pin or cam wheel broken.	
12) Pan goes up and down constantly.	A) Agitator motor micro-switch badly connected or faulty.	A) Connect or replace micro-switch.
	B) Security micro badly connected or faulty.	B) Connect or replace micro-switch.
	C) Faulty rele	C) Replace rele.
13) The evaporator gets cold. And there is	A) Water supply turned off.	A) Turn on.
no water in the pan.	B) Foreign bodies in water supply.	B) Clean water entry filters.
	C) The buoy wrongly positioned	C) Adjust buoy.
	D) Faulty buoy micro-switch.	D) Replace micro-switch.
	E) Faulty water intake electrovalve.	E) Replace electrovalve.