Aladdin Temp-Rite®...better by degrees.

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ALI GROUP

J713 SERIES COLD FOOD COUNTERS

INSTALLATION, OPERATION & MAINTENANCE MANUAL

Manual P/N 93336
Rev. F 11/21/2018

J713 SERIES COLD FOOD COUNTERS

CONTENTS

J713 SERIES COLD FOOD COUNTERS

I. MODELS

The Aladdin® J713 series Cold Food Counters contains four different models in the J713 line and two different models in the J713 "Slim-Line" series.

These Aladdin Cold Food Counters are mobile/free standing modularly designed products which are able to stand independently or be used in conjunction with other units in a cafeteria line arrangement.

Aladdin Sales Codes	J713	J713A	J713B	J713C
Description	3-well	4-well	5-well	6-well
Overall Dimensions:				
Length	48"	62"	76"	90"
Width**	30"	30"	30"	30"
Counter Height	37"	37"	37"	37"
Height with optional 1 tier	51¼"	51¼"	51¼"	51¼"
Height with optional 2 tiers	64"	64"	64"	64"
Electrical Requirements:				
Voltage	120V	120V	120V	120V
Amperage	8AMPS	8AMPS	8AMPS	11AMPS
Compressor horsepower	1/3	1/3	1/3	1/2
Standard NEMA Plug	5-15P			
Approximate Shipping Weight without options	445 lbs.	485 lbs.	525 lbs.	575 lbs.

**The overall width with optional 6" wide workshelf is 36".

Aladdin Sales Codes "Slim-Line"	J713D	J713E
Description	2-well	3-well
Overall Dimensions:		
Length	54"	74"
Width*	19"	19"
Counter Height	37"	37"
Electrical Requirements:		
Voltage	120V	120V
Amperage	8AMPS	8AMPS
Compressor horsepower	1/3	1/3
Standard NEMA Plug	5-15P	5-15P
Approximate Shipping Weight without options	415 lbs.	485 lbs.

*Models manufactured prior to July 1, 1999 have an overall width of 22"

II. RECEIVING INSPECTIONS

NOTE:
All Aladdin units are factory tested for performance and certified free from defects.

The purchaser/user has the best knowledge and is in the best position to determine the operating conditions, appropriateness of the product for the operating environment, and safe use of the product. Aladdin Temp-Rite does not warrant, implied or expressly, that the product is fit for a particular use or operating environment.

ALADDIN DAMAGED GOODS POLICY

There are two types of damaged merchandise:

- Visual Damage
- Concealed Damage

Visual Damage – When the product being received is visibly damaged.

1. Receiver should not accept merchandise with visual damage.
2. Receiver must sign delivery receipt “refused merchandise due to damage” and specify damage.
3. Receiver should call Aladdin Customer Service immediately after refusal.
4. Carrier will notify Aladdin Traffic Department and a claim will be filed.
5. Carrier will send acknowledgement of claim within 7 days after receiving.

Concealed Damage – When damaged merchandise cannot be externally detected.
Any receiving operation should be looking for this type of damage. Sometimes, however, depending on the type of product, it is almost impossible to notice.

1. Merchandise must not be removed from point of delivery and all packaging must be kept intact.
2. Receiver must contact Aladdin customer service to report damage.
3. Aladdin traffic department will request inspection based on the dollar value of the cargo.
4. Aladdin traffic department will file a claim based on the findings of the inspection.

Failure to comply with these policies will result in the customer’s responsibility to file claims.

III. INSTALLATION INSTRUCTIONS

The Aladdin J713, J713A, J713B, J713C, J713D, and J713E Series Refrigerated Cold Food Counters are self-contained units designed to be used as cold food serving counters. The design of these units allows for maximum mobility, where the units can be arranged in the most productive position and easily moved for cleaning or maintenance purposes.

Simply position the unit in its operating position, connect to the proper power supply, and the unit is ready for operation. Refer to the "Operating Instructions" before energizing the unit.

IV. OPERATING INSTRUCTIONS

The Aladdin J713 Series Cold Food counters are delivered pre-charged and ready for operation at your facility. Simply place your new unit in its operating position and plug it into the proper power supply (NEMA 5-15, 115Vac, 60HZ, single phase, 12 amp). Turn on the switch located in the louvered panel covering the compressor compar. Turn on the switch located in the louvered panel covering the compressor compartment. In approximately sixty (60) minutes it will be ready for service. The surface of the cold pan should form a heavy frost pattern when it is ready to be used.

NOTE: The Aladdin J713 Series Cold Food Counters are refrigerated serving/assembly units and are not designed for long term storage.

