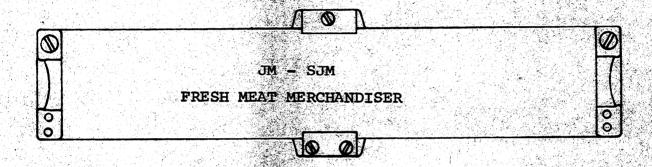
### INSTALLATION & SERVICE INSTRUCTIONS





please retain for future use engineering dept. bulletin# 75-154-2

IN THE CONSTANT EFFORT TO IMPROVE OUR PRODUCTS. WI RESERVE THE RIGHT TO CHANGE AT ANY TIME SPECIFICATIONS DESIGN, OR PRICES WITHOUT INCURRING OBLIGATION



P. O. Box C 1600 Rockdale Industrial Blwd. Conyers, Georgia 30207 404 483-5600



DIVISION OF KYSOR INDUSTRIAL CORPORATION

West Industrial Road Marshall, Michigan 49068 616 781-3911

# A New Record For Fresh-Meat Merchandisers

# **TECHNICAL DATA**

JM—Solid Mirrored Back
SJM—Sjiding Rear Glass Doors

12-Ft.	Models	12'0"	12′4″	80.4 cu. ft.	43 sq. ff.
8-Ft.	Models	%,0,%	. 8′4″	53.6 cu. ft.	28.7 sq. ft.
		•	•	٠	•
		•	•	٠	٠
		ength: less ends .	with ends	Subject content	roduct-facing area

# CAPACITIES:

	12-Ft.				
	8-Ft	. 19.7 sq. ft.	. 9.3 sq. ft.	. 10.7 sq. ft.	. 13.3 sq. ft.
CTTTOTTO		Main deck (wire rack)	Optional shelves - 14".	16"	20″

EXTERIOR: Baked enamel front, ends, and top in standard COLORAMICS® shades at no extra charge. Stainless-steel trim in exclusive Warren patterns. Bumper rail on front of display areastainless steel. Closure plate of black baked enamel to conceal pedestal area—prevents debris accumulating beneath case.

INTERIOR: One-piece shell of fiberglass allows the unit to be hosed. Rear baffle is white baked enamel on rust-resistant steel. White fiberglass

# ELECTRIC DEFROSTING is standard.

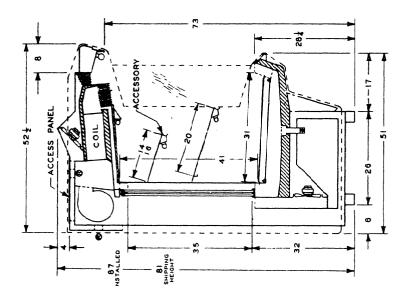
TEMPERATURE-REGULATING VALVE included in each case.

HIGH-OUTPUT FLUORESCENT LIGHTING in top reflector.

REFRIGERATION: This unique WARREN/ SHERER® principle features extra-heavy-duty top coiling with multiple fans.

MULTI-CASE CONSTRUCTION allows a continuous lineup of both models without interruption in the displays, using one pair of ends.

MAIN-LEVEL TELESCOPING WIRE RACKS
—straight with round wire bright-electro-zinc
plated with protective coating of clear lacquer
baked on.



# Appendix B

## ACCESSORIES AVAILABLE AT EXTRA CHARGE

HOT-GAS DEFROSTING in lieu of electric.

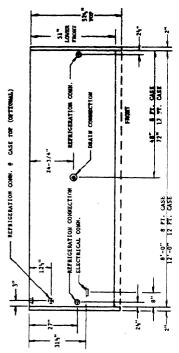
UPPER-LEVEL LIGHTED SHELVES — 14", 16", or 20", sloped or flat, white baked enamel; lighted or unlighted. Adjustable on 112" centers. Recommended shelves are 16" and 20" sloped.

21%" and 41%" FENCING for sloped shelving.
TURNTABLE With Two 20" wire shelves rotates electrically - 115 volt.

RING-FOR-SERVICE BUTTON

DECOR TRIM for recessed channel in front of ton.

STANDARD OR TRANSPARENT SLIDING MIRRORS in lieu of glass docts in SIM.



