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HOW IT WORKS

Scotsman models SM-505 now provide the user with the Scotsman compact cube. By comparison with the regular Scotsman model SC-500 cuber, whose cabinet it resembles, models SM-505 produce 240 cubes versus 160 regular sized cubes in the SC-500 cuber series. For practical purposes we can say the compact cube is 2/3 the size of regular Scotsman cubes.

Other features of interest are as follows:

- 1. Both air and water cooled models use the same model, 2 pole, hi-speed compressor in single phase electricals.
- 2. Hot water for defrost heated electrically.
- 3. Plastic curtains secured with thumb screws.
- 4. Cube chutes fabricated from stainless steel sheets rather than former plated rod types.
- 5. Spray bars made of special plastic with drilled holes acting as jet spray nozzles.
- 6. Automatic defrost and freezing cycles actuated by thermostatic temperature control.
- 7. Spray bar motor oscillates at 40 RPM.
- 8. Defrost setting on finishing clock is 2 1/2 minutes.
- 9. New style finishing clock has enclosed micro switch and offset adjustable cams to carry and direct electrical current thru defrost cycle.
- 10. All evaporator surfaces are tin dipped.
- 11. The SM-505 is available as standard in the -4 (230/60/1) or the -10 (208/60/1). The 208 volt unit is obtained by the addition of a transformer.

SPECIFICATIONS

	SM-505H	SM-505 WH
Compressor *	l hp twin cylinder	l hp twin cylinder
Condenser	Cleanable Air Cooled	Cleanable Water Cooled
Refrigerant	R12	R12
Refrigerant Charge	53 ounces	51 ounces
Refrigerant Control	Twin Capillary Tube	Twin Capillary Tube
Power Consumption	10 Amp., 3 Wire 230 V., 60 Cycle Single Phase	10 Amp., 3 Wire 230 V., 60 Cycle Single Phase
Water Consumption to Produce Ice	4 1/2 Gallons per hour	4 1/2 Gallons per hour
Water Used by Condenser		1 to 3 1/2 Gallons per minute. Varies with water temperature.
Ice Capacity	See Chart. Page 6	See Chart. Page 6
Companion Bins	B-400 B-650 B-1250	Same Same Same
Cube Size	Scotsman Compact cube	Same
Cubes Per Harvest	240	240

Note: All Scotsman Super Cubers require neutral wire for secondary 115 volt component circuit: 3 phase cubers require 4 wire service with neutral. Special voltages upon request.

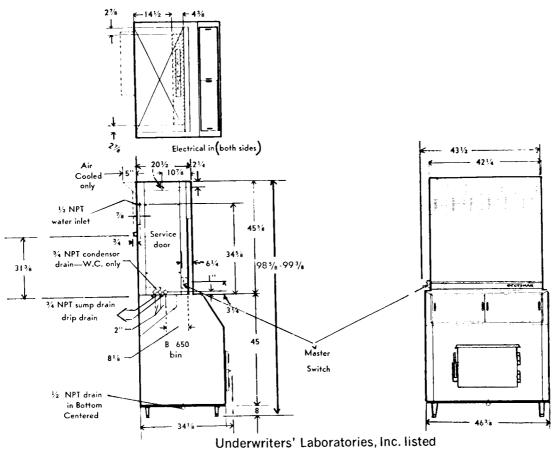
* Single phase units use 2 pole, hi speed copelaweld full hermetic.

Three phase units use 4 pole, semi-hermetic copelamatics.

SPECIFICATIONS

	MODEL SM-505H	MODEL SM505WH	MODEL SM-505H-SS	MODEL SM-505WH-SS
	х	x	X	X
Daily capacity up to 500 lbs. 400 lb., 650 lb. or 1250 lb. storage unit	x	X	Х	X
Air cooled condenser	x		X	
		X		x
Water cooled condenser	X		X	
Heavy duty 1 H.P. Compressor		x		x
Heavy duty 1 H.P. Compressor		X	x	x
Standard 115-230 V, 60 cy, 1 ph, 3 wire	x	X	X	X
1/4" water inlet NPT	X	x	x	X
3/4" overflow drain NPT	X	^_		
12" drain on B650H bin NPT		X	X	x
34" sump drain NPT	<u>x</u>	X	X	
34" condenser drain NPT	<u>x</u>			
Hammerloid grey exterior	x	x	x	x
Stainless steel exterior			×	X
Stainless steel lined storage bin	X	x	xx	<u>x</u>
98 56" to 99 38" height (with legs) and B650H Bin	x	x		
20. 54" height (without legs) and B650H Bin	X	<u>x</u>	<u>x</u>	X
111 56" to 112 36" height (with crusher with legs) & B650H C	55H X	<u>x</u>	x	x
103 58" height (with crusher without legs) and B650H C55.	н		<u>x</u>	x
4634" width including bin	х	X		<u>x</u>
34 1/8" Overall depth including bin (water cooled)		X		$\frac{\hat{\mathbf{x}}}{\hat{\mathbf{x}}}$
39 1/8" Overall depth including bin (air cooled)		X	XX	530
Shipping weight	540	522	548	330

Neutral wire required

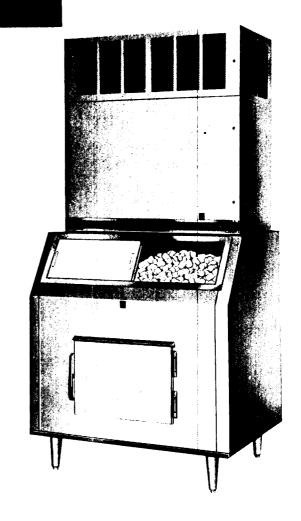


Specifications subject to change without notice.

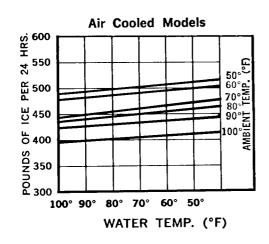
SCOTSMAN,

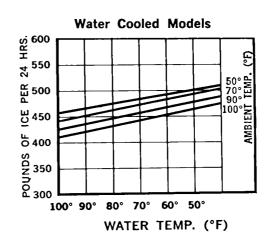
SUPER CUBER SM-505 SERIES





ice making capacity





INSTALLATION

LOCATION

- 1. Select a location as convenient as possible for the user.
- 2. Accessible to the necessary electrical and plumbing connections.
- 3. If possible, have minimum space of 12 inches above top and from left end panel for service.
- 4. A minimum of 24 inches for the convenience of the user in front of the machine.
- 5. Room temperatures -- minimum of 50 degrees, maximum of 100 degrees.

UNCRATING

- 1. If possible, do not uncrate until equipment is in permanent location.
- 2. Storage bin and machine compartments are shipped in separate crates.
- 3. Remove hold-down bolts from skids.
- 4. Remove crate in usual manner for wood crating.
- 5. Remove warranty card and Users manual from storage bin and wipe bin clean with damp cloth.
- 6. Fill out warranty card completely including model and serial numbers as taken from aluminum plate found behind front service panel and forward to Scotsman factory using self-mailing card.

PREPARATION FOR INSTALLATION

- 1. Inspect complete unit cabinetry for shipping damage. Notify carrier of concealed damage claims
- 2. Remove all service doors and panels.
- 3. Remove water reservoir cover and take out paper packing around float ball, make sure plastic overflow standpipe is securely in place. Adjust water level, by bending float arm, to the highest possible elevation without running over overflow standpipe.
- 4. Remove leg package from bin and install 4 legs in base sockets of bin.
- 5. Loosen motor compressor hold down nuts until motor compressor rides freely on mounting springs. Only on semi-hermetic compressors.
- 6. Remove all masking tape and packing members from curtains and inner cube making compartments. Re-align components such as sump pump or cube racks that may have shifted in transit.
- 7. Remove water strainer from machine section for installation on unit or in water supply line feeding unit.
- 8. Open electrical control box and prepare for hook up. Use knock outs, cord connectors, etc. Then check unit nameplate voltage against building source voltage to make sure they correspond. Caution Improper voltage applied to units will void your warranty protection.

SETTING UP MACHINE

1. Be sure floor strength is capable of 1,000 pounds in an area of 29 inches by 42 inches.

2. If ceiling height permits, use 8 inch base legs for the storage bin which will make a more convenient height for the user and allow more fall from the storage bin drain.

3. Storage bin must be absolutely level. (This is important).

PLACING MACHINE SECTION IN POSITION ON ICE STORAGE COMPARTMENT

- 1. Remove front top service door and large front service door to facilitate handling.
- 2. Extreme caution must be used to prevent damage to the equipment or injury to the personnel.
- 3. If at all possible, use Carrying Handles. Have four men available at this installation.
- 4. If handles are not available, place 2×4 's or other available shims at all four corners which allows clearance for fingers.
- 5. Place 2 x 4's lengthwise across storage bin a short distance in from front and back which will allow clearance for fingers when section is set in place.
- 6. Each man should take a position at corners of machine section using one hand to lift with and other hand to steady machine. (CAUTION--all four men should be instructed to lift together so as not to tip unit over.)
- 7. After machine is in position on 2×4 's on bin section, tilt machine forward and backward to remove 2×4 's.
- 8. Place machine section in exact position on storage compartment gasket.
- 9. Bolt two back tie straps to hold machine section in place.

WHEN INSTALLING C-55H CRUSHER

- 1. Unpack crusher and check electrical connections to make sure it is in proper running condition.
- 2. Place crusher in exact position on storage bin.
- 3. Bolt two back tie straps to hold crusher section in place on bin.
- 4. Follow steps under paragraph, "Placing Machine Section in position on Ice Storage Compartment."