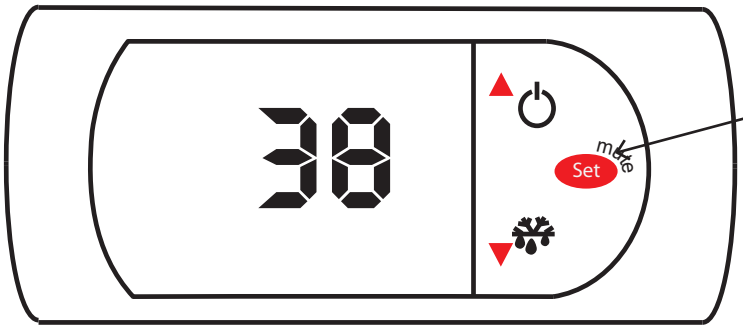
The refrigeration system supplied with these systems are of the hermetic type. Refrigerant is metered by expansion valves which are located in the compressor housing of the J713 series. Each refrigeration system is self contained and has been leak tested, charged with refrigerant and operated to ensure the proper operation and setting of the controls.

OPERATION: The system temperature is controlled by a thermostat which is located inside the compressor housing. The thermostat controls a liquid line solenoid which controls the flow of refrigerant to the cooling coils. A low pressure control (physically located in the front of the compressor compartment) is used to cycle off the compressor. The low pressure control settings should not be changed from the preset factory settings. The adjustment of this control may cause performance problems with the unit. The temperature of the unit is directly controlled by the thermostat.

IMPORTANT:
All cold food counters come with a 10" x 10" or 12" x 12" air filter located at the face of the condenser unit. It is important to check this filter every 30 days and replace if necessary to ensure the proper operation of the unit. Failure to check this filter and replace if clogged can and will cause premature compressor failure and will not be covered by factory warranty.

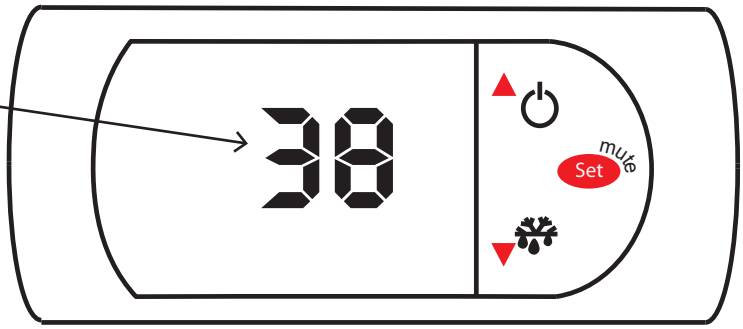
It is very important that the maintenance personnel be informed of this feature. The purpose of this filter is to keep the condenser fins as clean as possible. If the filter is removed and discarded the fins will become clogged or if the filter is not checked and replaced the compressor works harder to maintain temperature and the interior cabinet temperature will rise.

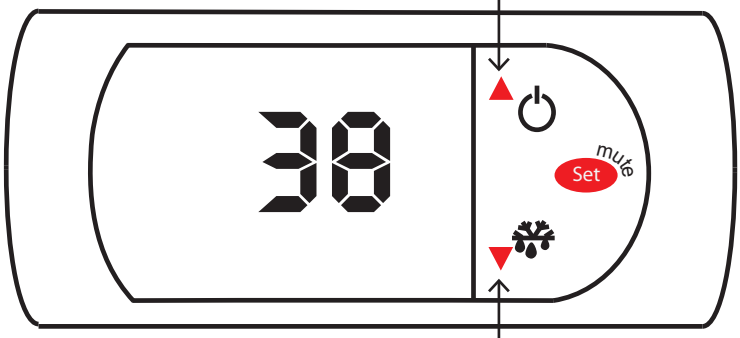
How to adjust thermostat



Press and hold "Set" for one second

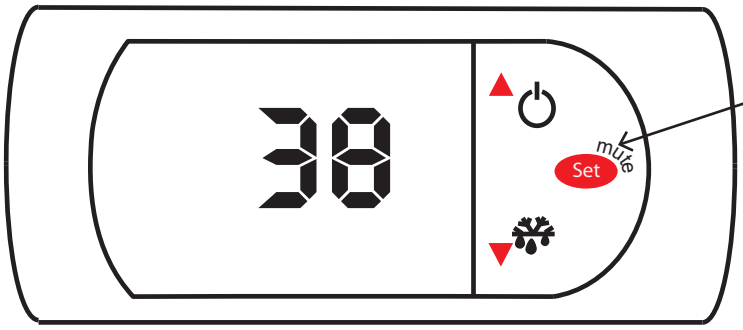
Temperature will flash





Press up arrow to raise set point

Press down arrow to lower set point



Press and release "Set" to exit

V. CLEANING

HOW TO CLEAN STAINLESS STEEL

1.WHEN TO CLEAN

It is recommended that all stainless steel equipment be cleaned on a regular basis. Any piece of stainless steel equipment that is soiled should be cleaned daily to ensure the long life of the equipment. Routine cleaning will lessen stainless steel abrasion.

