

**Aladdin Temp-Rite**®...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 EXCEL™

## RE THERMALIZATION CARTS

### C600 Series

#### Aluminum Powder Coated Cart

#### Stainless Steel Cart





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Model Number: \_\_\_\_\_  
Serial Number: \_\_\_\_\_  
Purchase Date: \_\_\_\_\_

# C600 SERIES EXCEL™ CART

## I. MODEL/DESCRIPTION

### Temp-Rite II Excel Cart Description

Capacity	Sales Code*	Weight	Dimensions			Electrical Data				Cu. Ft.
			H	W	L	Volts	Cycle	Phase	Amps**	
<b>Temp-Rite II Excel Cart Description Aluminum, Powder Coated Cart</b>										
16	C 616 DSM	155 lbs.	49.2	26.5	28.25	240V / 120V / 4W	60HZ	Single	10.8	28.0
20	C 620 DSM	172 lbs.	57.2	26.5	28.25	240V / 120V / 4W	60HZ	Single	13.5	32.0
24	C 624 DSM	190 lbs.	65.2	26.5	28.25	240V / 120V / 4W	60HZ	Single	17.0	33.8
<b>Temp-Rite II Excel Cart Description Stainless Steel Cart</b>										
16	C 616 DTK	190 lbs.	49.2	26.5	28.25	240V / 120V / 4W	60HZ	Single	10.8	28.0
20	C 620 DTK	215 lbs.	57.2	26.5	28.25	240V / 120V / 4W	60HZ	Single	13.5	32.0

\* For carts with doors add a D to the end of the sales code.

\*\* For system wiring see refrigerator specs. for max. system amp. loads.  
Cart is wired 240V thru the plug to supply separately 120V ea.

The Aladdin C600 Series rethermalization cart may serve 4 basic functions:

- A. Store complete, pre assembled meals.
- B. Rethermalize meals inside a rethermalization refrigerator or walk-in cooler.
- C. Deliver the meals.
- D. Retrieve trays for return to warewash after each meal.

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 Excel technology is protected under U.S. Patent number 5,403,997. Each cart features the following:

- A. The cart incorporates individually activated heater elements. When trays containing meals to be heated are placed on the heater elements, they are positioned so that the insulated dome activates the switch for each heater element. When trays containing cold meals are placed in the carts, they are done so without the insulated dome cover. As an alternative, a clear non-insulated dome (T730) may be used.
- B. Thermostatically controlled heaters within each element allow for a full range of gentle conduction heat to reach each food section inside the tray, regardless of density or consistency.
- C. The cart has two swivel casters with brakes and two rigid casters for ease of mobility and delivery.

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- D. 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.
- E. A fold-down workshelf with cart identification holder is available on the 16, 20 and 24 shelf carts. A cart tow hitch and a galley style carrier are available for the 16 & 20 shelf carts. These optional choices add extra convenience and versatility to the Excel 600 carts.

The carts are then held in storage until thirty-six (36) minutes before meal service, meals are heated while inside the refrigerator or walk-in without rehandling. Aladdin's insulated technology can keep each food item, hot or cold, at the proper temperature until served.

## II. RECEIVING INSPECTIONS

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Your Aladdin Temp-Rite cart is factory tested for performance and is free from defects when shipped.

### 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.

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## III. CLEANING

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Warning: Use of chlorinated detergents may cause damage to the stainless steel finish.

Warning: Use of steel wool or metallic scouring cloths may damage the stainless steel and powder coated finish.

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

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The Aladdin Temp-Rite Excel™ rethermalization cart should be sanitized and cleaned after each use by one of the following methods:

### METHOD #1

1. Wipe heater elements, walls, handles, and sides with a soft clean cloth, using warm water and a non-chlorinated and non-abrasive cleaner. (Save time by wiping in a figure eight pattern.)
2. Rinse thoroughly with warm water and wipe dry with a soft, absorbent cloth.
3. 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 dry with a soft, absorbent cloth.
4. Sanitize with a properly diluted sanitizer. Use of undiluted sanitizers will cause damage to the heater elements and metal finish.
5. Outside of Cart Only! 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.