PLUMBING

- 1. Refer to Installation Diagram page 15.
- 2. Water inlet should be 3/8 inch pipe or larger.
- 3. Strainer should be installed on outside of machine as close as possible to unit.
- 4. A shut-off valve either of globe or gate type should be installed next to strainer for convenience of the service man.
- 5. SM-505 is equipped with three separate drains so as to comply with all plumbing codes. Drain marked drip pan drain is to catch any condensation that may come from the unit and must have fall as it flows by gravity. Bin has own centered, bottom drain.
- 6. Drain marked sump should be kept 3/4 incn in size with adequate fall which assures complete emptying of the sump tank at the end of the freezing cycle; and also with enough velocity to remove any sediment or solids which may have accumulated from the preceding batch of ice cubes.
- 7. Storage drain should be connected to open drain.
- 8. On water cooled models the drain from the condenser has slight pressure.

 (NOTE: If outlet of connected drain is visible, it is helpful to the service man in checking condenser water valve.)

- 9. Air cooled models SM-505 do not use condenser drain connection since refrigerant cooling medium is air rather than water.
- 10. In areas where vast amounts of solids and impurities are present in the water supply, it may be necessary to use some type of filtering equipment on the water that is used in the actual manufacture of the ice and not for the condenser.
- 11. If above condition is true, it is suggested to disconnect water line from present location in machine compartment and connect it to a 1/4 inch OD copper line which may be run to the filtering equipment. (Note: if water softening equipment is available in building, connect 1/4 inch line in soft water ahead of heater.)
- 12. For water treatment over and above normal local impurities, consult Service Dept., Scotsman Queen Products, Albert Lea, Minnesota.

ELECTRICAL

- 1. IMPORTANT. An ice machine must be connected by a competent electrician.
- 2. Refer to wiring diagrams, pages 11-14 for proper voltage hookup in accordance with voltage stamped on complete unit serial plate.
- 3. Compressor motor operates on high voltage only and all component parts operate on 110 volts only. (CAUTION. In areas where a wild phase is present in their system, it must be kept out of component circuit.) Note: Part #2-1455-20 Heating Element Requires 230V.
- 4. Electrician should be instructed to install proper disconnect switch of a three pole variety with solid neutral.
- 5. Select proper amperage load and fuses per diagrams on pages 11-14 whose voltage corresponds to unit voltage.

MANUAL SWITCH

A manual switch is provided at bottom of left side of icemaker for the convenience of the user when it is desired to shut the unit down for a period of time. When any electrical component parts are being removed or serviced, it is recommended that the line switch be put in the "OFF" position.

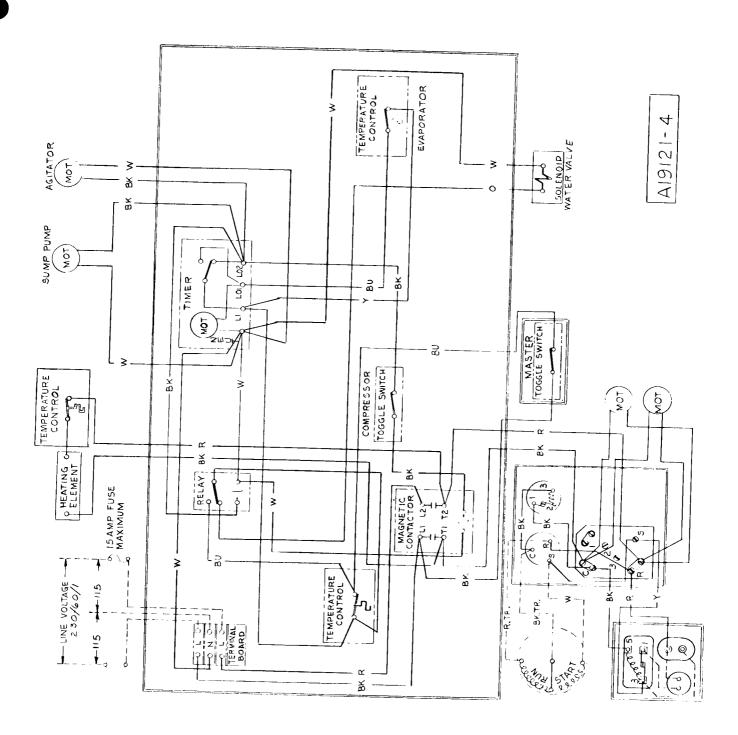
DUAL PRESSURE CONTROL WATER COOLED

A high pressure control is provided to shut down the complete unit in case of extremely high head pressures or interrupted water supply. Some models are equipped with a lock-out type, and the unit will remain off until the control is reset manually. (To reset, press down small plunger on top of control.) The high pressure control should be set at 190 pounds.

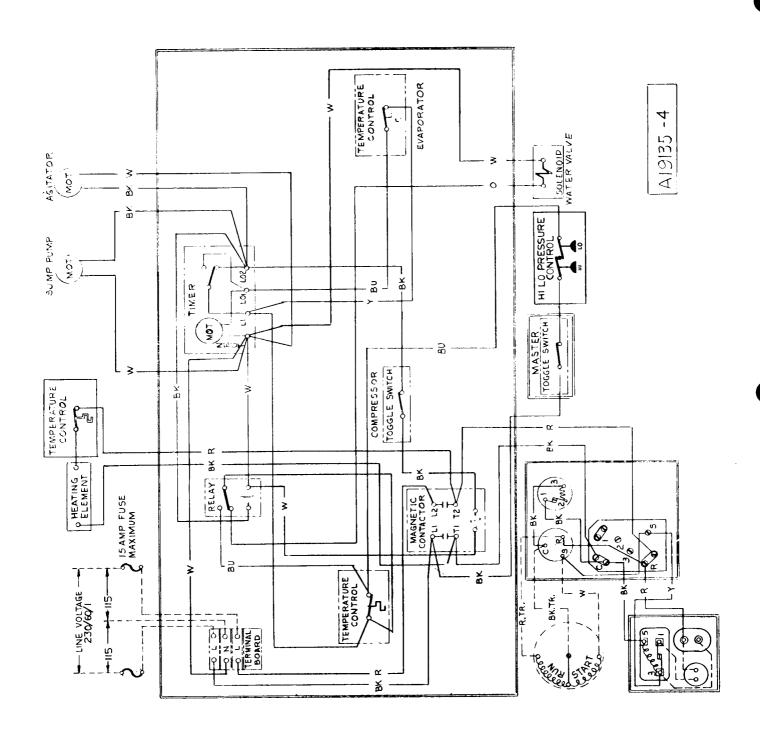
The low pressure control is provided as an added safety precaution in case of a broken or leaking refrigerant line. This prevents drawing in air or moisture. The setting of the low pressure control should be zero pounds cut-out and 32 pounds cut-in.

START - UP

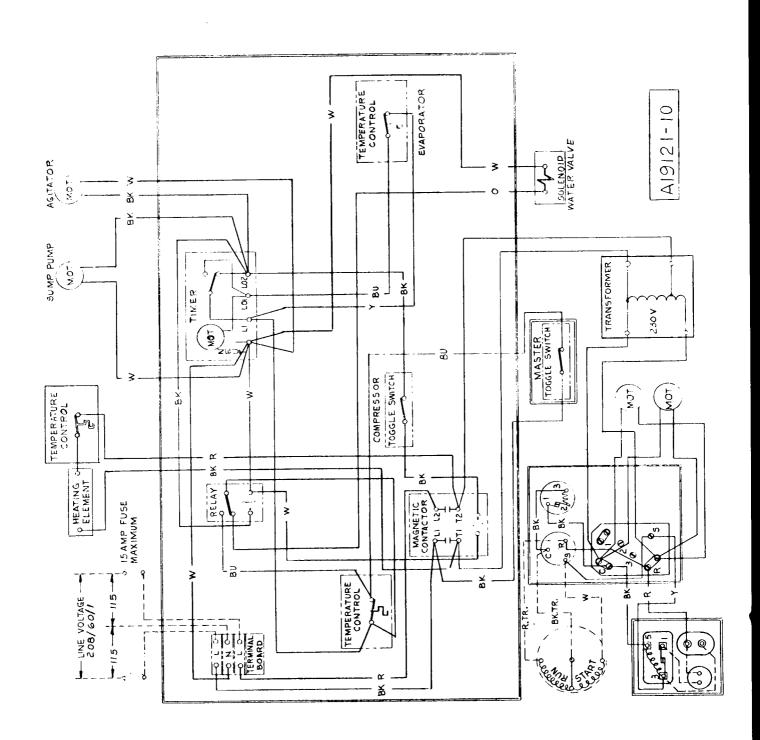
- 1. Make sure all service valves on the condensing unit are open and turned as far as possible to the left. Replace the valve caps after checking the valves. All models are shipped with valves open.
- 2. Make sure that the flow of air is not impeded in any way over condenser on air-cooled models. Keep condenser clean. (Check and clean the condenser monthly).
- 3. On all water-cooled models, turn on water supply to water-cooled condenser and check for leaks in connections made.
- 4. Turn on cube supply at hand shut-off vlave. Make sure hot water tank fills to proper level, if it does not, adjust level to 1/4" below overflow pipe by bending float rod.
- 5. NOTE: Unit has built-in flow control set to approximately .4 gallons per minute.
- 6. Check electrical circuit for proper voltage from building source. Do not connect with other appliances.
- 7. Remove cover from control box, check for loose or frayed wire, then turn manual switch to 'on' position. Note: All models have motor compressor only switch in control box.
- 8. Turn disc on time clock to the right just far enough for water solenoid valve to energize. Allow clock to take it through harvest cycle. This will be approximately three minutes. (Figures on dial represent minutes).
- 9. Dial pointer should be set on Number 2 1/2. After the compressor starts, turn the dial completely around and send it through another harvest cycle. Do this several times. This will completely flush machine of any dust that may have accumulated in shipment.
- 10. After machine has been properly flushed, allow it to go into a freezing cycle-check for possible water leaks, check sump pump operation--should be running freely. Also note if jet tube travel is correct, and that none of the jets are plugged.
- 11. Time clock dial does not rotate at the end of the harvest cycle; it is started later by the cube size control located in the control box.
- 12. Freezing time will be approximately 30 minutes in a 70 degree ambient. (Longer if above, and shorter if below). After 25 minutes of the freezing cycle, check water in float chamber with a thermometer. (Should be approximately 130-140 degrees at this time.) If temperature is not correct adjust thermostat.
- 13. Watch first harvest and check to make sure that plastic curtains have not been damaged in shipment.
- 14. Check size of cubes made: If too small after a second complete cycle; adjust cube size control to lower or colder setting.
- 15. Check texture of cubes made; partially cloudy cubes throughout suggest unit running short of water near end of freezing, or possibly an extremely bad water condition, which would indicate use of filtering or purifying equipment. Contact SCOTSMAN -- Queen Products, Service Department, Albert Lea, Minnesota, for further details.
- 16. With unit on harvest cycle, take a handful of cubes made and hold on storage bin thermostat cover. Should cut unit off in one to two minutes. Remove ice: unit should cut back on automatically. Thermostat is factory set at 35° out, 39° in.
- 17. Replace all panels and service doors.



