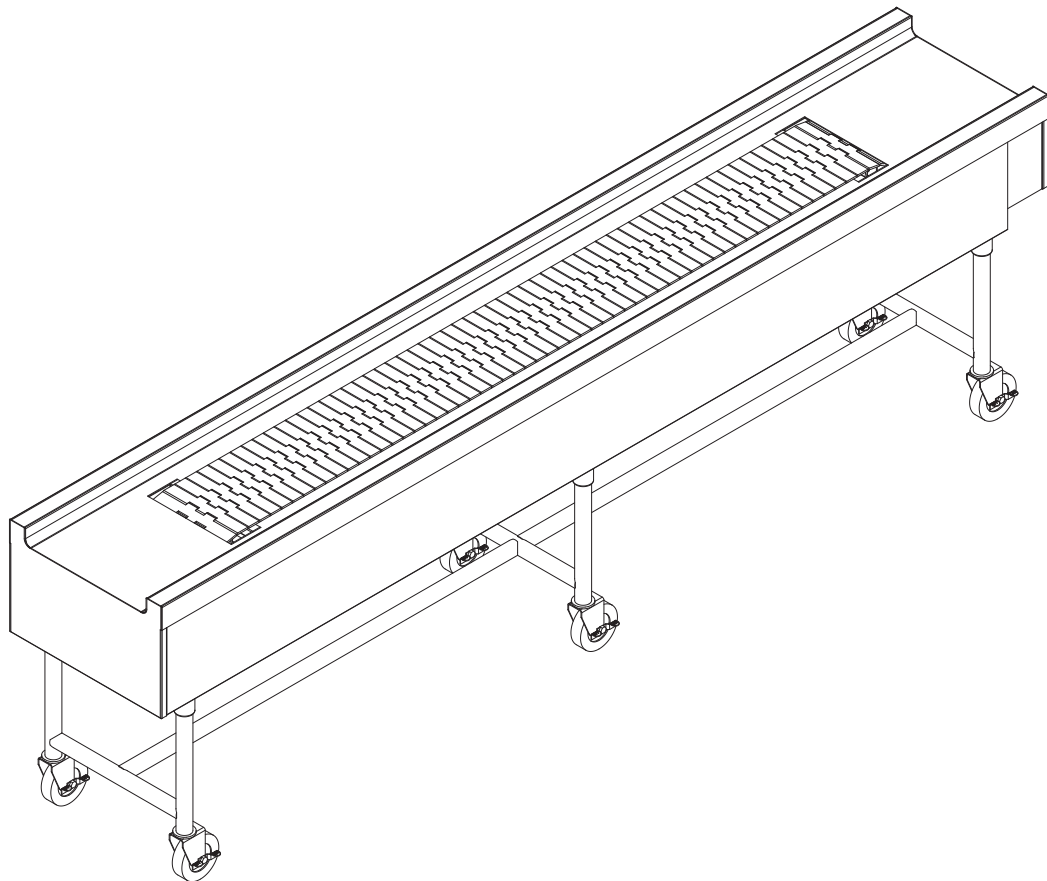




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# SLAT BELT CONVEYORS



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## INSTALLATION, OPERATION & MAINTENANCE MANUAL

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Manual P/N 34950  
Rev. B 08/18/2022

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# SLAT BELT CONVEYORS

PSC-10,12,14,16,18,20,22,24,26,28,30

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# I. MODELS

The Aladdin Slat Belt conveyors come in 11 different sizes from 10 feet to 30 feet in length. These conveyors are an ideal choice for traditional or advance food preparation tray assembly lines. Simple to operate and easy to maintain, manufactured in heavy duty stainless steel, Aladdin Slat Belt conveyors will provide years of trouble free operation. They are designed to carry a maximum load rating of 10 lbs. per ft. with a maximum speed of 40 feet per minute.

Aladdin Part #	Aladdin Sales Code	Overall Conveyor Length	Shipping Weight
28223	PSC-10	10' (3.05m)	600 lbs. (272.16kg)
28224	PSC-12	12' (3.67m)	670 lbs. (303.91kg)
28225	PSC-14	14' (4.27m)	740 lbs. (335.66kg)
28226	PSC-16	16' (4.87m)	790 lbs. (358.34kg)
28227	PSC-18	18' (5.49m)	860 lbs. (390.09kg)
28228	PSC-20	20' (6.10m)	920 lbs. (417.31kg)
28229	PSC-22	22' (6.71m)	990 lbs. (449.06kg)
28230	PSC-24	24' (7.31m)	1130 lbs. (512.56kg)
28231	PSC-26	26' (7.93m)	1200 lbs. (544.32kg)
28232	PSC-28	28' (8.53m)	1260 lbs. (571.53kg)
28233	PSC-30	30' (9.14m)	1340 lbs. (607.82kg)

# II. RECEIVING INSPECTIONS

Your Aladdin PSC 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 PSC 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.

*continued on next page*

# SLAT BELT CONVEYORS

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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

#### CAUTION

Installation and maintenance should be performed by qualified personnel only

NOTE: The installation instructions are similar for all the conveyors.

