



Brown Equipment Company
 2501 S Kentucky Ave
 Evansville IN 47714
 Ph:800-747-2312
 www.brownequipment.net

Vehicle Quote

#Q18832

5/14/2026

Bill To

City of Columbus OH Department of
 Public Service
 111 N Front Street 4th Floor
 Columbus OH 43215
 United States

Ship To

City of Columbus OH Department of
 Public Service
 111 N Front Street 4th Floor
 Columbus OH 43215
 United States

TOTAL

\$98,735.54

Sales Rep: Jenna Lawrence

Expires	PO #	Quote Information	Shipping Method
6/13/2026			

Item	Description	Qty	Price	Extended Price
STEPP-SPHD-3.0	STEPP MANUFACTURING MODEL SPHD-3.0 ASPHALT DUMP TRAILER 4-Ton Capacity 120,000 BTU Diesel Burner with Automatic Temperature Control Tandem 7,000 lbs. Suspension (14,000 lbs. GVWR) Adjustable Height Hitch Hydraulic Dump Hopper Oil Jacketed Hopper Gas Shock Assisted Top Doors and Rear Discharge Doors Electric Overnight Heat 220V 3000W (hot mix use) Flush Mounted Strobe Lights (Set of 2) 10# Fire Extinguisher Wacker WP 1550 AW Plate Compactor Compactor Plate Carrier 15 Gallon Plastic Water Tank Stainless Steel Tool Holders (4) LP Hand Torch w/ 20# Bottle and Hose Reel Washdown System with Hose Reel Shovel and Lute Cleaning Compartment 30" with 3 shovel slots Tack Tank w/ Diesel Burner and Pumping System, and Honda Engine Hose Reel for Tack Hose LED Work Lights PAINT: Hwy Orange 3" Pintle Delivery and Training	1	\$98,735.54	\$98,735.54

Payment Information

A 3% fee will be applied to credit card transactions process through our system. Please note that this fee will only be applied to credit card transactions, and all other payment methods will remain without any additional fees, including the option to pay via ACH. For inquiries about this update or assistance with setting up ACH payments, please contact accounting@brownequipment.net.

Subtotal \$98,735.54

Tax (0%) \$0.00

Total \$98,735.54

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FINAL INVOICE AMOUNT MAY BE SUBJECT TO ADDITIONAL MATERIAL AND MANUFACTURING SURCHARGES INCLUDING ANY TARIFFS THAT MAY ARISE. THIS ESTIMATE DOES NOT INCLUDE APPLICABLE TAXES. CUSTOMER IS RESPONSIBLE FOR ALL APPLICABLE FEDERAL, STATE AND LOCAL TAXES. WE HEREBY ORDER THE DESCRIBED MATERIAL SUBJECT TO ALL TERMS AND CONDITIONS OF THIS ESTIMATE.

PLEASE NOTE THAT A RESTOCKING FEE AND SHIPPING COSTS MAY BE ADDED TO ELIGIBLE PART RETURNS.

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TERMS AND CONDITIONS

- 1. ACCEPTANCE.** This quotation is an offer to sell products (equipment and/or parts) and/or service to potential customer(s). BUYER'S RIGHT TO ACCEPT THIS OFFER IS LIMITED TO BUYER'S ASSENT TO THE TERMS AND CONDITIONS PRINTED HEREON AND THE ATTACHED OR ACCOMPANYING QUOTE, AND NO TERMS ADDITIONAL TO OR DIFFERENT FROM THOSE IN THIS OFFER ARE BINDING ON SELLER. THERE ARE NO UNDERSTANDINGS, TERMS, CONDITIONS OF WARRANTIES NOT FULLY EXPRESSED HEREIN.
- 2. LIMITED WARRANTIES.** Seller warrants that it can convey good title to the goods sold under this contract and that they are free of liens and encumbrances. Warranties are per manufacturer's written warranty or unless specified. There are no warranties, express or implied with respect to products sold hereunder which are misused, abused, or used in conjunction with mechanical equipment improperly designed, used or maintained or which are used, supplied for use or made available for use in any nuclear application of which Seller has not been notified in writing by Buyer at the time of order for the products sold hereunder. SELLER MAKES NO OTHER WARRANTY WHATSOEVER, EXPRESS OR IMPLIED. ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS FOR ANY PARTICULAR PURPOSE ARE DISCLAIMED BY SELLER AND EXCLUDED FROM THIS CONTRACT.
- 3. LIMITATION OF BUYER'S REMEDIES AND SELLER'S LIABILITY.** Seller's liability hereunder shall be limited to the obligation to repair or replace only those products proven to have been defective in material or workmanship at the time of delivery, or allow credit, at its option. Seller's total cumulative liability in any way arising from or pertaining to any product sold or required to be sold under this contract shall NOT in any case exceed the purchase price paid by Buyer for such products. IN NO EVENT SHALL SELLER HAVE ANY LIABILITY FOR COMMERCIAL LOSS, LOST PROFITS, CLAIMS FOR LABOR, OR CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY TYPE, WHETHER BUYER'S CLAIM BE BASED IN CONTRACT, TORT, WARRANTY, STRICT LIABILITY, NEGLIGENCE, OR OTHERWISE. IT IS EXPRESSLY AGREED THAT BUYER'S REMEDIES EXPRESSED IN THIS PARAGRAPH ARE BUYER'S SOLE AND EXCLUSIVE REMEDIES.
- 4. LIMITATION OF BUYER'S REMEDIES AND SELLER'S LIABILITY FOR FAILURE OR DELAY IN DELIVERY.** NO DELIVERY DATES ARE GUARANTEED. BUYER'S SOLE AND EXCLUSIVE REMEDIES AND SELLER'S ONLY LIABILITY FOR ANY DELAY IN DELIVERY SHALL BE LIMITED AS SET FORTH IN PARAGRAPH 3 OF THIS CONTRACT.
- 5. FORCE MAJEURE.** In any event and in addition to all other limitations stated herein, Seller shall not be liable for any act, omission, result or consequence, including but not limited to any delay in delivery or performance, which is (i) due to any act of God, the performance of any government order, any order bearing priority rating or order placed under any allocation program (mandatory or voluntary) established pursuant to law, local labor shortage, fire, flood or other casualty, governmental regulation or requirement, shortage or failure of raw material, supply, fuel, power or transportation, breakdown of equipment, or any cause beyond Seller's reasonable control whether of similar or dissimilar nature to those above enumerated, or (ii) due to any strike, labor dispute, or difference with workers, regardless of whether or not Seller's is capable of settling any such labor problem.
- 6. BUYER'S OBLIGATION TO PASS ON LIMITATION OR WARRANTIES AND REMEDIES.** In order to protect Seller against claims by Buyer's buyer, if Buyer resells any of the goods purchased under this agreement, Buyer shall include the language contained in paragraphs 2 and 3 of this agreement, dealing with Seller's limitations of warranties and remedies, in an enforceable agreement with Buyer's buyer, or otherwise include language in an enforceable agreement with its buyer that makes Seller's limitation of warranties and remedies binding on its buyer. Buyer shall also include a provision in its agreement with its buyer applying Indiana law to any claims its buyer might assert against Seller with respect to goods repaired, manufactured or sold by Seller, and requiring its buyer to bring any such action against Seller either in federal district court in Evansville, IN or the common pleas court for Vanderburgh County, Indiana. Buyer shall defend, indemnify and hold Seller harmless from any and all claims, causes of action, damages, losses or expenses (including reasonable attorneys' fees) that Seller incurs by reason of Buyer's failure to comply with this paragraph.
- 7. PASSAGE OF TITLE.** Except with respect to title for vehicles that have a certificate of title or for equipment vehicles for which the full purchase price has not been paid, title to the products sold hereunder shall pass upon delivery to the carrier at the point of shipment. Neither Buyer nor the consignee shall have the right to divert or re-consign such shipment to any destination other than specified in the bill of lading without permission of the Seller. Unless otherwise agreed, Seller reserves the right to select the mode of transportation. With respect to title for vehicles that have a certificate of title or vehicles for which the full purchase price has not been paid to the Seller, title will only transfer on the delivery of the certificate of title and payments due from the Buyer to the Seller has been paid in full. After the Buyer takes possession of a piece of equipment from the Seller, the risk of loss passes to the Buyer regardless of whether the legal title is transferred to the Buyer. Buyer will indemnify and save harmless the Buyer with respect to any losses, damages, or claims related to the vehicle(s) after the Buyer receives possession of the vehicle(s), including any attorney's fees or costs associated with the indemnity or the enforcement of the Seller's rights herein.