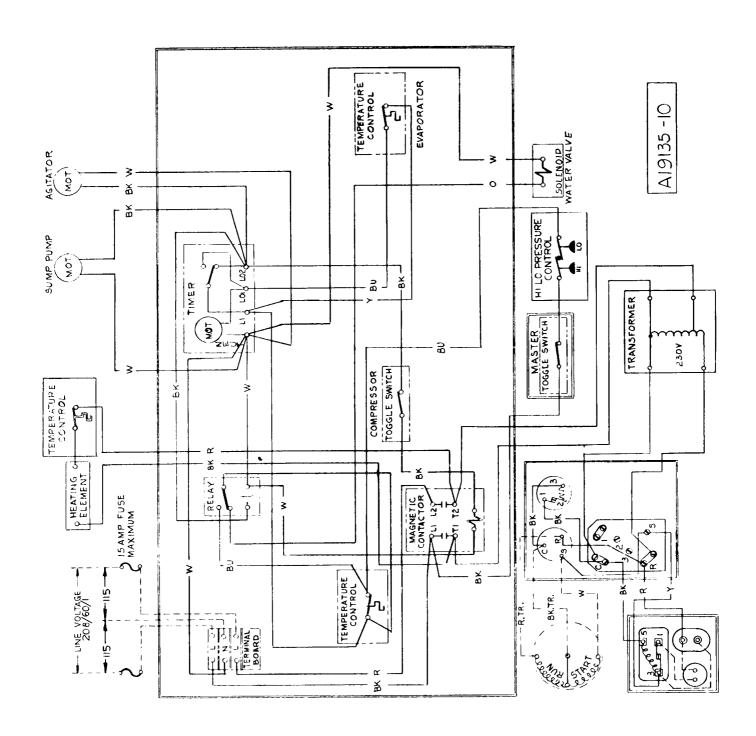
SM-505 WIRING DIAGRAM 230/60/1 AIR COOLED A-19121-4



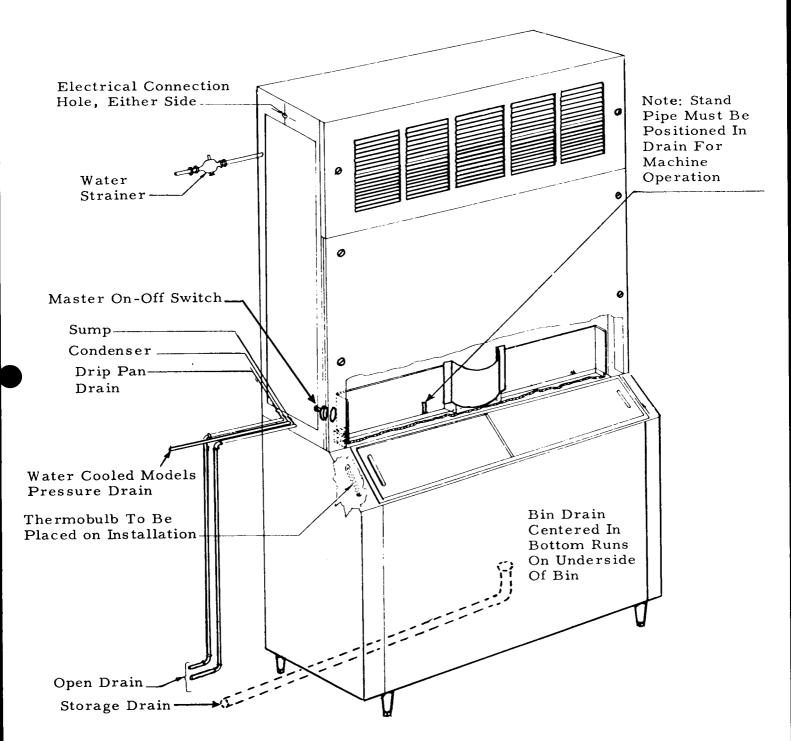
SM-505 WIRING DIAGRAM 230/60/1 WATER COOLED A-19135-4



SM-505 WIRING DIAGRAM 208/60/1 AIR COOLED A-19121-10



SM-505 WIRING DIAGRAM 208/60/1 WATER COOLED A-19135-10



NOTE: Hand shut off valve to be located ahead of water strainer.

Air cooled models do not use condenser or pressures drain.

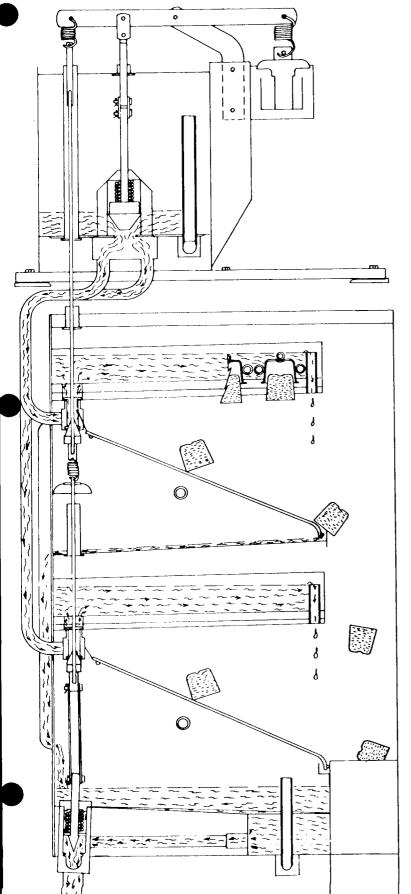
SM-505 INSTALLATION WITH B-400 SERIES BIN

INSTALLATION

FINAL CHECK LIST

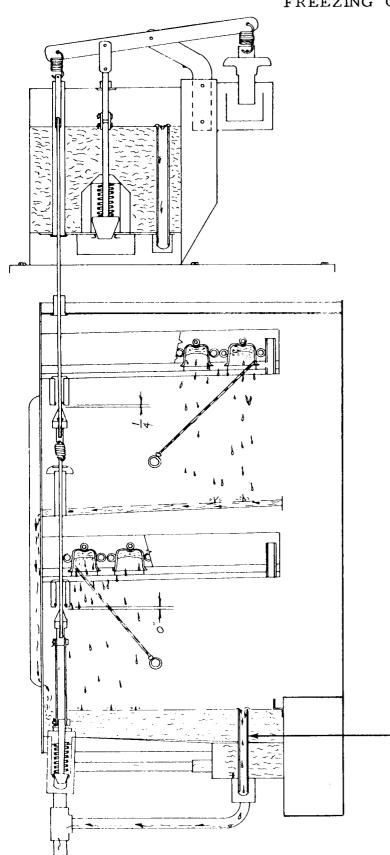
- 1. Is the machine level? (Important)
- 2. Have all electrical and plumbing connections been made and checked?
- 3. Is the water supply valve open and the electrical power on?
- 4. Has the voltage been load-tested and checked against nameplate voltage?
- 5. Have the compressor hold-down bolts been loosened so that the compressor rides freely on its mounting springs? Applies to semi-hermetics only.
- 6. Has float been checked and set in hot water tank for proper water level?
- 7. Turn machine on and test heater and thermostat. After 20 minutes of freezing cycle, check water in float tank (should be approximately 130 to 140 degrees by this time). If temperature is not correct, adjust thermostat.
- 8. Operate machine for at least two complete cycles.
- 9. Is the machine quiet in operation?
- 10. Have the installation and warranty cards been filled out?
- 11. Has the owner been instructed on how to operate the machine?
- 12. Is the machine clean?
- 13. Check the storage bin thermostat for proper setting of approximately 35 degrees cut out, 39 degrees cut in.
- 14. Head pressure average 135 # P.S I.
- 15. Back or suction pressure equalize with head during harvest cycle. During start of freeze cycle starts at about 60# PSI gradually pulls down to 3-5 # PSI end of freezing cycle.

HARVEST CYCLE



At the end of the freezing cycle the hot water from the water tank flows into the rubber platen holding the cups and by conduction on back of cups causes cubes to defrost. The platen cavity is completely filled up to the overflow point, and continues to overflow while in the defrost cycle; the amount of this water running over the overflow pipe is controlled by the flow control and the length of harvest time setting on the time clock; overflow water goes down the drain also. Meanwhile, cubes being released from the cups drop by gravity onto cube chute, then through curtained opening into storage bin. At completion of harvest cycle, the micro-switch on the timer shaft now drops points holding defrost components in cycle and switches to freezing cycle set of contacts. Clock motor now stops and will not start until cube size control closes once more. The freezing cycle starts and the water valve allows the hot water tank to refill. The chilled water from the upper cavity flows by gravity through the water valve to the sump tank and reservoir. This water is used to produce the next batch of cubes.

