

***Aladdin Temp-Rite***<sup>®</sup>...better by degrees.

P.O. Box 2978, Hendersonville, TN 37077-2978  
1-800-888-8018 or 615-537-3600  
Fax 1-888-812-9956  
www.aladdintemprite.com



# Temp-Rite II Stainless Steel Rethermalization Carts

**IMPORTANT NOTE:**

Doors must remain open during chill-down and rethermalization cycle.

Rethermalization cart to be used with Aladdin Temp-Rite approved Roll-In Refrigerator or Central Retherm System only, tempered to 41°F or less.

Duty cycle not to exceed 40 minutes of continuous rethermalization or an additional.

**AVIS IMPORTANT:**

Portes doivent rester ouvertes pendant mise en froid et rethermalisation cycle.

Chariot rethermalisation doit être utilisé seulement avec armoire réfrigérée ou chambre froide approuvée par Aladdin Temp-Rite, tempérée à 5°C ou moins.

Le cycle horaire ne doit pas dépasser les 40 minutes de rethermalisation continu ni 24 minutes des temps retenir additionel.

---

---

## CONTENTS

---

---

<b>I. MODEL/DESCRIPTION .....</b>	<b>4</b>
Temp-Rite II™ Cart Electrical. . . . .	4
Temp-Rite II™ Cart Dimensions. . . . .	4
<b>II. RECEIVING INSPECTIONS .....</b>	<b>5</b>
<b>III. CLEANING.....</b>	<b>6</b>
<b>IV. MAINTENANCE.....</b>	<b>7</b>
<b>V. TROUBLE SHOOTING.....</b>	<b>9</b>
<b>VI. Drawings/Parts List S/S Cart.....</b>	<b>10</b>
<b>VII. WARRANTY &amp; LIABILITY.....</b>	<b>12</b>

## I. MODEL/DESCRIPTION

### Temp-Rite II™ Cart Electrical

Capacity	Sales Code	Electrical Data			
		Volts	Cycle	Phase	Amps**
16	C416DTK	120V/208-240V/ 4W	60Hz	Single	9.6
20	C420DTK	120V/208-240V/ 4W	60Hz	Single	12
24	C424DTK	120V/208-240V/ 4W	60Hz	Single	14.4
24	C424IVB*	120V/208-240V/ 4W	60Hz	Single	14.4

\* Light weight aluminum version

\*\* Total Amp draw per cart. For system wiring see refrigerator specs. Cart is wired thru the plug to supply.

### Temp-Rite II™ Cart Dimensions

Capacity	Sales Code					Shipping Cu. Ft.
		Weight	Height	Width	Length	
16	C416DTK	218 lbs. (99.09kg)	49.2" (125.0cm)	26.5" (67.3cm)	28.25" (71.7cm)	21.0 (.596 cu.m)
20	C420DTK	242 lbs.(110.0kg)	57.2" (145.3cm)	26.5" (67.3cm)	28.25" (71.7cm)	24.8 (.704 cu.m)
24	C424DTK	275 lbs. (125.0kg)	65.2" (165.6cm)	26.5" (67.3cm)	28.25" (71.7cm)	28.3 (.801 cu.m)
24	C424IVB*	TBD	65.2" (165.6cm)	26.5" (67.3cm)	28.25" (71.7cm)	28.3 (.801 cu.m)

\*Light weight aluminum version

The Aladdin C400 Series rethermalization cart may serve 4 basic functions:

- A. **Store** complete, preassembled meals in their covered trays;
- B. **Rethermalize** meals inside a rethermalization refrigerator or walk-in cooler;
- C. **Deliver** the meals;
- D. **Retrieve** covered trays for return to ware wash area after each meal.

**NOTE: Aladdin Temp-Rite II Carts have been designed to be pushed from the rear handle. Never pull the carts or push more than one cart at a time.**

The carts are available in 16, 20, and 24 shelf capacity and are used with Aladdin's central walk-in and single or double bay roll-in refrigerators. The Temp-Rite II carts feature the following:

- A. Individually activated heater shelf. All three elements on the heater shelf are activated at the same time. When trays containing meals to be heated are placed on the heater shelf, they are positioned so that the tray activates the switch for the heater shelf. When trays containing cold meals are placed in the carts, they are placed in backwards. This prevents activation of the toggle switch. Note uses of extended ramps is recommended with 24 shelf carts.
- B. An optional fold-down work shelf adds extra convenience, as well as an optional menu clip to hold a meal distribution sheet in easy view.