### METHOD #2

1. The retherm cart may be cleaned using a hose with a spray nozzle. The maximum pressure is 87 psi. with a maximum temperature of 180 degrees F. Spray the cart to loosen soil.
2. Use a soft nylon brush on food build-up and in corners.
3. Sanitize with a properly diluted sanitizer. Use of undiluted sanitizers will cause damage to heater elements and metal finish.
4. Rinse thoroughly with warm water and wipe dry with a soft, absorbent cloth.
5. As a final step, a stainless steel polish may be used. (See Item 5 Method 1 above.)

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## SANITATION AND CLEANING PROCEDURES FOR ALADDIN CART DOORS.

Retherm cart doors should be sanitized and cleaned after each use by the following method:

1. Clean the plastic framework with a properly diluted grease releasing agent and a clean, non abrasive cloth.
2. Clean the clear vinyl window with a properly diluted, non-ammonia based cleanser and a clean, non-abrasive cloth.
3. Dry thoroughly with a dry cloth to remove any moisture.
4. Never use sharp objects, abrasives or scrapers when cleaning the doors.

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**CAUTION:** Harsh chemicals and under-diluted sanitizers will damage cart doors and void product warranty.

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## IV. MAINTENANCE

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**NOTE:** The following maintenance frequency is a recommendation only. Adjustment may be required for varying environments and equipment age.

### CART BODY:

Tray Guides (Monthly or as needed) See TRAY GUIDE TEST PROCEDURE on page 9

1. Replace any broken or loose tray guides.

Casters (Monthly or as needed)

1. Check casters for freedom of movement and proper brake retention.
2. Remove debris (mop strings, hair etc.).
3. Replace caster when rubber measures less than 1/4" from caster rim.

Cart Mating (Semi-Annually or as needed)

1. Check for proper mating into cart stall or refrigerator receptacle.
2. Check for bent plug blades, misaligned actuation bar, restricted plug float and improper receptacle height.

Cart Bumpers (Semi-Annually or as needed)

1. Ensure bumpers are securely fastened, tighten as needed.
2. Clean with cleaning solution mixed at regular strength dilution.

(continued on next page)

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Side and Top Panels (Quarterly or as needed)

1. Check side and top panels of the retherm cart for tightness and proper seal.

Trim Strips (Semi-Annually or as needed)

1. Ensure that trim strips are securely fastened and in place.
2. Replace any missing trim strips.

Actuation Bar (Quarterly or as needed)

1. Ensure that actuation bar is securely fastened and parallel with the base of the cart to achieve correct proximity input to the retherm controller.

## HEATING ELEMENTS:

Element Visual Inspection (Quarterly or as needed) See HEATER ELEMENT FUNCTION CHECK procedure on page 9

1. Make sure that each heater element is securely attached to the mounting crossbar.
2. Tighten any loose heater elements or mounting crossbars.

Element Function Check (Weekly or as needed)

1. Replace any malfunctioning heater elements See HEATER ELEMENT REPLACEMENT PROCEDURE on page 11

## add heat up table

### GENERAL ELECTRICAL

Cart Lights (Quarterly or as needed)

1. Inspect cart lights, making sure that they are in good condition and operational.
2. Replace as required.

Plug Assembly (Quarterly or as needed)

1. Visually and physically inspect retherm cart plug assembly for freedom of horizontal and vertical movement. Remove any debris found and replace if the assembly is bent.
2. Inspect plug blades for distortion and replace if any blades are bent, broken or missing.
3. Inspect plug wiring for integrity at termination points by removing plug from housing.

### FLEXIBLE CART DOOR OPTION

(Quarterly or as needed) See FLEXIBLE CART DOOR TEST PROCEDURE ON PAGE 9

### HANDLES

(Quarterly or as needed)

1. Verify that the handles are securely fastened, tighten as needed.
2. Replace any missing screw covers.

### TOW HITCH OPTION

(Quarterly or as needed)

1. Clean tow hitch and tighten all fasteners as needed.

(continued on next page)

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## FLEXIBLE CART DOOR TEST PROCEDURE

1. With cart doors in a closed position, make sure the top and bottom door hinges are secure.
2. Check the open door catches on the rear of the cart (top and bottom) to assure that they are secure and completely intact.  
Open the flexible cart doors one at a time. Secure door handle frame in open door catches on rear of cart. Place the door handle frame in bottom catch first, then top catch.