FREEZING CYCLE



At the start of the freezing cycle, reservoir and sump tank contain enough water to make a complete batch of ice cubes, plus approximately an extra quart. When time clock closes load circuit, it starts the compressor, sump pump and heater element in hot water tank. At the same time it opens the circuit to clock motor. (Clock motor does not run first part of freezing cycle- this is approximately 9 1/2 minutes) This timer has a single pole, double throw micro-switch for carrying and directing current. After a predetermined amount of ice is frozen, the cube size or reverse acting temperature switch closes, actuating the time clock motor circuit which continues the freezing cycle approximately 9 1/2 more minutes. (After clock motor starts, freezing time will be 12 minutes less defrost time setting.) At the end of the 9 1/2 minute period, time clock operated switch opens compressor, sump pump and heater element circuit, and closes circuit to time clock motor and solenoid operated water valve. At this time, the water valve allows heated water in hot water tank to flow by gravity through solenoid valve, and into the upper cavity of the freezing chamber, and, at the same time allows the surplus water from the preceding batch of ice cubes to go down the drain.

NOTE: Harvest water is used to make next batch of ice, therefore on initial start up it is necessary to have unit in a harvest cycle. This can be done by manually turning timer dial. Average cycle time is 30-35 minutes.

Stand Pipe

Symptom		Possible Cause	Suggested Correction
1. Unit will not run.		Power off. Blown fuse.	Check main switch, fuses and wiring
		Manual switch in off position.	Turn manual switch to "on"
		High pressure control locked out.	Reset and check for cause of control off.
		Ambient temperature of room too low.	Must be above 50° Farenheit
		Bin thermostat set too high.	Set approximately 35° cut ou 39° cut in.
2. Compres intermitt	sor cycles ently.	Low voltage.	Check with volt meter. Noti power company if 10% over cunder nameplate rating.
		Air in system causing high head.	Purge system. Evacuate and re-charge.
		Shortage of refrigerant.	Check frost line, should be cool but not frost on suction service valve.
3. Cubes sn (short	mall. t cycle)	Cube size control not properly set.	Set control to colder setting
		Moisture in system.	Change dryer and refrigeran
		Short of water.	Flow control plugged.
			Clean out - install filter in supply line.
		Lower drain valve in sump tank leaking.	Flush or remove and clean. Replace rubber O-ring seat.
		Sump tank stand pipe not properly seated.	Check and re position.
4. Cubes sr (long o		Shortage of refrigerant.	Check frost line and add refrigerant. Refer to name plate for correct amount of refrigerant.

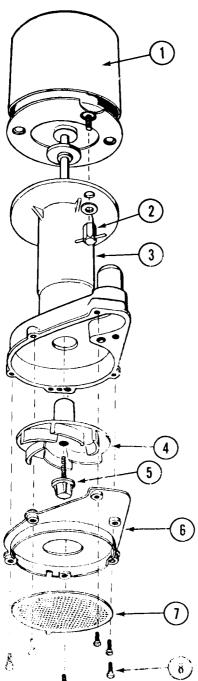
	Symptom	Possible Cause	Suggested Correction
5.	Cubes too large. (slow defrost)	Very small shortage of refrigerant.	Check frost line. Add refrigerant slowly.
		Water valves not hold- ing in hot water tank.	Hold float closed and check during freeze cycle.
		Cube size control set too cold.	Reset to warmer setting on adjustable cam.
6.	Cubes cloudy.	Drain valve and sump tank leaking.	Check during freeze cycle.
		Curtains damaged or binding.	Repair or replace.
		Restriction in incoming water.	Check at float in hot water tank and flow control.
		Screen plugged on bottom of sump pump.	Remove and clean.
7.	Irregular cubes. (some clear, some cloudy)	Clogged jets in jet tubes.	Remove and clean. Use care not to elongate jet holes in plastic tubes.
		Cube slides interfering with jets.	Adjust so that jet streams center in cube rack slots.
8.	Improper harvest.	Time clock not set properly.	Reset on No. 2 1/2 with adjustable cam.
		Drain valves in hot water tank leaking which prevents water from coming up to temperature.	Inspect and repair. Check rubber O-ring seat under tapered plunger.
		Incoming water restricted.	Check water lines, etc.
		Float valve leaking. (Hot Water Tank)	Check during freeze cycle, float valve should fill tank to 1/4" below overflow pipe then shut water supply off. Replace rubber seat if leak continues.

	Symptom	Possible Cause	Suggested Correction
8. Improper harvest. (Cont'd.)		Stand pipe not properly seated, in hot water tank.	Remove cover and check.
		Machine not level. (Allow water to stand in upper cavities and freeze.)	Level machine.
		Burned out heating element in hot water tank.	Replace.
9.	High head pressure.	Over-charge of refrigerant.	Purge.
		Air in system.	Purge.
		Defective water regulating valve.	Replace.
		Burned out or stuck fan motor(s) air cooled.	Replace or oil as needed.
		Water regulating valve improperly adjusted.	Readjust to desired head 135# water cooled models.
		Incoming water restricted.	Check screens, lines, etc.
10.	High suction.	Dirty or plugged condenser Air cooled.	Blow condenser clean.
	,	Inefficient compressor. valve plate.	Check with gauges and replace if necessary.
		Moisture in refrigerant system.	Purge refrigerant, replace dryer, and re-charge.
		Shortage of refrigerant.	Check frost line, add refrigerant until cool suction service valve is felt.
		Overcharge of refrigerant.	Purge.
11.	Low suction pressure.	Moisture in system.	Purge charge, evacuate, replace dryer, and re-charg to nameplate charge.

^{*} Refers to 3 phase units with semi-hermetic compressors.

S	ymptom	Possible Cause	Suggested Correction
11.	Low Suction pressure (Cont'd.)	Extreme shortage of refrigerant.	Add refrigerant.
		Ambient temperatures too low. Air cooled.	Increase ambient to minimum $50^{\circ} \mathrm{F}$.
12.	Water leaking from plastic tubing in uppe		Readjust. Bend float arm to hold water level 1/2" below overflow.
	left hand corner above cube discharge open-	Float valve leaking.	1/2 below over110w.
	ings.	Water-logged float ball.	
13. Unit noisy.	Hold-down bolts on com- pressor not loosened.	Turn up until unit is free floating on mounting springs.	
		Refrigerant lines vibrat-	Straighten.
		ing. * Compressor short of oil.	Check oil level. Proper level 1 1/2 inches below crankcase port or 1/2 of sight glass.
		High head pressures.	Check with gauges. Normal head pressure is 135-150#. Purge if necessary.
		Shroud touching fan blades on air cooled models.	Reposition shroud.

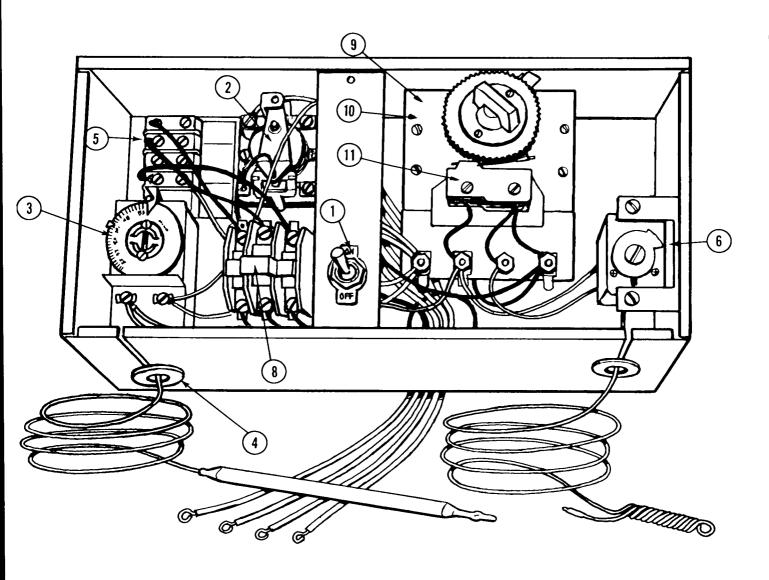
^{*} Refers to 3 phase units with semi-hermetic compressors.



SM-505 H SUMP PUMP

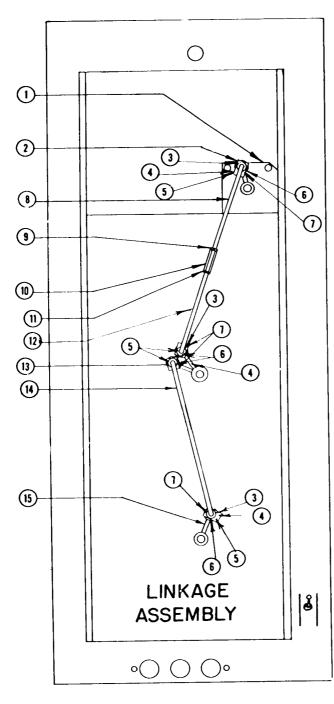
NO.	PART NO.	NAME
1. 2. 3. 4. 5.	12-1351-22 12-1351-32 12-418-30 12-1351-21 12-1351-31	Motor Only Wing Hex Nuts Pump Body Impellar and Spring Impellar Screw and Gasket
6. 7. 8.	12-1351-27 12-1351-26 12-1351-29	Bottom Inlet Plate Inlet Screen Wing Screws
	12 - 418 A +1	Complete Pump

SM-505 H CONTROL BOX ASSY



ITEM NO.	PART NO.	NAME
3. 4. 5.	12-426 12-419 11-99-1 13-124 12-813 11-345-1	Switch- Compressor only Relay Bin Control Grommet Terminal Block Cube Size Control
7.	12 - 82 0 - 1 12 - 739 - 1	Contactor 115/230/60/1 Contactor 115/208-220/60/3
8. 9. 10.		Timer Timer Motor only Micro-Switch

SM-505 DRIVE LINKAGE



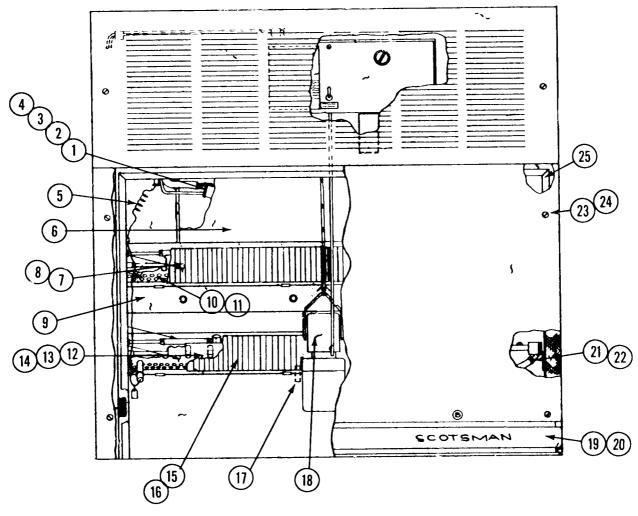
ITEM PART NAME NO. NO. 12-1383-1 Drive Motor l. S-9666 Driver Arm S - 7558Bearing Clip 3. 4. 3-431 Set Screw 5. 3 - 75Washer 6. 3-396-1 Cotter Key S.S. 7. A-7033 Bearing 8. S - 7940Upper Linkage (left) S - 7937Linkage Nut (left) 10. S-7936 Linkage Coupling 3-357 Nut (right) 11. 12. S-7938 Linkage (right) 13. A-17233 Double Driver Arm 14. A-17234 Lower Linkage 15. A-17232 Driver Arm 16. 12-426 Switch-Master On-Off A-17230 Linkage Complete (less motor.) A17230-000

Most Parts are obsolète But you can order whe whole assay.