- 
- 
- C. Swivel and stationary casters allow for ease of mobility and delivery. Loaded carts are moved to the appropriate refrigerator (central walk-in or roll-in) and properly pushed into a retherm stall by correctly aligning with caster guides. When carts are in position, they are locked in place by pushing down on the brake activator plate of the swivel casters.
  - D. Indicator lights at the top of the front panel verify electrical connection of cart inside the refrigerator when the test button is pressed.
  - E. A positive and automatic electrical connection system is achieved when the cart is rolled into the rethermalization refrigerator or central walk-in cart stall by guiding the rigid casters into the caster guides on the floor. The floating male plug on the cart mates automatically with the receptacle on the refrigerator wall as the cart is rolled into position, assuring a positive automatic connection. When the carts are in position, they are locked in place by pushing down on the brake activator plate of the swivel casters.

The carts are then held in storage until time for rethermalization just prior to meal service. Meals are then brought up to serving temperature. While inside the refrigerator or walk-in, without rehandling. Factory default retherm cycle is 36 minutes. Aladdin's insulated technology can keep each food item hot or cold, at the proper temperature until served.

## II. RECEIVING INSPECTIONS

---

---

Your Aladdin Temp-Rite II C400 Cart is factory tested for performance and is free from defects when shipped. The utmost care has been taken in packaging this product to protect against damage in transit.

You should carefully inspect your Temp-Rite II C400 Cart to assure that no damage has occurred in transit. If however, damage is detected see the following damaged goods policy. Under no condition may a damaged unit be returned to Aladdin Temp-Rite without first obtaining written permission (return authorization). No credit will be issued for claims not reported to Aladdin within ten (10) business days from receipt of shipment.

### 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. CLEANING

---

---

The Aladdin Temp-Rite II Stainless Steel rethermalization cart should be sanitized and cleaned after each use using the following method:

1. Wipe shelves, walls, handles, and sides with a soft clean cloth, using warm water and a mild detergent.
2. Use a soft brush on food buildup and in corners.
3. Sanitize with a properly diluted sanitizer (according to manufactures recommendations)
4. Dry thoroughly with a dry cloth to remove moisture.
5. Never use sharp objects , abrasives or scrapers.
6. Remove detergent/sanitizer buildup on heater shelf every two (2) weeks, or as often as needed by the following method:
  - a. Gently wipe crumbs or loosen soil from heater with a clean, dry cloth.
  - b. Dampen sponge or cloth with isopropyl alcohol and apply to element rubbing gently.
  - c. Use a soft nylon brush in corners and on edges to loosen soil build up. Never use sharp objects, abrasives or scrapers.
  - d. Wipe with damp cloth to remove soil and rinse with clear water.
  - e. Dry heater with a clean dry cloth to remove moisture.

---

**CAUTION!** Harsh Chemicals and insufficiently diluted sanitizers will damage heater elements and void equipment warranty

---

After sanitizing the Temp-Rite II cart by the procedure outlined above, it is recommended that exterior cleaning be preformed. This is necessary to keep the exterior surface of the cart free from spotting and retain the stainless steel finish in good condition. The cleaning safeguards listed below will aid in this task.

---

---

## 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 the surface. Be certain to rinse thoroughly to prevent build-up of cleanser.

### **NEVER USE CHLORINE OR BLEACH SOLUTIONS.**

Check the ingredients of cleaning solution 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 will damage the surface and cause rusting.