IN THE CONSTANT EFFORT TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO CHANGE AT ANY TIME SPECIFICATIONS. DESIGN, OR PRICES WITHOUT INCURRING CONGATION.



- DIVISION OF KYSOR INDUSTRIAL COMPORATION -

### INTRODUCTION

The following instructions are provided for your information to facilitate ease and economy of installation along with longevity of product service. Please utilize this important tool to its utmost. For information not contained in this booklet please consult directly with your Warren/Sherer Engineering or Service Department.

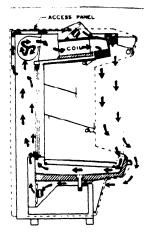
### DESCRIPTION AND PURPOSE OF UNIT

Description

The SJM is designed as a rear loaded fixture with sliding doors to be backed up to a meat prep room or open aisle between prep room and fixture. The JM is for front loading only.

The JM-SJM is a combination of two air curtains. The inside jet, discharged through a 6" honeycomb at approximately 550 fpm is recirculated under the deck pans, up the back through the 9" square combination structural supports and return air ducts through the squirrel cage blowers at the top back and then through the 32-tube coil to the 6" honeycomb. The outer jet is a semi-recirculated jet and discharges through the 3" honeycomb at about 400 fpm and goes over the front color band. Just under the projected front is a grille which picks up this air, and it goes through a bottom set of fans and is discharged upward against the back of the sliding doors. This has the dual advantage of keeping the doors condensate free and helping to relieve a potential cold aisle problem. This same air is then picked up at the top of the doors and pulled through another set of fans and discharged again through the 3" honeycomb.

A sketch showing air flow as described above follows.



MODE	<u>DESCRIPTION</u>	SERIAL NUMBER DESIGNATION		
SJM	Multi-deck Fresh Meat Case With Rear Sliding Doors	639		
JM	Multi-deck Fresh Meat Case	638		

### APPLICATION

Maximum store conditions are 80°F, 55% R.H. A relative humidity in excess of 60% will cause localized sweating and increase operating cost.

When used with an aisle space behind the fixture, it is not necessary to refrigerate this area if conditions can be maintained at 70°F db/55% RH or below. Generally, unless there is externally forced circulation in this area, the recirculated guard jet of air will keep this area at or below these conditions in addition to keeping the glass doors condensate-free.

With a fixture of this size, store air conditioning must be considered. For best merchandising and most comfortable shopping conditions, the fixture should face a wide open aisle, preferably with the gondolas across the aisle perpendicular, not parallel. To avoid excessive cold aisle problems, air circulation must be assured by proper air conditioning design. If in doubt, contact your nearest Warren/Sherer Application Engineering Department.

Refrigeration, electrical and waste drip connections must be planned early. There is provision in the top coil compartment and under the deck pans for interconnection of the fixtures. The waste drips may be interconnected under the foam shell. Best practice is to connect no more than three fixtures together on waste piping. The waste drip should be an "indirect" open type where the condensate free fails into an open floor drain. In the Appendix there is a floor plan layout of the JM-SJM fixture giving location of waste drip, electrical and refrigeration connections.

### COMPRESSOR REQUIREMENTS

Compressor requirements are listed in the Appendix for various length lineups. The condensing unit may be either a single compressor - Mastermetic for a lineup of 1 thru 4 fixtures, or a parallel rack of 2 or 4 compressors - Minimetic or Multimetic - serving the entire medium temp requirements of the store. The ratings shown are based on a +5°F evaporator, 105°F condensing temperature and store ambients of 80°F and 55% RH. Higher humidities will induce sweating and excessive coil frosting.

### **OPTIONS**

Options to be considered in planning include glass doors (if you want your customer to see your butchers at work), one-way conventional mirror and two-way "see-thru" mirrors (for a quick visual check of stock labels). When using the two-way mirrors, the area behind the fixture must be a lower level of light intensity than the case itself - 50 foot candles is recommended.