2. HOW TO CLEAN

To remove most soil, use a non-abrasive, non-chlorinated soap solution. Rinse thoroughly with warm water and wipe dry using an absorbent cloth TO REMOVE HEAVY SOIL, RUB THE AREA WITH A NON-METALLIC, FINE GRAIN SCOURING CLOTH. Be sure to rub in the same direction as the metal grain. Rinse thoroughly with warm water and wipe using a soft absorbent cloth. As a final step, a stainless steel polish may be used. The polish will shine the stainless steel and provide a protective finish that will reduce future soiling.

3. CLEANING SAFEGUARDS

Always rub with the metal grain.
NEVER USE STEEL WOOL OR METALLIC SCOURING CLOTHS. This will help prevent scratching and possible damage to the surface finish.

Use recommended dilution. Do not exceed concentration levels which may cause long term deterioration of surface. Be certain to rinse thoroughly to prevent build-up of cleanser.

NEVER USE CHLORINE OR BLEACH SOLUTIONS. Check the ingredients of cleaning solutions or disinfectants used as they may contain chlorinated solvents.

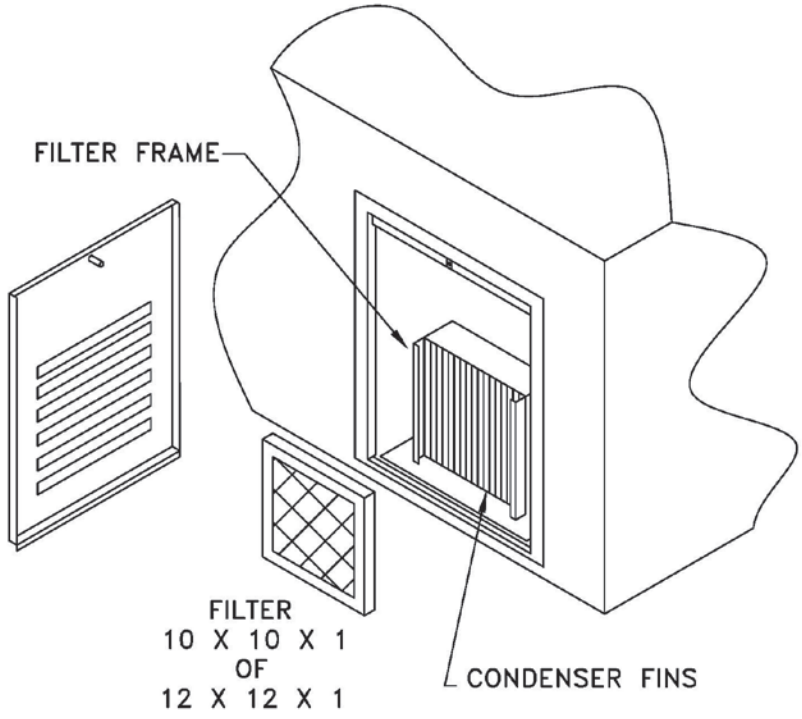
Always read the label of the cleaning solutions. Check for warnings about use on stainless steel products. Repeated use of chlorinated solvents may cause a chemical reaction with the stainless steel, which may damage the surface and cause rusting.

NOTE: If stainless steel products are shipped in a corrugated container which is received in a wet condition, the product should be immediately unpacked and cleaned.
Prolonged storage in a wet corrugated container may cause rusting due to a reaction with chemicals in the container.

4. STERILIZING STAINLESS STEEL

When sterilizing stainless steel equipment, pay particular attention to agents containing chlorine compounds such as potassium hypochlorite. These compounds may break down and release free chlorine, or hydrolyze to form hydrochloric acid. Stainless steel resists attack by the compounds for up to two hours. Severe localized pitting may occur with longer exposure. For safe use of the agents, keep contact time short, flush thoroughly with water, and operate equipment normally between applications. Using these precautions, the sterilization process can be repeated any number of times.

