

BE POWER[®] EQUIPMENT



96012V 99012V 96115V 99115V

OPERATORS MANUAL

BEPOWEREQUIPMENT

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MACHINE SPECIFICATIONS

96012V SPECIFICATIONS

- Pump Volume: 4.0 - 5.0 GPM
- Pump Pressure: 3,500 PSI
- Burner Fuel: #1 or #2 Diesel
- Vertical Burner Exhaust Stack: 8"
- Burner: 12VDC SDC
- Coil: 147' x 1/2" Sch. 80 Cold Rolled Steel

99012V SPECIFICATIONS

- Pump Volume: 8.0 - 10.0 GPM
- Pump Pressure: 3,500 PSI
- Burner Fuel: #1 or #2 Diesel
- Vertical Burner Exhaust Stack: 8"
- Burner: 12VDC SDC
- Coil: 260' x 1/2" Sch. 80 Cold Rolled Steel

96115V SPECIFICATIONS

- Pump Volume: 4.0 - 5.0 GPM
- Pump Pressure: 3,500 PSI
- Burner Fuel: #1 or #2 Diesel
- Vertical Burner Exhaust Stack: 8"
- Burner: 115VAC SM
- Coil: 147' x 1/2" Sch. 80 Cold Rolled Steel

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- Pump Volume: 8.0 - 10.0 GPM
- Pump Pressure: 3,500 PSI
- Burner Fuel: #1 or #2 Diesel
- Vertical Burner Exhaust Stack: 8"
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SPRAY TIPS: DISCARD ANY OLD SPRAY TIPS AND NEVER USE A SPRAY TIP THAT IS NOT THE CORRECT SIZE FOR THIS MACHINE.

The wrong spray tip will force the pump to bypass water back into the pump inlet, decreasing the water flow volume through the heating coil. This will cause a rapid increase of water temperature which could damage you, what you are cleaning, and/or the machine. Spray tip colors only indicate the spray pattern and not the orifice size. Order your tips from your distributor.

THIS MANUAL CONTAINS IMPORTANT INFORMATION FOR THE USE AND SAFE OPERATION OF YOUR STATIONARY MACHINE. FAILURE TO READ THIS MANUAL AND FOLLOW ITS INSTRUCTIONS PRIOR TO OPERATING OR ATTEMPTING ANY SERVICE OR MAINTENANCE PROCEDURE COULD RESULT IN SERIOUS INJURY OR DEATH TO YOU OR OTHER PERSONS, AND/OR DAMAGE TO THE MACHINE OR TO OTHER PROPERTY.



UNPACKING INSTRUCTIONS

INSPECTION

Carefully unpack your new Hot Box, removing the banding and cardboard box from the pallet. Remove the Hot Box from the pallet and check for any physical damage that may have occurred during shipment. Check for all parts specified below.

INCLUDED PARTS:

- Pallet
- Packing Material
- Outer Box
- Installation Information
- Operator's Manual

SAFETY INSTRUCTIONS AND WARNINGS

READ THIS FIRST

FAILURE TO READ AND OBSERVE ALL WARNING STATEMENTS COULD RESULT IN SEVERE BODILY INJURY OR DEATH, POSSIBLE INJURY TO OTHER PERSONS, AND DAMAGE TO THE MACHINE OR OTHER PROPERTY.

Thank you for purchasing a BE Power Equipment Hot Box. This machine is designed to give you many hours of service. However, reasonable care, routine maintenance, and proper operator instruction are required. We reserve the right to make changes at any time without incurring any obligation.

OWNER/USER RESPONSIBILITY

The owner and/or user must have a full understanding of the equipment's operating instructions and warnings before using this machine. Warning information should be emphasized and understood. The operator must understand the operation of the equipment and never permit anyone to operate it without proper instruction.

This manual should be considered a permanent part of the machine and should remain with it if the machine is resold. When ordering parts, please specify the model and serial number. Use only identical replacement parts.