### MAINTENANCE

Routine Cleaning
Weekly maintenance should consist of removal of shelves, deck pans, and wire
racks, and thorough in-place cleaning of racks, deck pans, shelves, and drain
pan area and return air grill, using one of the many high-pressure low-watervolume sprayers now on the market at costs of less than \$200. A detergent
such as Tide may be used, although a bactericidal commercial cleaning solution
is preferred. Practically any water-based cleaning solution may be used

PROVIDED it is rinsed off immediately. After cleaning, the above should be wiped dry and replaced. Next, all interior surfaces should be wiped dry and replaced. Next, all interior surfaces should be wiped down with a solution of 1/2 cup Lysol (or equal) to one gallon of warm water. Don't use detergents on mirrors - use Bon Ami Wonderful Glass Cleaner or equal.

Semiannual Cleaning

Semiannual maintenance requires removal of honeycombs and thorough cleaning of them with a hose. Handle carefully since they are fragile. Details for honeycomb removal are shown in the Appendix. The upper coil drain pan should be cleaned thoroughly with a high-pressure cleaner. The base area should be vacuumed to remove debris and dust.

### INSTALLATION

Unloading

CAUTION: The top of the JM or SJM cases are not designed for walking on. Serious personal injury could occur plus irreparable damage to the case.

Remove all shipping braces carefully and inspect for damage, preferably in the presence of the delivery man. List any damage on the freight bill and have the delivery man sign it. This is for your protection in settling damage claims.

Setting

Setting the cases requires the following:

- 1. "Johnson bar" or "dog"
- 2. 3 2" pipe rollers
- 3. Set of socket and box-end wrenches
- 4. Crowbars
- 5. Shims
- 6. 4' Carpenter's Level

These fixtures are 52-1/2 inches wide and 87 inches high complete. If requested, they can be shipped with canopy panel, top fan plenum and cover and rear air duct separately for dimensions of 49 inches wide, 81 inches high or parts removed before moving into store. Measure your doors before arrival.

The fixtures are aligned at the factory prior to shipment on an absolutely level roller bed and cases intended to be joined together are marked "case of lineup \_\_\_ " on each end. It is imperative that these markings be observed.

Start at the left end and set case 1 in place, on shims if required. It is often helpful to sight the floor to make sure that there is not a pitch to the entire floor. Minor variations in height can be shimmed as you go along. Make sure that gasketing is in place for a good air seal. Replace gasketing if destroyed in transit.

Case 2 should be placed adjacent to case 1, and the T-nuts and bolts (marked 1 on Joint Kit List in Appendix) used to draw the cases together. DO NOT USE JUST ONE OR TWO BOLTS TO DRAW CASES TOGETHER. Tighten all bolts approximately the same amount at a time. When the fixtures are still 1/2" apart, caulk, with silicone sealant, the entire portion of the fixture in the foam shell area (drain pan) so that when final tightening is accomplished, the silicone is squeezed out along the entire metal end frame adjacent to the foam shell.

Next, both cases now joined together should be re-checked for level and shimmed where necessary. Now proceed to case 3.

Joint Trim/End Trim

Do not install any joint trim until entire lineup is in place and level. When the entire lineup is in place and level, then joint trim can be installed as shown on Appendix drawing.

Defrost Types

Defrost can be either conventional electric defrost or reverse cycle hot gas Minimetic and Multimetic systems only.) Usual requirements in well air-conditioned stores are four defrosts per day at 14 minutes each on electric defrost and four per day at 10 minutes each on hot gas.

The defrost is temperature terminated to assure the shortest defrost possible. A 2EC type control panel will include the proper time clock.

Hookup - Refrigeration, Electric, Waste Drip CAUTION: FIXTURES MUST BE INSTALLED ACCORDING TO NATIONAL ELECTRIC CODE AND MUST BE GROUNDED. Hookup of refrigeration lines can now be started. Sil-fos, silver solder or soft solder can be used. Be sure that all ferrule openings are sealed with urethane foam which can be dispensed from the throw-away can. Electrical interconnection can be made through the top ferrule along with refrigeration lines, but it is easier and less expensive to use the raceways provided in the lower front. Some areas require that 220-volt and ll5-volt wires be segregated. This can be done by using both raceways provided. The circuits that must be pulled to the lineup are:

- Two 208-230 volt wires for defrost (if electric) (Three wires if 3phase defrost)
- 2. Two 115-volt wires for fans and antisweats
- Two 115-volt wires for lights
- 4. Two 208-230-volt rated #14 AWG conductors for temperature termination.