CONDENSER FILTER ACCESS
CHANGE EVERY 30 DAYS



1. TO REMOVE THE LOVER PANEL LOOSEN THE THUMB SCREW LOCATED AT THE TOP OF THE PANEL.
2. TILT THE TOP OUT AND LIF PANEL STRAIGHT UP.
3. LIFT THE FILTER STRAIGHT UP OUT OF THE TRACK
4. WHEN REPLADING THE FILTER NOTE THE AIR FLOW DIRECTION; IT SHOULD BE POINTING TOWARD THE CONDENSER FINS

NOTICE: THIS FILTER MUST BE CHANGED EVERY 30 DAYS TO ENSURE PROPER OPERTATION OF THE UNIT. FAILURE TO CHANGE THE FILTER WILL CAUSE THE COMPRESSOR TO RUN HOT AND CAUSE PREMATURE COMPRESSOR FAILURE. IF THE FILTER IS REMOVED AND NOT REPLACEED THE CONDENSER FINS WILL BECOME CLOGGED AND REQUIRE A CHEMICAL RINSE TO CLEAN

VI. TROUBLESHOOTING

CAUTION: MAINTENANCE AND REPAIR OF THIS REFRIGERATOR-FREEZER SHOULD BE PERFORMED ONLY BY QUALIFIED REFRIGERATION PERSONNEL

COMPLAINT	POSSIBLE CAUSE	POSSIBLE SOLUTION
Compressor will not start (no hum)	1. Service switch open. 2. Unit is unplugged. 3. Fuse removed or blown or circuit breaker tripped or switched off. 4. Compressor motor protector open. 5. Low pressure control is stuck in open position.	1. Close service switch. 2. Plug in unit. 3. Replace fuse or reset circuit breaker. 4. Replace protector. 5. Repair or replace low pressure control.
Compressor will not start, hums and trips fuse or breaker	1. Low voltage to unit. 2. Start capacitor defective. 3. Start relay fails to close. 4. Compressor motor has a winding open or shorted. 5. Internal mechanical trouble in compressor.	1. Call power supplier. 2. Replace capacitor. 3. Replace relay. 4. Replace compressor. 5. Replace compressor.
Compressor starts but does not switch off of start winding	1. Low voltage to unit. 2. Start relay failing to open. 3. Excessively high discharge pressure due to A. Discharge shut-off valve partially closed. B. Refrigerant overcharge. C. Insufficient cooling of condenser. D. Air in system. E. Restriction in refrigeration system. 4. Compressor motor has a winding open or shorted. 5. Internal mechanical trouble in compressor.	1. Call power supplier. 2. Replace relay. 3. A. Turn stem counter clockwise to open. B. Reduce system charge. C. Clean condenser. D. Evacuate system and recharge. E. Check filter and see-all. Replace as necessary. Check expansion valves. Clean or replace as necessary. 4. Replace compressor. 5. Replace compressor.
Compressor starts and runs but short cycles on the overload protector (CONTINUED ON NEXT PAGE)	1. Low voltage to unit. 2. Overload protector defective. 3. Excessively high discharge pressure due to A. Turn stem counter clockwise to open. closed. B. Refrigerant overcharge. C. Insufficient cooling on condenser. D. Air in system. E. Restriction in refrigeration system.	1. Call power supplier. 2. Replace overload protector. A. Discharge shut-off valve partially B. Reduce system charge. C. Clean condenser D. Evacuate system and recharge. E. Check filter and see-all. Replace as necessary. Check expansion valves Clean or replace as necessary.