### **NEVER CLEAN UNITS WITH HOSE OR SPRAY WASHER.**

## **IV. MAINTENANCE**

---

---

### **TEST PROCEDURE FOR IDENTIFYING COLD HEATER ELEMENTS**

*The following test procedure should only be performed by a qualified operator, maintenance technician, or an Aladdin authorized service agent.*

1. Connect the cart to a 120V (20A) grounded power supply using the Aladdin K258G20 test cord with the GFI breaker. The switch on the test cord must be in the center (off position) when connecting.
2. Manually depress and hold the switch down on the side of the cart or wedge down with a wooden tongue depressor. The test cord switch must be engaged in order to activate the heater shelf.
3. Move the test cord switch either up or down to one of the test positions to energize one side of the cart.
4. Allow the shelf to heat for approximately ten (10) minutes. Check the three elements on the heater shelf by placing your hand above each element and feeling the heat radiating from them. **DO NOT TOUCH THE ELEMENTS AS THEY MAY CAUSE A BURN.**
5. Heat must be radiating from all three elements in the heater shelf for it to be functioning properly. If any of the three elements are cold, then the heater shelf needs to be replaced.
6. Be Sure to remove all tongue depressors before returning cart to service.

### **K134 (HARD WIRED) HEATER SHELF REPLACEMENT PROCEDURE**

The following procedure should be read and thoroughly understand before replacement of heater shelf.

1. Make sure the power source is removed from the cart prior to servicing the equipment.
2. Make sure the heater shelves are cold to the touch. Allow warm shelves to cool prior to servicing the equipment, Hot heater shelves may cause a burn.
3. Identify the defective shelf to be replaced.
4. Facing the handle side of the cart, determine which side of the cart the defective heater shelf is on. If it is on the right hand side you will need to remove the rear cover panel. If it is on the left hand side the front cover panel will have to be removed.
5. To remove a cover panel, using a flat blade screwdriver, gently lift off both trim strips. Take care not to scratch the cart or bend the trim strip during this process. remove the screws and washers.
6. Using the screwdriver, break the silicone sealant seal at the top and bottom of the cover panel. Be careful not to scratch the cart during this process.
7. Locate the connection for the defective heater shelf. Remove the heat shrink tubing and disconnect the heater shelf.
8. Push the heater shelf connection through to the inside of the cart.
9. Lift the back of the heater shelf out of the flange on the center panel of the cart and pull the heater shelf forward.
10. Install the new heater shelf by placing the shelf back into the cart with the connections in the rear right had corner. When the shelf is approximately three-quarters of the way into the cart, slide the connections through the hole.
11. Push the heater shelf the rest of the way into the cart, lifting the back edge over the flange to seat the shelf in position. Failure to properly seat the shelf with allow the shelf to move in the flange to seat the shelf in position. Failure to properly seat the shelf will allow the shelf to move in the cart and could cause a loose connection.
12. Push the plug firmly into the hole.
13. On the inside wiring area of the cart, pull up the heat shrink on the new shelf, and firmly reconnect the heater shelf into the wiring harness. Using a heat shrink gun, seal the connection with heat shrink.
14. While the cover panel is off, replace any damaged heater shelf supports brackets.
15. Remove old silicon sealant from the cart and panel, affix the panel. Replace plastic washers if they are damaged.
16. Check the operation of the new heater shelf by using the procedure described above.
17. If shelf is functioning properly place the trim strips back onto the cart.
18. Using a food grade silicone sealant, reseal the cover panel at the top and bottom of the cart. Allow the sealant to dry prior to returning the cart to service.

