OPERATOR'S MANUAL



This manual provides information on installation, operating, maintenance, trouble shooting & replacement parts for

COUNTERTOP DISPLAY CASE 40048A 40048SSA



NOTIFY CARIER OF DAMAGE AT ONCE.

It is the responsibility of the consignee to inspect the container upon receipt of same and to determine the possibility of any damage, including concealed damage. Randell suggests that if you are suspicious of damage to make a notation on the delivery receipt. It will be the responsibility of the consignee to file a claim with the carrier. We recommend that you do so at once.



8/26/2008 PP MNL0023 Rev B (8.2008)

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Congratulations on your recent purchase of Randell food service equipment, and we welcome you to the growing family of satisfied Randell customers.

Our reputation for superior products is the result of consistent quality craftsmanship. From the earliest stages of product design to successive steps in fabrication and assembly, rigid standards of excellence are maintained by our staff of designers, engineers, and skilled employees.

Only the finest heavy-duty materials and parts are used in the production of Randell brand equipment. This means that each unit, given proper maintenance will provide years of trouble free service to its owner. In addition, all Randell food service equipment is backed by some of the best warranties in the food service industry and by our professional staff of service technicians.

Retain this manual for future reference.

NOTICE: Due to a continuous program of product improvement, Randell reserves the right to make changes in design and specifications without prior notice.

NOTICE: Please read the entire manual carefully before installation. If certain recommended procedures are not followed, warranty claims will be denied.

MODEL NUMBER	
SERIAL NUMBER	
INSTALLATION DATE	

The serial number is located on the interior side wall of the cabinet opposite the evaporator fan motor.





Warranty Policies

Randell believes strongly in the products it builds and backs them with the best warranty in the industry. Standard with every unit is the peace of mind that this unit has been thoroughly engineered, properly tested and manufactured to excruciating tolerances, by a manufacturer with over 30 years of industry presence. On top of that front end commitment, Randell has a dedicated staff of certified technicians that monitor our own technical service hotline at **1-800-621-8560** to assist you with any questions or concerns that may arise after delivery of your new Randell equipment.

PARTS WARRANTY

1. One year parts replacement of any and all parts that are found defective in material or workmanship. Randell warrants all component parts of manufactured new equipment to be free of defects in material or workmanship, and that the equipment meets or exceeds reasonable industry standards of performance for a period of one year from the date of shipment from any Randell factory, assembly plant or warehouse facility.

NOTE: Warranties are effective from date of shipment, with a thirty day window to allow for shipment, installation and set-up. In the event equipment was shipped to a site other than the final installation site, Randell will warranty for a period of three months following installation, with proof of starting date, up to a maximum of fifteen months from the date of purchase.

2. Free ground freight of customer specified location for all in warranty parts within continental U.S. Component part warranty does not cover glass breakage or gasket replacement. Randell covers all shipping cost related to component part warranty sent at regular ground rates (UPS, USPS). Freight or postage incurred for any express or specialty methods of shipping are the responsibility of the customer.

LABOR COVERAGE

In the unlikely event a Randell manufactured unit fails due to defects in materials or workmanship within the first ninety days, Randell agrees to pay the contracted labor rate performed by an *Authorized Service Agent (ASA)*. Any work performed by a non-ASA will not be honored by Randell. Please consult Randell Technical Support for a complete listing of ASAs. A complete listing of ASAs may also be found on the Randell page of our web site at <u>www.unifiedbrands.net</u>. Warranties are effective from date of shipment, with a thirty day window to allow for shipment, installation and setup. Where equipment is shipped to any site other than final installation, Randell will honor the labor warranty for a period of ninety days following installation with proof of starting date, up to a maximum of six months from date of purchase.

Temperature adjustments are not covered under warranty, due to the wide range of ambient conditions.

To inquire if the equipment is within warranty, call our Field Service Department at: 800-621-8560.

WHEN OPTIONAL 5 YEAR COMPRESSOR WARRANTY APPLIES

- 1. Provide reimbursement to an ASA for the cost of locally obtained replacement compressor in exchange for the return of the defective compressor sent back freight prepaid. Note: Randell does limit amount of reimbursement allowed and does require bill from local supply house where compressor was obtained (customer should not pay servicing agent up front for compressor).
- 2. Provide repair at the manufacturing facility by requiring that the defective unit be sent back to Randell freight prepaid. Perform repair at the expense of Randell and ship the item back to the customer freight collect.
- 3. Furnish complete condensing unit freight collect in exchange for the return of the defective compressor sent back freight prepaid. (Decisions on whether or not to send complete condensing units will be made by Randell's in-house service technician).