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8. **PAYMENTS AND LATE CHARGES ON PAST DUE ACCOUNTS.** Buyer represents that Buyer is solvent and can and will pay for the products sold to Buyer in accordance with the terms hereof. If Buyer shall fail to comply with any provision or to make payments in accordance with the terms of this contract or any other contract between Buyer and Seller, Seller may at its option defer shipments or, without waiving any other rights it may have, terminate this contract. All deliveries shall be subject to the approval of Seller's Credit Department. Seller reserves the right, before making any delivery, to require payment in cash or security for payment, and if Buyer fails to comply with such requirement, Seller may terminate this contract. A late charge of 1-½% monthly (18% annual rate) or the maximum allowed by state law, if less, will be imposed on all past due accounts.
9. **TRANSPORTATION CHARGES.** Delivered prices or prices involving competitive transportation adjustments shall be subject to appropriate adjustment to reflect changes in transportation charges.
10. **CLAIMS BY BUYER.** Buyer shall thoroughly inspect products sold under this contract immediately upon receipt to verify for itself that they conform to the specifications of the contract. Buyer must notify Seller of claims for failure or delay in delivery within 30 days after the scheduled delivery date. Buyer must notify Seller of any claims for nonconforming or defective goods within 30 days after the nonconformity or defect was or should have been discovered. In addition, Seller must be given an opportunity to investigate the claim before Buyer disposes of the material, or else Buyer's claim will be barred. Seller shall incur no liability for damage, shortages, or other cause alleged to have occurred or existed at or prior to delivery to the carrier unless the Buyer shall have entered full details thereof on its receipt to the carrier.
11. **MECHANICAL PROPERTIES; CHEMICAL ANALYSES.** Data referring to mechanical properties or chemical analysis are the result of tests performed on specimens obtained from specific locations of the product(s) in accordance with prescribed sampling procedures; any warranty thereof is limited to the values obtained at such locations and by such procedures. There is no warranty with respect to values of the materials at other locations.
12. **PATENTS.** Seller shall indemnify Buyer against attorneys' fees and any damages or costs awarded against Buyer in the event any legal proceeding is brought against Buyer by a third person claiming the material delivered hereunder in itself constitutes an infringement of any U.S. patent, provided Buyer gives Seller prompt notice of any such suit being brought, gives Seller the opportunity to defend any such suit, and cooperates with Seller with respect to any such defense; unless the material is made in accordance with material designs, or specifications required by Buyer, in which case Buyer shall similarly indemnify Seller.
13. **PERMISSIBLE VARIATIONS.** The products sold hereunder shall be subject to Seller's standard manufacturing variations, tolerances and classifications.
14. **TECHNICAL ADVICE.** Buyer represents that it has made its own independent determination that the products it is purchasing under this contract meet the design requirements of Buyer's project and are suitable for Buyer's intended application. Buyer further represents that it has not relied in any respect on any written or oral statements or advice from Seller, other than the standard product specifications set forth in the most recent addition of Seller's published product brochures, in making that determination.
15. **TAXES.** Any applicable sales, excise and/or use taxes, if any, due under the laws of any state, any local government authority, or the federal government of the United States, in connection with the purchase and sale of any equipment, parts, and/or services shall be the responsibility of the Buyer.
16. **BUYER'S RIGHT OF TERMINATION.** Buyer may terminate this contract in whole or in part upon notice in writing to Seller. Seller shall thereupon cease work and transfer to Buyer title to all completed and partially completed products and to any raw materials or supplies acquired by Seller especially for the purpose of performing this contract, and Buyer shall pay Seller the sum of the following: (1) the contract price for all products which have been completed prior to termination; (2) the cost to Seller of the material or work in process as shown on the books of Seller in accordance with the accounting practice consistently maintained by Seller plus a reasonable profit thereon, but in no event more than the contract price; (3) the cost f.o.b. Seller's plant of materials and supplies acquired especially for the purpose of performing this contract; and (4) reasonable cancellation charges, if any, paid by Seller on account of any commitment(s) made hereunder.
17. **SELLER'S RIGHT OF TERMINATION.** In addition to the other rights of termination provided for in this contract, and if this contract is made pursuant to any governmental rule or regulation, plan, order or other directive, upon the termination thereof, Seller shall have the option of canceling this contract in whole or in part.
18. **WAIVER.** Failure or inability of either party to enforce any right hereunder shall not waive any right in respect to any other or future rights or occurrences.