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Note: When opening and closing the cart doors, use two hands and always remove the door handle frame from the top catch first. Always bend the door frame slightly until it clears the top catch.

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3. Check closed door catches and make sure the hardware is secure and the parts are completely intact.
4. Return both doors to the closed position before transporting cart.
5. Replace any broken or loose cart door parts.

## TRAY GUIDE TEST PROCEDURE

1. The Retherm cart is equipped with two tray guides on each tray level.
2. Run your hand down each side of the cart touching each tray guide to verify the guides are securely fastened to the cart.
3. Repeat this procedure for all sets of tray guides.
4. Replace any broken or loose tray guides.

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## HEATER ELEMENT CHECK

1. Open both cart doors.
2. Make sure each heater element is securely attached to the mounting crossbar.
3. Make sure each mounting crossbar is secured to the cart frame.
4. Tighten any loose heater elements or mounting crossbars.

## HEATER ELEMENT FUNCTION CHECK

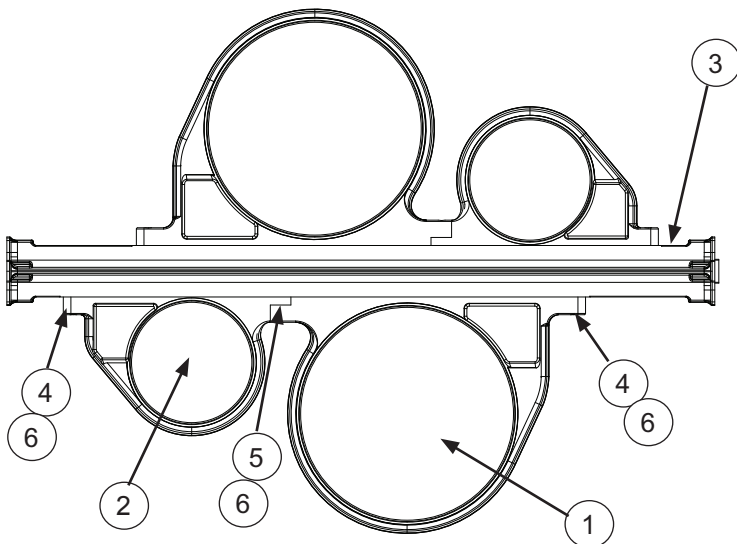
The following test procedure should only be performed by a qualified operator, maintenance technician, or an Aladdin Temp-Rite authorized service agent.

1. Activate the heater element magnetic switch by placing the heater element testing bar (found in the spare parts kit) on the raised portion of each heater element.
2. Connect the cart to 120v power supply (20amp) using a K258G20 test cord set. Watch for the light on the element to come on. NOTE: the brightness of the lamp may vary due to cycle sequence.
3. Switch the cord set to test position (1) to energize every other element level.
4. Check the heating surface by putting a hand above the heater element to feel the heat rising above it. Do not touch heater element as it may cause a burn.
5. After checking the first set of alternating rows, switch the test cord to position three (3) to test the remaining elements (the other alternating rows). Feel the heat rising above each element as before.
6. After each element has been on for approximately ten (10) minutes, switch test cord to middle position and unplug test cord from wall.
7. Be sure to remove the pod testing bar that was used to energize the individual elements.
8. Replace any malfunctioning heater elements using the following procedure.

## HEATER ELEMENT REPLACEMENT PROCEDURE

Make sure the power source is removed from the cart before attempting the element replacement procedure!