WHEN OPTIONAL LABOR EXTENSION POLICY APPLIES

Randell will provide reimbursement of labor to an ASA for any customer that has an optional labor extension of our standard warranty (Contracted rates do apply). Randell offers both 1 and 2 year extensions. Labor extensions begin at the end of our standard warranty and extend out 9 months to 1 calendar year or 21 months to 2 calendar years from date of purchase. Please contact the Randell technical service hotline at 1-800-621-8560 for details and any question on *Authorized Service Agents (ASA)*.

WHEN EXPORT WARRANTIES APPLY

- 1. Randell covers all non-electrical components under the same guidelines as our standard domestic policy.
- 2. All electrical components operated on 60 cycle power are covered under our standard domestic policy.
- 3. All electrical components operated on 50 cycle power are covered for 90 days from shipment only.
- 4. Extended warranty options are not available from the factory.

ITEMS NOT COVERED UNDER WARRANTY

- 1. Maintenance type of repairs such as condenser cleaning, temperature adjustments, clogged drains and unit leveling.
- 2. Randell does not cover gaskets under warranty. Gaskets are a maintenance type component that are subject to daily wear and tear and are the responsibility of the owner of the equipment. Because of the unlimited number of customer related circumstances that can cause gasket failure all gasket replacement issues are considered non-warranty. Randell recommends thorough cleaning of gaskets on a weekly basis with a mild dish soap and warm water. With proper care Randell gaskets can last up to two years, at which time we recommend replacement of all gaskets on the equipment for the best possible performance.

NOTICE: FOOD LOSS IS NOT COVERED UNDER WARRANTY

- 3. Repairs caused by abuse such as broken glass, freight damage, or scratches and dents.
- 4. Electrical component failure due to water damage from cleaning procedures.

QUOTATIONS

Verbal quotations are provided for customer convenience only and are considered invalid in the absence of a written quotation. Written quotations from Randell are valid for 30 days from quote date unless otherwise specified. Randell assumes no liability for dealer quotations to end-users.

SPECIFICATION & PRODUCT DESIGN

Due to continued product improvement, specification and product design may change without notice. Such revisions do not entitle the buyer to additions. Changes or replacements for previously purchased equipment.

SANITATION REQUIREMENTS

Certain areas require specific annotation requirements other than N.S.F. & U.L. standards. Randell must be advised of these specifications before fabrication of equipment. In these special circumstances, a revised quotation may be required to cover additional costs. Failure to notify Randell before fabrication holds the dealer accountable for all additional charges.

CANCELLATIONS

Orders canceled prior to production scheduling entered into engineering/production and cancelled are subject to a cancellation charge (contact factory for details).

STORAGE CHARGES

Randell makes every effort to consistently meet our customer's shipment expectations. If after the equipment has been fabricated, the customer requests delay in shipment, and warehousing is required:

- 1. Equipment held for shipment at purchasers request for a period of 30 days beyond original delivery date specified will be invoiced and become immediately payable.
- 2. Equipment held beyond 30 days after the original delivery date specified will also include storage charges.

SHIPPING & DELIVERY

Randell will attempt to comply with any shipping, routing or carrier request designated by dealer, but reserves the right to ship merchandise via any responsible carrier at the time equipment is ready for shipment. Randell will not be held responsible for any carrier rate differences; rate differences are entirely between the carrier and purchaser. Point of shipping shall be determined by Randell (Weidman, MI/Jackson, MS). At dealer's request, Randell will endeavor whenever practical to meet dealer's request. Freight charges to be collect unless otherwise noted.

DAMAGES

All crating conforms to general motor carrier specifications. To avoid concealed damage, we recommend inspection of every carton upon receipt. In the event the item shows rough handling or visible damage to minimize liability, a full inspection is necessary upon arrival. Appearance of damage will require removing the box and/or crate in the presence of the driver. Δ notation must be placed on the freight bill and signed for by the truck driver at the time of delivery. Any and all freight damage that occurs to a Randell piece of equipment as a result of carrier handling is not considered under warranty, and is not covered under warranty guidelines. Any freight damage incurred during shipping needs to have a freight claim filed by the receiver with the shipping carrier. Consignee is responsible for filing of freight claims when a clear delivery receipt is signed. Claims for damages must be filed immediately (within 10 days) by the consignee with the freight carrier and all cartons and merchandise must be retained for inspection.