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19. **DELIVERY.** Unless otherwise agreed to in writing by the Seller, the Buyer hereby agrees to take delivery of the materials on this order within the later of five (5) days after the wanted date shown on the face of the order or within five (5) days after notification, oral or written, that the materials are ready for shipment. In the event that the Buyer does not arrange to take delivery of the materials in accordance with this Contract, Seller, at Seller's option, may:
 - (a) invoice the Buyer for the materials less freight if applicable; store the material in Seller's yard for a period not to exceed sixty (60) days from the date of invoice; charge a storage fee not to exceed 5% per month or fraction thereof of the selling price of the stored materials; add any applicable price increases listed on the face of the order; charge for any repair work to protective coatings harmed by weathering while such material is being stored; and charge applicable freight when shipment to the Buyer is made. Materials remaining in storage after sixty (60) days from the invoice date shall become the property of the Seller for disposition at the Seller's discretion. In that event, Buyer shall not be liable for the invoice price of the materials, but shall be liable for the storage fee and any repair work to protective coatings; or
 - (b) cancel the order and invoice the Buyer for cancellation charges, which shall be 50% of the selling price of the materials if the materials are standard, in- stock material, or the full selling price if the materials are special or nonstandard in nature and were especially fabricated for the Buyer.
20. **PERIOD OF LIMITATIONS.** Buyer and Seller agree that any action by Buyer against Seller for a breach of this contract, including any action for breach of warranty, or otherwise in connection with the goods sold under this contract, must be commenced by Buyer against Seller within one year after the cause of action therefore accrues.
21. **CONFLICTING PROVISIONS OFFERED BY BUYER.** Any terms and conditions of any purchase order or other instrument issued by the Buyer, in connection with the subject matter of this document, which are in addition to or inconsistent with the terms and conditions expressed herein, will not be binding on Seller in any matter whatsoever unless accepted by Seller in writing.
22. **SEVERABILITY.** In case any provision of this contract shall be declared invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired.
23. **APPLICABLE LAW.** This contract shall be governed by, and construed and enforced in accordance with, the laws of the State of Indiana. Buyer and Seller specifically agree that any legal action brought relating to this contract will be brought and tried in the federal district court in Evansville, Indiana, or, in the absence of jurisdiction, the Vanderburgh County Court of Common Pleas in Evansville, IN.

Name(Printed)

Signature

Title

Date

THANK YOU FOR CHOOSING BROWN EQUIPMENT COMPANY

City of Columbus RFQ032684
Department of Public Service/Division of Infrastructure Management
Trailer-Mounted Aggregate Heater (hot box)
Detailed Specifications

SECTION NUMBER	SPECIFICATION DESCRIPTION	DESCRIBE ACTUAL PRODUCT BID
3.3.2	Trailer	
3.3.2.1	Shall be A-frame style with axles rated to carry a loaded tank at highway speed. (235/80/R16 LR E Tires)	Yes
3.3.2.2	Frame shall be constructed of 2"x 6"x 3/16" high strength, rectangular steel tubing reinforced at all stress points with 1/4"x 6"x 15" fish plates.	Yes
3.3.2.3	Hitch shall be a 3" pintle ring and have an adjustable height from 21" to 34".	Yes
3.3.2.4	Fenders shall be heavy duty, minimum 12-gauge steel, and be of bolt-on design and able to support 500 lbs. without damage.	Yes
3.3.2.5	Shall be equipped with a minimum 5000# capacity tongue jack, with swing away feature for road clearance.	Yes
3.3.2.6	Safety chains shall be grade 43.	Yes
3.3.2.7	Shall have two (2) 7000# High Speed Axles with center equalizer to distribute the weight between both axles.	Yes
3.3.3	Suspension	
3.3.3.1	Suspension shall be of leaf spring type.	Yes
3.3.3.2	Shall have a one-piece bolt-on shackle. It shall be constructed of 1/4" steel and have dimensions of 69 1/2" long by 11 5/16" tall. Shackles that are welded to the frame are unacceptable.	Yes
3.3.4	Hopper	
3.3.4.1	Capacity shall be 3.0 cubic yards.	Yes
3.3.4.2	Hopper floor shall be flat when the hoist is down to achieve the lowest overall hopper height for driver visibility of operators at the rear of the unit.	Yes
3.3.4.3	The hopper dimensions shall be a maximum of 96" long, 66" wide and 47" tall. This allows the operators to safely see oncoming traffic and allows the driver to see the operator behind the unit. It also allows for a very stable low center of gravity and excellent towing.	Yes

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SECTION NUMBER	SPECIFICATION DESCRIPTION	DESCRIBE ACTUAL PRODUCT BID
3.3.4.4	Hopper shall be of oil jacketed design. It shall have a triple wall construction. Air Jacketed units will not be acceptable.	Yes
3.3.4.5	Inner hopper shall be constructed with a minimum 10-gauge steel with a 12-gauge oil jacket and a 12-gauge outer insulation jacket.	Yes
3.3.4.6	Oil jacket shall be surrounded by 2" of 6# density ceramic insulation covered with a 12-gauge insulation jacket.	Yes
3.3.4.7	Shall have 10lb ABC dry chemical fire extinguisher.	Yes
3.3.4.8	Shall have spring loaded clamps for holding hand tools mounted on hopper or trailer fenders. Shall have two (2) per side for a total of four.	Yes
3.3.4.9	Shall have adequate hose reels for tack, wash down, and hand torch hose.	Yes
3.3.4.10	Shall have a 30" cleaning compartment for hand tools constructed of 12-gauge steel with splash guard compartment, drain plug and rain tight cover.	Yes
3.3.4.11	Shall have a handheld LP torch with 15' hose and 20# LP bottle with rack for heating hand tools and drying potholes.	Yes
3.3.5	Hopper Doors	
3.3.5.1	The top doors shall be constructed of 16 gauge formed steel.	Yes
3.3.5.2	Shall be insulated with 2" of 1 1/2# density high temp insulation.	Yes
3.3.5.3	Bottoms of doors shall be 304 stainless-steel.	Yes
3.3.5.4	The top doors shall have a stainless-steel swing lock handle that allows the door to be locked in the up and down position with gas assisted shocks for easy, one-handed opening with a second over center latching lockdown.	Yes
3.3.5.5	Shall be of tapered design with water lip to allow water shedding.	Yes
3.3.5.6	Shall have minimal clearance between top doors and hopper to decrease heat loss.	Yes
3.3.5.7	Shall have a top door lift assist that takes 60% of the weight of the doors off the operator and gives "slam" protection.	Yes