MM-510 H AIR AND WATER COOLED

Section C1-5SM Page 26

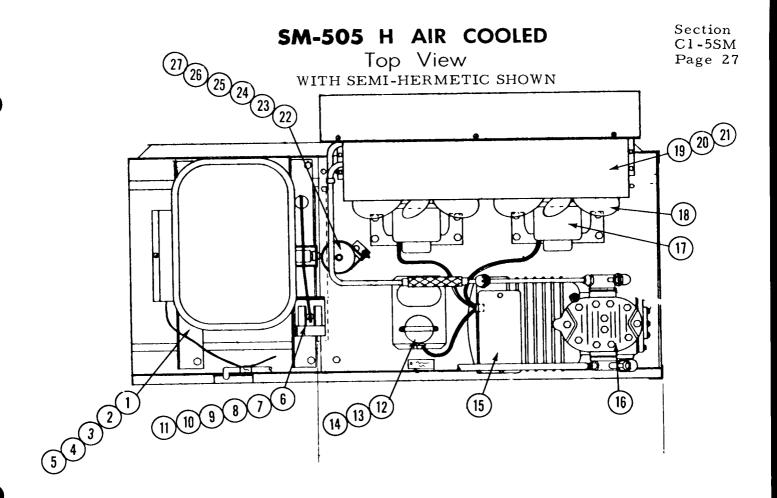
Front View



ITEM NO.	PART NO.	NAME	ITEM NO.	PART NO.	NAME
1.	A-18958	Freezer Complete		A-18954	Cube Chute (Left)
2.	A-18951	Left Cup Ass'y	14.	A-18935	Cube Deflector
		(2 required)	15.		Left Curtain Ass'y
3.	A-18952	Right Cup Ass'y	16.	A-16777	Right Curtain Ass'y
- •		(2 required)	17.	A-17521	Stand Pipe
4.	13-638	Rubber Cup holder	18.	12-418A-	Sump Pump
		(4 required)	19.	15-474	Emblem Decal
5.	A-18311	Upper Face Plate	20.	A-5720-9	Moulding Trim
6.	S-9805	Accumulator Cover			(2 required)
7.	A-17243	Upper Curtain Ass'y	21.	2-1338-1	Hose Clamp
8.	3-727	Thumb. Nut			(4 required)
9.	A-16662		22.	5-171	Tygon Tube Per Ft.
ío.	A-18955	Upper Cube Chute (Right)	23.	3-1029	Nut (6 required)
11.	A-18956	Upper Cube Chute (Left)	24.	3-789	Screw (6 required)
12.	A-18953	Cube Chute (Right)	25.	A-17256	Door Gasket

In Package:

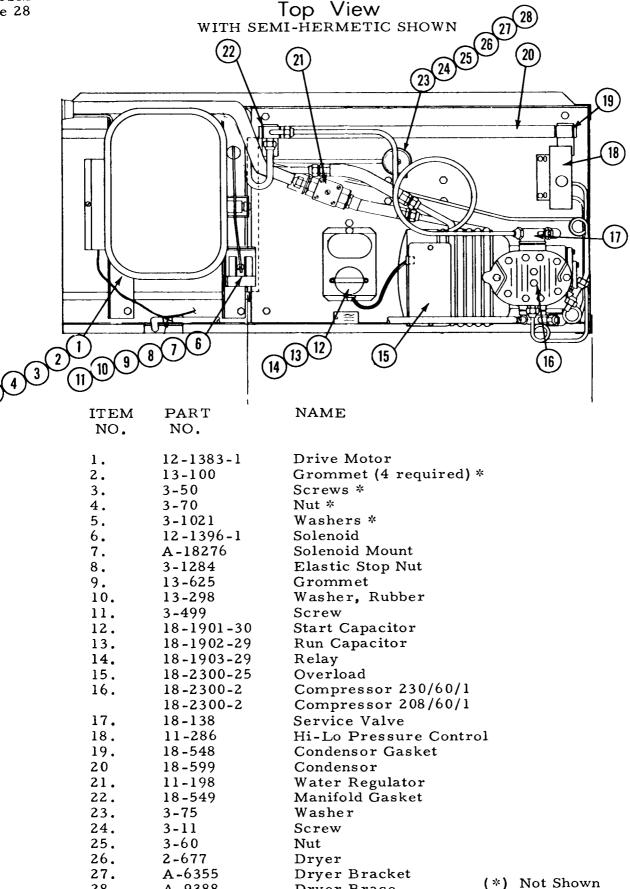
* A-16108	Buttons
13-590	Bulb Gasket
A-15759	Bulb Cover



ITEM NO.	PART NO.	NAME	ITEM NO.	PART NO.	NAME
1.	12-1383-1	Drive Motor*	16.	18-2300-4 18-2300-4	Compressor 230/60/1 Compressor 208/60/1
2.	13-100	Grommets (4 required) *	17.	18-559	Fan Motor
3.	3-50	Screws (4 required) *		18-625	Fan Blade
4.	3-70	Nut (4 required)	19.	A-17329	Shroud
5.	3-1021	Washer (8 required) *	20.	2-784	Shroud Fastener
6.	12-1396-1	Solenoid			(6 required)
7.	A-18276	Solenoid Mount	21.	18-624	Condensor
8.	3-1284	Elastic Stop Nut *	22.	3-75	Washer
9.	13-625	Grommet *	23.	3-11	Screw
10.	13-298	Washer, Rubber *	24.	3-60	Nut
11.	3-499	Screw *	25.	2-677	Dryer
12.	18-1901-30	Start Capacitor	26.	A-6355	Dryer Bracket
13.		Run Capacitor	27.	A-9388	Dryer Brace
	18-1903-29				
15.	18-2300-25			* Not Show	n

Note: Items 12 thru 15 are for 208 or 230/60/l units.

SM-505 H WATER COOLED



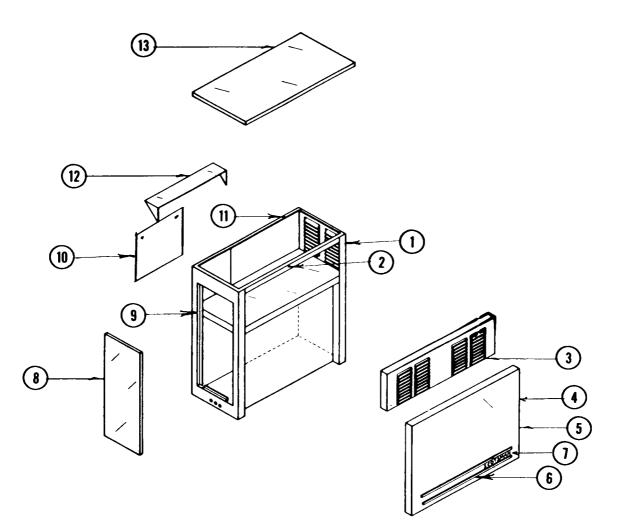
Note: Items 12 thru 15 are for 208 or 230/60/1 units.

Dryer Brace

28.

A-9388

SM-505 AIR COOLED CASE ASSEMBLY

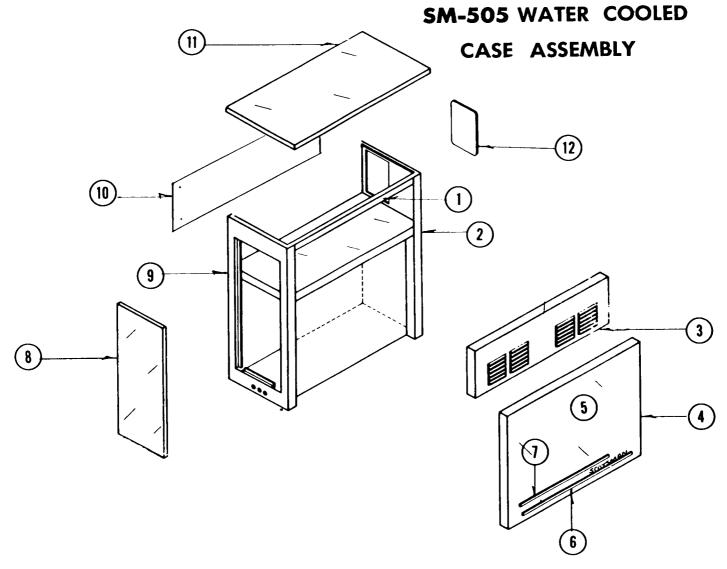


NAME

NC	o. No.	•
1.	A-8490	Right Side Panel
2.	A-17238	Top Channel
3.	A-16875	Upper Door Front
4.	A-17571	Door Gasket
5.	A -17352	Front Lower Door
		Assembly Complete
6.	A-5720-9	Moulding Strip
7.	15-474	Emblem Decal
8.	A-17211	Left Side Door
9.	A-17210	Left Side Panel
		Assy
10.	A-8495	Back Assembly
11.	A-8483	Top Back Ass'y
12.	A-8521	Shroud Top
13.	A-5694	Top Panel
	•	

PART

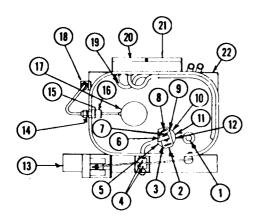
ITEM

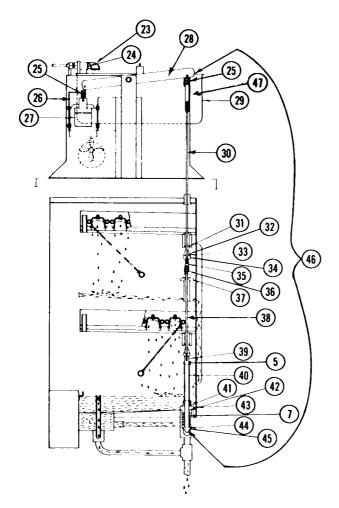


ITEM	PART	NAME
NO.	NO.	