RISK OF INJURY: HOT SURFACES CAN CAUSE BURNS

WARNING: RISK OF INJURY

Hot surfaces can cause burns. Use only designated gripping areas of the spray gun and wand. Do not place hands or other limbs on non-insulated areas of the equipment.



HOT DISCHARGE FLUID. DO NOT TOUCH OR DIRECT STEAM AT PERSONS

CAUTION: HOT DISCHARGE FLUID

Do not touch or direct spray at persons.

WARNING: HOT WATER OUTPUT

This machine produces hot water and must have insulated components for the operator's protection.



RISK OF INJECTION OR SEVERE INJURY TO PERSONS. KEEP CLEAR OF NOZZLE.

DANGER: HIGH PRESSURE

High pressure developed by this equipment will cause personal injury. Keep clear of the nozzle. Do not direct towards people. Severe injury or death will occur.



TRIGGER GUN WITH HIGH PRESSURE CAN CAUSE KICK BACK. HOLD WITH BOTH HANDS.

WARNING: TRIGGER GUN

Grip the trigger gun with both hands. Failure to do so could result in injury. Never make adjustments while the machine is in operation.



**DANGER OF ASPHYXIATION.
USE IN WELL VENTILATED AREAS.**

DANGER: VENTILATION

Avoid installing equipment in small areas and/or near exhaust fans. Adequate air flow is needed for ventilation. Dangerous carbon monoxide will occur without it.



**RISK OF EXPLOSION:
OPERATE ONLY
WHERE AN OPEN
FLAME IS PERMITTED.**

WARNING: FLAMMABLE LIQUIDS

Flammable liquids can create fumes which can ignite, causing property damage or severe injury.

DANGER: EXPLOSION RISK

Operate only where an open flame is permitted.



**RISK OF FIRE. DO
NOT ADD FUEL WHEN
OPERATING MACHINE.**

DANGER: FUEL TYPE

Do not use gasoline, crankcase draining, or oil containing gasoline, solvents, or alcohol. This will result in fire and/or explosion.

WARNING: REFUELING

Do not add fuel when the equipment is operating or still hot.



**USE PROTECTIVE EYE
WEAR AND CLOTHING
WHEN OPERATING.**

WARNING: PERSONAL PROTECTION

To avoid personal injury, eye, hand, and foot safety equipment must be worn when operating this equipment.



**FREEZE PROTECTION
(WINTERIZE
EQUIPMENT)**

WARNING: FREEZE PROTECTION

Protect the machine from freezing. Failure to do so could cause machine malfunction and result in death, serious bodily injury, and/or property damage.

INSTALLATION INSTRUCTIONS

1. GENERAL INFORMATION

Ensure that all applicable codes are followed in the installation of your BE Power Equipment Oil-Fired Hot Box. Installation is straightforward, but good plumbing and electrical practices must be followed. If uncertain, consult a qualified electrician and plumber along with your BE Power Equipment distributor. Please refer to the Installation Instruction Guide included with this Operator's Manual.

2. LOCATION

Place the Hot Box in a clean, well-ventilated, dry location that allows access for normal maintenance. Do not install where overspray will be directed toward or around the unit. Do not install the unit in an area where combustible materials are used or stored. Place the unit on a solid, fireproof foundation. Protect from dust, dirt, rain, and severe weather. Allow 5' of service space around the unit (at least 24" off the back wall) and at least 3' clearance above.

3. WATER SUPPLY

Test the water source to determine water hardness. If the hardness exceeds seven (7) grains, a suitable water softener should be installed. Installing a water softener greatly improves chemical action and prevents spotting on glass, chrome, and other washed surfaces.

4. FRESH AIR SUPPLY

Your unit is equipped with an air-cooled burner motor and requires fresh air ventilation. This Hot Box uses an oil-fired burner that requires oxygen for a clean burn. See the included Burner Manual. Do not enclose the unit or stack items around it in a way that could prevent proper air flow.