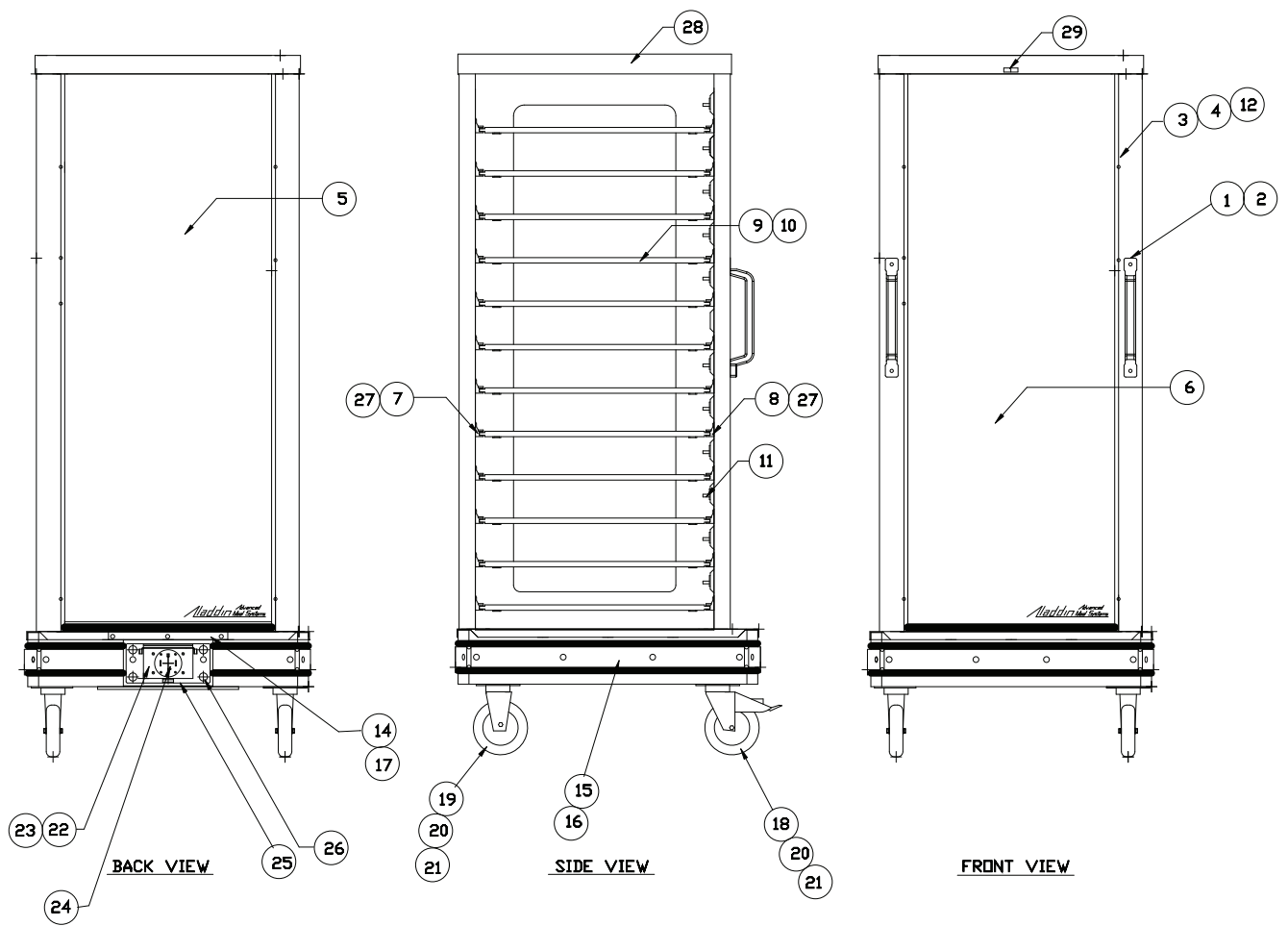
# V. TROUBLE SHOOTING

Performance problems often result from minor incidents that can be found and corrected by checking and following the basic points mentioned in the table below.

SYMPTOM	Problems Cause	Correction
Caster will not lock	Debris in caster	Clean
Poor rolling of caster	Debris in swivel bearing of caster	Clean
No electric power to cart/cart present switch not showing on touchscreen, or refrigerator did not beep when cart was rolled in.	Faulty proximity switch	Replace switch on cart stall or in refrigerator.
	Improper alignment of floating plug to receptacle.	Check for correct plug alignment, confirm the stall / refrigerator receptacle is set correctly and level. If so, then shim rigid casters to properly align the plug with the cart receptacle
	Cart not in refrigerator or cart stall.	Realign cart
	Faulty relay in panel	Repair and/or replace relay
	Faulty receptacle	Repair and/or replace receptacle
	Breakers not on in control panel or refrigerator.	Reset breakers
	cart actuation bar not aligned correctly.	Make sure bar is bolted securely to cart.
Trays hard to load into carts	Damaged shelf support bracket	Clean and/or replace damaged shelf support bracket
	Incorrect stacking of dishes, utensils, or domes	Replace tray
Work table hard to replace, raise or lower	Bent or misalignment support rod	Realign
	food in slide	Clean slide
Meal not hot at end of cycle	Tray is not fully in place	Adjust so that tray is locked in place
	Tray is in backwards	Reverse tray
	Heater element malfunction	Replace heater element
	Door safety switch has deactivated master relay	Refrigerator (roll-in) door was opened during rethermalization. Close door and repeat rethermalization.
	High temp alarm on retherm has deactivated master relay	Refrigerator cabinet temperature too high. Contact authorized service agent.