1. Uncrate the conveyor, set into place and level the unit before assembling.
2. Connect the two ends of the field joint by bolting together (if a field joint is provided). The matching plates mate around the weld studs and are secured with the nuts provided. The raceway is assembled in the same manner as the supports. The top belt guide rails are provided with two 16" long matching pieces that are secured to the support bracket by nuts which mate the weld studs on the bottom of the rails.
3. Connect the proper electrical service to the wiring terminals located behind the panels marked "electrical access" or similar markings. (The proper electrical requirements are shown on the motors data plate).
4. Install the slat belt by doing the following:
  - A. Lay the slat belt on top of the conveyor bed.
  - B. Start the chain around the drive socket.
  - C. Use the speed control to pull the slat belt around.
  - D. Connect the sections of belting, using the supplied connecting pin.
  - E. After connecting the last section of belting, adjust the belt tension at the starter end of the conveyor.

### IV. ELECTRICAL

The power supply to this system is divided in two (2) sections.

1. 120v AC control circuit
2. 0-90v AC motor control circuit

#### WARNING

To prevent electrical shock hazard, the main power switch must be turned to "off" position whenever performing service or maintenance.

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# V. SYSTEM OVERVIEW

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## BASIC ELECTRICAL OPERATION

Normal operating voltage for this system is 120 volts AC. If a raceway is provided with the system the conveyor will be rewired to the raceway. Otherwise connect the incoming service to terminals L1 and Neutral.

To start-up the system, energize the breaker provided in the raceway and push the start button. Double pole relays will be energized and will pull in. This supplies power to the DC drive printed circuit board.

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**NOTE:** 120 volt AC power to the DC drive printed circuit board passes thru fuse blocks-which are rated at 8 amps.

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The DC drive printed circuit board supplies power to the permanent magnet, DC motor from terminals A+ and A-. The speed control potentiometer controls the DC line voltage to the motor. With the speed control set at maximum, a DC line voltage of 60 volts, DC should be present for operation at a rate of 40 feet per minute.

## LIMIT SWITCHES

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**NOTE:** On the DC circuit board there is a set of terminals marked "I1 and I2". This is a normally open tap to the board.

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This system is provided with a foot switch that is wired normally open and connected across the "run" terminals. Check your specific system drawings for wiring specifics.

## PHOTO EYE CIRCUITS

The system will stop and start automatically without removing power. when a tray blocks the electric eye beam. The through beam photoeye switches control the working of the stop start mechanism. The system is wired by connecting terminals I1 and I2. When these terminals are opened the system will automatically restart.

## MECHANICAL DRIVE ASSEMBLY

This system is powered by a 1/2 H.P. 90V DC permanent magnet DC motor connected to a right angle gear reducer. Power is transmitted through the system by sprockets and chains. The system contains a torque limiting device which is preadjusted at the factory.

Chain tension is maintained by a floating "Snap Idler". This device is made of ultra high molecular weight polymer material which allows for low wear with reduced friction. To adjust the tension simply push halves closer together. To loosen idler pull the steel clip out away from retaining straps.

Periodic checks should be made for signs of undue wear on sprockets and chains. If sprocket or chain must be replaced, replace with identical components. See drive housing drawing and parts list for parts reference.

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**IMPORTANT:** If a motor must be replaced be sure to seal all seams in the motor housing with silicone for waterproofing before operating conveyor.

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# SLAT BELT CONVEYORS

## PSC-10,12,14,16,18,20,22,24,26,28,30

### TABLE TOP CHAIN

This unit is supplied with a "REXNORD" no. 821 table top chain. This chain is of a slat construction and is driven by a special no. 821 drive sprocket. If the chain must be removed, simply drive out one of the connecting pins which holds the slats together. One end of the pin has a knurled section which grips the plastic slat.

A periodic check should be made of the table top chain tension. Should an adjustment be required, the unit has (2) adjustment bolts in the tail section. Make sure that the bolts are set at the same tension.

### GEAR BOX

The right angle gear reducer is filled with a synthetic lubricant which should never need changing. If additional fluid should be required use Mobil type SHC-634 synthetic gear oil.

### TRAY STARTER

The automatic tray starter is designed to hold the tray above the conveyor belt for the desired (or preset) period and lower it automatically to allow for uniform spacing of trays on the tray assembly line.

This system uses a constant speed gear motor with a stainless steel linkage attached to the lift plunger. A selector switch is provided to energize the tray starter. A red indicator light is provided to show that power is on. The motor is controlled by two (2) limit switches and two (2) timers. One limit switch is set in the up position and the other is set in the down position. The timers are provided with separate adjustment so that the up delay and the down delay can be varied for maximum productivity. To adjust the times simply adjust the speed controls located adjacent to the lift device until the desired times are established. Each timer has a maximum of ten (10) seconds of delay.

## VI. CLEANING

The following procedures should be followed during the regular cleaning regimen on the slat belt conveyors.

The tray starter pan is mounted on "Z" clips and can be easily removed for cleaning. Simply lift the tray up, tilt back and pull up. Below the slots where the tray starter tray is mounted is a drip pan. This pan is used to catch any foreign matter which may fall through the slots and enter the control panel. To remove the pan push forward until the lips of the pan are off the holding clips. The pan can now be removed and cleaned with mild soap and water solution.

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**NOTE:** Do not operate the unit if the pan is not in position. Any water which may pass through the slots will damage the control circuit.

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To replace the pan simply place into position and slide back into clips.