WARNING: FAILURE TO PROVIDE ADEQUATE AIR SUPPLY COULD SERIOUSLY AFFECT BURNER PERFORMANCE AND RESULT IN DAMAGE TO THE EQUIPMENT, ASPHYXIATION, EXPLOSION, OR FIRE HAZARDS.

5. BATTERY (96012V AND 99012V — 12VDC UNITS ONLY)

Use only a 1,000 MCA / 800 CCA marine-type battery. A Delco Voyager II M24C with built-in hydrometer is recommended. This allows you to easily check battery status before operation. A minimum 18A charging system on the connected pressure washer is required.

6. POWER CORD (96115V AND 99115V — 115VAC UNITS ONLY)

Models 96115V and 99115V are equipped with a 35-foot cord with a GFCI. Never remove this important device — it is there to protect the user in the event of a ground fault. Ensure the unit is connected to a properly grounded outlet that complies with all applicable electrical codes.

7. OUTLET PIPING

Any outlet piping must be supported and secured to prevent strain on connections or equipment and to prevent vibration. Outlet lines longer than 50' should be insulated to reduce heat loss. Outlet piping should be at least 1/2" IPS for distances up to 50'. For distances of 50' to 100', 3/4" piping should be used.



8. FUEL SUPPLY

Use only clean diesel fuel. The machine comes with an on-board fuel tank, or it may be ordered without a tank and connected to an existing fuel supply. The Beckett burner is equipped with a fuel pump that can supply fuel from your tank to the burner. Install a reliable fuel filter for connections to an existing tank. A return line must also be installed.

If using the on-board fuel tank, only add fuel when the machine is not hot or not in use. Use only clean fuel from a clean, approved supply container.

8. COMBUSTION AIR

Oil-fired burners must have adequate fresh air for proper combustion.

Provide a minimum of 3 square feet of ventilation at the top of all closed rooms. If ventilating fans are used, ensure that downdrafts are not created in the stack. If installed in an enclosed room, ensure outside air supply is provided, or construct air openings at the top and bottom of the room.

Consult your local distributor for assistance with your installation. A room with only a door is not a sufficient air supply.

Refer to the Install Guide included with this manual.

OPERATING INSTRUCTIONS

DON'TS AND NEVERS

1. **NEVER** run the burner without water flowing through it, except for short periods when testing the burner.
2. **DO NOT** run acids or hard caustics through the pump and heating coil.
3. **DO NOT** subject your Hot Box to freezing temperatures unless it has been winterized. Consult the preventive maintenance section for winterizing instructions.
4. **NEVER** allow children or untrained adults to operate the machine. Keep children at a safe distance when an adult is using the machine.
5. **NEVER** clean the machine using its own spray wand. The machine is water resistant but not waterproof. Damage could occur to components from high pressure spray.

CONNECTING YOUR HOT BOX TO A COLD WATER PRESSURE WASHER

You will need a jumper hose to connect your cold water pressure washer (18-20 amp) to the Hot Box. Use an R2 3/8" hose of your selected length from the unloader valve outlet to the coil inlet of the Hot Box. Connect your wash hose to the coil outlet beneath the thermostat.

INITIAL STARTING

After initial installation, coil descaling, or a long period of non-use, run the unit with the nozzle or wand removed to flush out dirt, rust, or loose scale that could plug the nozzle. Stop the unit, insert the nozzle, and run the unit under high pressure. Once water is flowing from the spray tip, turn on the burner switch as follows:

BURNER: ENSURE YOU HAVE ADDED CLEAN DIESEL FUEL TO THE FUEL TANK.

Do not overfill. Filling to the bottom of the filler neck is recommended.

Set the thermostat to the desired operating temperature. Turn the burner switch to the ON position. Squeeze the trigger gun and the burner will heat the water. If the burner does not come on, stop and resolve the problem. If the issue is unclear, contact your distributor or call the factory for assistance.