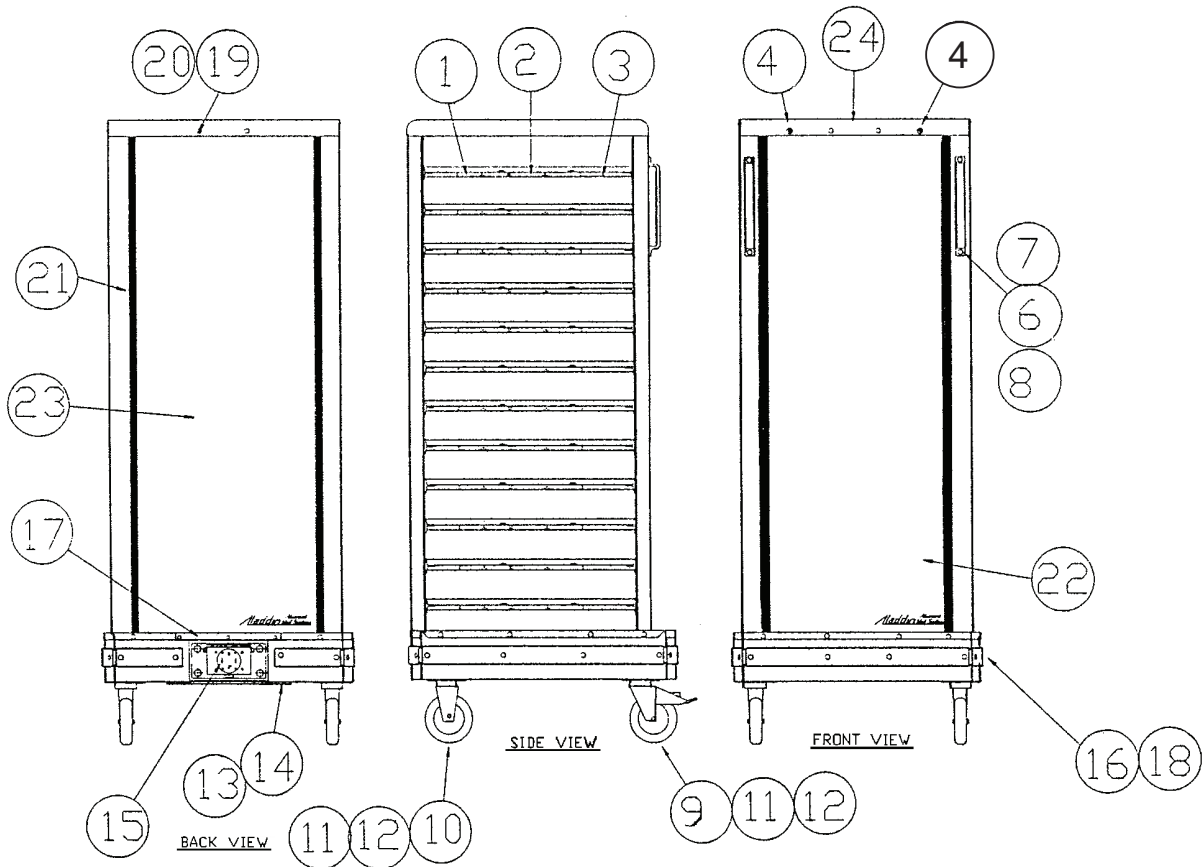
1. Remove the screw covers from the defective element.
2. Using a  $\frac{5}{32}$ " Allen wrench, remove the two screws holding the element to the crossbar.
3. After the screws are loose, gently pull the element away from the crossbar.  
Note: Do not jerk or twist the element when removing it.
4. To install the new element, align the element and gently push it into place. Make sure the pins are properly aligned.
5. While firmly holding the element in place, align the screw holes and reinstall the screws. Make sure that the longer screw 10-32 x  $\frac{3}{4}$ " is placed in the center where the two elements overlap. Tighten using the  $\frac{5}{32}$ " Allen wrench.
6. Replace the screw covers.
7. Verify the operation of the new element by using the heater element function check. (See page 10)