### A. WHEN TO CLEAN

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

### B. HOW TO CLEAN

To remove most soil, use a nonabrasive, 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 NONMETALLIC, FINE GRAIN SCOURING CLOTH. Be sure to rub in the same direction as the metal grain. A stainless steel polish may be used on the exterior of the unit. This polish will also provide a protective finish that will reduce future soiling.

# VII. TROUBLESHOOTING

COMPLAINT	POSSIBLE PROBLEM	SOLUTION
CONVEYOR WILL NOT START		
A. Start button depressed, nothing happens.	<ol style="list-style-type: none"> <li>1. Check line voltage.</li> <li>2. Open circuit breaker on system.</li> </ol>	<ol style="list-style-type: none"> <li>1. Check main breaker.</li> <li>2. Check circuit breaker located in control panel. Reset if tripped.</li> </ol>
B. Start Button Depressed control relay & breaking relay active.	<ol style="list-style-type: none"> <li>1. Check line voltage on control relay at COM &amp; N.O.*</li> <li>2. Check voltage at fuse block at top of terminal strip.*</li> <li>3. Check line voltage at terminals L1 &amp; L2 on KBIC board.*</li> <li>4. Check line fuse and armature fuse on KBIC board.</li> </ol> <p><b>*NOTE!</b> Also inspect the armature brushes on the DC motor before replacing the control board. Worn armature brushes will short the motor and cause control board problems.</p>	<ol style="list-style-type: none"> <li>1. If voltage at COM but not a N.O. relay is bad. Replace. 2. Replace fuse if blown.</li> <li>3. Replace fuse if blown.</li> <li>4. If inhibit (armature switching circuit) is used remove jumper from "I2". To remove inhibit circuit before proceeding. If no D.C. voltage is present remove wire leads from A+ &amp; A- to isolate board, adjust full speed potentiometer to full clockwise position. If no voltage present replace board.</li> <li>5-6. Replace fuse if blown.</li> <li>5. Check voltage at terminals A+ &amp; A- on KBIC board.</li> <li>6. Check armature fuses between the control board and motor.</li> </ol>
C. System will not run with inhibit circuit wired in but will run with "I2" jumper removed.	<ol style="list-style-type: none"> <li>1. Amplifier set to light position.</li> <li>2. Photo eye is blocked.</li> <li>3. Photo eye is out of alignment.</li> <li>4. Gain set too low.</li> <li>5. Defective photoeye or amplifier.</li> </ol>	<ol style="list-style-type: none"> <li>1. Switch to dark position.</li> <li>2. Remove object from beam path.</li> <li>3. Check alignment indicator on amplifier.</li> <li>4. Adjust gain on amplifier.</li> <li>5. Replace.</li> </ol>
CONVEYOR WILL NOT STOP	<ol style="list-style-type: none"> <li>1. Check contacts on stop button.</li> <li>2. Defective photoeye or amplifier.</li> </ol>	<ol style="list-style-type: none"> <li>1. If defective replace.</li> <li>2. Replace.</li> </ol>
CONVEYOR RUNS FOR A SHORT TIME AND STOPS		
A. Inhibit circuit removed from system.	<ol style="list-style-type: none"> <li>1. Current limit out of adjustment on KBIC board.</li> <li>2. Motor brushes worn and causing short in control board.</li> </ol>	<ol style="list-style-type: none"> <li>1. See the section on system conveyor control board and adjust "CL".</li> <li>2. Replace brushes.</li> </ol>
B. Inhibit circuit in system.	<ol style="list-style-type: none"> <li>1. Photo eye is blocked or misaligned and time on setting is in use.</li> </ol>	<ol style="list-style-type: none"> <li>1. Clear photo eye.</li> </ol>
BELT JUMPING (COGGING)		
A. System runs smooth then starts to jump.	<ol style="list-style-type: none"> <li>1. "IR" comp. out of adjustment.</li> </ol>	<ol style="list-style-type: none"> <li>1. See section on control board for adjustment.</li> </ol>
CONVEYOR NOISY		
A. Belt is traveling smoothly but it pops.	<ol style="list-style-type: none"> <li>1. Sprocket has shifted on drive shaft.</li> <li>2. Tail section tension adjustment bracket not straight.</li> <li>3. Check cantinary sag of belt.</li> </ol>	<ol style="list-style-type: none"> <li>1. Center sprocket on shaft.</li> <li>2. Realign tail section adjustment bracket</li> <li>3. Adjust belt tension.</li> </ol>
DRIVE SHAFT NOISY	<ol style="list-style-type: none"> <li>1. Bearing needs greasing.</li> </ol>	<ol style="list-style-type: none"> <li>1. Grease bearing*.</li> </ol>
DRIVE CHAIN POPPING	<ol style="list-style-type: none"> <li>1. Chain tension loose.</li> <li>2. Chain needs lubrication.</li> <li>3. Chain worn out.</li> </ol>	<ol style="list-style-type: none"> <li>1. Readjust snap idler.</li> <li>2. Lubricate chain*.</li> <li>3. Replace chain.</li> </ol>
GEAR BOX NOISY	<ol style="list-style-type: none"> <li>1. Low oil level in gear box.</li> </ol>	<ol style="list-style-type: none"> <li>1. Fill as required*.</li> </ol>
MOTOR NOISY	<ol style="list-style-type: none"> <li>1. Worn bearings.</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace bearings.</li> </ol>

\*Note! All gear boxes are factory filled with Mobil type SHC-634 synthetic gear oil, replace with the same type gear oil. DO NOT mix mineral base gear oil with synthetic gear oil.

