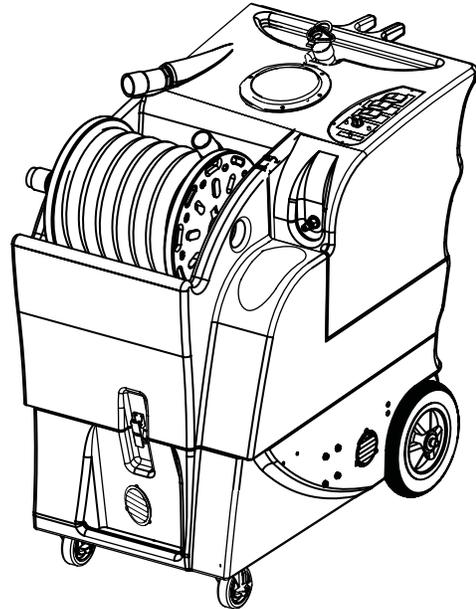


KING COBRA® 150 120V

INFORMATION & OPERATING INSTRUCTIONS



**DO NOT OPERATE MACHINE UNTIL YOU HAVE READ
ALL SECTIONS OF THE INSTRUCTIONS
IMPROPER USE OF THE MACHINE WILL VOID THE WARRANTY**

1. Always use a defoamer when foaming occurs to prevent vacuum motor damage.
2. Keep machine from rain and snow, extremes in temperatures, and store in a heated location. Use the machine indoors only.
3. Do not let pump run dry.
4. Use approved chemicals only. NO SOLVENTS.
5. Wear gloves or use rags when removing quick disconnects to prevent burns.
6. Never use water over 130 °F/ 54°C in the solution tank.

IMPORTANT SAFETY INSTRUCTIONS

This machine is only suitable for commercial use, for example in hotels, schools, hospitals, factories, shops and offices other than normal residential housekeeping purposes.

When using any electrical appliance, basic precautions should always be followed, including the following:

NOTE: Read all instructions before using this machine.



WARNING!

To reduce the risk of fire, electric shock, or injury:

- Do not leave the machine unattended when it is plugged in. Unplug the unit from the outlet when not in use and before servicing.
- To avoid electric shock, do not expose to rain or snow. Store, and use, indoors.
- Do not allow to be used as a toy. Close attention is necessary when used near children.
- Use only as described in this manual. Use only the manufacturer's recommended attachments.
- Never add water over 130 °F/54 °C to the solution tank.
- Do not use with damaged cord or plug. If the machine is not working as it should, has been dropped, damaged, left outdoors or dropped into water, return it to a service center.
- Do not pull by the cord, use the cord as a handle, close a door on the cord, or pull the cord around sharp edges or corners. Do not run the machine over the cord. Keep the cord away from heated surfaces. To unplug, grasp the plug, not the cord.
- Do not handle the plug, the cord, or the machine with wet hands.
- Extension cords must be 12/3 and no longer than 50 feet. Replace the cord or unplug immediately if the ground prong becomes damaged.
- Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair, and anything that may reduce air flow.
- Keep loose clothing, hair, fingers, and all parts of body away from openings and moving parts.
- Do not pick up anything that is burning or smoking, such as cigarettes, matches, or hot ashes, or any health endangering dusts. Do not use to pick up flammable or combustible liquids such as gasoline or use in areas where they may be present.
- Turn off all controls before unplugging.
- Use extra care when cleaning on stairs.
- Connect to a properly grounded outlet only.
- Liquid ejected at the spray nozzle could be dangerous as a result of its temperature, pressure, or chemical content.

INSPECTION:

Carefully unpack and inspect your KING COBRA-150 for shipping damage. Each machine is tested and inspected before shipping. Any shipping damage incurred is the responsibility of the carrier. You should notify the carrier immediately if you notice damage to the box or to the machine or parts.