COMPLAINT	POSSIBLE CAUSE	POSSIBLE SOLUTION
Continued	4. Compressor too hot, return gas hot.	4. Check refrigerant charge, fixing leaks if necessary.
	5. Compressor has shorted motor winding.	5. Replace compressor.
	6. Compressor has mechanical damage.	6. Replace compressor.
	7. Start relay defective.	7. Replace relay.
	8. Start capacitor defective.	8. Replace capacitor.
Compressor starts and runs, but short cycles on low pressure control	1 .Differential setting too close on low pressure control.	1. Widen differential setting on low pressure control.
	2. Replace compressor valve.	2. Compressor valve leak.
	3. Check for leaks and add refrigerant.	3. System undercharged.
	4. Clean or replace as necessary.	4. Restriction in expansion valve.
Compressor operates long or continuously	1. System undercharged.	1. Check for leaks and add refrigerant.
	2. Low pressure control contacts stuck.	2. Clean contacts or replace control.
	3. Magnetic gasket on door loose, flattened or mispositioned.	3. Position gasket properly, adjust door latch or replace gasket.
	4. Evaporator coil iced. (should not be below 35)	4. Defrost coil. Check out setting on EPR valve
	5. Dirty condenser	5. Clean condenser.
	6. Restriction in refrigeration system	6. Check filter and see-all. Replace as necessary. Check expansion valves, clean or replace as necessary. Check inlet strainer on compressor and clean as needed.
Start capacitor open, shorted or blown	1. Relay contacts not opening properly.	1. Clean contacts or replace relay.
	2. Prolonged operation on start cycle due to: A. Low voltage B. Improper relay. C. Improper capacitor. D. Starting load too high.	 A. Call power supplier. B. Install correct relay. C. Install correct capacitor. D. Reduce starting load.
	3. Excessive short cycling.	3. Determine reason for short cycling and correct.
Refrigerated compartment temperature too high	1. EPR valve setting too high.	1. Reset EPR valve to a lower setting.
	2. Inadequate air circulation in refrigerated compartment.	2. Improve air movement.
	3. Check for leaks and recharge.	3. Refrigerant shortage.
Cold pan temperature too high	1. Low pressure control setting too high.	1. Reset control to a lower setting.
	2. Refrigerant shortage.	2. Check for leaks.
	3. Restriction in refrigeration system.	3. Check filter and see-all. Replace as neces sary. Check expansion valves, clean or replace as necessary. check inlet strainer on compressor and clean as needed.
Suction line sweating or frosted	1. Expansion valve stuck open.	1. Clean or replace as required
	2. Evaporator fan not running.	2. Check for power at fan motor, fan blade blockage, or fan motor failure.
	3. System overcharged.	3. Reduce system charge.
Liquid line sweating or frosted	1. Restriction in drier, liquid level, or expansion valve.	1. Check filter and see-all. Replace as necessary. Check expansion valves, clean or replace as necessary.
	2. Liquid shut-off valve closed	2. Open valve fully (Turn counterclockwise)
Condensing unit noisy	1. Loose parts or mounting.	1. Locate and tighten.
	2. Tubing rattle.	2. Reform to be free of contact.
	3. Bent fan blade causing vibration.	3. Replace fan blade
	4. Fan motor bearings worn.	4. Replace fan motor