# SLAT BELT CONVEYORS

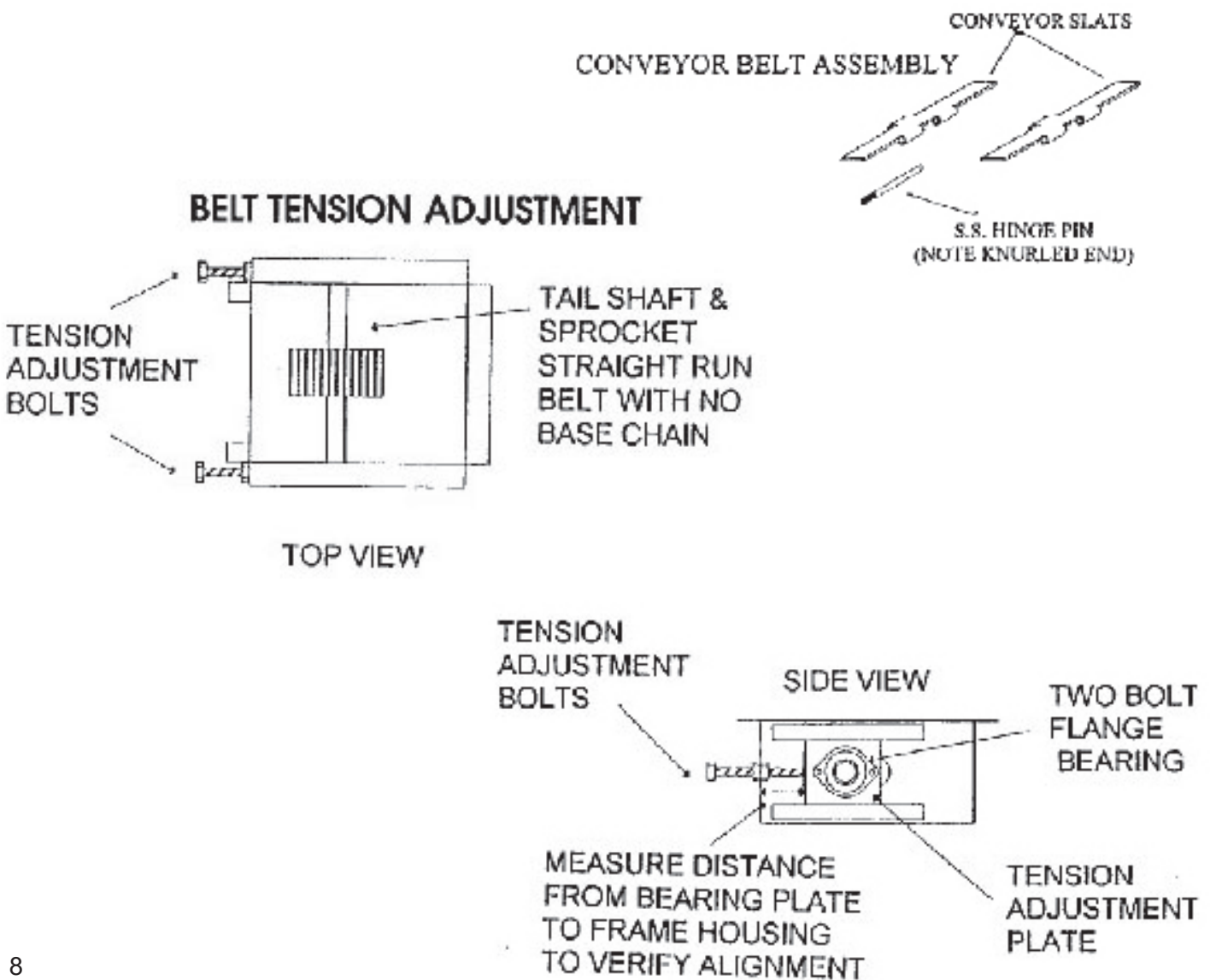
PSC-10,12,14,16,18,20,22,24,26,28,30

## VIII. MAINTENANCE

### SLAT REPLACEMENT

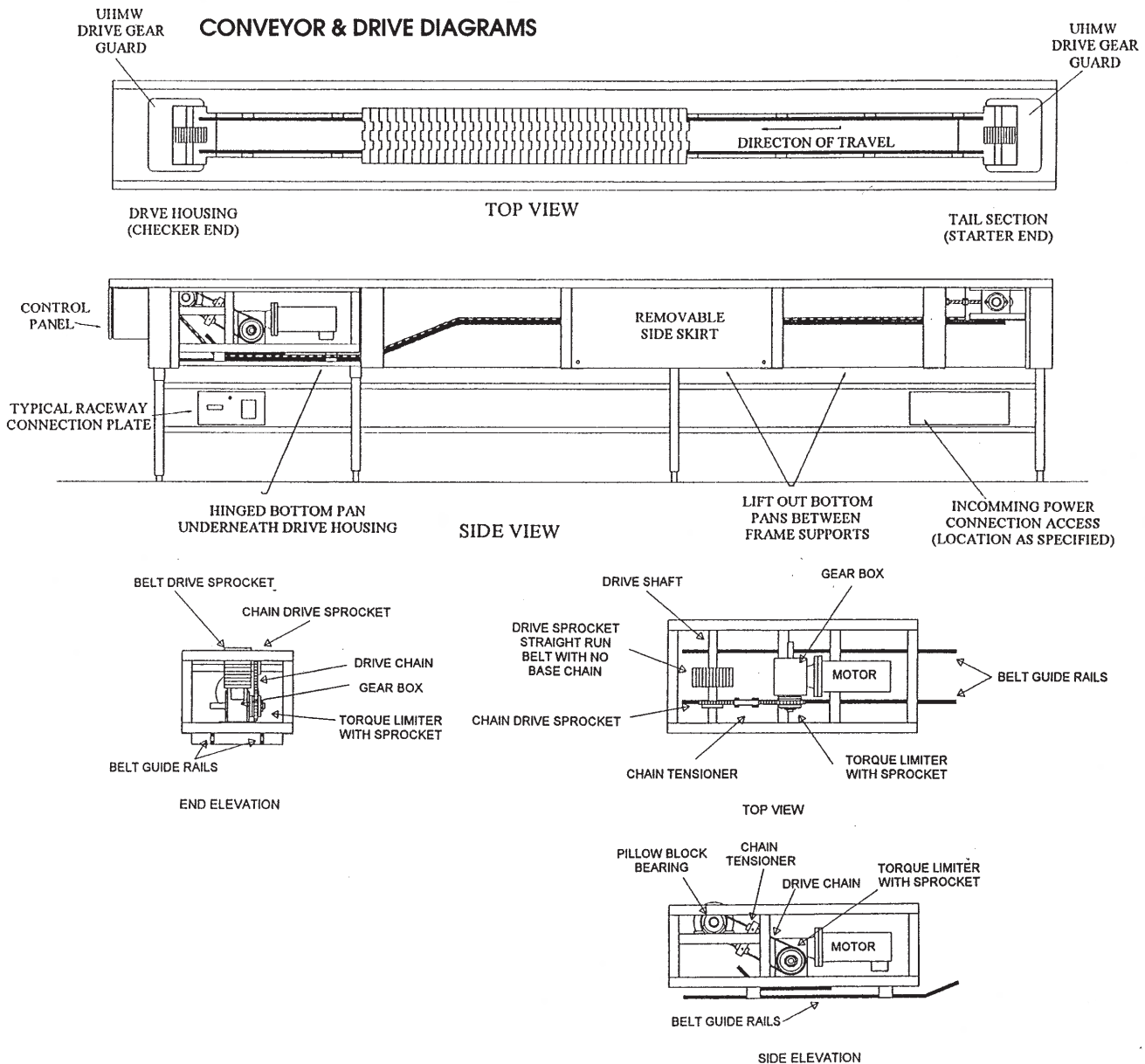
Replacing a broken slat on your conveyor system is done by removing the knurled nut from the slat. The nut can only be removed in one