

# Technical Manual and Replacement Parts List

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## Refrigerated Salad Dispenser



**MODEL: SKDL18-RDUS4**

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**SILVER KING**®

FORM NO. 45374 REV A 3/2019

Specifications Subject to Change Without Notice.



**TECHNICAL MANUAL**  
**SILVER KING REFRIGERATED SALAD DISPENSER**  
**MODEL SKDL18-RDUS4**

Thank you for purchasing Silver King food service equipment. Our goal is to provide our customers with the most reliable equipment in the industry today. Please read this manual and the accompanying warranty information before operating your new Silver King unit.

**INSPECT FOR DAMAGE AND UNCRATE**

Upon delivery of your new Silver King unit, uncrate at once to examine and test for possible damage following the instructions printed on the exterior of the container. Report any damages to the carrier responsible for transportation and promptly present a claim for any evidence of mishandling. Save all packaging materials if a claim must be filed.

**PRECAUTIONS BEFORE USING THIS PRODUCT**

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- Use caution when cleaning the condenser, the fins are very sharp.
- For units with a dual hertz rating, no adjustments are required for normal operation.
- If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- This refrigeration unit is not intended to be used at altitudes higher than 2000 meters.
- Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.
- Do not exceed the maximum load capacity of 100 pounds per drawer.
- Use caution when moving, installing, maintaining and using this refrigeration device to avoid either damaging the refrigerant tubing or increasing the risk of a leak.
- All component parts must be replaced with like components and all servicing must be done by factory authorized service personnel, so as to minimize the risk of possible ignition due to incorrect parts or improper service.
- If the unit has recently been transported on its side (or placed horizontally), then please let unit stand with the casters (or feet) on the ground for a minimum of 24 hours before plugging it in.



**WARNING:** This product can expose you to chemicals including lead, which are known to the State of California to cause cancer, birth defects, or other reproductive harm.

## **INSTALLATION**

The stainless steel exterior of the cabinet has been protected by a plastic covering during manufacturing and shipping. This covering can be readily stripped before installation. After removing this covering, wash the interior and exterior surfaces using a warm, mild soapy water solution and a sponge or soft cloth. Rinse afterward with clean water and wipe dry. Do not use chlorinated cleaners.

### **Location**

When locating your new refrigerator, convenience and accessibility are important considerations, but the following installation guidelines must be followed:

- Always avoid placing the refrigerator adjacent to an oven, heating element or hot air source that would affect the operation of the unit.
- For proper ventilation, the bottom front and rear of the unit must not be obstructed. The unit must be on legs or casters to raise it off the floor. The unit can be installed tight on the sides.
- The unit must be level or tilted backwards slightly.

### **Legs/Casters**

The unit comes with legs or casters installed. Periodically inspect the casters to assure they are mounted tightly.

### **Drawers**

To remove the drawers for cleaning, simply open them fully, release white tabs, and lift up on the front of the drawer to remove the front wheels from the drawer tracks, continue to slide the drawer out until the rear wheels reach the end of the tracks and lift the drawer out of the tracks. To reinstall the drawer, insert the rear wheels of the drawer into the drawer tracks and slide the drawer back until the front wheels on the drawer can be inserted into the track, push the drawer into the cabinet, pull the drawer back out and press the white tabs back into the locked position. The drawer pans can be removed by lifting them out with the drawer extended. The rolling drawer tracks can be removed for cleaning when the drawers are removed from the cabinet. Pull each track out half way, push the gray tab on the inside rear of the track back, and pull the track out. The drawer slide system is rated for a maximum load of 100 pounds. The drawers are not designed for or intended to be used as a surface to stand on. At no time should the drawers be extended and used as a platform for standing on to reach elevated equipment.

### **Energy Rating**

Your Silver King refrigerator has a class 5 energy rating. The refrigerator was tested at an ambient temperature of 40°C at 40% relative humidity.

**Electrical Connections**

Be sure to check the data plate, located on the liner of the cabinet, for required voltage prior to connecting the unit to a power source. The specifications on the data plate supersede any future discussion.

The standard unit is equipped with an eight (8) foot power cord that requires a 115 Volt, 60 Cycle, 1 Phase properly grounded electrical receptacle. The power cord comes with a 3 prong plug for grounding purposes. Any attempt to cut off the grounding spike or to connect to an ungrounded adapter plug will void the warranty, terminate the manufacturers responsibility and could result in serious injury.