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3.3.5.8	Shall have double guillotine-style discharge door located at the rear of the unit with gas assist shocks to provide easy open/close operations in various positions.	Yes
3.3.5.9	Doors shall not require latches or hooks to hold open.	Yes
3.3.5.10	Rear doors shall be insulated with 1" of ceramic insulation and have exhaust gas ports to use burner exhaust gas to keep doors warm.	Yes
3.3.5.11	Door bottoms shall have be tapered to knife off material.	Yes
3.3.5.12	Rear doors shall be a minimum of 15.5" high by 25" wide.	Yes
3.3.6	Dump System	
3.3.6.1	The dump hoist shall have a minimum 12,000-pound truck style scissor hoist with safety prop.	Yes
3.3.6.2	The hoist shall be Rugby Mfg. or Omaha Standard/ Palfinger single cylinder or equivalent.	Yes
3.3.6.3	The design of the unit shall not require outriggers or rear stands to dump the trailer.	Yes
3.3.6.4	Shall have a minimum 52° slope to ensure complete removal of asphalt. Shall also make the end of the day clean up simple and not require the operator to leave the ground.	Yes
3.3.6.5	The hoist shall be operated by an electric over hydraulic pump located under the hopper.	Yes
3.3.6.6	The truck style scissor hoist shall be mounted to a sub frame that is bolted to the trailer frame.	Yes
3.3.7	Brakes	
3.3.7.1	Shall have electric brakes with breakaway kit to allow for breakaway protection by applying brakes in case of accidental breakaway from towing vehicle.	Yes
3.3.7.2	Brake system shall be rated appropriately for axle size and weight of the fully loaded vehicle.	Yes

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3.3.8	Electrical	
3.3.8.1	The trailer electrical system shall be 12-volt DC battery with charging system and a 7RV light plug.	Yes
3.3.8.2	All wiring and fuel lines shall be run through the inside frame for protection from outside elements wherever feasible.	Yes
3.3.8.3	All wiring connections shall be soldered.	Yes
3.3.8.4	Shall have a marine grade charger to maintain battery with dual bank 20-amp smart charger with float and auto recharge, securely mounted in the battery box with recessed plug with spring cover.	Yes
3.3.8.5	The battery box shall be constructed of 12-gauge steel and house two (2) group 24 deep cycle batteries.	Yes
3.3.8.6	One battery shall supply the burner system and the second shall supply the hoist system. The battery box will also house the marine grade battery charger and battery isolator.	Yes
3.3.8.7	The battery box shall house the electric terminal strips for easy replacement of trailer harnesses.	Yes
3.3.9	Lights	
3.3.9.1	Turn signals and brake lights shall be sealed beam grommeted.	Yes
3.3.9.2	Side markers shall be mounted at the rear and sides of unit.	Yes
3.3.9.3	Shall have a combination of stop, turn, and clearance lights with license plate bracket wired in protective loom with 7 pin RV connector.	Yes
3.3.9.4	Shall be a two (2) light incandescent or LED system.	Yes
3.3.9.5	Shall have a 12-volt powered, amber LED flush mounted strobe system.	Yes
3.3.9.6	Strobe shall be mounted on the top cover on the rear of unit.	Yes
3.3.9.7	Shall be controlled by the operators control panel.	Yes
3.3.9.8	Shall have two (2) securely mounted LED work lights for operator convenience and safety.	Yes

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3.3.10	Heating System	
3.3.10.1	Burner Controls	
3.3.10.1.2	Automatic spark ignition shall light the burner with the flip of a switch and include flame-out protection to shut off the fuel supply if the flame is blown out.	Yes
3.3.10.1.3	The electronic thermostat shall have an easy-to-adjust thermostat with a setting range from 0° to 550° F.	Yes
3.3.10.1.4	Shall have a digital LED display to monitor the product temperature in the hopper.	Yes
3.3.10.1.5	Once the operator sets the desired temperature, burner operation and temperature control shall be fully automated with this system.	Yes
3.3.10.1.6	The burner controls and thermostats shall be located in a weatherproof enclosure with a transparent cover so the temperatures can be monitored without the need to open the cover.	Yes
3.3.10.1.7	The operator control box shall be located on the curb side of the machine for operator safety.	Yes
3.3.10.1.8	The control box shall include two (2) thermostats for the operation of the heating system. One shall control the heat transfer oil and one shall monitor and control the material temperature.	Yes
3.3.10.1.9	Both thermostats shall be wired in a series to control the burner and to ensure that the oil or the material is not overheated.	Yes
3.3.10.1.10	Shall be equipped with electric overnight heaters to reduce start up time and maintain heated material at temperature using low density heat that will not scorch material.	Yes
3.3.10.2	Diesel Burner	
3.3.10.2.1	The machine shall be equipped with one (1) Beckett forced air diesel fuel burner or equivalent.	Yes
3.3.10.2.2	Shall have a maximum BTU output of 140,000.	Yes