VII. DIAGRAMS/DRAWINGS

BASIC REFRIGERATION DRAWING & WIRING DIAGRAM FOR J713 SERIES

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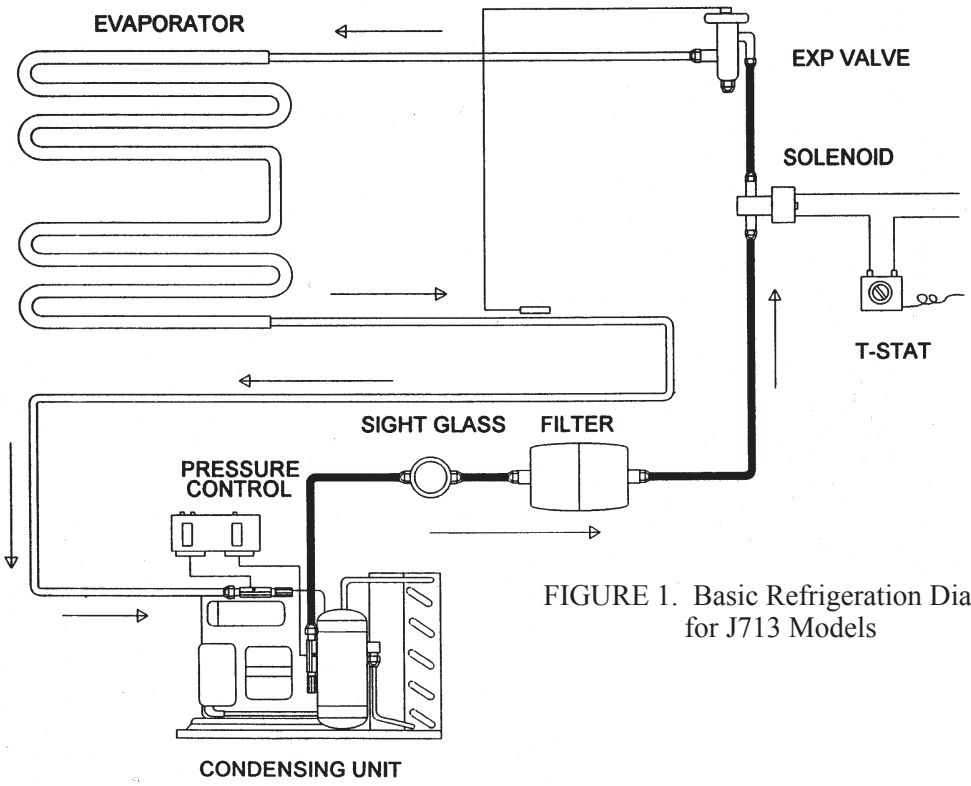
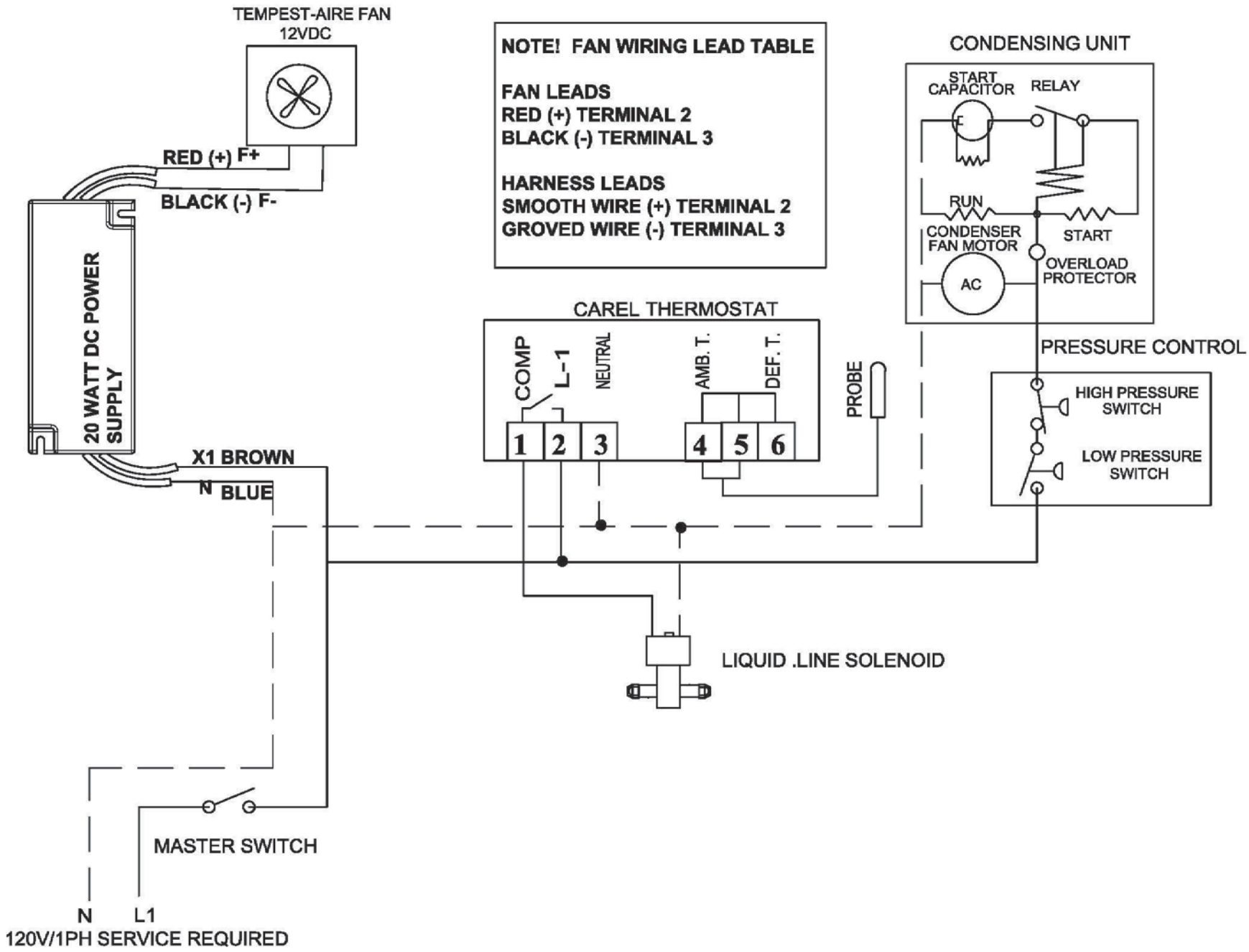
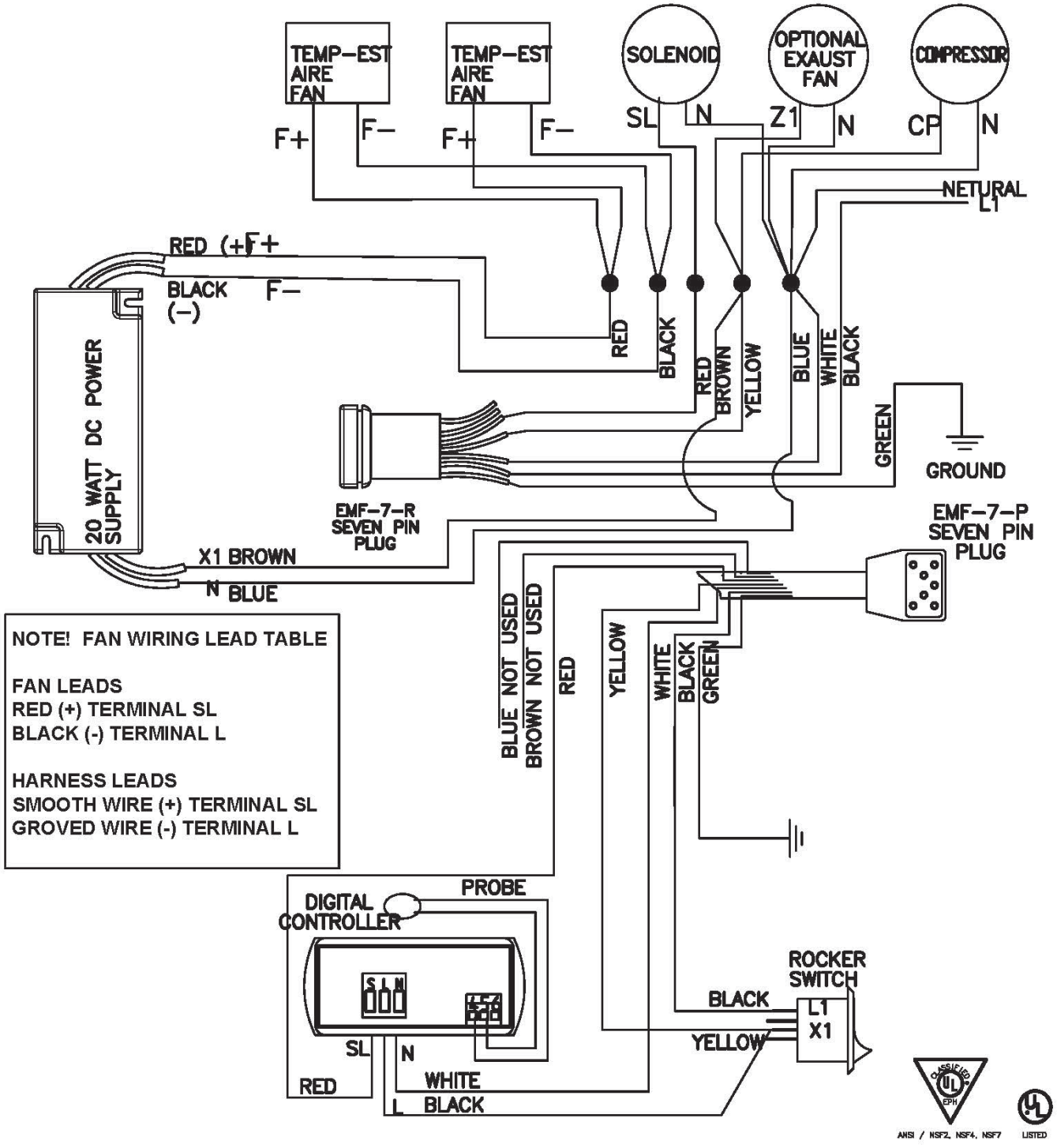