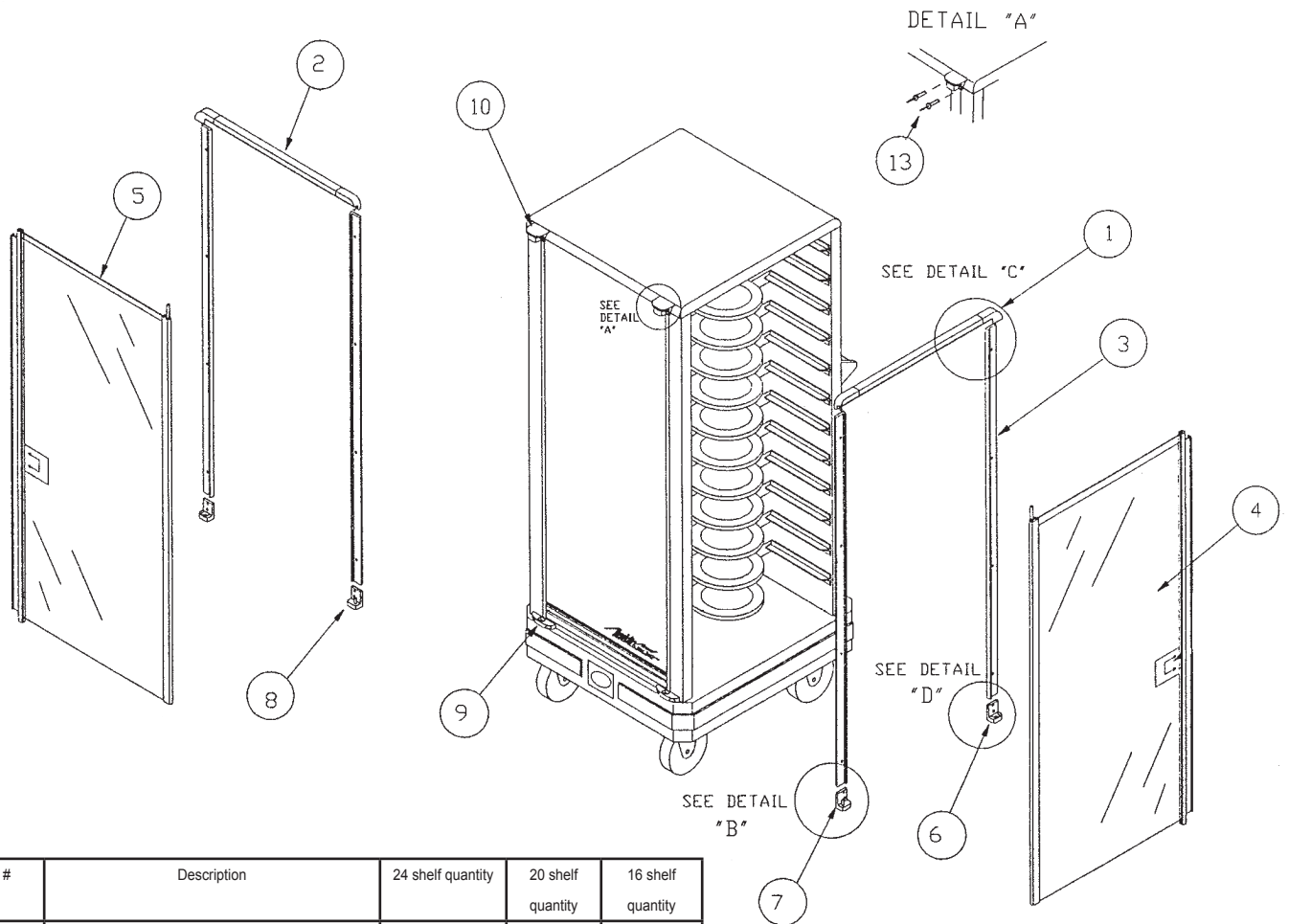
No.	Qty. Req'd.	Aladdin P/N	Description
1a	2	<a href="#">11116</a>	7" Face-Mounted Entree Pod (Gray Top)
1b	-	96053	7" Face-Mounted Entree Pod (BlackTop)
2a	2	<a href="#">11115</a>	3" Face-Mounted Soup Pod (Gray Top)
2b	-	96252	3" Face-Mounted Soup Pod (BlackTop)
3a	1	<a href="#">97654</a>	Crossbar for 7"/3" Face-Mounted Pods
3b	-	93895	Crossbar for 7"/3" Face-Mounted Pods
4	4	<a href="#">34789</a>	#10-32 X $\frac{3}{4}$ " S/S Bolt w/ Socket Hd, Nylock Coated
5	2	75378	#10-32 X 1" S/S Bolt w/ Socket Hd, Nylock Coated
6a	6	<a href="#">98176</a>	Screw cover (Gray Top)
6b	-	94306	Screw cover (BlackTop)