CLEANING SOLUTIONS:

We recommend liquid cleaning chemicals. Powder chemicals may be used, but unless mixed very thoroughly they could cause a build-up in the pump, lines, heat exchanger, and/or quick disconnects. Any problem caused by a chemical build-up is not covered by warranty. Use a neutral cleaner with a pH between 5 and 10 to avoid premature wear of the pump, seals, and/or other components.

MAINTENANCE:

For optimum performance flush the machine with clear water at the end of each working day. Once a month, minimum, run a flushing compound through the machine to break up any mineral or chemical build-up that may have formed. The vacuum motor and the pump do not require any scheduled maintenance; however, the motor may require replacement brushes after 1000 - 1500 hours. Clean the body with an all-purpose detergent, and protect it with an automobile interior polish. Lubricate the wheels, castors, and quick disconnects with an all purpose silicone spray.

NOTE: This machine is only suitable for commercial use, for example in hotels, schools, hospitals, factories, shops and offices other than normal residential housekeeping purposes.

Record the serial number and model of your new extractor here:

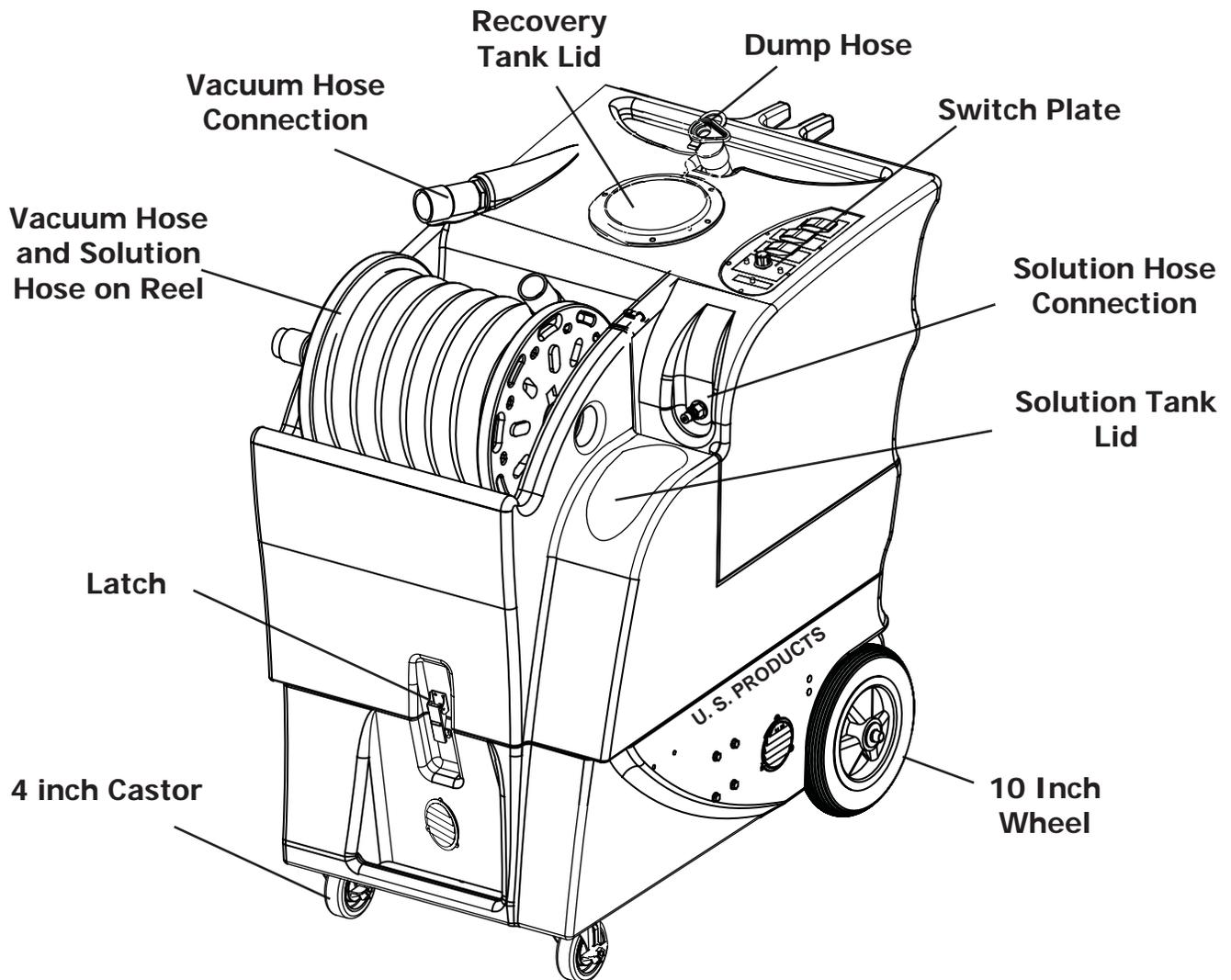
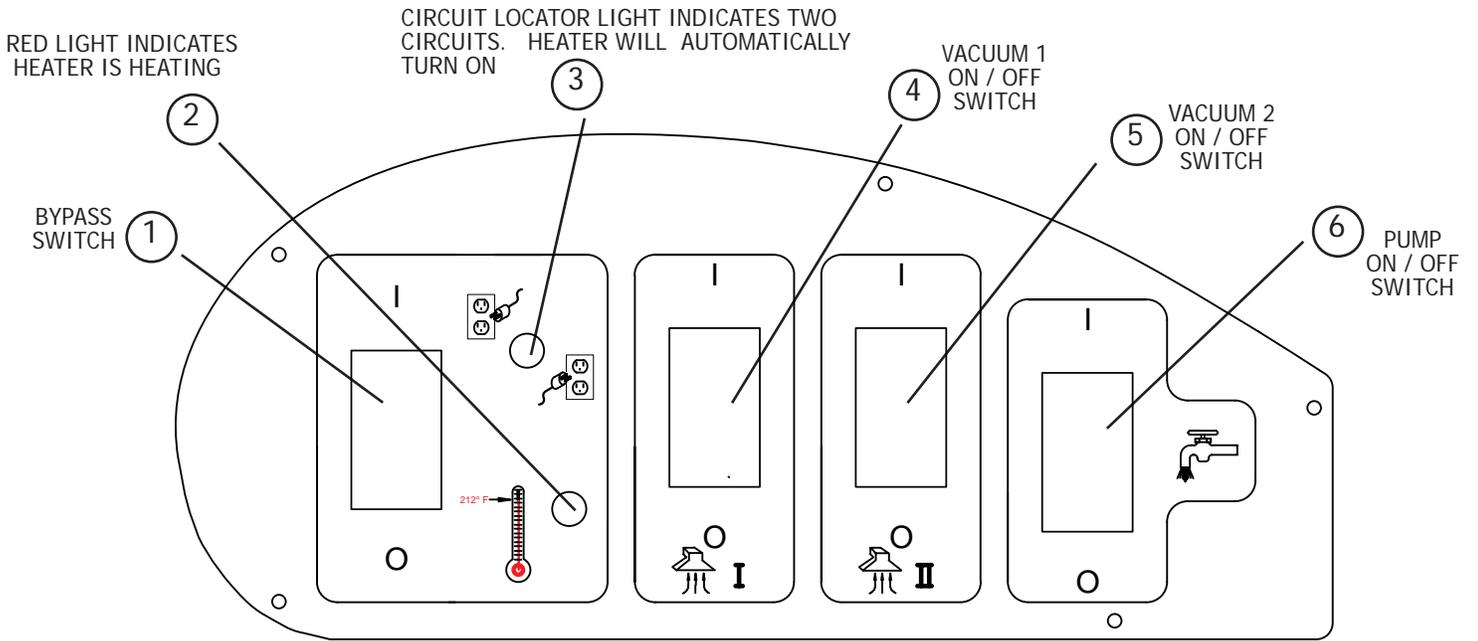
(and be sure to register your purchase to activate your warranty)