The circuit must be protected with a 15 or 20 ampere fuse or breaker. The unit must be isolated on a circuit and not plugged into an extension cord.

**OPERATION**

Initial Start Up:

After satisfying the installation requirements, the unit is ready to start. The unit will start when the power cord is connected to the required power source and the Power Switch is turned on. Allow the unit to run a minimum of two hours before loading it with product.

**Temperature Control**

The Electronic Temperature Control is located on the front of the unit. To check the temperature control set point, push and release the 'set' button on the control and the display will show the set point temperature. To adjust the set point, push and hold the 'set' button until display blinks, then push the up or down arrows to adjust the set point. Either press the 'set' button again or wait 10 seconds and the control will store the new set point. Allow the unit a minimum of one hour to respond to a control setting adjustment.

**Defrost:**

The SKDL18-RDUS4 Lettuce Dispenser is a manual defrost unit. The unit should be defrosted whenever the walls accumulate a frost/ice bank that is 1/4 inch thick. To defrost the unit, first remove any food products, then turn off the Power Switch, and open the Drawers. After the frost/ice has melted or come loose from the cabinet walls, wipe out the cabinet interior with a dry cloth or sponge. Do not attempt to scrape or chisel off the frost/ice as you could do irreparable damage to the cabinet.

**MAINTENANCE**

Preventative maintenance is minimal although these few steps are very important to continued operation and maximizing the life of the appliance.

**Cabinet Surfaces**

The cabinet interior and exterior are stainless steel. These surfaces should be cleaned periodically with a solution of warm water and mild soap. After cleaning the surfaces should be rinsed with clean water and wiped dry with a soft cloth. Stainless steel cleaners can be used. Should a surface become stained, do not attempt to clean with an abrasive cleaner or scouring pad. Use a soft cleanser and rub with the grain of the metal to avoid scratching the surface. Always rinse well and dry after cleaning. Do not use chlorinated cleaners.

**Condenser**

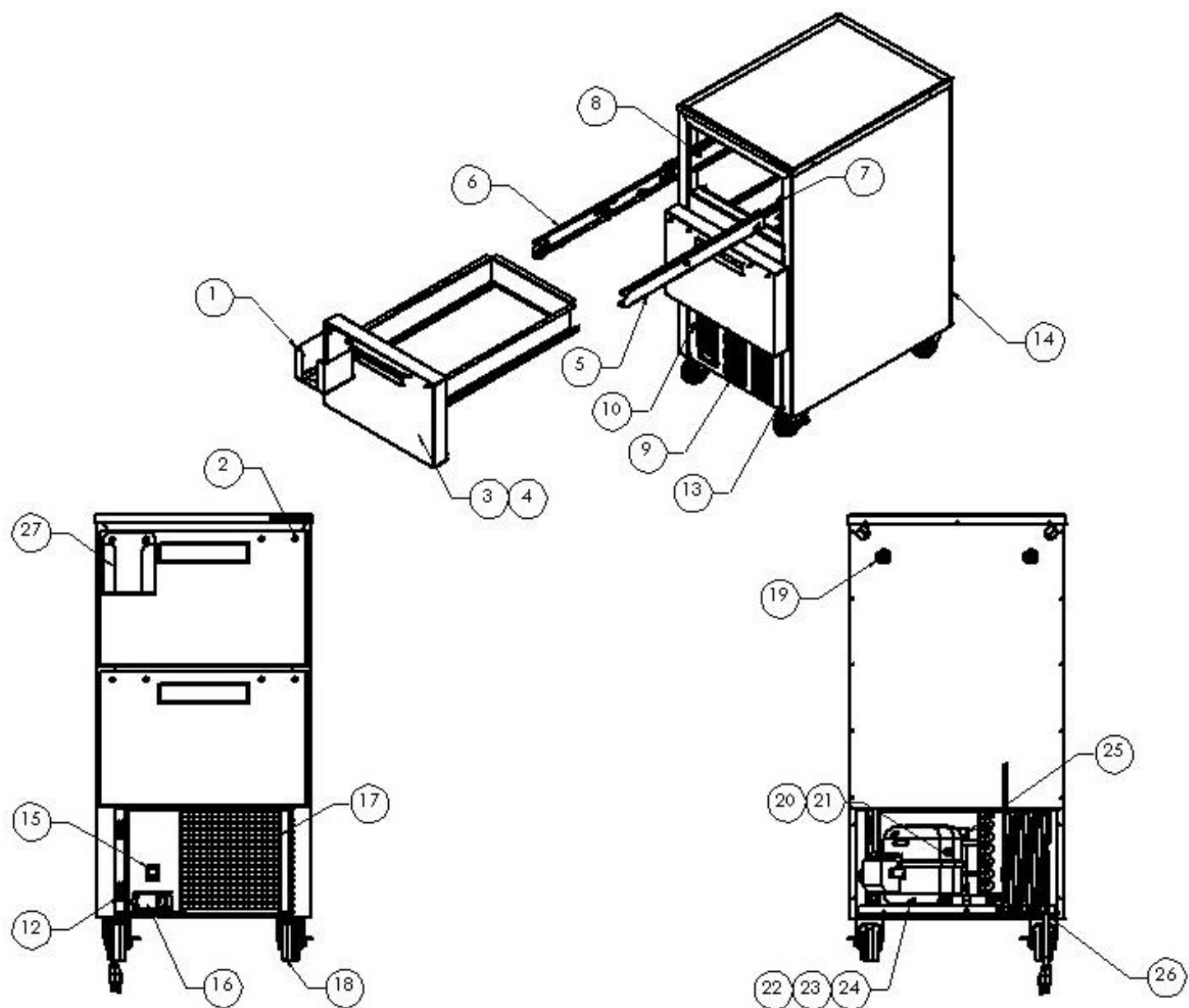
Periodically, dust on the condenser coil must be cleaned. The condenser is located behind the front cover at the right front of the unit. Remove the front cover by pulling on the bottom edge of the cover. The condenser will be exposed. Clean the accumulated dust/debris from the condenser with a vacuum or brush or chemical cleaning agent (Nu-Calgon 4171-75 or equivalent). This will need to be done regularly to maintain the compressor warranty!