Wire sizes can be selected from the application sheet in the Appendix. Local codes should be observed. In most applications, circuits 1 and 4 listed above go back to the condensing unit control panel, while 2 and 3 can be pulled to any convenient separate power source.

The waste drip, discussed earlier, can be run using ABS, PVC, or galvanized iron pipe, local codes permitting.

### DEHYDRATION OF REFRIGERATION SYSTEM

### PLEASE READ CAREFULLY BEFORE PLACING SYSTEM INTO OPERATION

- 1. After laying refrigerant lines, they should be blown out before making final connection at fixture or condensing unit. Use either carbon dioxide or dry nitrogen to prevent any foreign matter being left in the lines. Keep pressure below 250 pounds.
- 2. To prevent sealing due to brazing, dry nitrogen should be allowed to flow through lines while braxing operations are taking place.
- 3. After installation is complete and checked for leaks, pump a deep vacuum using a vacuum pump.. DO NOT USE THE CONDENSING UNIT FOR THIS PURPOSE.
- 4. Break vacuum on system by releasing refrigerant through a dehydrator until pressure gauge reads above zero pounds. Repeat steps three and four.
- 5. A dehydrator should be used in the charging line when adding refrigerant.
- 6. A dehydrator of sufficient capacity must be installed in the liquid line before placing system into operation.

Start-up, Control Settings
Start-up, after proper evacuation, consists mainly of determining correct control settings. Following are recommended initial settings:

- 1. Defrost Terminating Thermostat about 50°F
- 2. Time Clack 4 per day at 14 minutes each (electric) (for humid stores, increase frequency/length as required)
- 3. Pressure Control con Condensing Unit R-12 cut out 5 psig, cut in 15 psig; R-502 cut out 24 psig, cut in 42 psig.

### OPERATION

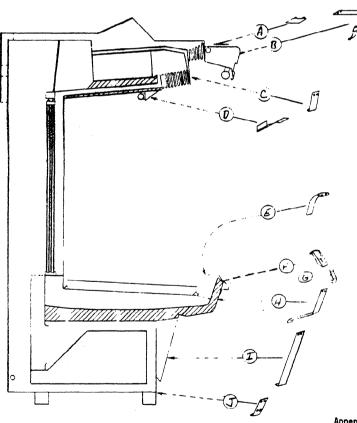
To obtain proper temperatures with concise control, a thermostat should be used, although it is not mandatory. When the condensing units are subjected to low ambient during the winter months, a thermostat may be necessary. The thermostat bulb should be located in the discharge air.

### EXPANSION VALVE

The expansion valve has been carefully sized and set for the unit to give maximum coil efficiency. The valve bulb has been strategically located and MUST NOT BE MOVED. Due to local conditions, adjustment of the expansion valve may be necessary after a minimum of 6 hours operation. Do not adjust the expansion valve at this point until you have checked the inlet strainer. If adjustment is necessary, adjust the valve to give frost line to ferrule hole where the suction line exits the case.

### JOINT KIT Nº 94D13-99 FOR MODELS (S)JM - (S)JM

PRRT BUEBER	DRAWING LETTER	DESCRIPTION	BEG.D
16F10-52	F	JOINT TRIM CASTING	
19415-10		3/8-16 HEX SCP MUT	_2
10415-13		3/R SO HD TEE HUT SMALL	5
19R13-11		3/8 CUT WASHER SCP	5
20E10-10		3/8-16 X 2-1/2 HEX HD MACHINE BOLT SCP	5
20E10-12		3/8-16 X 2-1/2 HEX HD MACHINE BOLT SCP THRD	5
SIAII-II		8-32 X 1/2 SHEET METAL SCREW SS FH PH	2
21812-15		8 X 3/4 SS SELF DRILL SCREW	8
21312-17		10-16 X 1/2 SELF DRILLING SCREW	10
29810-17		1/4" BEAD SEALER	8.4 FT
51F11-58	1 1	BASE KICKPLATE JOINT TRIM	1
51F11-88	D	I.S. TOP LIGHT JOINT TRIM	11
51F11-91	E	RETURN AIR JOINT TRIM	1
51X16-43		METAL SHIPPING BRACE	2
53E16-15	H H	UPPER FRONT PANEL JOINT TRIM	1
53E16-34	B	CANOPY JOINT VINYL TRIM	1
53E16-43+2	7	LOWER FRONT JOINT TRIM VINYL ACC	1
54E18-54		JOINT CASTING TRIM	
54L2D-47	C	HTR RATE HONEYCOMB JOINT TRIM	1
54V10-13		ROUND SLUG TEE NUT WASHER	5
55P12-96	G	COLORBAND NOSE PIECE TRIM	1
73F19-54	A	BAFFLE ACCESS COVER	2