RETURNED GOODS

Authorization for return must first be obtained from Randell before returning any merchandise. Any returned goods shipment lacking the return authorization number will be refused, all additional freight costs to be borne by the returning party. Returned equipment must be shipped in original carton, freight prepaid and received in good conditions. Any returned merchandise is subject to a minimum handling charge (consult factory for rate).

INSTALLATION

Equipment installation is the responsibility of the dealer and/or their customer. Randell requires all equipment to be professionally installed. Any equipment failures that are a result of poor installation will not be honored by the factory.

PENALTY CLAUSES

Dealer penalty clauses, on their purchase order or contractually agreed to between the dealer and their clients are not binding on Randell. Randell does not accept orders subject to penalty clauses. This agreement supersedes any such clauses in dealer purchase orders.

EXPORT POLICY

All quotations for export sales will be handled by Dorian Drake International (<u>www.doriandrake.com</u>), Randell's export management organization.

*FOOTNOTES IN REFERENCE TO PARAGRAPHS ABOVE

2. NET means list price less discount, warranty, labor policy, freight, Randell delivery and other miscellaneous charges.

CASH DISCOUNTS WILL BE CALCULATED ON NET ONLY.

^{1.} Herein called Randell.

Unit Specifications



40048A shown

Model	L	D	н	Style	Storage Cu. Ft.	Sq. Ft.	H.P.	Volts	Amps	NEMA	Ship Wt.
40048A	48"	26.5"	25"	Dbl. Serve	7	14	1/3	115	8.1	5-15P	370
40048SSA	48"	26.5"	25"	Single Serve	7	14	1/3	115	8.1	5-15P	370

SELECTING A LOCATION FOR YOUR NEW UNIT

The following conditions should be considered when selecting a location for your unit:

1. Floor and Countertop Load: The area on which the unit will rest must be level, free of vibration, and suitably strong enough to support the combined weights of the unit plus the maximum product load weight.

NOTE: If there is a question pertaining to weight load limits, consult the factory at 1-800-621-8560.

- 2. **Clearance:** There must be a combined total of at least 3" clearance on all sides of the unit. The top of the unit must be completely clear of any other objects or materials.
- 3. Ventilation: The air cooled self contained unit requires a sufficient amount of cool clean air. Avoid surrounding your display case around other heat generating equipment and out of direct sunlight. Also, avoid locating in an unheated room or where the room temperature may drop below 55° F (13℃) or rise above 86° F (32℃).

INSTALLATION CHECKLIST

After the final location has been determined, refer to the following checklist prior to start-up:

- 1. Check all exposed refrigeration lines to ensure that they are not kinked, dented, or rubbing together.
- 2. Check that the condenser and evaporator fans rotate freely without striking any stationary members.
- 3. Unit should be properly leveled.
- 4. Plug in unit and turn on main on/off power switch.
- 5. Turn switch on for florescent lights.
- 6. Allow unit time to cool down to temperature. If temperature adjustments are required, the temperature control can be accessed by removing the louver on the left side of the display cooler. (See page 12, Unit Operation, for more information on temperature adjustments).
- 7. Refer to the front of this manual for serial number location. Please record this information in your manual on page 3 now. It will be necessary when ordering replacement parts or requesting warranty service.
- 8. Confirm that the unit is holding temperature. Set controls to desired temperature for your particular ambient and altitude.
- Allow your unit to operate for approximately 2 hours before putting in food to allow interior of unit to cool down to storage temperature.
 NOTE: All motors are oiled and sealed.

NOTE: FAILURE TO FOLLOW INSTALLATION GUIDELINES AND RECOMMENDATIONS MAY VOID THE WARRANTY ON YOUR UNIT.

ELECTRICAL SUPPLY: The wiring should be done by a qualified electrician in accordance with local electrical codes. A properly wired and grounded outlet will assure proper operation. Please consult the data tag attached to the compressor to ascertain the correct electrical requirements. Supply voltage and amperage requirements are located on the serial number tag located inside the mechanical housing.