**WARNING: The condenser fins are very sharp, use caution when cleaning the condenser.**

**Casters**

Check to make sure that the casters are installed tightly to the cabinet.

MODEL \_\_\_\_\_ SERIAL NO. \_\_\_\_\_ DATE INSTALLED \_\_\_\_\_



# REPLACEMENT PARTS LIST - SKDL18-RDUS4

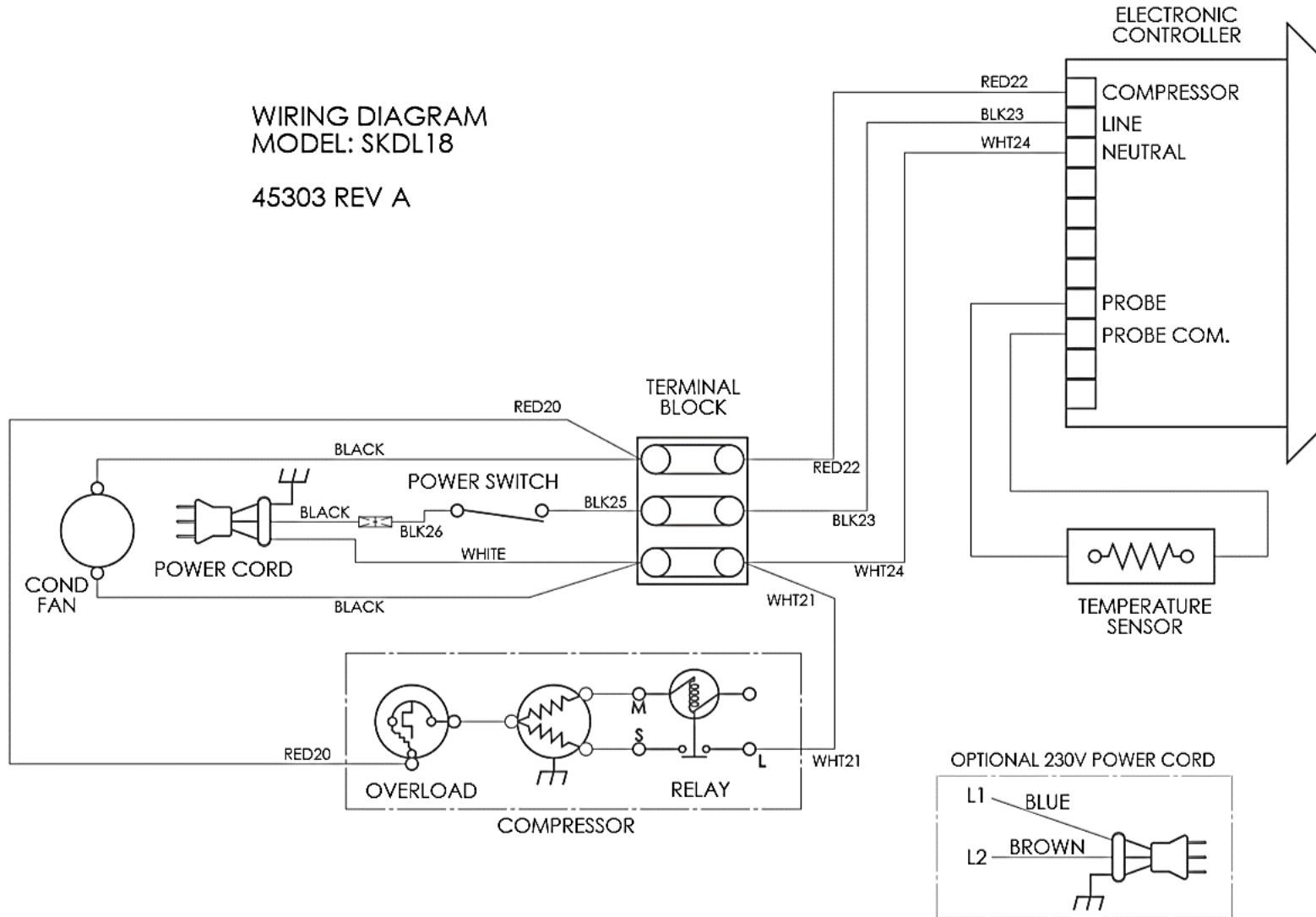
ITEM NO.	PART DESCRIPTION	PART NO.
1	SCOOP HOLDER	38666
2	SCREW SHOULDER	99971
3	DRAWER ASSEMBLY COMPLETE	39293
4	GASKET DRAWER	38542
5	DRAWER SLIDE CENTER RH	10451-05 KIT (1 DRAWER)
6	DRAWER SLIDE CENTER LH	
7	CABINET SLIDE RH	
8	CABINET SLIDE LH	
9	FRONT COVER (WITHOUT KNOB)	38551
10	KNOB FRONT COVER	99474
11	PROBE TEMPERATURE CONTROL (NOT SHOWN)	38822
12	MAGNET FRONT COVER	38786
13	HINGE BOTTOM FRONT COVER	38633
14	BACK PANEL	38549
15	POWER SWITCH	39431
16	TEMPERATURE CONTROL (PROGRAMMED)	38888
17	CONDENSER COIL	43393
18	3" CASTER KIT	10314-63
19	BUMPER REAR	99574
20	COMPRESSOR KIT (W/ ELECTRICALS) 115V	10343-98
21	COMPRESSOR ELECTRICAL KIT 115V	10344-98
22	GROMMET COMPRESSOR MOUNT	20481
23	WASHER COMPRESSOR MOUNT	22401
24	HAIRPIN CLIP COMPRESSOR MOUNT	98106
25	FAN CONDENSER 115V	37736
26	POWER CORD 115V	38928

FORM 45373

WHEN ORDERING REPLACEMENT PARTS, PLEASE PROVIDE MODEL AND SERIAL NUMBERS.

WIRING DIAGRAM  
MODEL: SKDL18

45303 REV A



# Thermistor Field Testing

Thermistor Part Number [38822](#). See form M164 for the standard operating procedure.

- **Establish Thermistor Temperature**

- Check the display's temperature reading.
- If a thermometer is available, use it to confirm the display's temperature reading by taking the temperature at the thermistor.
- If the previously stated tasks are unavailable, then use any reasonable means to estimate the thermistors temperature.

- **Multimeter Set-up**

- Use a multimeter and set it to the resistance ( $\Omega$ ) setting. See Figure 1.
- Disconnect the thermistor from the controller, then connect the multimeter to the thermistor. See Figure 1.
- Check and compare the multimeter's reading to Table 1.

- **Analyze Results**

- If the resistance and temperature are similar, then the thermistor is working properly and does not need to be replaced.
- If the resistance and temperature are not similar or the resistance's value is not on Table 1, then the thermistor is not working properly and needs to be replaced.
- If the resistance reads over-limit, then the thermistor is not working properly and needs to be replaced.