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3.3.10.2.3	Burner chamber shall be made of 304L stainless steel and shall be securely mounted to the hopper.	Yes
3.3.10.2.4	Burner chamber shall be insulated with 2" of ceramic insulation.	Yes
3.3.10.2.5	The burner shall be completely self-contained with automatic ignition and safety shut off circuitry to stop the fuel flow if the flame goes out.	Yes
3.3.10.2.6	The burner shall operate on 12-volt DC power without the need for additional adaptors or apparatus.	Yes
3.3.10.2.7	Shall have a minimum 30-gallon diesel fuel tank.	Yes
3.3.10.2.8	The burner shall have a safety tilt switch located in the control box that will prevent the burner from firing with the body more than 10° off of the frame.	Yes
3.3.10.3	Oil Jacket System	
3.3.10.3.1	Hopper shall be of oil jacketed design with a bottom fired design.	Yes
3.3.10.3.2	Oil jacket shall heat the bottom and the sides.	Yes
3.3.10.3.3	The oil jacket shall be constructed of ten (10) gauge steel and have dual internal fill with a cold seal expansion tank.	Yes
3.3.10.3.4	The oil jacket shall have a 1" bottom drain and a 1" cold fill plug.	Yes
3.3.11	Paint	
3.3.11.1	Surfaces of the unit shall be properly prepared and primed per standard industry practices. It shall be phosphate washed (etched) and shall have a two (2) part polyurethane paint.	Yes
3.3.12	Tack Tank	
3.3.12.1	Shall have a maximum capacity of 40 gallons with a 6" fill cap.	Yes
3.3.12.2	Shall be of a diesel bottom fired configuration.	Yes
3.3.12.3	Shall have a 2" molasses gate valve for draining the tank.	Yes
3.3.12.4	Shall be insulated with 2" of 1-1/2# density, high temperature fiberglass insulation with 16 gauge outside cover.	Yes

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SECTION NUMBER	SPECIFICATION DESCRIPTION	DESCRIBE ACTUAL PRODUCT BID
3.3.12.5	Shall be powered by a Honda engine model GX390, air cooled OHV gasoline engine, 25" inclined cylinder with horizontal shaft or equivalent.	Yes
3.3.12.6	Engine shall be 11HP with transistorized igniter system and recoil electric start system.	Yes
3.3.12.7	Shall have an 18AMP charging circuit.	Yes
3.3.12.8	A 12-volt battery shall be included and located in a lockable battery box.	Yes
3.3.12.9	The engine shall power a hydraulic pump; the hydraulic pump shall power a hydraulic motor, which shall operate a Viking HL-32 material pump or equivalent.	Yes
3.3.12.10	The pump shall be capable of forward and reverse positions and have variable flow control.	Yes
3.3.12.11	Shall include 15' of flexible hose and 5' steel spray wand with an on/off valve.	Yes
3.3.12.12	A 3-way flushing valve shall be installed to allow for solvent flushing of pump and plumbing.	Yes
3.3.12.13	All hoses and valves shall be properly rated for handling patching materials and cleaners.	Yes
3.3.12.14	Shall have a washdown / cleaning system operated by a 12-volt pump with hand spray wand and 15' of hose to wash tools and interior of hopper.	Yes
3.3.12.15	Shall have a minimum 5-gallon tank for cleaning solution.	Yes
3.3.12.16	Shall have a gasoline powered plate compactor of adequate size with an attached water tank for compacting potholes.	Yes
3.3.12.17	Shall have a plate compactor carrier that raises and lowers electronically for operator convenience. Shall have a spring lock and fold up out of the way when not in use. The compactor carrier will also swing out to the curb side of the trailer for safe removal.	Yes

SPHD

ASPHALT DUMP STYLE HOT BOX



Stepp Dump Style Patching Trailers with
**INDUSTRY LEADING
TECHNOLOGIES**

 **STEPP MFG**TM
ASPHALT MAINTENANCE EQUIPMENT
651-674-4491 / STEPPMFG.COM

Industry Leading Pothole Patching Equipment

Solving Problems, Addressing Needs

At Stepp Manufacturing, our engineers produce equipment that is known in the industry for its durability, reliability and functionality. Since our beginning in 1942, our family owned operation has always produced equipment specific to your needs. We use high quality materials, innovative engineering, and quality personnel to match your needs as they grow.

Welcome to the Future of Pothole Patching

Stepp Mfg.'s SPHD dump style pothole patcher is the King of Hot Boxes, designed with the end user in mind. The low profile design and dumping capabilities, joined with an oil jacketed heating system, make this the most advanced patching trailer in the world. The Stepp SPHD Dump Trailer is designed with the **GREEN** friendly exhaust that is reused for better burner efficiency, putting the environment first and putting "Green" back into your pocket.

Stepp Mfg.'s dump style pothole patcher is used to heat and reclaim both hot mix and cold mix materials and apply them to roads, parking lots, and bridge decks to repair potholes and utility cuts. The Stepp SPHD dump style pothole patcher is offered with an oil jacketed, diesel fired heating system with a recirculating exhaust system to create a "Green Friendly" heating system. Coupling that with the market's lowest profile, 12,000# hydraulic truck hoist, and gas shock assisted top and rear doors makes this an industry leader that will give you a safe, reliable, and operator friendly machine for years to come.





Asphalt Dump Trailer



- ① **Lowest Profile on the Market**
- ② **Designed with proper weight distribution in mind “ No Outriggers Needed”**
- ③ **Oil Jacketed Hopper to Eliminate Hot Spots**
- ④ **14,000# Electric over Hydraulic Scissor Hoist/Superior Stability**
- ⑤ **50° Dump Angle**
- ⑥ **Gas Shock Assisted Top Doors and Discharge Doors**
- ⑦ **Diesel Burner With Automatic Temperature Controls**
- ⑧ **Folding Shoveling Platform to Dump Directly to Roadway**
- ⑨ **One-piece Bolt-on Shackles - 250% Stronger than the Competition**
- ⑩ **2”x6” Trailer Frame with 100% Bolt-on Components**

Industry Leading Pothole Patching Equipment



Knowledge-Technology-Innovation and Safety Driven Designs

With over 100 of years of combined industry experiences in our sales, engineering, and production team, we offer what few companies can in our product designs:
“WISDOM”

Lowest Profile on the Market

The Stepp SPHD boasts the lowest profile on the market. This allows for the operators to safely see the oncoming traffic and allows the driver to see the operator behind the unit. It also allows for a very stable low center of gravity and excellent towing. Available in 2.0 cubic yard (3 ton) capacity and in 3.0 cubic yard (4 ton) capacity.

12,000# Scissor Hoist

The SPHD line of hot boxes utilize a 12,000#, electric over hydraulic dump hoist. This is the anchor for a low profile and superior stability.



50° Dump Angle

What good is a dump trailer that doesn't dump? With our 12,000# hoist we can dump to 50° ensuring that you are going to get all of the material to the potholes. With the dumping feature this allows for small potholing jobs or large utility cuts—a little or a lot—whatever you need to get the job done. The 50° dump angle also makes clean up at the end of the night a breeze without the need to climb on the unit.