direction because the hole is tapered. After removing the broken slat the installation is the reverse of removal.

### BELT TENSION ADJUSTMENT



# IX. DIAGRAMS/PARTS LISTS

## CONVEYOR & DRIVE DIAGRAMS

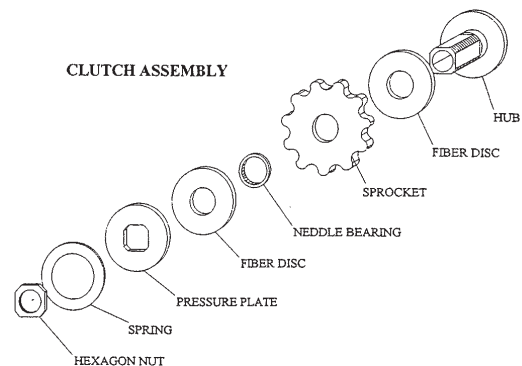
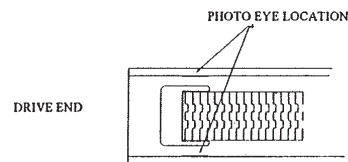
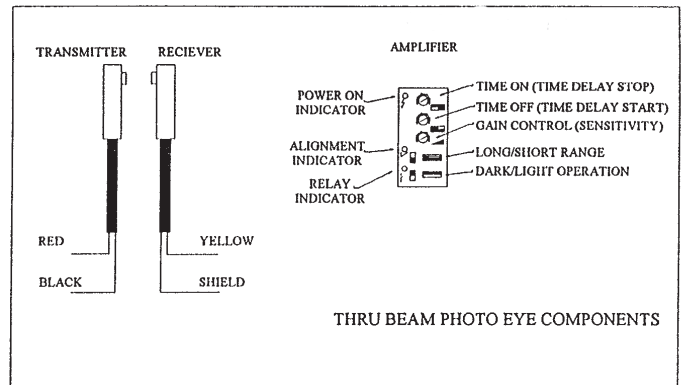