NOTE: It is important that a voltage reading be made at the compressor motor electrical connections, while the unit is in operation to verify the correct voltage required by the compressor is being supplied. Low or high voltage can detrimentally affect operation and thereby void its warranty.

NOTE: it is important that your unit has its own dedicated line. Condensing units are designed to operate with a voltage fluctuation of plus or minus 10% of the voltage indicated on the unit data tag. Burn out of a condensing unit due to exceeding voltage limits will void the warranty.

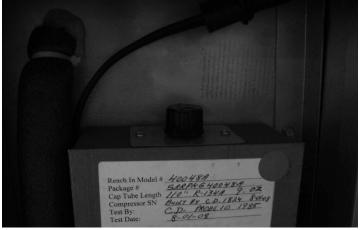
Randell has preset the cold control to ensure that your unit runs at an optimum temperature, but due to varying ambient conditions, including elevation, food product as well as type of operation, you may need to alter this temperature.

It is strongly recommended that the doors be kept closed when the unit is not in use and between rush periods. This is especially important in the summer and in kitchens exceeding 80° F. Do not leave the doors open for prolonged periods of time. Close after using.

NOTE: Even though your countertop display case was designed for heavy use, excessive door openings should be avoided in order to maintain proper cabinet temperature and eliminate the possibility of coil freeze-up.

Note: Product entering the display case must be at 41 °F or less.

Your countertop display case was equipped with a temperature adjustment control located behind the louvered mechanical panel on the left side of the cabinet.



To adjust the temperature in refrigerated units:

- A. To lower the temperature:
 - 1. Turn the dial knob clockwise.
 - 2. There are numbers to indicate settings. Keep the arrow on the knob pointed within the numbered section of the arc.
 - 3. Turning it clockwise beyond the numbered section can result in freeze-up.
- B. To raise the temperature:
 - 1. Turn the dial knob counterclockwise.
 - 2. There are numbers to indicate settings. Keep the arrow on the knob pointed within the numbered section of the arc.
 - 3. Turning it counterclockwise beyond the numbered section will shut the compressor off.
 - NOTE: It is not recommended to turn the dial above 8 or below 1 on the temperature control. If the adjustments still do not result in proper temperature please contact the factory at 1-800-621-8560 or call the factory ASA.

Randell strongly suggests a preventive maintenance program which would include the following **Monthly** procedures:

1. Cleaning of all condenser coils. Condenser coils are a critical component in the life of the compressor and must remain clean to assure proper air flow and heat transfer. Failure to maintain this heat transfer will affect unit performance and eventually destroy the compressor. Clean the condenser coils with coil cleaner and/or a vacuum, cleaner and brush.

NOTE: Brush coil in direction of fins, normally vertically as to not damage or restrict air from passing through condenser.

- 2. Clean fan blade on the condensing unit.
- 3. Clean and disinfect drains with a solution of warm water and mild detergent.

4. Clean and disinfect drain lines and evaporator pan with a solution of warm water and mild detergent.

5. Clean all gaskets on a weekly if not daily basis with a solution of warm water and a mild detergent to extend gasket life.

- 6. Clean lower door track of debris.
- 7. Remove doors and clean roller bearings of debris.

Door Removal:

- 1. Locate outside door (sticker to identify door in lower corner of door)
- 2. Open door 3"
- 3. Lift door up
- 4. Pull lower part of door out away from unit.
- 5. Repeat for inside door.



Door Installation:

- 1. Locate inside door (sticker to identify door in lower corner of door)
- 2. Place black spring closure tab at rear top of door.
- 3. Pick up on door
- 4. Insert lower part of door in to track when door is 3" open
- 5. Assure door spring forces door closed
- 6. Repeat for outside door.



Door Adjustment:

Roller bearings on bottom of each door may be adjusted to allow for proper seal of glass door. To look for proper door sealing assure that the bumper gasket of each door touches the entire vertical side of the door frame. No gaps should be visible



NOTE: The design of the bumper gasket does allow for a small 1/8" gap at top of each door.

NOTE: DO NOT USE SHARP UTENSILS.