SHUTTING DOWN AFTER USE

Following these steps can prolong the life of your Hot Box and help prevent service issues:

1. Finish cleaning in rinse mode or with straight water through the machine.
2. Turn the burner switch off and allow the machine to cool down.
3. Turn the pump off.



PRELIMINARY CHECKPOINTS

Your BE Power Equipment Hot Box will provide trouble-free performance if it is properly maintained. Most malfunctions are the result of improper operation or lack of proper maintenance.

In the event of a problem, check the following before contacting your distributor.

1. WATER SYSTEM

- Is the water turned on?
- If installed, are inline filters free of debris?
- Is the inlet water hose kinked?
- Is the chemical hose primed and fully submerged in the chemical container?

2. ELECTRICAL SYSTEM

- 12VDC units: Are you using a fully charged battery?
- 115VAC units: Is electricity on? Is the fuse blown or breaker tripped? Is the reset button on the GFCI tripped?
- Is the unit located where sufficient ventilation is available for the motor to run without overheating?

3. PRESSURE WASHER GUN AND HOSE

- Does the pressure washer hose appear damaged, torn, or show exposed wiring?
- Is the gun leaking? Stop and have it replaced.
- Is the spray tip worn, displaying a distorted spray pattern, or showing decreased pressure?

4. FUEL

Use only clean diesel fuel. In cold temperatures, a blend with kerosene may be used. Do not use gasoline, lube oils, mixed fuels, or fuel contaminated with water. Some fuel may vary in BTU content. Contact your supervisor and/or distributor if excessive heating or thermostat cycling occurs. Always use a clean container when adding fuel to the on-board fuel tank. Check your fuel filter often.

5. REPORT TO YOUR SUPERVISOR

Report any smoke or fuel leaks. If noticed, stop the burner, allow the machine to cool down, and turn the cam switch to the OFF position. Tag out the machine until it has been repaired.

MAINTENANCE INSTRUCTIONS

ROUTINE INSPECTION

Regular, routine inspection of the machine's subsystems and critical components is key to prolonging the life of the machine. Follow these routines to prevent breakdowns and extend the life of your unit.

DAILY:

1. Check water supply before starting.
2. Check fuel supply.
3. Check nozzle for clogging.
4. Check the wash hose for tears and leaks.
5. Report any flaws or issues with the equipment to a supervisor.

WEEKLY:

1. Check the pressure hose for wear and/or damage.
2. Check the fuel filter for dirt and sediment.
3. Report any observed issues to your supervisor.

DAILY MAINTENANCE

1. Perform a visual inspection of your unit prior to and during startup.
2. Immediately repair any leaks or malfunctions before continuing to use the machine.
3. Check the following:
 - Check the battery (12VDC units only). A weak battery is the most common cause of burner issues with SDC burners.
 - Check wash hose couplings to ensure they are secure.
 - Check the spray tip for wear or damage and replace if required.
 - Fill the burner fuel tank with clean, water-free fuel.
 - Check the wand assembly at the gun connection for leaks.

MONTHLY INSPECTION (DISCONNECT FROM POWER)

A. Visually check overall condition:

- Hose for wear, tears, or exposed wires.
- Electrical connections to ensure they are dry and tight.
- Electrical supply line and ground for tight, dry connections.

B. Connect to power and ensure:

- Function lights are operative (if equipped).
- Pump runs smoothly, quietly, and without vibration.
- Wearing protective gear, remove the chemical hose from the container and check to see if it is clean and serviceable.
- Check all fittings for leaks. Apply thread tape and tighten if required.

WARNING: IMMEDIATELY REPORT ANY PROBLEMS WITH THIS MACHINE TO YOUR SUPERVISOR.