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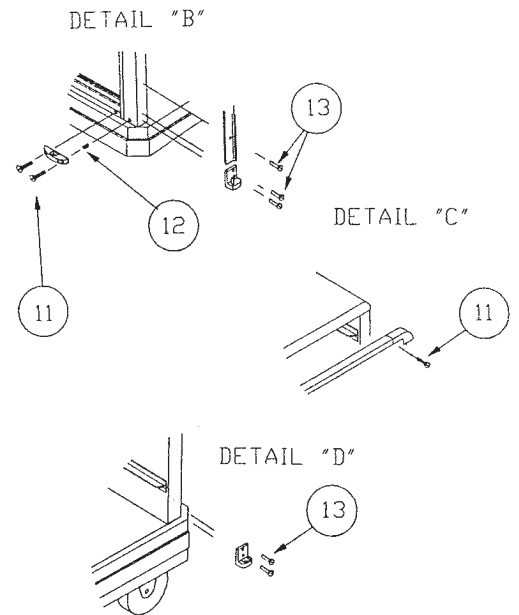
## V. PARTS LIST ALUMINUM CART



No.	Aladdin P/N	Description	No.	Aladdin P/N	Description
1	97656	3" Soup element - 120v	16	28056	Base bumper
2	97655	7" Entree element - 120v	17	24915	Mini bumper
3	97654	Crossbar for 7/3 element assembly	18	29117	S/S Drive rivet
4	93839	Red light	19	24937	#10 Plastic washer - under trim strip
5	-	-	21	28926	Trim strip - Mauve - 16 shelf cart
6	28827	Handle		28927	Trim strip - Mauve - 20 shelf cart
7	28829	Handle bracket		28928	Trim strip - Mauve - 24 shelf cart
8	92060	¼" - 20 x 1" Hex head bolt	22	28915	Front cover panel - 16 shelf cart
9	75130	Swivel caster		28896	Front cover panel - 20 shelf cart
10	75129	Rigid caster		28911	Front cover panel - 24 shelf cart
11	28285	5/16" x 5/8" Hex head bolt	23	28914	Rear cover panel - 16 shelf cart
12	28286	5/16" Lockwasher		28897	Rear cover panel - 20 shelf cart
13	28396	Cart actuation bar		28912	Rear cover panel - 24 shelf cart
14	35187	#10 - 32 1½" Truss head screw	24	34923	Top cover panel
15	39243	Plug			



No.	Part #	Description	24 shelf quantity	20 shelf quantity	16 shelf quantity
1	93001	Frame top left	1	1	1
2	93002	Frame top right	1	1	1
3	39864	Side shim - 24 shelf cart	4		
	39863	Side shim - 20 shelf cart		4	
	39862	Side shim - 16 shelf cart			4
4	92434	Door panel left - 24 shelf cart	1		
	92974	Door panel left - 20 shelf cart		1	
	92430	Door panel left - 16 shelf cart			1
5	92433	Door panel right - 24 shelf cart	1		
	92975	Door panel right - 20 shelf cart		1	
	92429	Door panel right - 16 shelf cart			1
6	39875	Bottom catch	2	2	2
7	39867	Bottom pivot left	1	1	1
8	39868	Bottom pivot right	1	1	1
9	39877	Bottom latch	2	2	2
10	39876	Top latch	2	2	2
11	39880	10-32 x 1" S/S SI Flat HD. screw	32	30	30
12	39221	10-32 Rivnut	32	30	30
13	39878	3/16 x 1 1/4" Alum. pop rivet	4	4	4
17	92786	Cart door rod - 24 shelf	2		
	92785	Cart door rod - 20 shelf		2	
	92784	Cart door rod - 16 shelf			2



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## VI. PARTS LIST STAINLESS STEEL CART

See page 12 for Drawing

No.	Aladdin P/N	Description	No.	Aladdin P/N	Description
1	11115	3" Soup element - 120v	11	28285	5/16" x 5/8" Hex head bolt
2	11116	7" Entree element - 120v	12	28286	5/16" Lockwasher
3	97654	Crossbar for 7/3 element assembly	13	28395	Cart actuation bar
4	93839	Red light	14	35187	#10-32 1½" Truss head screw
6	34792	Handle	15	39243	Plug
7	92706	Handle plug	16	28828	Base bumper
8	92060	¼" - 20 x 1" Hex head bolt	18	29117	S/S Drive rivet
9	75130	Swivel caster	20	34803	Bolt cover
10	75129	Rigid caster	21	35202	Trim strip - 16 shelf cart