Table 1

Temp (°F)	Ohms (k $\Omega$ )	Temp (°C)
-22.0	114.56	-30
-18.4	103.18	-28
-14.8	93.07	-26
-11.2	84.06	-24
-7.6	76.03	-22
-4.0	68.87	-20
-0.4	62.46	-18
3.2	56.71	-16
6.8	51.56	-14
10.4	46.94	-12
14.0	42.78	-10
17.6	39.04	-8
21.2	35.66	-6
24.8	32.62	-4
28.4	29.86	-2
32.0	27.37	0
35.6	25.11	2
39.2	23.06	4
42.8	21.20	6
46.4	19.51	8
50.0	17.98	10
53.6	16.58	12
57.2	15.3	14
60.8	14.13	16
64.4	13.07	18
68.0	12.09	20
71.6	11.20	22
75.2	10.38	24
78.8	9.63	26
82.4	8.95	28
86.0	8.31	30
89.6	7.73	32
93.2	7.20	34

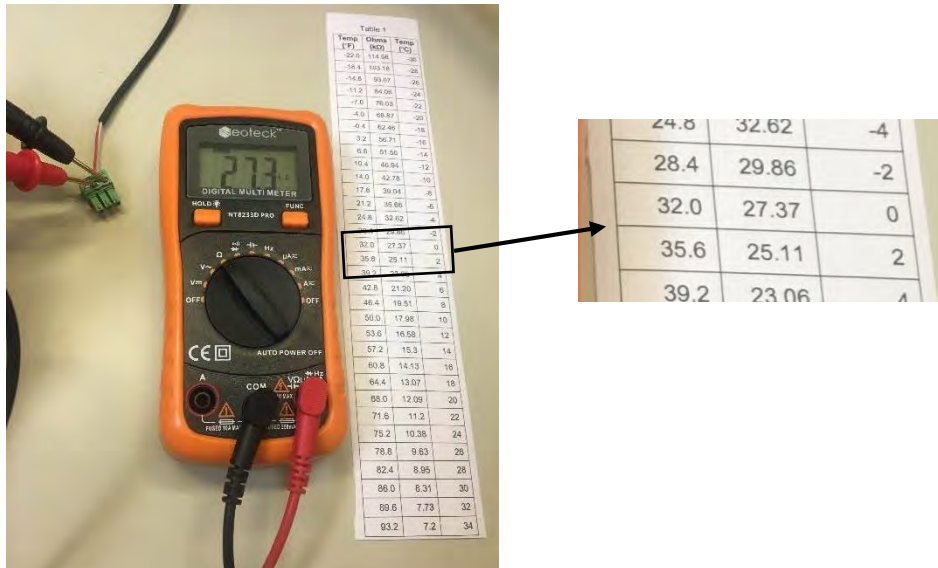


Figure 1

# SILVER KING LIMITED WARRANTY

## LIMITED WARRANTY

Silver King warrants to the original purchaser of Silver King refrigerated Equipment (as defined below), that the Equipment shall be free from defects in material and workmanship under normal use and service as outlined in the Technical Manual. This limited warranty shall apply for a period of time not to exceed the earlier of the following: one (1) year from the date of original purchase of the Equipment or 18 months from date of production of the Equipment. Equipment includes General Market Refrigeration units and excludes all Dispensing and Custom Holding Refrigeration or extended agreements whose written terms are conditional at time of sale or contract. All warranties are subject to specific limitations outlined below.

This limited Equipment warranty does not apply to:

- Repair or replacement required as a result of carelessness or neglect.
- Improper installation, incorrect voltage supply, modifying, tampering with or altering components and/or Equipment.
- Failure to perform proper maintenance. Equipment damaged in transit, by fire, flood or an act of God is not covered.
- Unit is compromised by adding excess weight or adhering non-approved components to the frame.
- Combining the equipment with hardware, fixtures, accessories or other equipment not provided by Silver King.
- Misuse of the Equipment or use of the Equipment not in accordance with the Technical Manual.
- Warranty excludes consumables or replacement components such as shelving, trays, gaskets, etc.
- Warranty excludes interior liner or exterior shell.