BURNER MAINTENANCE

For detailed information and service instructions, refer to the Beckett Burner Manual included with this Operator's Manual. For 12VDC units, keep a fully charged battery at all times. A weak battery will cause the burner motor and fuel pump to slow down, resulting in smoke and unburnt fuel (soot) accumulation on the coil. This could lead to serious machine damage or excessive heat buildup that could fracture the coil, coil fittings, and/or hoses. See Coil Cleaning below.

COIL MAINTENANCE: FUEL

Your Hot Box Beckett Burner may be equipped with a Genisys Primary Control. You will need a contractor's tool to service the burner. Refer to the instructions in the contractor's tool guide for assistance. You may also review support videos at www.beckettcorp.com/support.

If your Hot Box does not have a Primary Control, pay close attention to burner function and any loss of heat. At the first sign of heat loss, stop and address the problem before continuing. Failure to do so could lead to raw, unburnt fuel buildup, which would require removal of the heating coil and saturated insulation before the burner can be used again. If the igniter fails, do not simply replace it and assume the unburnt fuel will burn out. It will not. Remove the coil, clean it thoroughly, and replace the insulation with new material.

COIL MAINTENANCE: SOOT

Poor-grade fuel or inadequate combustion air will cause soot buildup on the outer surfaces of the heating coil. This soot deposit reduces heating efficiency and restricts airflow through the coil. To clean soot deposits, periodically add liquid "Red Devil" Soot Remover or a similar product to the fuel, following the manufacturer's instructions. If sooting is severe, remove the coil, presoak it with a degreaser or detergent, and wash it with a pressure washer.

COIL MAINTENANCE: RELIEF VALVE

Your Hot Box is equipped with a thermal relief valve. If you notice a drip or leak from the valve, do not remove the valve and plug the line. Replace the valve before continued use. It is located at the coil outlet, above where your wash hose connects.

MACHINE CARE

FREEZE PROTECTION

Most pressure washer damage is the result of water freezing and rupturing plumbing, pumps, and wash hoses. Always install your machine in a warm area above 32 degrees Fahrenheit to prevent freeze damage. Wash hoses should never be left exposed to freezing conditions. Store them in a warm area when not in use. If it is necessary to keep your unit in an area where freezing is likely, follow these instructions to prevent equipment damage:

1. Disconnect the water inlet hose from the water source (hydrant or remote tank).
2. Obtain a 5-gallon container of water with antifreeze added.
3. Lay the wash hose and wand flat on the floor and remove the spray tip.
4. Obtain a 5' hose with a connection on one end and attach it to the water inlet connector.
5. Place the hose and chemical tubes into the 5-gallon container of antifreeze.
6. Turn on the pump, allowing antifreeze to be drawn into the system. Allow the pump to continue until antifreeze appears at the end of the wand.
7. Turn off the pump.
8. When preparing to restart the unit, connect the water inlet and start the unit, pumping the antifreeze back into the 5-gallon container for reuse.

DESCALING THE COIL

Buildup of lime or mineral scale during normal use will decrease the operating efficiency of the heating coil. How often you need to clean the coil depends on your water conditions. If your water is known to be hard or have high mineral content, a preventive maintenance schedule of cleaning the coil every 90 days is recommended.

1. In a five-gallon container, mix deliming acid with water according to the manufacturer's recommendations. Caution: Do not use raw muriatic acid. The acid must be properly inhibited to protect the pump and coil.
2. Turn off the water supply. Disconnect the hose at the inlet pump. Connect five to six feet of hose to the hose barb at the pump inlet and tighten the hose clamp securely. Remove the spray nozzle from the gun and place the discharge end of the gun and the suction end of the water hose into the container. Elevate the container above the level of the pump and secure the pump suction hose approximately 5" above the bottom of the container. Use of a strainer screen on the suction hose is recommended.
3. Turn on the pump and circulate the acid solution through the coil for 30 minutes, or until the discharge solution stops foaming. When foaming stops, the coil is clean.
4. Remove the acid suction hose from the pump and reconnect the supply line. Turn on the water supply and allow the system to fill. Turn the machine off and replace the nozzle.
5. **SPRAY TIPS:** Always use the correct spray tips for your unit. When adding a surface cleaner or other add-on device, ensure the correct spray tip is used. Failure to do so will damage your equipment.