Oil Jacketed Heating System

The oil jacketed heating system allows for the smoothest most even heating on the market. The oil jacket eliminates hot spots or cold spots in the unit. The oil jacket is the premium heating system and works very well with both hot mix and cold mix materials. The oil jacketed tank extends the life cycle of the hopper and prevents burned out hopper bottoms.

Engineered Excellence

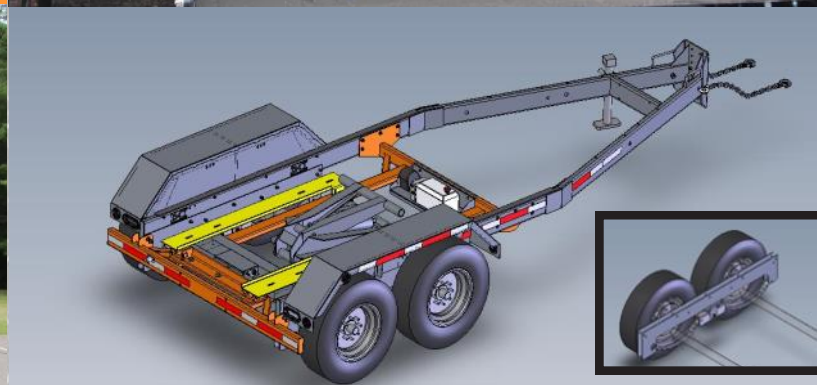
“Industry leaders with industry leading technologies”

Automatic Temperature Controls

Automatic spark ignition lights the burner with the flip of a switch and includes flame-out protection to shut off the fuel supply if the flame is blown out. The electronic thermostat has an easy-to-adjust thermostat with a setting range from 0° - 550° F. A large digital LED display makes it easy to monitor the product temperature in the tank. Once the operator sets the desired temperature, burner operation and temperature control are fully automated with this system.

Diesel Heating with “Green” Friendly Exhaust

The SPHD is fired with a Beckett, forced air diesel fuel burner with an operating output of up to 120,000 BTU. The burner fires under the oil jacket and then is returned into the top of the hopper to reuse or recycle the exhaust heat. This helps prevent the material from bridging and lowers overall cost of operation, putting “Green” in your pocket and being “Green” with less emissions.



Ultra-Lite Top Doors with Lift Assist

The SPHD offers the ultra-lite top doors with lift assist. Our top doors are constructed of formed **stainless** steel and then are insulated with 2" of high temperature fiberglass insulation. Couple that with our swing lock handles and gas assisted shocks for easy, one-handed opening and we have created the best door system on the market.

MTF Frame System Shackle Simplicity

The Modular Tubular Frame (MTF) System is truly the foundation of our units. Our MTF frame offers flexibility, maintainability, and extreme reliability. Our bolt-on module system allows for components and options to be bolted on, allowing flexibility in your configuration. The MTF frame also allows us to use our one-piece, bolt-on shackle system, “Shackle Simplicity”. This true tracking shackle system is 250% more heavy duty than anything else on the market. Our MTF frame with “Shackle Simplicity” is just another example of our industry leading technologies and designs.

Options That Bring Value, Productivity and Safety

Optional Equipment available on the Stepp SPHD Dump Style Hot Boxes

40 Gallon Heated Tack Tank

An optional diesel fired, 40 gallon tack tank keeps your tack oil warm and accessible. Couple that with the optional pumping system with spray wand and you have the ultimate tack system. A hydraulic driven, 20GPM Viking pump, 20' hose and spray wand with retractable hose reel and Honda 13HP electric start engine with charging circuit round out this super option for years of trouble free operation.

Kubota Diesel Engine

The optional Kubota diesel engine replaces the Honda gasoline engine. The Kubota D602 engine is a liquid cooled, 2 cylinder, 16HP engine with a 50AMP charging system and Deep Sea digital engine management system. This option allows for a single fuel source on your SPHD trailer and offers a lifetime of dependability and reliability. We also offer an optional noise reducing, vandal proof engine enclosure.



Electric Overnight Heat

We offer two types of electric overnight heaters on the SPHD: 110 volt electric 1500 watt overnight heaters for cold mix and 220 volt 3000 watt overnight heaters for use with cold mix and hot mix. The overnight heater is an option that pays for itself in decreased man hours in just the first few weeks of operation. This is a must have option for crews of all sizes, and just another way Stepp has helped you be more productive and save money.

Compactor Plate Carrier

The most important thing in making a patch last is compaction. We have made it easy to use the compactor plate with the compactor plate carrier. The carrier not only carries the plate but also has an electric lift and swings onto the middle of the unit for transportation.

Options That Bring Value, Productivity and Safety

Optional Equipment available on the Stepp SPHD Dump Style Hot Boxes

Shovel Cleaning Compartment

A must have option! Keeps your shovels clean and handy for the task at hand. Includes a bottom baffle to keep your shovels out of the muck, drain plug for cleaning it out and accommodates up to four shovels.

Washdown System

The washdown system includes a 5 gallon solvent tank, electric pump, 20' of hose and a spray wand. The washdown system is used to spray the hopper and tools with release agent to prevent the asphalt from sticking and building up to make clean up a breeze. An optional hose reel is also available. The washdown system also has a burner interlock that prevents the burner from firing when in operation.



Front Platform with Railing

The optional platform with railing makes easy work with clean up. The platform is constructed of grip strut, non-slip steel for safe and easy cleaning. Not available with optional tack tank system.

Arrowboard with Swing Mount

The arrowboard is mounted on the front of the hopper and has amber LED lights and selectable direction controls. The swing mount makes sure that clear visibility is top priority even when the box is in the up position.

Options That Bring Value, Productivity and Safety

Optional Equipment available on the Stepp SPHD Dump Style Hot Boxes

Strobe Lights

We offer two different strobe light systems: top mounted beacon or top flush mounted LED flashers. Both are mounted on the top of covers to protect them when loading the hopper. Have a specific strobe light that you want? Let us know and we can accommodate you.

Stainless Steel Tool Holders

The all stainless steel spring clamps will hold anything with a handle. Mounted either on the fenders or on the optional front platform, this is a must have option to carry lutes, brooms, shovels and tampers.