RECOMMENDED CLEANERS FOR YOUR STAINLESS STEEL INCLUDE THE FOLLOWING:

JOB	CLEANING AGENT	COMMENTS		
Routine cleaning	Soap, ammonia, detergent Medallion	Apply with a sponge or cloth		
Fingerprints and smears	Arcal 20, Lac-O-Nu, Ecoshine	Provides a barrier film		
Stubborn stains and discoloration	Cameo, Talc, Zud, First Impression	Rub in the direction of the polish lines		
Greasy and fatty acids, blood, burnt-on foods	Easy-Off, Degrease It, Oven Aid	Excellent removal on all finishes		
Grease and Oil	Any good commercial detergent	Apply with a sponge or cloth		
Restoration/Preservation	Benefit, Super Sheen	Good idea monthly		

Reference: Nickel Development Institute, Diversey Lever, Savin, Ecolab, NAFEM.

NOTE: Do not use steel pads, wire brushes, scrapers, or chloride cleaners to clean your stainless steel. CAUTION: DO NOT USE ABRASIVE CLEANING SOLVENTS, AND NEVER USE HYDROCHLORIC ACID (MURIATIC ACID) ON STAINLESS STEEL.

NOTE: Do not pressure wash equipment as damage to electrical components may result

NOTE: Do not use steel pads, wire brushes, scrapers, or chloride cleaners to clean your stainless steel. CAUTION: DO NOT USE ABRASIVE CLEANING SOLVENTS, AND NEVER USE HYDROCHLORIC ACID (MURIATIC ACID) ON STAINLESS STEEL.

Proper maintenance of equipment is the ultimate necessity in preventing costly repairs. By evaluating each unit on a regular schedule, you can often catch and repair minor problems before they completely disable the unit and become burdensome on your entire operation.

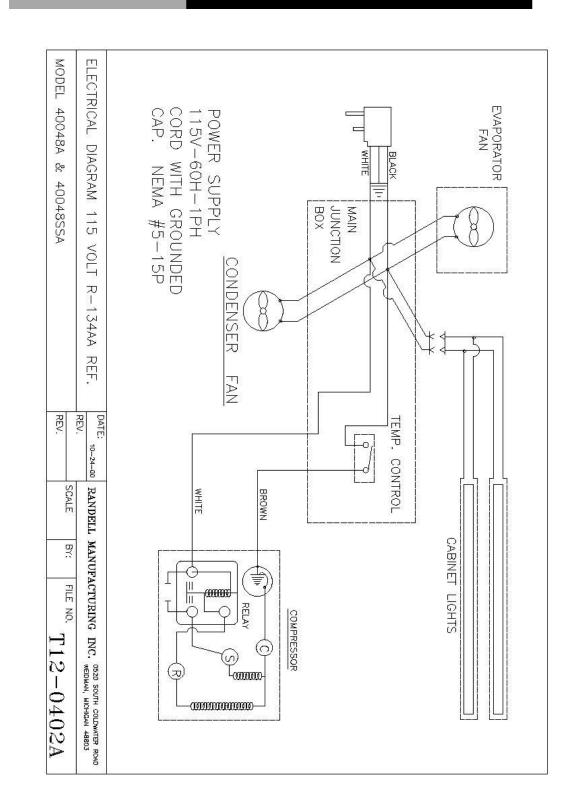
For more information on preventive maintenance, consult the factory ASA, your local service company, or CFESA member. Most repair companies offer this service at very reasonable rates to allow you the time you need to run your business along with the peace of mind that all your equipment will last throughout its expected life. These services often offer guarantees as well as the flexibility in scheduling or maintenance for your convenience.

Randell believes strongly in the products it manufactures and backs those products with one of the best warranties in the industry. We believe with the proper maintenance and use, you will realize a profitable return on your investment and years of satisfied service.