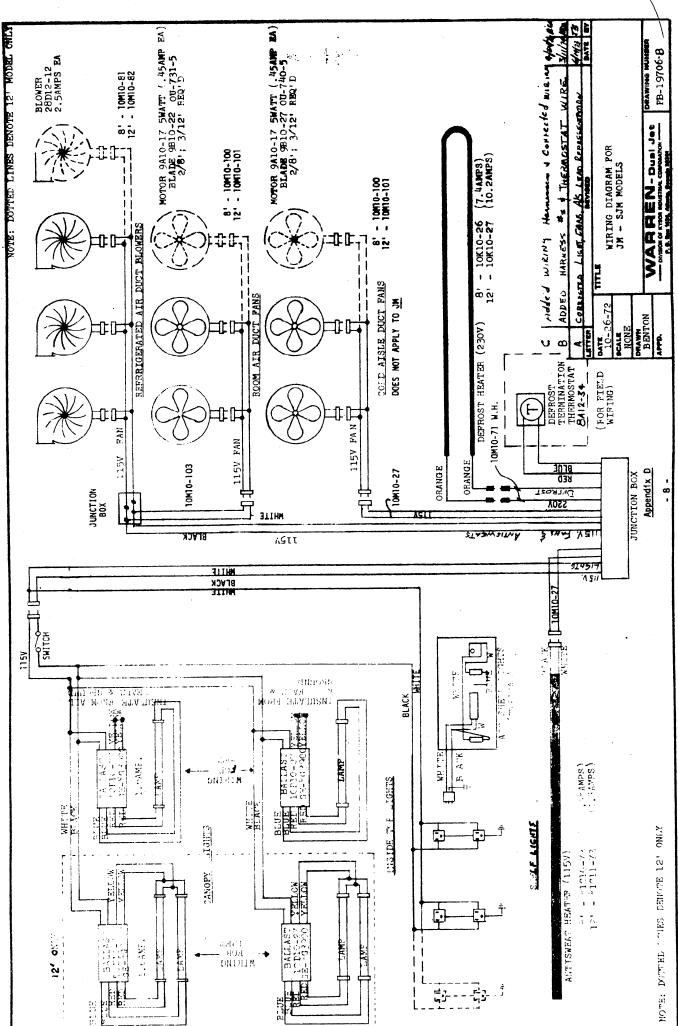
### BATES:

- FOR SIMPLIFICATION, PLACE FIXTURES AS NEAR THEIR PERMANENT LOCATION AS POSSIBLE BEFORE REMOVING SKIDS OR ROLLERS.
- 2. THE LEVELING OF FIXTURES IS VERY IMPORTANT. SKILLED PERSONNEL AND AN ACCURATE LEVEL MUST BE USED. WOODEN WEDGES ARE FURNISHED TO ASSIST IN THIS OPERATION.
- 3. AN AMPLE SUPPLY OF 1/4" ROUND SEALING COMPOUND IS SENT WITH EACH MULTIPLE INSTALLATION FOR SEALING OFF ANY AIR LEAKAGE. IT IS ESSENTIAL THAT ALL AIR LEAKS BE SEALED IN ORDER TO PREVENT OPERATING DIFFICULTIES. REMOVE ANY EXCESS SEALING COMPOUND WITH A SOLVENT SUCH AS MINERAL SPIRITS.
- 4. FIXTURES ARE TO BE PLACED END TO END AS NEAR IN LINE AS PSSIBLE. CASE 2 SHOULD BE PLACED ADJACENT TO CASE 1, AND THE T-NUTS AND BOLTS USED TO DRAW THE CASES TOGETHER. DO NOT USE JUST ONE OR TWO BOLTS TO DRAW CASES TOGETHER, INSTEAD TIGHTEN ALL BOLTS APPROXIMATELY THE SAME AMOUNT AT A TIME. WHEN FIXTURES ARE STILL 1/2" APART, CAULK, WITH SILICONE SEALANT, THE ENTIRE PORTION OF THE FIXTURE IN THE FOAM SHELL AREA (DRAIN PAN), SO THAT WHEN FINALLY TIGHTENED, THE SILICONE IS SQUEEZED OUT ALONG THE ENTIRE METAL END FRAME ADJACENT TO THE FOAM SHELL.
- 5. "B" HONEYCOMB DIVIDER JOINT TRIM. PLACE OVER JOINT OF HONEYCOMB AND SECURE WITH (2) #8 X 5/8" SCREWS.
- 6. "C" INSIDE LIGHT RAIL JOINT TRIM. PLACE OVER LIGHT RAIL JOINT AND SECURE WITH (2) #8 X 5/8" SCREWS.
- 7. "A" CANOPY JOINT TRIM. PLACE OVER CANCPY JOINT AND SECURE WITH (2) #8 X 5/8" SCREWS.
- 8. "D" RETURN AIR GRILLE JOINT TRIM. PLACE OVER RETURN AIR GRILLE JOINT AND SECURE WITH (2) #8 x 5/8 " SCREWS.
- 9. "H" KICKPLATE JOINT TRIM PLACE OVER FICK-PLATE JOINT AND SECURE WITH #10 x 1/2" SCREWS.
- 10. "E" COLORBAND JOINT CASTING. PLACE CASTING
  "E" OVER THE CENTER OF JOINT, HOOK BACK TOP
  PART OF CASTING OVER TOP CAP AND PRESS DOWN.
- 11. "F" FRONT PANEL JOINT TRIM. PLACE OVEF FRONT PANEL JOINT AND SECURE WITH (4) #8 X 1-1/4" SCREWS.
- 12. "G" LOWER FRONT PANEL JOINT TRIM. PLACE
  OVER LOWER FRONT PANEL AND SECURE WITH (4)
  #8 x 1-1/4" SCREWS.
- 13. "J" BAFFLE ACCESS COVER. PLACE OVER BFFFLE ACCESS AND SECURE WITH (2) #10-24 X 1/2" SCREWS.