Serial Number: _____ **Model:** **KING COBRA-150**

Purchase Date: _____

Write the name and phone number of your distributor: _____

SWITCH PLATE



OPERATION

- 1 Inspect the machine, hoses, and cleaning tools for cleanliness and completeness.
- 2 Fill the solution tank with water. Using warm water may be a benefit in cleaning effectiveness, but do not use hot water (above 130 °F/54 °C) in the tank.
- 3 Plug in the power cords. Do not connect both cords to the same outlet; the green, circuit locator light (3) on the switch plate should light up. If the locator light does not come on, try different outlets with one of the cords until it does. If you are certain the cords are on separate circuits, but the green light still does not light up, turn on the Bypass switch (1). **CAUTION:** using the bypass switch when the cords are on the same circuit may cause the circuit breaker in the wall to trip. **NOTE:** the receptacle on the left (viewed from behind the machine) powers the heater. The red light (2) will come on when the heat exchanger is actively heating.
- 4 Add liquid cleaning solution, with a pH of between 5 and 10, to the solution tank.
- 5 Attach the spray hose to the solution quick disconnect and the vacuum hose to the hose barb on the recovery tank. Pull the hoses off the reel to the desired length. Attach the other ends of the hoses to the cleaning tool.
- 6 Allow the heat exchanger two minutes to reach operating temperature.
- 7 Turn on the pump (6). Turn on the vacuums (4 & 5).
- 8 Begin cleaning using the correct hoses and tool. Spray about three strokes, then stop spraying and do a vacuum only pass over the area just wetted. Move on to the next area. Spray for only 8-10 seconds on each spray pass.
- 9 Use defoamer in the recovery tank any time foaming occurs.
- 10 Monitor the water level in the solution tank. Do not let the pump run dry.
- 11 When the solution tank gets low, turn both the pump, and the vacuums off, fill the solution tank, empty and clean the recovery tank.
- 12 When finished with the job, remove any unused solution from the solution tank, and run a few gallons of clean water through the system. Drain the recovery tank by placing the dump hose into a bucket or drain, and then remove the cap.

DUAL CORD SENSOR CIRCUIT:

This unique, patented system is operated by a solid state circuit. It will inform the operator when the two cords are plugged into separate circuits by turning on the green, circuit locator light. This helps to prevent tripping circuit breakers. **NOTE:** if the circuit locator light does not illuminate when the cords are plugged in, then both cords are on the same circuit. Try other outlets with one of the cords until you get the locator light to come on. **NOTE:** if the bypass, or heat, switch is turned on when both cords are on the same circuit, the breaker may trip.

BYPASS SWITCH:

The bypass switch completely bypasses the circuit locator. Use this feature when you cannot get the green light to come on and you believe that the two cords are on separate circuits.

CAUTION: If the bypass switch is on and the two cords are plugged into the same circuit, the breaker may blow.

BALL FLOAT VACUUM SHUT-OFF:

Prior to using the machine, always check that the float filter is clean and the ball can travel freely. When the recovery tank is full, the ball float will rise and will shut off the vacuum flow to prevent any more water from entering the tank. When this occurs, turn off the vacuum and empty the recovery tank.

NOTE: if foam is present, or if the ball float is prevented from rising, the float will not be able to stop the air flow,