Trouble Shooting Guide

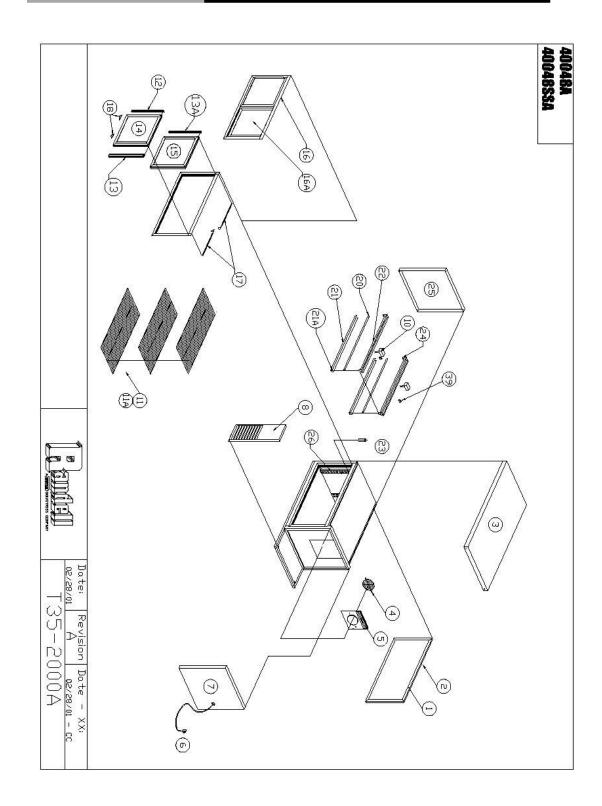
SYMPTOM	POSSIBLE CAUSE	PROCEDURE
Unit doesn't run	1. No power to unit	1. Plug in unit
	2. Temperature control turned off	2. Check temperature control
	3. Temperature control faulty	3. Test temperature control
	4. Compressor overheated	4. Clean condenser coil
	5. Condenser fan faulty	5. Service condenser fan
	6. Overload protector faulty	6. Test overload
	7. Compressor relay faulty	7. Test relay
	8. Compressor faulty	8. Call ASA for service
Unit short cycles	1. Condenser coil dirty	1. Clean coil
	2. Condenser fan faulty	2. Service fan and motor.
	3. Compressor faulty	3. Call ASA for service
	4. Overload repeatedly tripping	4. Check outlet voltage
Unit runs constantly	 Frost build-up Door not sealing properly Door not closing 	 Defrost evaporator Check door seal & roller bearing Check door spring
	4. Door gasket damaged	4. Replace door gasket
	5. Condenser coil dirty	5. Clean coil
	 Condenser fan faulty Refrigerant leak 	 Service condenser motor Call ASA for service
	1. Temperature control set too	
Unit not cold enough	high	1. Adjust control to lower setting
	2. Temperature control faulty	2. Test control
	3. Condenser coil dirty	3. Clean coil
	4. Door not sealing properly	4. Check door seal
	5. Door gasket damaged	5. Replace door gasket
	6. Evaporator fan faulty	6. Service evaporator fan
	 7. Evaporator iced up 8. Refrigerant leaking or 	7. Door not sealing
	contaminated	8. Call for service at 800-621-8560
Unit too cold	1. Temperature control set too low	1. Adjust control to raise setting
	2. Temperature control faulty	2. Test control
Ice in drain pan or	1. Drain tube clogged	1. Clean drain
water in bottom of unit or floor	2. Unit not level	2. Level unit
Unit noisy	1. Unit not level	1. Adjust leveling leg/shim casters
	2. Compressor mountings loose or	2. Tighten or replace compressor
	hardened. 3. Condenser fan damaged or	mountings
	hitting fan shroud	3. Inspect condenser fan
	4. Evaporator fan damaged or	
	hitting fan shroud	4. Inspect evaporator fan