FIGURE 1. Basic Refrigeration Diagram for J713 Models


TEMPEST-AIRE FAN
12VDC
RED (+) F+
BLACK (-) F-
20 WATT DC POWER SUPPLY
X1 BROWN
N BLUE
NOTE! FAN WIRING LEAD TABLE
FAN LEADS
RED (+) TERMINAL 2
BLACK (-) TERMINAL 3
HARNESS LEADS
SMOOTH WIRE (+) TERMINAL 2
GROVED WIRE (-) TERMINAL 3
CONDENSING UNIT
START CAPACITOR
RELAY
RUN
CONDENSER FAN MOTOR
START
OVERLOAD PROTECTOR
AC
CAREL THERMOSTAT
COMP
L-1
NEUTRAL
AMB. T.
DEF. T.
1
2
3
4
5
6
PROBE
PRESSURE CONTROL
HIGH PRESSURE SWITCH
LOW PRESSURE SWITCH
LIQUID .LINE SOLENOID
MASTER SWITCH
N
L1
120V/1PH SERVICE REQUIRED

J713 SERIES COLD FOOD COUNTERS



VIII. PARTS LIST

No.	PN	Item Name	Stock No.	Description	Manufacturer
1A		Condensing Unit 1/3 H.P.	311936	AE2415Z-AA1ASC	Tecumseh
1B		Condensing Unit 1/2 H.P.	311937	AE2420Z-AA1BXM	Tecumseh
1C		Digital pressure controll for tecumseh AE2420Z	311938	Tecumseh 900-11968	Dixell
2	24861	Pressure Control	280610	012-4834-000 Low pressure Control	Ranco
3	24864	Drier/Filter	282310	C-052-st line filter 1/4" sweet	Parker Sporlan
4	24865	Sight Glass	282400	SA-12S Liquid Indicator 1/4" Sweat	Parker Sporlan
5	24862	Expansion Valve	282572	Y1017-FP-1/6-ZP TXV	Parker Sporlan
6		Axial Fan (in pan)	312387	axial fan 12V DC for cold pan	Jaro
7	11924	Power supply	360773	LPV-20-12	Mean Well
7a		120V/12V Transformer (for units before SN C11C33917A)	312391	50355	Motor & Armatures
7b		Bridge Rectifier (for units before SN C11C33917A)	312392	FB2500	Newark Electronics
8	11923	Thermal probe	280865	NTC030HP00	Carel
9	11925	Rocker Switch	335912	RSCA201-VB-1-V	Carling
9a		Toggle Switch (for units before SN C11C33917A)	335900	TA205-PWB Single Pole Throw	Carling
10		Casters	131000	75PP50GT9006TY	Durable USA Inc.
11		Axial Fan	312400	SP101A-1123HST.GN	Sunon
12	11922	Thermostat	280860	PJEZSNH100	Carel
12a		Thermostat (for units before SN C11C33917A)	280810	A12-700	Ranco
13		Liquid Line Solenoid	281610	E3S120w/MCK-1-120V	Parker Sporlan
14		Cord & Plug Set	2512	Type 14/3	
15a		Air Filter 12" x 12" x 1"	493610		
15b		Air Filter 10" x 10" x 1"	493600		

Note: Models J713, J713A, J713D and J713E employ all items except Item 1B
Note: Models J713B and J713C employ all items except item 1A.

IX. WARRANTY

ALADDIN TEMP-RITE
EQUIPMENT
LIMITED WARRANTY

Effective June, 1995

Aladdin Temp-Rite ("ATR") warrants to the original purchaser that the equipment listed below shall be free from defects in material and workmanship under normal use for the applicable warranty term set forth below. ATR's obligation under this warranty is limited to the repairor replacement, at the sole option of ATR, of any part which upon inspection and examination by ATR or its authorized agent is found to be defective. A written description detailing the nature of the claimed defect, together with the equipment claimed to be defective if required by ATR, must be delivered to ATR or its authorized agent within 30 days of discovery of the claimed defect (but in no event later than 30 days after the expiration of the applicable warranty term).

EQUIPMENT	WARRANTY TERM*		COMPRESSOR WARRANTY TERM* PARTS ONLY**
	PARTS	LABOR	
J713 Series Cold Food Counters	1 Year	90 Days	5 Years

*The warranty term commences 30 days after the date of ATR's invoice for the equipment.
**The compressor warranty covers the compressor only and does not include any shipping charges, other transportation costs, any external parts or electrical components, labor, refrigerants and taxes.

THE WARRANTIES AND REPRESENTATIONS OF ATR CONTAINED HEREIN ARE EXPRESSLY IN LIEU OF, AND THE BUYER WAIVES, ANY AND ALL OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND ANY OTHER REMEDIES AGAINST ATR, WHETHER BASED UPON CONTRACT, NEGLIGENCE STRICT LIABILITY OR OTHERWISE. ALADDIN SHALL NOT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES OR ECONOMIC LOSS OF ANY NATURE (INCLUDING WITHOUT LIMITATION LOSS OF REVENUES AND/OR PROFITS) THAT MAY BE CLAIMED TO RESULT FROM ANY NEGLIGENCE OR BREACH OF WARRANTY OR CONTRACT BY ATR.

Exceptions and Exclusions

This warranty is issued only to the original purchaser, and is not transferable and applies only to the products installed within the United States of America, its territories and Canada. During the term of any labor warranty, ATR will pay all preapproved shipping charges incurred in returning defective equipment to ATR and labor costs incurred in the removal and reinstallation of such equipment. Contact ATR before returning any claimed defective equipment or otherwise performing warranty repairs. ATR assumes no liability for any work or repair performed without its prior approval. After the expiration of any labor warranty, the original purchaser is responsible for all shipping charges incurred in returning defective equipment to ATR and labor for removing and reinstalling such equipment. ATR shall not be responsible for the replacement of expendable items like lamps and fuses or product failure resulting from normal wear and tear, improper installation, misuse, sabotage, abuse, neglect, accident, unauthorized alterations or repair, or other factors beyond the control of ATR. Neither this warranty nor the liability of ATR may be modified or extended by action of any agent, distributor or other person or by custom or practice.

CALL ALADDIN TEMP-RITE TOLL FREE AT 1-800-888-5426 IF YOU HAVE ANY QUESTIONS ABOUT THIS WARRANTY OR YOUR ATR PRODUCT.