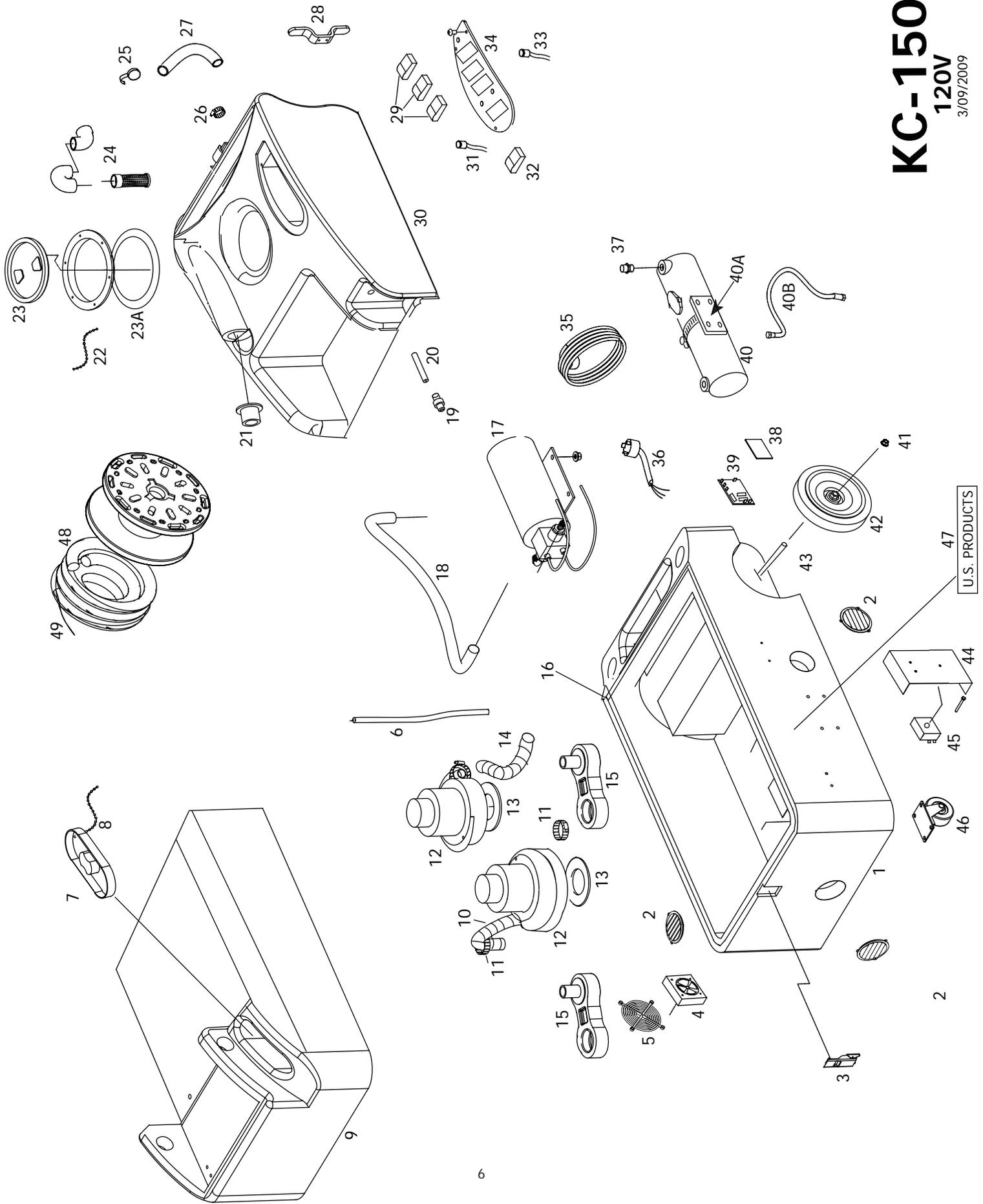


CAUTION: Use care when handling hazardous chemicals.

CAUTION: Never leave the machine running when you are not actively using it.

CAUTION: Always use a defoamer when foaming occurs to prevent vacuum motor damage.

DANGER: Do NOT use solvents, or any chemicals that may be flammable, explosive or combustible.