WINTERIZING

NOTE: DAMAGE DUE TO FREEZING IS NOT COVERED BY WARRANTY.

1. Disconnect the water supply.
2. Operate the pump to expel all water from the system. Shut off the pump and remove the nozzle from the wand.
3. Fill the float tank with diluted permanent antifreeze.
4. Restart the pump. When antifreeze begins flowing from the wand, allow it to flow into the float tank to circulate through the system for several minutes. Add enough antifreeze to ensure the system is completely filled. The unit is now winterized until ready for use again.

MORE PREVENTIVE MAINTENANCE

1. Check to see that the water pump is properly lubricated.
2. Follow winterizing instructions to prevent freeze damage to the pump and coil.
3. Always neutralize and flush detergent from the system after use.
4. If water is known to have high mineral content, use a water softener in your system or descale as needed.
5. Do not allow acidic, caustic, or abrasive fluids to be pumped through the system.
6. Always use high-grade quality cleaning products.
7. Never run the pump dry for extended periods of time.
8. Use clean fuel. Avoid water-contaminated fuel, as it will damage the fuel pump.
9. If the machine is operated with smoky or eye-burning exhaust, coils will soot up, preventing water from reaching the maximum rated operating temperature.
10. Never allow water to be sprayed on or near the motor, burner assembly, or any electrical components.
11. Periodically descale the coil as per instructions.
12. Periodically visually inspect the burner. Check the air inlet to ensure it is not clogged or blocked. Keep equipment clean and dry. The flow of combustion and ventilation air to the burner must not be blocked or obstructed in any manner. The area around the machine should be kept clean and free of combustible materials, gasoline, and other flammable vapors and liquids.

TROUBLESHOOTING GUIDE

PROBLEM 1: WASHER IS ELECTRICALLY DEAD.

POSSIBLE CAUSES:	SOLUTIONS:
<ul style="list-style-type: none"> No power to the machine Defective power cord Defective main on/off switch Faulty or loose wiring 	<ul style="list-style-type: none"> Check the circuit breaker and electrical outlet. Repair or replace the bad cord. Test switches and replace if defective. Check switch and motor wiring for solid connections.

PROBLEM 2: POWER SUPPLY CIRCUIT BREAKER TRIPS AND WILL NOT STAY ON.

POSSIBLE CAUSES:	SOLUTIONS:
<ul style="list-style-type: none"> Short circuit in the washer or elsewhere on the circuit Undersized circuit being used, or too much total load on the circuit Supply voltage is low Undersized extension cord causing undervoltage to the washer 	<ul style="list-style-type: none"> Check the washer and other loads on the same circuit for faulty components. Put the washer on a larger circuit or remove other loads from the existing circuit. Ensure voltage meets unit requirements as specified on the serial plate. Contact the electrical supplier for correct cord size and length.

PROBLEM 3: THERMAL OVERLOAD PROTECTOR TRIPS OFTEN IN THE MOTOR, PUMP, OR BURNER.

POSSIBLE CAUSES:	SOLUTIONS:
<ul style="list-style-type: none"> Partially or totally clogged spray nozzle overburdens the motor Undersized spray nozzle in use Supply voltage is low Undersized extension cord causing undervoltage to the washer 	<ul style="list-style-type: none"> Remove and clean the nozzle. Make sure the swivel and fittings are present and in good condition. Make sure voltage is no less than that given in the specifications. Contact an electrician for correct cord size and length.

PROBLEM 4: ELECTRICAL SHOCK FROM CABINET OR SPRAY WAND.