The limited Equipment warranty does not include freight, handling, installation, labor (following the one (1) year labor warranty period) or other incidental or consequential costs including product and/or economic loss. This limited Equipment warranty is in lieu of all other warranties, express or implied, are hereby disclaimed and excluded including those of merchantability, and fitness for a particular purpose. This limited Equipment warranty is non-transferable. Specific provisions of this limited Equipment warranty are as follows:

### 90 DAY REPLACEMENT PARTS WARRANTY

Silver King warrants to the original Equipment purchaser that a replacement OEM part thereof will be free of defects in material and workmanship, under normal use and service, for a period of 90 days from the date of original purchase of such replacement OEM part subject to all terms and conditions herein.

### Three (3) Year Drawer Slide Warranty

Silver King warrants to the original Equipment purchaser for a period of time not to exceed the earlier of the following: three (3) years from the date of original purchase of the Equipment or three (3) years and six (6) months from the date of shipment from the factory of the equipment, that it will replace the drawer slides with one of similar design and capacity, exclusive of delivery and installation charges, if it is found in Silver King's review to be inefficient or inoperative due to defects in material or factory workmanship.

### FIVE (5) YEAR COMPRESSOR WARRANTY

Silver King warrants to the original Equipment purchaser for a period of time not to exceed the following: five (5) years from the date of original purchase of the Equipment or five (5) years and six (6) months from the date of shipment from the factory of the Equipment, that it will replace the compressor with one of similar design and capacity, exclusive of delivery and installation charges, if it is found subject to Silver King's review to be inefficient or inoperative due to defects in material or factory workmanship. It is the original purchaser's responsibility to return the serial plate of the defective compressor, or at Silver King's option the complete compressor, to the factory. Failure to do so will void this limited compressor warranty. This limited compressor warranty shall be limited to parts only after the LIMITED WARRANTY period applicable to the Equipment has expired.

This limited Equipment warranty is limited to repairing or replacing any parts that, at Silver King's discretion, are deemed to be defective within the time period covered by this warranty. The 90 day parts warranty covers standard

freight and handling charges. Special handling charges or expedited means for transport are excluded from reimbursement. Use of non-OEM parts may, at Silver King's discretion, void this warranty. If approved, warranty credit for non-OEM parts will be issued at the OEM cost. Replacement parts sold separately are warranted for 90-days from date of purchase.

### ADDITIONAL WARRANTY GUIDELINES:

A factory issued Service Authorization Number must be obtained prior to work being performed under the one (1) year labor warranty. Contact your supplier or Silver King. Claims submitted without a Service Authorization Number will be paid at Silver King's discretion. The labor warranty includes standard straight time labor charges in accordance with Silver King's Labor Warranty Guidelines and reasonable travel time, as determined as determined in the Silver King time – rate guide.

Silver King, at its discretion, may request photos during or prior to service being dispatched to validate a technical issue. Failure to comply with the request may result in the cost of service being the responsibility of the service requestor or site.

The limited labor warranty does not cover original installation, startup, normal adjustments or maintenance. Normal adjustments and maintenance include, but are not limited to: temperature control adjustments, temperature indicator calibrations, coil and filter cleaning, or condensate drain cleaning.

A second service call for a related failure is not covered.

Use of refrigerants other than specified on the Equipment serial plate voids the warranty. All claims must include; model and serial number of equipment, date of purchase, date of failure, and a copy of the service invoice detailing the defect and service performed. No claim will be processed without this information. All claims must be filed within 30 days from date of service.

### PRODUCT ORDERING INFORMATION

Call us toll free at 1-800-328-3329 or 1-763-923-2441 Fax us at 1-763-553-1209

Visit [www.silverking.com](http://www.silverking.com) for stocking distributor, equipment specs and current price list for your area.

### SERVICE / PARTS ORDERING INFORMATION

Call us toll free at 1-800-328-3329, prompt 1 or 2

### TERMS AND CONDITIONS

- This price list and conditions are effective January 1, 2019 and supersedes all previous pricelists.
- LIMITED WARRANTY period may vary from customer to customer and is contract specific.
- All prices reflect payment in U.S. Dollars.
- Prices do not include any freight, duty, or taxes.
- Pricing subject to change without notice.
- No returns are accepted without prior written approval from the factory. An RMA (Returned Merchandise Authorization) form must be completed and then approved by Silver King. Please contact Silver King for details. Restocking fee will apply.
- All electrical equipment is single phase.
- Prices, designs, and specifications are subject to change without notice.
- Payments via credit card are subject to a 3% surcharge.

Silver King  
1600 Xenium Lane, Plymouth, MN 55441-3706  
[www.silverking.com](http://www.silverking.com) • 1-800-328-3329

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