- 1. A-17238 Top Channel Ass'y
- 2. A-9323 Right Side Panel
- 3. A-16875 Upper Door Ass'y
- 4. A-17352 Front Lower Door
- 5. A-17571 Door Gasket-Rear Bottom
- 6. A-5720-9 Moulding Strip 2/unit
- 7. 15-474 Emblem Decal
- 8. A-17211 Left Side Door
- 9. A-17210 Left Side Panel Ass'y
- 10. A-9321 Back Assembly
- 11. A-5694 Top Panel
- 12. A-5693 Right Side Panel Door

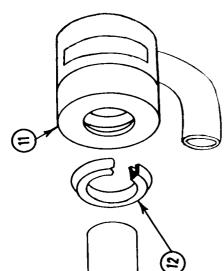
SM-505 HOT WATER TANK AND WATER VALVE ASSEMBLIES





ITEM NO.	PART NO.	NAME	LIST PRICE
1 4	0610	Stand Pipe	
1. A- 2. A-		Valve Plunger	
	8188	Plunger Link (S	s)
J. A.	0100	(2 reqd)	-,
4. 3-	774	Roll Pins (2 red	quired
	7974	Stainless Pins	
		(2 required)	
6. 3-		Cotter Pins SS	
		(2 required)	
	419	Compression S	pring
	255	Wing Nuts (2 re Valve Seat Ass	equireu) Iv
	-8182	Drain Ass'y	У
	-8186 -543	'O' Ring	
12. 2-	.530	'O' Ring (drain	Ass'v
13. A	.530 -8175	Right Bracket	,
14. A	-6771	Water Inlet Va	lve
		Ass'y	
15. A	-5777	Valve Seat Hole	der
	-6947	Rubber Valve S	Seat
17. A	-12068	Float & Arm A	ss'y
18. A	-13346-4	Flow Control	
	-1455	Heating Elemen	
20. 12	:-246	Thermostat (*)	_
21. A	-6480	Thermo Disc C	lover
22. A		Left Bracket	
23. 2	-1320	Plastic Deflect	or
24. 2	-1259	Valve Pin	
25. 2	-420	Spring	
	2-1396-1	Solenoid Lever As s 'y &	Arm
28. A 29. A	0103	Hot Water Tan	k Sub
		Valve Rod	K Bus
30. A 31. 2	-54l	'O' Ring	
32. S		Valve Guide	
33. 2	-545	'O' Ring	
34. S	-8948	Lock Nut	
34. S 35. S	-8946	Valve Nut	
36.2	-549	Spring	
37. A	18355	Deflector Ass	У
38. S	-8951 -8950	Lower Rod	
39. S	-8950	Lower Valve N	lut
40. S	-8953	Lower Valve I	
41. S	-8578	Drain Nut Stop	
42. S 43. S	-8942	Valve Guide A	55 Y
		Nut Valve Seat Wa	sher
44. S	5-6924	(2 required)	Dire.
45. 2	-541	'O' Ring	
	X-8332	Water Valve L	inkage
.0. 1		Assembly	Ç
47. 9	5-8943	Upper Valve F	lod
Ā	1-18036 -	l Hot Water Tar	nk
		Complete	

Complete



SM-505 SPRAY BAR 2 per unit

NAME

Flange Bearing

Driving Journal

End Bearing Ass'y

Drive Bearing Support

Collar

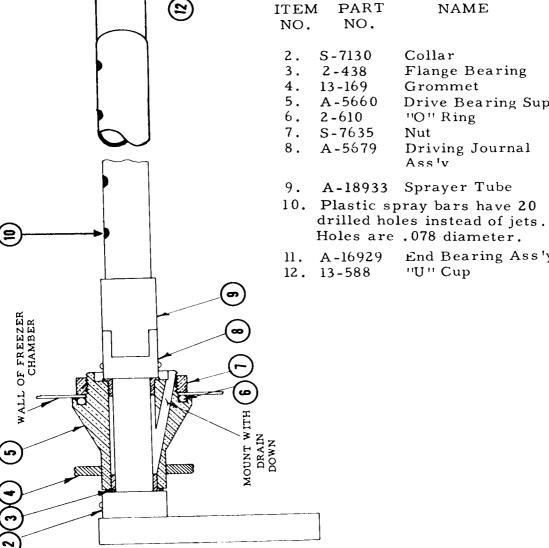
Grommet

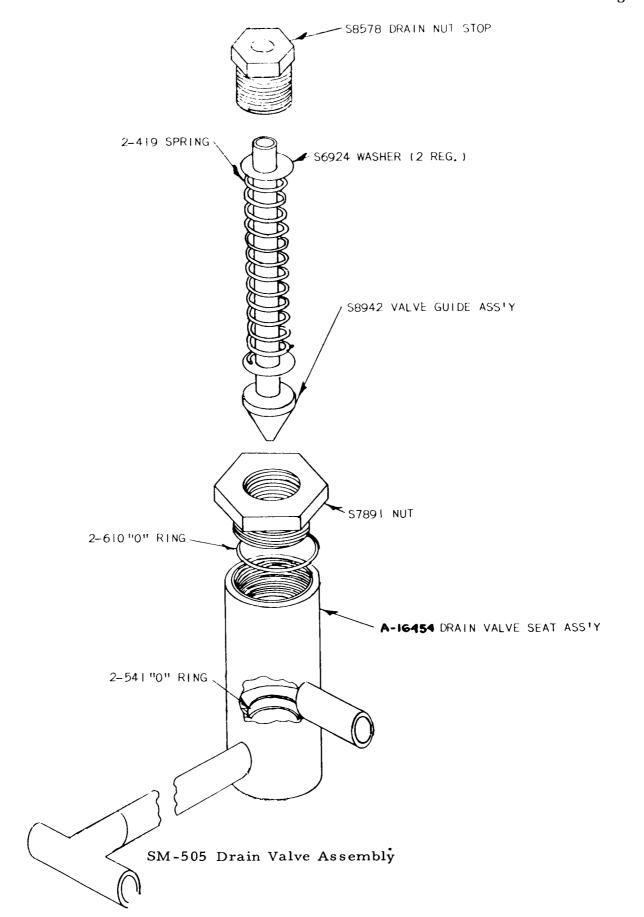
"O" Ring

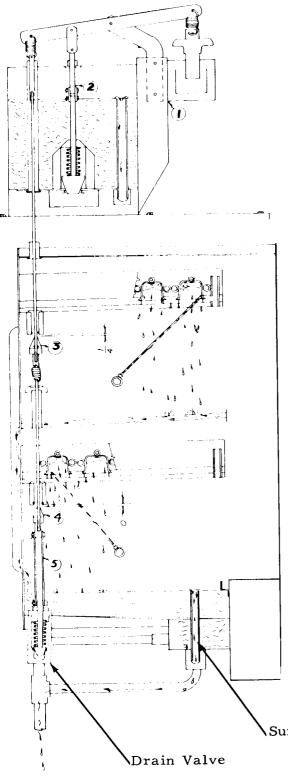
Nut

 $Ass\ ^{\intercal}v$

"U" Cup







SM-505 WATER VALVE ASSEMBLY LINKAGE AND ADJUSTMENT

INSTRUCTIONS -- WATER VALVE ADJUSTMENT

Adjust solenoid at Point 1 up or down to the point where linkage at Point 2 is free and valve is closed in hot water tank with solenoid open wide.

Adjust valve at Point 3 to 1/4 inch distance from end of valve guide (S-9849) to valve seat (solenoid wide open).

Adjust valve at Point 4 to 0 inch distance from end of valve guide (S-8949) to valve seat (solenoid wide open).

Linkage at Point 5 adjusted to be free.

With solenoid closed, valve in hot water tank should be open about 3/8 inch or more. Valve at Points 3 and 4 should be closed. Spring at Point 3 should be stretched about 1/4 inch. Valve at Point 5 should be open about 3/8 inch.

Trouble -- Hot water tank valve not opening wide enough.
Solenoid should be adjusted lower so to obtain
full travel of solenoid.

Sump Overflow Pipe

SERVICE

REMOVING AND REPLACING COMPONENT PARTS

Capillary Tubes

These controls are an integral part of the suction line, being soldered to it along most of its entirety. 2 per unit.

To Replace the Compressor

- 1. Remove top panel and top front door
- 2. Release refrigerant charge by opening low side valve port.
- 3. Remove suction line at flare connection and sweat.
- 4. Disconnect the wiring from the compressor.
- 5. Remove the compressor hold-down nuts and lift the compressor out out of the unit.
- 6. Reverse steps 1 through 4 in replacing the compressor.
- 7. Evacuate unit with vacuum pump and recharge with refrigerant 12.