# SLAT BELT CONVEYORS

## PSC-10,12,14,16,18,20,22,24,26,28,30

### PARTS LIST, DRIVE COMPONENT & PHOTOEYE DIAGRAMS

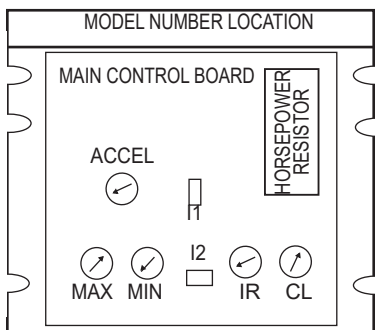
PART NAME	STOCK No.	ALADDIN Part No.
<b>ELECTRICAL CONTROL PARTS</b>		
1/2 H.P.D.C. Control board	514600	28399
1/2 H.P. Resistor	514610	N/A
Board armature fuse 6 amp	514750	N/A
Board line fuse 8 amp	514720	N/A
Breaking resistor	514740	N/A
Line fuse block	513900	N/A
Line fuse	513910	35276
Armature fuse	513892	N/A
Control relay	514100	N/A
Breaking relay	514200	N/A
Circuit breaker 15A	515110	N/A
Speed potentiometer	518300	N/A
Start push button	517310	N/A
Stop push button	517320	N/A
<b>PHOTOEYE COMPONENTS &amp; CONTROLS</b>		
Control transformer	514430	N/A
Photo elec. socket base	515360	N/A
Photo elec. amplifier 24V	515350	N/A
Slimline receiver	515310	N/A
Slimline transmitter	515320	N/A
Compact receiver	515330	N/A
Compact transmitter	515340	N/A
Foot switch	513650	N/A
Relay base double pole	515820	N/A
Relay double pole 24V ac	515830	N/A
Relay base three pole	515800	N/A
Relay three pole 24V ac	515830	N/A
Adapter buzzer (optional)	515900	N/A
<b>DRIVE COMPONENTS</b>		
1/2 H.P. DC motor	513250	35068
1/2 H.P. clutch 7/8" bore	518410	N/A
1/2 H.P. clutch sprocket	518420	N/A
Top drive sprocket	519010	28502
Snap idler (chain tensioner)	519130	N/A
Pillow bearing block 1" bore	519500	N/A
Flange bearing 1" bore	519530	N/A
821 Belt drive sprocket(plastic) 1" bore	518500	N/A
821 Straight run belt-10' length	519611	29247
Guide rail/flat top UHMW/SS (used with 821 straight system)	310800	N/A
Drive shaft 1" dia. 16½" S.S.	518510	N/A
Tail shaft 1" dia. 15¼" S.S.	518520	N/A



## CONVEYOR CONTROL BOARD LAYOUT

# ! WARNING

This product must be installed and serviced by qualified electrical personnel familiar with "SCR" controllers and the hazards involved. Failure to disconnect power before wiring and servicing and to connect proper ground wire may result in an electrical shock. If adjustments are made with the control door open and under power, insulated adjustment tools must be used and eye protection such as safety glasses must be worn.

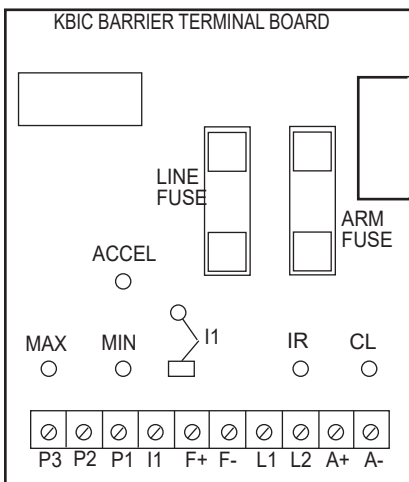


All Aladdin conveyor systems use the "KBIC" series DC current control boards. The control board takes an input voltage of 120V AC and converts it to a variable output of 0 to 90 V DC.

The input voltage is connected to terminals L1 and L2. The output is connected to terminals A+ and A-. Terminals A+ and A- connect to a permanent magnet DC motor

The main control board is provided with various trim pots. Listed below are the normal trim pot settings (expressed in percent of full CW rotation).

MIN ( Minimum speed)	0%	
Max ( Maximum speed)	60%	
IR ( IR compensation)	15%	
CL ( Current limit/Torque)	65%	
ACCEL ( Acceleration start)	50%	



### ELECTRICAL RATINGS FOR KBIC BOARDS

Model Number	AC Line Voltage	Motor Voltage (VDC)	AC Load Current (RMS Amps)	DC Load Current (Avg. Amps)	Max HP
KBIC-120	120	90-130	9.0	6.0	1/2
KBIC-125	120	90-130	12.0	8.0	3/4
*KBIC-120	120	90-130	18.0	12.0	1
*KBIC-125	120	90-130	24.0	16.0	1-1/2

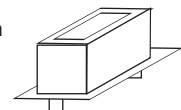
\*With auxillary heat sink

### PLUG IN HORSEPOWER RESISTOR

A plug in horsepower resistor must be installed to match the KBIC board to the motor horsepower and voltage.

HP Range armature voltage	Plug-in HP resistor resistance value (OHMS)
90-130	.025
1/2	.015
3/4	.01
1	

KB/Pn  
9841  
9842  
9843.