## VI. Drawings/Parts List S/S Cart

No.	Part #	Description	Qty.
1	34792	Black handle bracket`	2
2	34992	Handle bolt covers	4
3	92444	Screw cover 1/4"	14
	29687	Trim strip - 24 shelf car (for units before August 2008)	4
	29688	Trim strip - 20 shelf cart (for units before August 2008)	4
	29689	Trim strip - 16 shelf cart (for units before August 2008)	4
4	28323	Black trim strips`	36 ft.
5	67193	Rear cover panel -24 shelf cart	1
	67187	Rear cover panel - 20 shelf cart	1
	67197	Rear cover panel - 16 shelf cart	1
6	67192	Front cover panel -24 shelf cart	1
	67186	Front cover panel - 20 shelf cart	1
	67196	Front cover panel - 16 shelf cart	1
7	34844	Ivory LH shelf support bracket - 24 shelf cart	24
		Ivory LH shelf support bracket - 20 shelf cart	20
		Ivory LH shelf support bracket - 16 shelf cart	16
8	34843	Ivory RH shelf support bracket - 24 shelf cart	24
		Ivory RH shelf support bracket - 20 shelf cart	20
		Ivory RH shelf support bracket - 16 shelf cart	16
9	14650	K134 Heater shelf - hardwired -24 shelf cart	24
		K134 Heater shelf - hardwired -20 shelf cart	20
		K134 Heater shelf - hardwired -16 shelf cart	16
10	28159	K334 Heater shelf plug-in 24 shelf cart	24
		K334 Heater shelf plug-in 20 shelf cart	20
		K334 Heater shelf plug-in 16 shelf cart	16
11	21042	Shelf switch -24 shelf cart	24
		Shelf switch -20 shelf cart	20
		Shelf switch -16 shelf cart	16
12	24937	Plastic washer for trim strips	12
14	24916	Black mini bumper	1
15	28828	Base bumper - black	1
16	29117	S/S Drive rivet for base bumper	20
17	35190	1/8" pop rivet - 5/16" Lg - mini bumper	3
18	75130	5" Dia. caster - swivel switch brake	2
19	75129	5" Dia. rigid caster	2
20	28286	5/16" washer for caster	16
21	28285	5/16" - 18 x 5/8" hex head caster bolt	16
22	39326	Male valox spacer	1
23	11573	J-box with holes	1
24	39243	plug - 14 - 30 30A, 4 wire hubble	1
25	39811	Slide base weldment - rear mount	1
26	28283	10-24 x 5/8 shoulder bolt - socket head	4
27	28337	3/16" pal nut - shelf support brkts - 24 shelf carts	96
		3/16" pal nut - shelf support brkts - 20 shelf carts	80
		3/16" pal nut - shelf support brkts - 16 shelf carts	64
28	67195	Top Cover panel	1
29	28377	Red / green light harness	1



## VII. WARRANTY & LIABILITY

ALADDIN TEMP-RITE  
EQUIPMENT  
LIMITED WARRANTY

Effective August, 1998

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 repair or 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	
	PARTS	LABOR
C416DTK	1 Year	90 Days
C420DTK	1 Year	90 Days
C424DTK	1 Year	90 Days
C424IVB***	1 Year	90 Days
Heater elements	1 Year	90 Days

\*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.

\*\*\*Lighter weight aluminum version

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. ATR 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 State of America, its territories and Canada. During the term of any labor warranty, ATR will pay all pre-approved 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 defective equipment or otherwise performing any 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 to 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 ATR TOLL FREE AT 1-800-888-5426 IF YOU HAVE ANY QUESTIONS ABOUT THIS WARRANTY OR YOUR ATR PRODUCT.