POSSIBLE CAUSES:	SOLUTIONS:
<ul style="list-style-type: none"> Electrical leakage exists and the washer is not properly grounded 	<ul style="list-style-type: none"> Do not use the machine. Immediately contact a qualified electrician. The washer must be properly grounded at all times, meaning a solid ground connection inside the cabinet. Properly grounded cords and receptacles are required. An ungrounded extension cord will defeat the grounding in the power cord.

PROBLEM 5: BURNER MOTOR RUNS BUT BURNER WILL NOT LIGHT.

POSSIBLE CAUSES:	SOLUTIONS:
<ul style="list-style-type: none"> No fuel No spark Poor atomization of fuel Excessive combustion air Air leak in fuel inlet line Clogged fuel pump Air lock Defective temperature switch 	<ul style="list-style-type: none"> Fill the tank. Check ignition system and high-tension leads. Adjust oil pressure to 120 PSI or higher. Close the air band until a clean burn is achieved. Tighten fuel line connections. Clean out or replace the filter cartridge. Replace with a new unit. Bleed the fuel pump. Replace the switch.

PROBLEM 6: BURNER SMOKES.

POSSIBLE CAUSES:	SOLUTIONS:
<ul style="list-style-type: none"> Wrong type of fuel Stack restriction Air flow through coils restricted due to soot buildup 	<ul style="list-style-type: none"> Use clean diesel fuel only. Replace the stack. Stop the machine. Remove and clean the coil.

TROUBLESHOOTING GUIDE**PROBLEM 7: FLOAT TANK IS FULL BUT THE WATER PUMP WILL NOT DRAW WATER.**

POSSIBLE CAUSES:	SOLUTIONS:
<ul style="list-style-type: none">• Air lock• Clogged float tank filter screen	<ul style="list-style-type: none">• Loosen the pressure hose at the pump and release any trapped air.• Clean or replace the filter screen.

PROBLEM 8: HIGH OPERATING PRESSURE OR PRESSURE RELIEF VALVE IS LEAKING.

POSSIBLE CAUSES:	SOLUTIONS:
<ul style="list-style-type: none">• Lime deposits• Wrong nozzle size• Nozzle clogged• Defective pressure relief valve	<ul style="list-style-type: none">• Delime the coil.• Replace with the correct nozzle size.• Clean the nozzle.• Replace the pressure relief valve.

PROBLEM 9: WATER TEMPERATURE IS TOO HOT.

POSSIBLE CAUSES:	SOLUTIONS:
<ul style="list-style-type: none">• Thermostat set too high• Water supply to unit is inadequate	<ul style="list-style-type: none">• Adjust the thermostat dial below the maximum rated operating temperature.• Reduce fuel pressure or replace with a smaller nozzle.

PROBLEM 10: WATER TEMPERATURE IS TOO COLD.

POSSIBLE CAUSES:	SOLUTIONS:
<ul style="list-style-type: none">• Thermostat set too low• Low fuel pressure• Scale buildup in coil	<ul style="list-style-type: none">• Adjust the thermostat.• Increase fuel pressure.• Descale the coil per the deliming instructions.



MANUFACTURER'S LIMITED WARRANTY

All BE Power Equipment Hot Boxes are warranted by BE Power Equipment to the original purchaser to be free of defects in materials and workmanship under normal use, for the periods indicated below. This limited warranty is subject to the exclusions specified below and applies to original components only. Any part or parts replaced under this warranty will assume the remainder of the original warranty period.

The manufacturer's obligation under this warranty shall be limited to the repair or exchange of any part or parts that may prove defective under normal use. Repairs must be preauthorized. In no event shall the manufacturer be liable for incidental or consequential damages or labor charges resulting from any defect in the product or breach of this warranty. This warranty shall not apply to any part or parts that have been subject to accident, negligence, alteration, abuse, or misuse.