Electrical Diagram

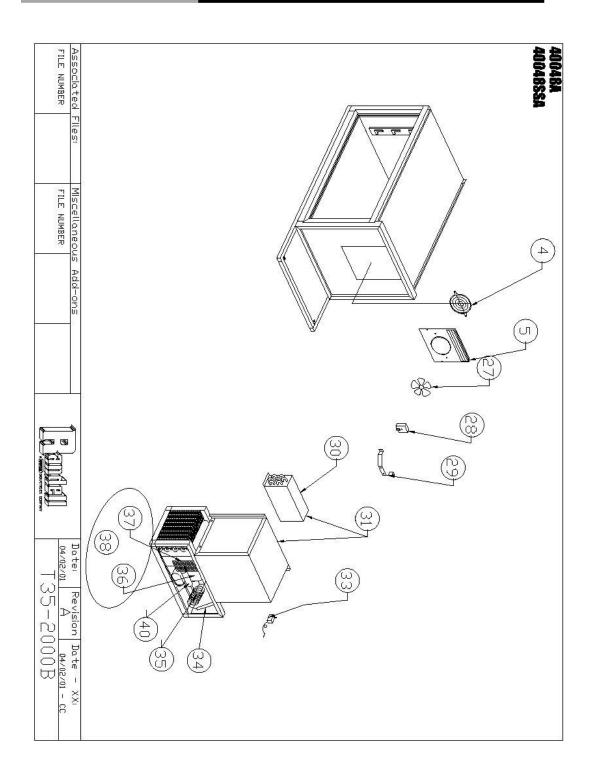


Exploded View

40048A/40048SSA Countertop Display Case



Exploded View 40048A/40048SSA Countertop Display Case



Replacement

Parts

40048A/40048SSA **Countertop Display Case**

Item #	Description	Part #	40048A	40048SSA
1	Glass Retainer Frame, Solid Glass Panel only	HD TRK3563		Х
2	Glass Panel, Solid	HD GLS134		Х
3	S/S Top, After 11/2005	RP TOP4048	Х	Х
4	Evaporator Fan Guard	RF FAN010	Х	Х
5	Evaporator Fan Shroud	RP CVR0135	Х	Х
6	Power Cord, 9', 16/3	EL WIR461-90	Х	Х
7	S/S Side, Compressor End, After 11/2005	RP PNL0302	Х	Х
8	Louver, 22.5" x 8.5"	RP LVR649	Х	Х
10	Ballast	EL BLS100	Х	Х
11	Shelf, 15" x 33.375", Prior to 11/2005	HD SHL011	Х	Х
11A	Shelf, 20.5" x 33.375", After 11/2005	HD SHL0206	Х	Х
12	Gasket, Wiper, 16.75"	IN GSK800	Х	Х
13	Gasket, Bumper, Right Door	IN GSK801	Х	Х
13A	Gasket, Bumper, Left Door	IN GSK802	Х	Х
14	Door Only, Right, 18.25" x 17.125"	HD DOR010R	Х	Х
15	Door Only, Left, 18.25" x 17.125"	HD DOR010L	Х	Х
16	Door Frame Only, 19.5" x 34.5"	HD FRM010F	Х	Х
16A	Door Frame w/ Doors, 19.5" x 34.5"	HD FRM010	Х	Х
17	Spring, Door Closure, 13"	HD SPR036	Х	Х
18	Roller Bearing, Glass Door	HD ASY0501	Х	Х
20	Lamp, Florescent Bulb, F30T8	EL TUB018	Х	Х
21	Shield, Light Fixture	EL SHD018	Х	Х
21A	Shield, End Cap Only, T8 Bulb	EL SHD018A	Х	Х
22	Light Fixture Complete	RP LGT0301	Х	Х
23	Thermometer	HD THR100	Х	Х
24	Socket, Light Bulb	EL LGT414	Х	Х
25	S/S Side, Opposite Compressor, After 11/2005	RP SKN0401	Х	Х
26	Pilaster, Complete, Left	RP PIL0102	Х	Х
26A	Pilaster, Complete, Right	RP PIL0103	Х	Х
26B	Pilaster Nut	FA MSC7015	Х	Х
26C	Shelf Clip	HD CLP100	Х	Х
27	Fan Blade, Evaporator, 5.562"	RF FAN005	Х	Х
28	Fan Motor, Evaporator	EL MTR0230	Х	Х
29	Bracket, Evaporator Fan Motor	RP BRK1050	Х	Х
30	Coil, Evaporator, 4" x 6" x 13.75"	RF COI120B	Х	Х
31	Refrigeration Package Assy, Prior to 11/2005	RP 4047002	Х	Х
31A	Refrigeration Package Assy, After 11/2005	RP 4047006	Х	Х
33	Refrigeration Temperature Control	HD CNT200	Х	Х
34	Filter Drier, Double Inlet	RF FLT9902	Х	Х
35	Cap Tubing w/ Drier, .050 x 132"	RP CAP007	Х	Х

Item #	Description	Part #	40048A	40048SSA
36	Compressor, 1/3HP, AEA4440YXA	RF CMP020-134P	Х	Х
37	Cond. Fan Motor w/ Blade & Guard, After 11/2005	RF ASY0101P	Х	Х
38	Condensing Unit, 1/3HP, AEA4440YXA, After 11/2005	RF CON0110	Х	Х
39	Power Switch, Light	EL SWT0502	Х	Х
40	Accumulator	RF ACM005	Х	Х