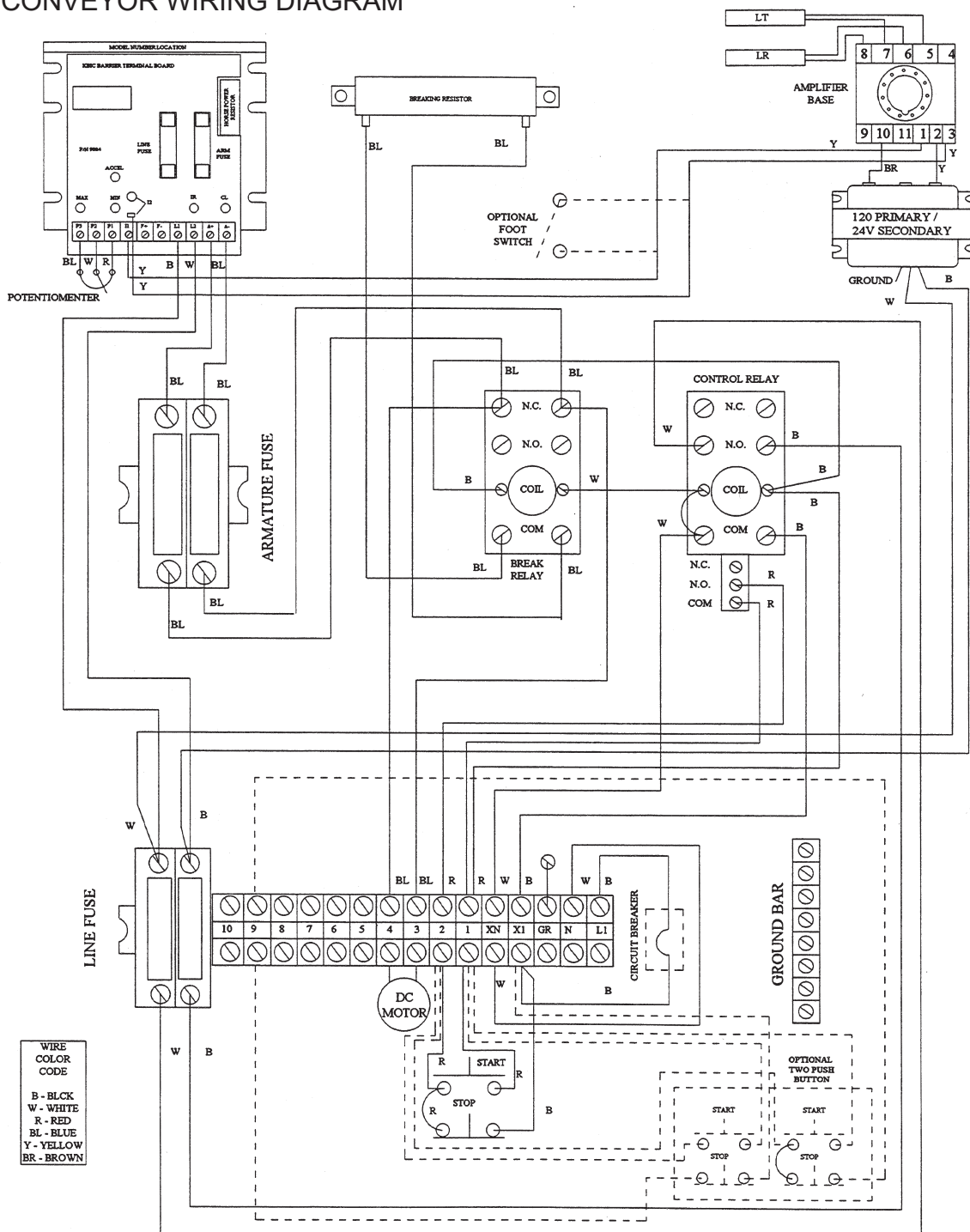


NOTE: The barrier board attaches to the main control board. To complete circuit "I1" a gray jumper must be attached from terminal "I1" on main control board to terminal "I1" on barrier board. Terminal "I2" is located on the main control board. The output voltage from the board which varies the motor speed is controlled by a 5000 ohm (5K) potentiometer. The potentiometer is connected across terminals Pi, P2 and P3 with the center wiper connected to P2.

# SLAT BELT CONVEYORS

## PSC-10,12,14,16,18,20,22,24,26,28,30

CONVEYOR WIRING DIAGRAM



# X. ELECTRICIANS ADJUSTMENTS TO CONTROLS

## CONVEYOR CONTROL BOARD INSTRUCTIONS AND ADJUSTMENTS

### WARNING

The modifications and adjustments to the control board described below must be performed and serviced by qualified electrical maintenance personnel familiar with "SCR" controllers and the hazards involved. Failure to disconnect power before wiring and servicing and to connect the proper ground wire may result in an electrical shock. If adjustments are made with the control door open and under power, insulated adjustment tools must be used and eye protection such as safety glasses must be worn.

### ADJUSTMENT AND CONTROL FUNCTIONS

The trimpot described on the control board layout page are preset at the factory however, if adjustments are necessary follow the directions given below.

#### ACCELERATION START:

This trimpot is factory set at 2 seconds and should not be adjusted. This is the amount of time it takes the conveyor to restart after the inhibit circuit has been opened.

#### MAXIMUM SPEED ADJUSTMENT:

Turn speed control knob (potentiometer) to full speed (maximum CWW position). Adjust maximum speed to the new desired setting. **NOTE!** The maximum speed pot has been factory adjusted to provide a maximum travel rate of 40' per min. If trimpot is adjusted **DO NOT** adjust above 90V DC across terminals A+ and A-. If armature voltage is exceeded premature motor failure can occur and void factory warranty.