If any defects appear, immediately contact the dealer from which the Hot Box was purchased. Returned parts must be shipped to the manufacturer prepaid. A dated invoice showing proof of purchase and the serial number of the unit is required for all warranty claims. A Returned Goods Authorization (RGA) number must be issued by BE Power Equipment prior to returning any part or parts for warranty evaluation.

PUMPS: AR, CAT, GENERAL, OR OTHER PUMP MANUFACTURERS

Pumps are warranted to the original purchaser for a period specified by the pump manufacturer. Warranty covers manufacturing defects or workmanship that may develop under normal use. Warranty does not apply to misuse, or when the pump or any accessory to the pump is altered or used in excess of recommended speeds, pressures, temperatures, or with fluids not suitable for the pump or pump accessory material construction. Warranty does not apply to normal wear, freight damage, freeze damage, or damage caused by parts or accessories not supplied by the manufacturer.

ELECTRIC MOTORS: BE Power Equipment uses Baldor and Marathon electric motors. We are not an authorized repair center for these manufacturers. While we will assist with locating the nearest repair center, we cannot ship replacement motors without their consent. Your BE Power Equipment dealer may be of service in to help locate repair facilities within your area. Visit bepowerequipment.com for support. An invoice showing proof of purchase and the serial number of the unit is required for all warranty claims. An RGA number must be issued by BE Power Equipment prior to the return of any suspected warranty parts.

WARRANTY

WHAT THIS WARRANTY DOES NOT COVER

ACCESSORIES: Accessories carry a 90-day warranty. This warranty does not apply to misuse, negligence, or improper use.

THIS WARRANTY DOES NOT COVER THE FOLLOWING:

1. Normal wear items, including spray tips, wash guns, pressure washer hoses, wands/lances, quick couplers, seals, filters, gaskets, O-rings, belts, pump packings, pump pistons, pump check valves, fuses, relief valves, and unloader valves.
2. Damage or malfunction resulting from misuse, abuse, modification, alteration, incorrect installation, improper servicing, accidents, or failure to comply with the manufacturer's maintenance instructions.
3. Normal maintenance required for continued good working order, including oil changes, minor adjustments, and replacement of fuel filters, tips, and other routine maintenance items.
4. Freeze damage, chemical (soap/acid) damage, scale or soap buildup, or rust/corrosion.
5. Electrical component failures due to power supply malfunction.
6. Water supply failures resulting in premature pump failure.
7. Leaking guns, wands, hoses, and fittings resulting in frequent system restarts that may cause premature pump failure.
8. Negligence by operators who fail to follow operating instructions, including attempting to refuel a hot machine, installing the Hot Box in an enclosed vehicle that fails to provide adequate ventilation and air supply, or improper venting of the burner resulting in damage to the vehicle and/or the Hot Box.

LIMITATION OF LIABILITY

BE Power Equipment's liability for special, incidental, or consequential damages is expressly disclaimed. In no event shall BE Power Equipment's liability exceed the purchase price of the product in question. BE Power's obligation under this warranty is expressly limited, at our option, to replacement or repair at a service facility designated by BE Power, of such parts as inspection shall disclose to have been defective.

BE Power Equipment does not authorize any other party, including BE Power Equipment dealers, to make any representation or promise on behalf of BE Power Equipment or to modify the terms, conditions, or limitations of this warranty in any way. It is the buyer's responsibility to ensure that the installation and use of BE Power Equipment products conform to local codes.

WARRANTY PERIODS:

- Burner: 3 years
- Heating coil: Lifetime
- Frame assemblies and production items built by BE Power Equipment (float tanks, electrical boxes, fuel tanks, and other fabricated components): 1 year



POWER EQUIPMENT

**IF YOU NEED ASSISTANCE WITH THE ASSEMBLY OR OPERATION OF
YOUR EQUIPMENT, PLEASE CALL 1-800-663-8331 OR VISIT**

BEPOWEREQUIPMENT

.COM