SERVICE

REMOVING AND REPLACING COMPONENT PARTS

To Remove Sump Pump

- 1. Put line switch in "Off" position.
- 2. Disconnect motor leads from terminals marked sump pump in control box.
- 3. Loosen cord connector and pull motor leads free.
- 4. Remove splash cover from sump and lift out pump.
- 5. Disconnect hoses.
- 6. To replace, reverse procedure.

To Remove Jet Tubes

- 1. Remove curtains from cube discharge openings.
- 2. Remove cube slides.
- 3. Push jet tube up at right end of tube, and bring forward far enough to acquire space to pull left end of tube out of drive mechanism.
- 4. Now remove stationary elbow coupling from right end of jet tube. Jet tube is now free, can be cleaned from right end opening.
- 5. To replace, reverse procedure. (Be sure to replace bearing on end of jet tube.) Check O-Ring in right side elbow.

To Adjust Linkage on Jet Tubes

- 1. Remove access panel.
- 2. Loosen lock nuts on turn buckles. (Note. One lock nut has left hand thread, the other right.)
- 3. Adjust turn buckle for desired linkage. (Note. Check at cube discharge opening with flashlight to be sure jet sprays are hitting front and back cups.)
- 4. Caution. Be sure to tighten lock nuts after adjustment has been made.

To Remove Jet Tube Drive Motor

- 1. Disconnect motor leads on terminals marked drive motor in control box.
- 2. Loosen connector and remove leads from control box.
- 3. Loosen Allen head set screw in drive arm.
- 4. Remove drive arm.
- 5. Remove motor hold-down bolts. (Note. For easy removal of hold-down bolts, remove access panel.)

To Remove Large End Panels

- 1. Remove concealed screws under door gasket.
- 2. Remove screws from top and back panels.
- 3. Pull panels loose from rear of machine.
- 4. Pull forward and remove. (Note. All insulation used in this machine is in sections in a solid form and can be removed readily to repair water leaks, or any other trouble that might develop.

PART NAME:

Jet Tube Assembly.

PART NUMBER:

A-18933 2 per unit

PART FUNCTION:

This tube acts as the water distributor for the ice cube cups. Each tube has 20 jets over its length with each jet feeding one row of cups from front to back. Supply water is forced into the jet tubes by the sump pump and is directed upward in a continuous stream. Drive motor through drive linkage forces these tubes back and forth over a 20° arc which covers all cube cups.

PART SETTINGS:

Factory set. Occasionally the spray tube travel will be either too far forward or back missing the first or last row of cups as the case may be. This can be corrected by adjusting the nuts provided on the drive linkage.

PART REPAIRABLE:

No, jets not replaceable, clean openings with 5/64"

drill.

PART MAINTENANCE:

Check inlet supply elbow to make sure O-ring there is

not worn letting water leak at this point.

All jets should be cleaned also. By running Scotsman Ice Machine Cleaner through unit this step will eliminate hand cleaning. Partially plugged jets will produce cloudy or partial cubes. Wholly plugged jet will not produce a cube in cube cups it normally covers.

PART NAME:

Sump Pump.

PART NUMBER:

12-418A-1

PART FUNCTION:

Recirculating Pump used to pump supply water in sump

tank to jet tubes during freezing cycle.

PART SETTINGS:

Factory set.

PART REPAIRABLE:

Yes. Motors rewound, impeller blades replaced. Motors only are also available for this pump, Part No. 12-1351-22.

PARTS MAINTENANCE: Cleaning a stuck motor with carbon tetrachloride or equivalent will re-activate the majority of the motors

returned for this reason.

PART NAME:

Agitator Drive Motor 40 RPM

Merkle Korff

PART NUMBER:

12-1383-1

PART FUNCTION:

This motor is used to drive the linkage mechanism which in turn drives the osxillating jet spray tubes. This provides a constant spray movement to all the inverted cube molds and by so doing also aerates the water producing clear, solid Scotsman cubes.

PART SETTINGS:

No settings on motor, however, there are adjustable mounts which allow for moving motor slightly to position correctly.

PART REPAIRABLE:

Yes, to some extent. Bearings, windings, etc., may be replaced in electric motor shops. Normally replace.

PART MAINTENANCE:

Proper care in oiling with SAE 20 every six months or less as use indicates. There are two oil cups on the motor and a gear case hex head screw which has to be removed to change or add oil in gear case proper.

Drive linkage should be inspected to insure free movement and no binding or drag on drive motor.

PART NAME:

Spray Tube Drive Linkage

PART NUMBER:

A-17230

PART FUNCTION:

To connect and transmit mechanically, drive motor power to jet tubes assembly. Consists of 3 arms fastened one each to the two jet tubes and one drive motor. Arms are connected by a two piece rod which has an adjustment nut in the middle to correct

spray tube travel.

PART SETTINGS:

Factory set. Linkage should be adjusted so that there is no drag on drive motor and also to insure spray tube travel across all cube cups.

PART REPAIRABLE:

Yes. All components replaceable.

PART MAINTENANCE: Check linkage for binding or worn spots. Tighten set screws holding arms to spray tubes and drive motor.

PART NAME:

Hot water tank complete.

PART NUMBER:

A-18036-1

PART FUNCTION:

Tank serves dual purpose, stores correct amount of incoming supply water for next freezing cycle and also heats it electrically for use in defrosting preceding batch of cubes. Water inlet valve and float ball maintain correct water level. Thermostat and heating element maintain constant hot water temperature.135 $^{\circ}$ F.

PART SETTINGS:

Factory set. Water float level has adjustment arm. Water level should be maintained 1/4" below overflow pipe. Thermostat governing temperature, of heating element has a scale and pointer which is factory set 135°F.

PART REPAIRABLE:

Yes. All components of tank are replaceable. Water inlet valve. A-6771, heating element part No. 12-1455-20 and thermostat Part No. 12-246 are easily changed.

PART MAINTENANCE:

Periodic cleaning with Scotsman Ice Machine Cleaner will dissolve accumulated scale on inlet valve seat, heating element and side walls of hot water tank. This in turn prevents excess loss due to leaky inlet valve and more efficient operation of heating element.

PART NAME:

Water Valve Assembly

PART NUMBER:

A-8332

PART USAGE:

Used on all models.

PART FUNCTION:

This portion of water valve extends thru unit from top to bottom and is actuated by the 12-1396-1 solenoid. During defrost periods it positions one seat to each freezer assembly and shunts hot water to those trays while also opening bottom drain valve. During freezing cycle seats to freezers drop down as does bottom drain seat, closing off drain water. This assembly made in sections which can be dismantled from inside.

PART SETTINGS:

Entire valve can be adjusted either individually on each seat and drain seat or as a whole by taking up top rod adjustment to solenoid.

PART REPAIRABLE:

Yes. All components in valve linkage available from factory stock.

PART MAINTENANCE:

Care should be exercised in seeing that seats to platens or freezer trays, close fully during defrost and that hot water drain in tank opens 3/4" letting defrost water leave tank. Linkage when in defrost position will allow the 12-1396-1 actuating solenoid to fully close and when in freezing cycle to fully open. Seats, rods and springs in valve linkage should be checked for adjustment and wear every six months.

PART NAME:

Solenoid

PART NUMBER:

12-1396-1

PART FUNCTION:

An electrically operated solenoid which is used to open and close the water valve through mechanical linkage.

Solenoid is a continuous duty type.

PART SETTINGS:

Solenoid itself requires no adjustment, however, linkage should be adjusted so that solenoid can make positive contact when energized and core will leave field when de-energized. Adjust linkage so that solenoid travels

approximately 3/4" to close when energized.

PART REPAIRABLE:

No. Replace when in-operative.

PART MAINTENANCE:

Solenoid proper requires no maintenance but care should be exercised to insure proper voltage to coil to avert burn-outs. Mechanical linkage can be oiled and adjusted to prevent drag on solenoid. Many solenoid burn-outs are caused indirectly such as a sticking time clock which will keep solenoid energized for long periods of time.

PART NAME:

Relay

Potter and Brumfield Type PR5AX

PART NUMBER:

12-419

PART FUNCTION:

Relay is used as a by-pass on the bin thermostat when it tries to cut unit off on a full bin of cubes during a freezing cycle. This insures full cubes every time a harvest occurs and prevents short cycling on bin thermo-

stat.

PART SETTINGS:

Factory set.

PART REPAIRABLE:

No. Replace when in-operative.

PART MAINTENANCE:

Check electrical connections and blow points clear of

lint or dirt.

PART NAME:

Reverse Acting Temperature Control

PART NUMBER:

11-345-1

PART FUNCTION:

Reverse acting temperature control, closes on temperature decrease, opens on temperature rise. Control determines length of freezing cycle and by the same token, the cube size. A lower setting on control will produce larger cubes, a higher setting, smaller cubes. This control actuates time clock motor, Part No. 12-645-1, which then takes over balance of freezing cycle (10 minutes) and also defrost period 2 1/2 minutes.

PART SETTINGS:

Adjustable by screw driver slot.

PART REPAIRABLE:

No. Replace when inoperative.

PART MAINTENANCE:

Check electrical connections. Blow points free of dust,

dirt, lint, etc.

PART NAME:

Contactor

PART NUMBER:

12-820-1

PART FUNCTION:

Across the line contactor used to provide protection for hi voltage compressor only. Contactor is wired so any of the controls in pilot circuit such as bin thermostat will cause contactor holding coil to drop contact points when actuated. There are no overloads or resets on this control.

PART SETTINGS:

Factory set, no adjustments necessary.

PART REPAIRABLE:

No. Replace

PART MAINTENANCE:

Check control for loose electrical connections and

blow free of any dust, dirt, etc.

PART NAME: Temperature Control Storage Bin. White Rodgers

Type 1604-40

PART NUMBER: 11-99-1

PART FUNCTION: To automatically cut machine off when ice level in

storage bin reaches thermostat bulb. Automatically starts machine when ice level in bin falls below bulb

location.

PART SETTINGS: Most of these controls have differential being 4°F.

Settings are 35° cut out and 39° cut in.