Battery Charger

We didn't just put a charger on our trailer, we put the right charger on it. A dual bank, 20AMP marine grade charger with float mode. The float mode is what makes this a must have option. The float mode allows you to run the burner system overnight and keep the amps flowing but will prevent the batteries from overcharging. Mounted in the battery box for ultimate protection.

LP Hand Torch

The LP hand torch includes a 20# LP bottle, bottle rack with strap, pressure regulator and hand torch. The LP torch helps heat up tools and dry out wet potholes. An optional hose reel is also available.

Options That Bring Value, Productivity and Safety

Optional Equipment available on the Stepp SPHD Dump Style Hot Boxes

Hook Mounted

Hook mount your SPHD to take advantage of fleet utilization without tying up your truck when you aren't patching.

Truck Mounted

The SPHD hopper was designed to also be chassis mounted. Very suitable for mid-sized trucks to make your patching more maneuverable. Includes hoist and sub frame.

Slip-in Style

Utilize your existing fleet of trucks with the slip-in configuration. Slides into the back of your mid-sized dump truck. Includes an adjustable shoveling platform and adjustable tailgate latch bar.



Hydraulic Discharge and Top Doors

Hydraulically operated rear discharge and top loading doors make for easy operation. A conveniently located tether operates the hopper lift, top doors and discharge doors.

Other Optional Equipment

- | | | |
|------------------------|----------------|------------------|
| Fire Extinguisher | Tool Box | SMV Sign |
| Spare Tire with Holder | Water Tank | Burner Enclosure |
| Burner Repair Kit | LED Taillights | Hydraulic Brakes |

SPHD 2.0

SPHD 3.0

Shipping Weight	4500#	5900#
GVWR	10,320#	14,000#
Length x Width x Height	208"x90"x87"	225"x90"x90"
Material Capacity	2 Cubic Yards 3 ton	3 Cubic Yards 4 Ton
Fuel Tank Capacity	30 Gallons	30 Gallons
Hydraulic Tank Capacity	2.2 Gallons	2.2 Gallons
Dumping Angle	52°	52°
Hoist Type and Capacity	12,000 # Truck Style Scissor Hoist	12,000 # Truck Style Scissor Hoist
Hopper Construction	10ga Tank 12ga Oil Jacket 12ga Insulation	10ga Tank 12ga Oil Jacket 12ga Insulation
Heat Transfer Oil	ISO 460 with a COC flash point of 550° F	ISO 460 with a COC flash point of 550° F
HTO Capacity	50 Gallons	50 Gallons
Controls	LED Automatic Temperature Controls	LED Automatic Temperature Controls
Burner Type and Output	Diesel 120,000 BTU	Diesel 120,000 BTU
Hydraulic Pump	Electric Over Hydraulic	Electric Over Hydraulic
Hitch Height	Adjustable 24"-32"	Adjustable 24"-32"
Frame Construction	2'x6"x 3/16" Rectangular Steel Tubing	2'x6"x 3/16" Rectangular Steel Tub-
Axles	Tandem 6,000#	Tandem 7,000#
Tires	(4) 235/85R16	(4) 235/85R16
Brakes	Electric, (Hyd Optional)	Electric, (Hyd Optional)
Hitch	3" Pintle or 2-5/16" Ball	3" Pintle or 2-5/16" Ball
Optional Engines	Honda 13HP Gasoline or Kubota 16hp Liquid Cooled Diesel	Honda 13HP Gasoline or Kubota 16 hp Liquid Cooled Diesel
Optional Tack Tank Size	40 gallon	40 Gallon
Optional Spray Tack System	Hydraulic Drive 20 GPM Pump with Hand Wand and 20' Hose With Hose Reel	Hydraulic Drive 20 GPM Pump with Hand Wand and 20' Hose With Hose Reel
Optional Battery Charger	Dual Bank 20 Amp Marine Grade With Float System	Dual Bank 20 Amp Marine Grade With Float System



Stepp Mfg has the Largest Line of Asphalt Patching Equipment in the Industry



SPH Hot Boxes & Reclaimers



STPH Asphalt Patch Trucks



SPHOJ Oil Jacketed Auger Hot Box



SSPH Slip In Style Asphalt Hot Boxes



SMP Mastic Patchers



SMMT Asphalt Recyclers

**Stepp Manufacturing Co., Inc.
12325 River Rd
North Branch, MN 55056
651-674-4491**

Visit Us on the Web! steppmfg.com ~ facebook.com/steppmfg



Consumer Warranty Guide



Introduction

Congratulations on your purchase of equipment built by Stepp Manufacturing for your asphalt maintenance needs. Your equipment has been designed and constructed to give you the most in performance, ease of use, and reliability. It is our desire that you will find operating the equipment both productive and profitable.

Warranty Procedures Through A Dealer

If your equipment requires repair, or needs parts for repair, please contact your area dealer. For repairs, the unit must be brought to the dealer for warranty. The dealer will require purchase date information, where the machine was purchased, and the Vehicle Identification Number (VIN) of the equipment. This information is needed so the dealer can submit a warranty claim. The dealer will repair your equipment, once warranty is approved, at no charge to you under the provisions of the warranty policy.

Warranty Procedures Direct Through The Factory *(when no servicing dealer is available in your area)*

Contact Stepp Manufacturing's Customer Service Department at (651) 674-4491.

In this situation, it may be advantageous for you to repair the machine and be reimbursed direct from the factory for warranty repairs. If you do not have the facilities, or the technicians, to perform the repair, the unit can be brought to a local repair facility. In either case, Stepp Manufacturing **MUST** be contacted and authorize the warranty repair **PRI-OR** to any work being performed. If work is done prior to authorization, the warranty will not be honored.

If parts are required for the warranty repair, contact Customer Service at Stepp Manufacturing for replacements. When warranty replacement parts are shipped to you, a Warranty Authorization Number will be issued. If asked to return the defective parts, "tag" the defective parts with the Warranty Authorization Number, then package them in the same box the new parts were shipped in. Ten (10) business days will be allowed for return of the defective parts. If the defective part is not received back at the factory within this allotted time, the warranty will not be honored.

You will be billed for all parts shipped that require returning of defective parts. However, when the defective parts are returned and evaluated, you will receive credit for the cost of the part only. Thus, it is important that all defective parts are turned to Stepp Manufacturing in the allotted ten (10) day period.