#### MINIMUM SPEED ADJUSTMENT:

If a higher than zero minimum speed is desired, readjust the minimum speed by turning the speed control knob (potentiometer) to the zero setting (full CCW position). Adjust the minimum speed trimpot to the desired setting. Adjusting the minimum speed setting will effect the maximum speed setting as well. After adjusting the minimum speed, it will be necessary to readjust the maximum speed. It may be necessary to repeat the sequence until both the minimum speed and the maximum speed are at the desired levels.

#### CURRENT LIMIT (CL/torque adjustment):

"CL" circuitry is provided to protect the motor and control against overloads, the "CL" limits the inrush current to a safe level during startup. The "CL" is factory set to approximately 1.5 times the full load rating of the motor. ("CL" trimpot is nominally set to approximately 75% of full CW rotation.

**NOTE!** The correct value horsepower resistor must be installed in order for the "CL" and "IR" comp to operate properly.

To set the "CL" to factory settings adjust as follows:

1. Set speed control knob to approximately 30-50% CW rotation. Set "CL" trimpot to full CCW position.
2. Connect a DC ammeter in series with the armature lead.
3. Lock shaft of motor (be sure "CL" is in full CCW position). Apply power and rotate "CL" pot CW slowly until ammeter reads 1.5 TIMES motor rating (**DO NOT EXCEED 2 TIMES THE MOTOR RATING**).

**NOTE!** If only an AC ammeter is available, it can be installed in series with the AC input line. Follow above instructions; However, set AC amperage at .75 TIMES motor rating.

# SLAT BELT CONVEYORS

## PSC-10,12,14,16,18,20,22,24,26,28,30

### IR COMPENSATION ADJUSTMENT:

"IR" compensation is provided to substantially improve load regulation. If the load presented to the motor does not vary substantially, the "IR" adjustment may be set at minimum level (approximately 1/4 of full setting). The control is factory adjusted to approximately 3% regulation. If superior performance is desired (less than 1% speed change of base speed from 0 to full load), then the "IR" comp should be adjusted as follows:

**NOTE!** Excessive "IR" compensation will cause the control to become unstable and result in motor cogging (belt will jump)

1. Set the "IR" trimpot to approximately 25% of CW rotation. Run motor unloaded at approximately 1/3 speed and record RPM.
2. Run motor at maximum load and adjust the "IR" comp trimpot so that the motor speed underload equals the unloaded speed per step 1.
3. Remove load and recheck unloaded RPM. If unloaded RPM has shifted, repeat procedure for more exact regulation.

THE CONTROL IS NOW COMPENSATED TO PROVIDE MINIMAL SPEED CHANGE UNDER LARGE VARIATIONS OF APPLIED LOADS.

### SWITCHING CIRCUITS

The following information addresses the ways that the system can be turned "ON" and "OFF". "AC" line switching, armature switching and dynamic braking.

#### "AC" LINE SWITCHING:

The control board can be turned "ON" and "OFF" by shutting the power supply to the system. This is done by pushing the "START" and "STOP" buttons on the main control panel. The "AUTO INHIBIT" circuitry contained in the control board automatically resets critical components each time the "AC" line is interrupted. This along with acceleration start and "CL", provides a smooth start each time the "AC" line is connected.

**WARNING:** DO NOT DISCONNECT AND RECONNECT THE ARMATURE WITH THE "AC" LINE APPLIED OR CATASTROPHIC FAILURE WILL RESULT VOIDING WARRANTY.

#### ARMATURE SWITCHING:

If the armature is to be disconnected and reconnected with the "AC" power applied the inhibit circuit must be simultaneously activated and deactivated. Connect "I1" and "I2" together to activate the inhibit circuit. The limit switch device installed on your conveyor is wired through this "I1" and "I2" circuit. When servicing be sure to check the wiring diagram to ensure that the circuit is reinstalled properly. THIS IS A NO LOAD INTERNAL TAP TO THE CONTROL BOARD AND IS NOT DESIGNED TO DRIVE A LOAD.

#### DYNAMIC BRAKE:

The system is provided with a 10 ohm / 70 watt breaking resistor which is connected across the breaking contact, or when the "AC" line voltage is broken on the system the contacts of the breaking resistor distribute the extra electrical energy generated by the motor across the resistor. This causes an instant stop to the system. **NOTE!** This dynamic brake is not energized during armature switching.

#### REVERSING:

The conveyor belt used on these systems are not designed to operate in both directions. Check the directional travel arrow on the bottom side of the belt. If for service purposes the belt becomes jammed the system may be reversed. To reverse the system swap the wire leads on terminals A+ and A- turn the speed control to a minimal setting and slowly reverse the belt until the jamb has been cleared. Replace the wires on terminals A+ and A- to their original position.

## XI. SERVICE

In the event service is required on your Aladdin Slat Belt Conveyors please call:  
ALADDIN TEMP RITE SERVICE DEPARTMENT AT 1-800-888-5426

# XII. WARRANTY

## ALADDIN TEMP-RITE® EQUIPMENT LIMITED WARRANTY

Effective August, 2022

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*		COMPRESSOR WARRANTY TERM* PARTS ONLY**
	PARTS	LABOR	
SLAT BELT CONVEYOR	1 YEAR	1 YEAR	NA

\*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. 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 States 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.

FOR PARTS & SERVICE CALL 1 (800) 888-5426

***Aladdin Temp-Rite***<sup>®</sup>

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