PART REPAIRABLE: No. Replace when inoperative. If out of warranty it

can be sent in through your local refrigeration supply dealer and repaired or replaced for a small percentage

of original cost.

PART MAINTENANCE: Remove cover, check points for corrosion or arcing

every six months. Blow control free of bugs, dirt, etc. Check capillary for cracks or worn spots due

to vibration.

Hold small handful of ice on thermostat bulb to check operation of control. Tighten electrical connections.

PART NAME: Timer. Automatic Electric.

PART NUMBER: 12-645-1

PART USAGE: Heart of the cyclematic control system is the cube size

temperature control Part No. 11-345-1 and the time clock it actuates. All electrical components are connected to the time clock terminal board and are shunted by means of a micro-switch to either the freezing cycle or harvest cycle. Micro-switch is in turn actuated by two metal cans that are directly connected to the electric timer clock motor. Timer has a 12 minute cycle, 9 1/2 minutes on freezing cycle after being cut on by low temperature control and

2 1/2 minutes on defrost cycle. Time clock face has numerals to 12 on the face. Each numeral

represents a minute period. Face also has a lever beneath it which can be moved to lengthen or shorten

defrost period.

PART SETTINGS: Normal setting for defrost is on No. 2 1/2 which is

2 1/2 minutes.

PART REPAIRABLE: Yes. Micro-switch, Part No. 12-645-1 are replaceable

as well as timer clock motor only Part No., 12-367.

PART MAINTENANCE: Check all electrical connections, blow contact points

free of dust, dirt, etc.

MAINTENANCE INSTRUCTIONS FOR SCOTSMAN SUPER CUBERS

THE FOLLOWING MAINTENANCE MUST BE ACCOMPLISHED TWO (2) TIMES PER YEAR ON ALL SCOTSMAN SUPER CUBERS.

- 1. Clean air-cooled condenser. This is to be done frequently with the machine shut off. Air cooled models.
- 2. Clean hot water tank and evaporator, sump tank and screen, using Scotsman Ice Machine Cleaner or equivalent.
- 3. Remove jet tube and manually clean jets. Use 5/64" drill.
- 4. Check curtain assemblies. Replace any broken sections.
- 5. Tighten all electrical connections.
- 6. Tighten all bolts.
- 7. Check water supply. Clean and flush flow control. Clean water strainer.
- 8. Oil jet tubes drive motor three (3) places. Use SAE 20 oil--2 oil cups, l crankcase screw covered opening.
- 9. Oil sump pump motor. Necessary to remove pump on some models. Use SAE 20 oil. Note: Some pumps are ball bearing style, they have no oilers hence need no oiling.
- 10. Oil condenser fan motor. Punch sealed cap or remove screws where possible.
- 11. Check for refrigeration leaks with halide torch.
- 12. Check for water leaks. Tighten drain line connections.
- 13. Check size and condition of cubes. Adjust as required. See Service Analysis Section.
- 14. Check bin thermostat setting. Factory set at 35° out, 39° in.

PROCEDURES FOR USE OF SCOTSMAN ICE MACHINE CLEANER IN SCOTSMAN ICE MACHINE.

- 1. Remove front access doors.
- 2. Locate control box with time clock knob protruding thru cover.
- 3. Put unit through a harvest cycle manually. This may be done by turning time clock knob clockwise until a loud snap is heard.
- 4. Let unit finish cube harvest cycle and start into freezing cycle. This will be approximately 5 minutes after the loud snap in Step #3 is heard. At this time turn off the compressor switch.
- 5. Locate the hot water tank which is directly behind the top access door. Remove the hot water tank cover by pulling up around the edge until it snaps off. Pour 16 ounces, of "Scotsman Ice Machine Cleaner" into

- 6. Locate the sump reservoirs which are directly behind the ice discharge chutes. The discharge chutes are covered by a series of white plastic curtains which are free to swing out into the storage bin. Pour 8 ounces, of "Scotsman Ice Machine Cleaner" into each sump reservoir at both the upper and lower levels.
- 7. Let unit operate normally for 10-15 minutes into the freezing cycle.

 No ice will be made because the motor compressor is not in operation.
- 8. At the end of this time put the unit through 2 or 3 harvest cycles manually to allow fresh make up water to clean out remaining solution. Each time waiting approximately 5 minutes after the loud snap until the next harvest cycle is done manually.
- 9. Turn the compressor switch back on.
- 10. Check each new batch of new cubes until they are clean and until acid taste has been removed from cubes.
- 11. Put hot water in storage bin to melt the cubes and thereby clean the drains with the same solution that has just cleaned the unit.
- 12. Use a damp cloth to wipe off curtains and inside of storage bin.
- 13. Replace all access doors.
- 14. Unit is now ready for continued automatic operation.

DESCRIPTION		DESCRIPTION	
CASE PARTS		ELECTRICAL	
Scotsman Emblem	15-474	Temperature Control	
Left Side Door	A-17211	(W-R)	11-99-1
Bulb Cover	A-15759	Timer	12-645-1
Bulb Gasket	13-590	Control, Cube Size	11-345-1
Adaptor Plug	,	Relay (Bin Thermostat)	12-419
(Freezer Assembly)	S-7434	Drive Motor	12-1383-1
Right Side Panel, W.C.	A-9323	Sump Pump	12-418A-1
Right Side Panel, A.C.	A-8490	Contactor	12-820-1
Left Side Panel	A-17210	Terminal Block	12-813
Back Panel, W.C.	A-9321	Toggle Switch (On/Off)	2/unit 12-426
Back Panel, A.C.	A-8495	108810 0 1011 (011, 011,	.,
Drive Bearing Support	A-5660		
Top Panel	A-5694	COMP	
Center Cube Deflector	A-18935	COND. UNIT	
Upper Cube Chute, Left	A-18956		
Upper Cube Chure, Right	A-18955	Dryer	2-677
Lower Cube Chute, Left	A-18954	Relay - Compressor	18-1903-29
· · · · · · · · · · · · · · · · · · ·	A-18953	Motor Compressor	
Lower Cube Chute, Right	A-5693	208 or 230/60/1, W.C	. 18-2300-2
Right Side Panel, W.C.	A-8521	Water Cooled Condenser	18-599
Shroud Top, A.C.	A-17243	Water Regulating Valve	11-198
Upper Curtain Assembly	A-17245	Starting Capacitor	18-1901-30
Lower Curtain Assembly,	A-16680	Running Capacitor	18-1902-29
Right	A-10000	Overload	18-2300-25
Lower Curtain Assembly,	A-16679	Plain Condenser Gasket	18-548
Left		Manifold Condenser	10-310
Door Nut, 6 reqd.	3-1029	Gasket	18-549
Door Screws, 6 reqd.	3-789	(2 per unit) Fan Motor	18-559
Upper Door Assembly	A-16875	(2 per unit) Fan Blades	18-625
Front Door Liner Assembly	2-1536	(2 per unit) Fan Motor	10-025
Lower Front Door	A-17352	Bracket	18-636
Assembly		Condenser, Air Cooled	18-624
Upper Face Plate Assembly		Vibration Eliminator	16-317
Lower Face Plate Assembly		Motor Compressor,	10-511
Bulb Holder Buttons	A-16108		18-2300-4
Cube Tray Assembly,	. 10055	230/60/1, A.C.	10-2300-4
2 reqd.	A-18957	Motor Compressor,	18-2300-4
Left Cup Assembly 2/unit		208/60/1, A.C.	10-6300-4
Upper & Lower	A-18951		
Right Cup Assembly 2/unit	. 10000	Dual Pressure Control	11-286
Upper & Lower	A-18952	W.C. Models	
Rubber Cup Holder 4/unit	13-638		
Accumulator Cover	S-9805		
Door Gasket	A-17250		

For stainless steel case parts add -S to Part No.

WATER VALVE

DESCRIPTION DESCRIPTION	
Upper Valve Rod S-8943 Water Valve A	ssembly A-8332
Rubber Valve Seat Complete	
"O" Ring 2-541 Valve Seat Wa	
Rubber Valve Seat Valve Lever	A-8763
"O" Ring 2-530 Valve Plunger	A-16973
Middle Valve Rod A-8199 Valve Link	A-8188
Valve Nut S-8946 Drain Valve Se	
Middle Valve Spring 2-549 Assembly	A-8182
Lower Valve Rod S-8951 Drain Valve G	
Lower Valve Link S-8953 Valve Guide A	
Spring (Drain Valve Short Pin (Was	er Valve)
Seat Assembly) 2-419 S.S.	S-7974
Roll Pin	3-774
Water Deflecte	or Cup A-18355
WATER CIRCUIT Spring (Soleno	id & Water
Valve)	2 - 42 0
Spray Tube Assembly A-18933	
Inlet Pipe Assembly	TANK
(Upper) A-5858 HOT WATER	TANK
Inlet Pipe Assembly	noid) S-2186
(Lower) A-5857 Long Pin (Sole End Bearing Assembly A-16929 Water Inlet Va	
Dia Bearing in-	S-6947
Overflow Pipe (Sump) A-17521 Valve Seat	
Strainer 16-207 Nut (Inlet Valv	ik Assembly A-18036-1
Standpipe Ove Hot Water Tar	
DRIVE MOTOR & LINKAGE Compression (Hot Water	Tank) 2-419
A 17222 1 10dt 1155 cm	• /
Drain Screen,	A-16378
A 17222 Talk	2-419
7.1. Cavalina C 7036	3-255
A 17224 Wing Nut	
C 7040 Right Bracket	
C 7020 Left Bracket	1 1
Hot water 1al	
$\Delta = 17230$	2-530
Duiser Arm Assembly S-9666	
Solenoid	12-1396-1
12 1383 1 Flow Control	A-13346-4
C 7027	12-246
Thermo Disc	
2 257 Flastic Water	
Solehold Modi	
Lastic Stop is	
Grommet, 4	
Roaring (Nil Life A-7055	
Bearing, Oil Lite A-7033 Washers, 4 r Screws	eqd. 13-298 3-499