Engine Warranty Claims

When a warranty issue develops with the engine, bring the unit to the engine manufacturer nearest authorized service center for repair. Be prepared to supply them with proof of purchase information with purchase dates.

Stepp Manufacturing cannot process engine warranty claims. However, we will be happy to offer assistance in locating the nearest service center.

Equipment Owner Responsibilities

As the equipment owner, you are responsible for:

- Using the equipment in accordance with the correct operating procedures as shown in the operators manual.
- Assuring all maintenance items are completed in accordance with the operators/maintenance manuals.
- Transporting the equipment to the place where warranty repairs can be completed.
- Supplying purchase date and VIN information to establish warranty coverage.



General Warranty Statement
Stepp Manufacturing's One (1) Year Limited Warranty,
and Limited Lifetime on Trailer Frames and Hoppers and Tank Leaks

Stepp Manufacturing Co., Inc. hereby warrants, to the original purchaser of new equipment, that products manufactured by Stepp Manufacturing will be free from defects in material and workmanship for a period of one (1) year from the date of purchase from Stepp Manufacturing. **Trailer frames, hoppers and product tanks, shall be covered by a limited lifetime warranty on the unit for leaks and or cracks, due to defect in the material and workmanship.**

Stepp Manufacturing, at its discretion, will provide for the repair or replacement of any part found, upon examination by Stepp Manufacturing, to be defective, except as noted below. Such repair or replacement shall be free of charge to the original purchaser of new equipment for a period of one (1) year from the date of purchase, except as noted below.

No warranty is extended to cover:

- Product pump wear or damage caused by foreign objects.
- Routine maintenance, cleaning, and adjustments.
- Parts or components that have been altered, misused, improperly adjusted, or improperly maintained.
- Transportation to and from the place of warranty repair.
- Removal of materials from equipment.

The following items are covered solely by their manufacturer's warranty:

- Engines
- Hydraulic components
- Burners
- Pumps
- Axles
- Tires
- Other component parts not solely manufactured by Stepp Manufacturing

The following items are covered by a pro-rata warranty:

- Hoses that carry heated materials
- Heating elements for material hoses and wands

Disclaimer of further warranty:

Stepp Manufacturing makes no warranty, expressed or implied, other than this warranty. The implied warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Repair or replacement of products or parts proving to be defective in material or workmanship shall be the exclusive remedy for breach of this warranty.

Stepp Manufacturing shall not be liable for incidental or consequential damages. Including, but not limited to, damages for inconvenience, rental or purchase of replacement equipment, loss of profits, or other loss resulting from breach of this warranty.

Stepp Manufacturing reserves the right to incorporate any changes in design into its products without obligation to make such changes on products previously manufactured.

Optional Additional extended warranty

Optional 2 year and 3 extended warranties may be purchased for additional cost. Warranty shall extend for the time period that was selected.



**Twelve (12) Month Pro-Rata Limited Warranty
Heated Asphalt Hose and Heating Elements**

Effective for Equipment Delivered After 5/1/2012

Stepp Manufacturing Co., Inc. hereby warrants to the original purchaser, on a pro-rated basis, that the heated asphalt hose and heating elements installed on NEW Stepp Manufacturing's equipment shall be free from defects in material and workmanship for period of twelve (12) months for the heated asphalt hose and six (6) months for the heating element.

In the event that a heated asphalt material hose or a heating element fails under normal use during the warranty period, Stepp Manufacturing will supply a replacement heated asphalt hose or heating element, along with one-half (0.5) hour for installation labor on a pro-rated adjustment basis.

- If the failure occurs under normal use within the first three (3) months from date of purchase, Stepp Manufacturing will supply a replacement, and provide for one-half (0.5) hour installation labor at no charge to the customer.
- If the failure occurs under normal use within the fourth (4th) through twelfth (12th) months, Stepp Manufacturing will supply a replacement, and provide for one-half (0.5) hour installation labor on a pro-rata basis.

The pro-rated adjustment is based on the total number of months elapsed since the purchase date of the new equipment from Stepp Manufacturing. This rate is then applied to the one-half (0.5) hour labor rate and the current suggested retail price of the proper replacement heated asphalt hose or heating element supplied by Stepp Manufacturing. This is the amount the customer will have to pay. Freight will not be included in the reimbursement. If a new heated asphalt hose or heating element is needed prior to warranty inspection, you will be billed for all parts shipped that require returning of defective parts. However, when the defective parts are returned and evaluated, you will receive credit for the cost of the part only. **Thus, it is important that all defective parts are turned in to Stepp Manufacturing in the allotted ten (10) day period, or warranty will be denied.**

In no case will the warranty coverage extend beyond the six (6) month period for the heating element or the twelve (12) month period for the heated asphalt hose, from the original purchase date of the new equipment from Stepp Manufacturing. *Physical damage is not covered by this warranty.* Physical damage may include, but is not limited to:

- Broken heating element (typically caused by repeated bending to less than a one (1) foot radius).
- Heated asphalt hoses burnt from the inside (typically caused by operating the heating element in an empty hose).
- External cuts or abrasions on the heated asphalt hose (typically caused by dragging on the ground).

The chart below shows the pro-rated amount, by percentage, that will be allowed by warranty, pending examination of the heated asphalt hose or heating element.

Heated Asphalt Hose		
Failure Date	Warranty's Responsibility	Customer's Responsibility
0-3 Months <i>0-90 Days</i>	100%	0%
3-6 Months <i>91-180 Days</i>	70%	30%
6-7 Months <i>181-211 Days</i>	60%	40%
7-8 Months <i>212-242 Days</i>	50%	50%
8-9 Months <i>243-273 Days</i>	40%	60%
9-10 Months <i>274-304 Days</i>	30%	70%
10-11 Months <i>305-335 Days</i>	20%	80%
11-12 Months <i>336-365 Days</i>	10%	90%
After 12 Months	0%	100%

Heating Element		
Failure Date	Warranty's Responsibility	Customer's Responsibility
0-3 Months <i>0-90 Days</i>	100%	0%
3-4 Months <i>91-121 Days</i>	60%	40%
4-5 Months <i>122-152 Days</i>	40%	60%
5-6 Months <i>153-180 Days</i>	20%	80%
After 6 Months	0%	100%