See page 13 for Drawing

No.	Part #	Description	20 shelf quantity	16 shelf quantity
1	93011	Frame top left	1	1
2	93012	Frame top right	1	1
3	35137	Side shim -16 shelf cart		4
4	92980	Door panel left - 20 shelf cart	1	
	92436	Door panel left -16 shelf cart		1
5	92437	Door panel right - 20 shelf cart	1	
	92435	Door panel right - 16 shelf cart		1
6	35144	Bottom catch	2	2
7	35148	Bottom pivot left	1	1
8	35147	Bottom pivot right	1	1
9	35150	Bottom latch	2	2
10	35149	Top latch	2	2
11	39880	10-32 x 1" S/S SI Flat HD. screw	30	30
12	28315	10-32 Rivnut	30	30
13	39878	3/16 x 1¼" Alum. pop rivet	4	4
17	92785	Cart door rod - 20 shelf	2	
	92784	Cart door rod - 16 shelf		2

## VII. TROUBLESHOOTING

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	PROBABLE 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 timer or touchscreen.	Faulty proximity switch.  Improper alignment of floating plug to receptacle.  Cart not in refrigerator or cart stall. Faulty relay in panel. Faulty receptacle. Breakers not on, in control panel or refrigerator. Cart actuation bar not aligned correctly.	Repair switch on cart stall or in refrigerator. Check for correct plug alignment and shim rigid casters to properly align the plug with the cart receptacle. Realign cart. Repair and/or replace relay. Repair and/or replace receptacle. Reset breakers. Make sure bar is bolted securely to cart.
Trays hard to load into carts.	Damaged shelf support bracket.  Incorrect stacking of dishes, utensils, or domes.	Clean and/or replace damaged tray support bracket . Replace tray.
Work table hard to replace, raise or lower.	Bent or misaligned support rod. Food in slide.	Realign. Clean slide.
Entree or soup not hot at end of cycle.	Tray is not fully in place. Heater element malfunction. Dome not positioned properly. If trays are equipped with switches. Door safety switch has deactivated master relay.  High temp alarm on retherm has deactivated master relay.	Adjust so that it is locked in place. Replace heater element. Place dome on correctly. Check for proper position of switch. Refrigerator (roll-in) door was opened during rethermalization. Close door and repeat rethermalization. Refrigerator cabinet temperature too high contact authorized service agent.

## VIII. SERVICE

If you need assistance, call Aladdin Toll Free: 1-800-888-5426  
Please have the following numbers available:

Model Number: \_\_\_\_\_  
Serial Number: \_\_\_\_\_  
Purchase Date: \_\_\_\_\_

# C600 SERIES EXCEL™ CART

## IX. WARRANTY

### ALADDIN TEMP RITE EQUIPMENT LIMITED WARRANTY

Effective April, 1997

\*The warranty term commences 30 days after Aladdin's invoice for the equipment.

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. Aladdin's obligation under this warranty is limited to the repair or replacement, at the sole option of Aladdin, of any part which upon inspection and examination by Aladdin 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 Aladdin, must be delivered to Aladdin 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 TEMP-RITE II EXCEL CARTS	WARRANTY TERM*	
	PARTS	LABOR
C616DSM, C620DSM, C624DSM	5 YEARS	90 DAYS
C616DKT, C620DKT	5 YEARS	90 DAYS
HEATER ELEMENTS	2 YEARS	N/A

\*The warranty term commences 30 days after the date of Aladdin's invoice for the equipment.

THE WARRANTIES AND REPRESENTATIONS OF ALADDIN 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 ALADDIN, 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 ALADDIN.

### 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, Aladdin will pay all pre-approved shipping charges incurred in returning defective equipment to Aladdin and labor costs incurred in the removal and reinstallation of such equipment. Contact Aladdin before returning any claimed defective equipment or otherwise performing warranty repairs. Aladdin 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 Aladdin and labor for removing and reinstalling such equipment. Aladdin 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 Aladdin. Neither this warranty nor the liability of Aladdin may be modified or extended by action of any agent, distributor or other person or by custom or practice.

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