KC-150

120V
3/09/2009

U.S. PRODUCTS

KING COBRA-150

120V

PART LIST

<u>ITEM</u>	<u>PART No.</u>	<u>DESCRIPTION</u>	<u>ITEM</u>	<u>PART No.</u>	<u>DESCRIPTION</u>
1	BKCR-BLK	Base, KC, black,	26	156	Hose clamp
2	928	Louver, 3"	27	1060B	Hose, dump
3	908A	Latch	28	CWKC-BLK	Cord wrap
4	2014	Fan, 100CFM, Cooling	29	FP345	Switch, SPST
5	2015	Guard, fan	30	VKCR1	Tank, vacuum, white
6	925	Hose, pump inlet, 3/8" X 24"	31	78	Light, green, 120V
7	901B	Lid, solution tank	32	FP346	Switch, bypass
8	805	Chain, 8"	33	78B	Light, red , 120V
9	HKCR1	Tank, holding, KC, white	34	978B	Switch plate, KC-150
10	430	Hose, exhaust, 2" X 9"	35	1057B	Cord, power, 12/3, 25 ft.
11	156	Hose clamp	36	1062	Receptacle, power cord
12	408	Vacuum motor, 2-stage, 120V	37	223	Quick disconnect, male, 1/8 p.t.
13	2013	Gasket, vacuum	38	FP336	PCB mount
14	430	Hose, vacuum, 2" X 16"	39	923B	PCB, dual circuit sensor board
15	MA-2	Manifold, vacuum	40	FP367	Heat exchanger, 120V
16	FP351	Gasket, 84"	40A	455	Bracket, mounting, heater
17	2066	Pump, 150 psi, 120V	40B	FP348A	Hose, heater to outlet
18	925	Hose, pump to heater, 3/8" X 54"	41	27A	Axle cap
19	45	Quick disconnect, male, 1/4 p.t.	42	2084	Wheel, 10"
20	1146	Pipe, 6.85"	43	910-21.00	Axle rod, 21"
21	907	Vac inlet hose barb	44	918	Heat sink plate
22	805	Chain, 8"	45	---	See miscellaneous
23	2086A	Lid, 6", includes vacuum ring	46	905	Castor
23A	1074	Gasket, lid	47	4334A	Label
24	FP364	Ball float & manifold, assy	48	FP350A	Vacuum hose, complete
25	1060C	Plug, dump hose	49	FP350B	Pressure line, complete

MISCELLANEOUS PARTS AND KITS

FP194C	Heat Repair kit includes probe, thermistor control, thermal cutout & circuit board
FP194E	Heat Repair kit includes probe, thermistor control & circuit board
FP350	Reel with hoses, complete
FP350C	Vacuum hose & pressure line, complete, no reel

MAINTENANCE SCHEDULE

	DAILY	WEEKLY	MONTHLY	YEARLY	OTHER
CLEAN ALL FILTERS	X				
CHECK POWER CORD	X				
FLUSH OUT with DESCALER			X		
REPLACE VAC MOTOR BRUSHES					Around 1500 hours

TROUBLE SHOOTING:

IF THIS OCCURS CHECK THIS

NO SPRAY	Solution tank is empty. Clogged spray tip. Pump not running. Valve on wand not operating
PUMP DOES NOT RUN	No power to pump. Test the switch. Test the pump motor. Replace if necessary.
LOW SUCTION	Debris plugging cleaning tool or vacuum hose. Drain hose is not completely closed, or seals are damaged. Vacuum lid is not closed or gasket is damaged.
NO SUCTION	No power to motor. Test the switch. Test the vacuum motor.
LOW HEAT	Spraying too long. Try spraying for 8-10 seconds per cycle. Heat exchanger needs to be flushed. Wrong tool being used, allowing too much water passing through, longer hose or larger diameter hose, than standard.
NO HEAT	Heat is not turned on. Either the green light must be on or the bypass switch must be turned on. No power in the wall outlet - check to see if the breaker has tripped. No power to the bypass switch - check wiring for 'opens'. No power out of bypass switch, follow troubleshooting steps to isolate the problem or call your distributor for additional help