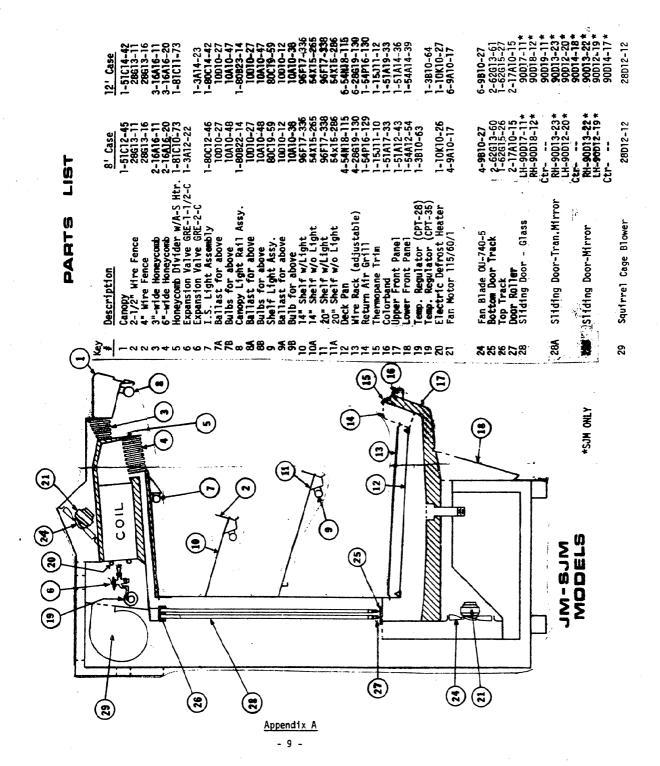
Appendix C

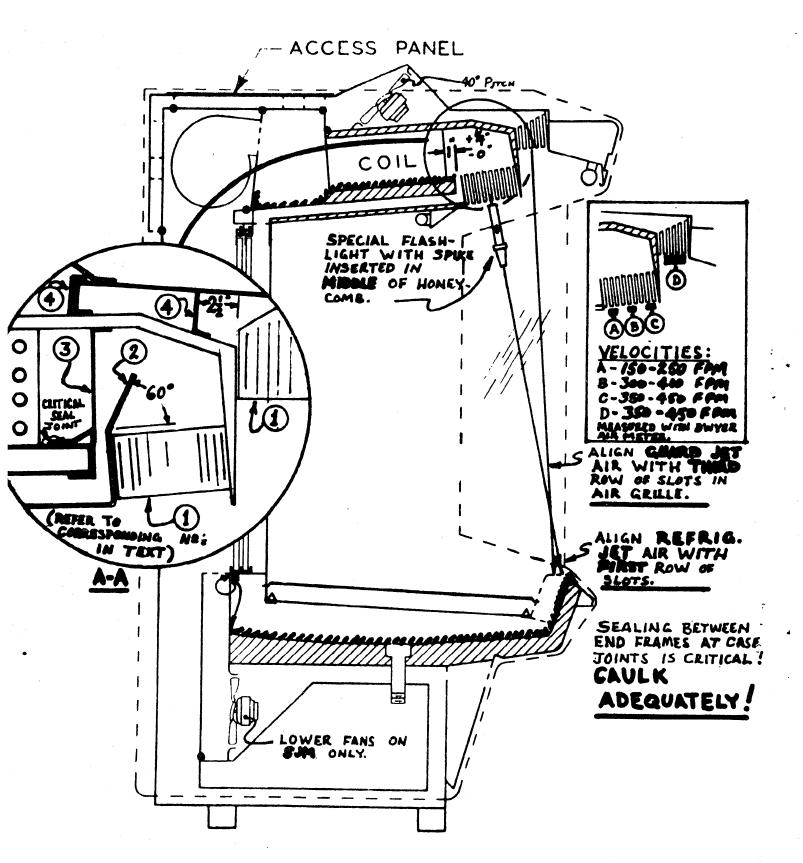
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PC-20322



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- DENOTES CRITICAL AIR SEAL AREA.

MODEL (S)JM

Appendix F

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NOTES:

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1. COND. UNIT RECOMMENDATIONS BASED ON 80° F & 55% RH STORE AMBIENT.

2. SAH(AIR COOLED) UNIT SELECTION IS BASED ON AIR TEMPERATURE ENTERING CONDENSOR AS SHOWN. SWH (WATER COOLED UNIT SELECTION BASED ON 2 GPM TON-75° F WATER ENTERING.

3. COND. UNIT SUFFIX IS:

ACOMO. UNIT SUFFIX IS:

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RL-LOW TEMP R-502 RC-MED TEMP R-502 FC-MED TEMP R-12 % **5° F** % **5° F** % **5° F** 

SUCTION LINET 1600, LINUID LINE 1/2

CONNECTIONS:

OR OTHER FITTING.

8

RISER AND P-TRAPS SHOULD BE RE-7. ٠, BASED ON BEST INFORMATION AVAILABLE
AND ON CONDITIONS AS LISTED FOR
APPLICATIONS NOT LISTED CONSULT
ENGINEERING DEPARTHENT.

LINE LENGTHS SHOWN ARE EQUIVALENT
LENGTHS. TO DETERMINE EQUIVALENT
LENGTH MEASURE ACTUAL LINEAL LENGTH
FROM COMPRESSOR TO FURTHEST CASE
AND ADD FOUR FEET FOR EACH FLROW

CAUTION: THESE RECOMMENDATIONS

DUCED ONE SIZE FROM THAT SHOWN WIRE SIZES ARE BASED ON 100° OF TYPE T AND TW.

LIGHTS: AMPS SHOWN ARE FOR STANDARD FIXTURES. FOR EACH LIGHTED SHELF ADD 0.7 AMP. THREE PHASE AMPS IS MAXIMUM 6 8

WASTE OUTLET IS STANDARD 1 INCH M.P.T. FOR ONE LEG. 10.

FRESH MEAT 

CONDENSING UNIT RECOMMENDATIONS, REFRIGERANT LINE SIZING, ELECTRICAL DATA FOR: MODEL JM UP TO 80 ° STORE ARREN/SHERER RECEMBER 21,1972

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