

Specifications



SPH
STEPP PREMIX HEATERS



The Stepp Trailer Mounted SPH is the
perfect blend of
PERFORMANCE, DURABILITY,
and VERSATILITY

for your pothole patching needs and budget!

Quick Spec	SPH 1.5	SPH 2.0	SPH 3.0
Capacity	1.5 Cubic Yard 2 Ton	2.0 Cubic Yard 3 Ton	3.0 Cubic Yard 4 Ton
Empty Weight	3,000 lbs.	3,500 lbs.	3,900 lbs.
GVWR	7,000 lbs.	12,000 lbs.	14,000 lbs.
Dimensions (LxWxH)	208"x 90"x 68"	208"x 90"x 76"	208"x 90"x 90"
Diesel Burner BTU	120,000 BTU	120,000 BTU	120,000 BTU
LP Burner BTU	250,000 BTU	250,000 BTU	250,000 BTU
Frame Construction	2"x 6"x 3/16" Rectangular Steel Tubing	2"x 6"x 3/16" Rectangular Steel Tubing	2"x 6"x 3/16" Rectangular Steel Tubing
Axle	Single 7,000#	Tandem 6,000#	Tandem 7,000#
Tires	ST235/80R16	225/75R15	ST235/80R16
Brakes	Electric (std) Hydraulic (opt)	Electric (std) Hydraulic (opt)	Electric (std) Hydraulic (opt)
Hitch	3" Pintle or 2-5/16" Ball	3" Pintle or 2-5/16" Ball	3" Pintle or 2-5/16" Ball
Hitch Height	Adjustable 24"-32"	Adjustable 24"-32"	Adjustable 24"-32"

DETAILED SPECIFICATIONS

Models Available

- SPH 1.5
- SPH 2.0
- SPH 3.0

*Each base unit is Gravity Fed and includes an LP Burner.

Brief Description of Model Features

The Stepp gravity fed premix heater models are of a heavy construction design with a heat riser in the center of the hopper. There shall be a sloped design of the hopper that allows the material to “flow” to the shovel platform for easy dispensing. The top door lift assist shall be equipped with gas operated shocks to assist in top door opening.

Paint

Surfaces of the unit will be properly prepared and primed per standard industry practices. The machine shall be painted in your choice of High Visibility Safety Orange, Yellow or Black. Custom colors shall be available upon request. Shall have a two (2) part polyurethane paint.

Warranty

The Warranty shall be one year on parts, materials, and workmanship. Product pumps and hoses that handle heated material have a 12 month pro-rated warranty. Component parts such as engines, hydraulic components, tires, etc..., shall be covered by the component manufactures warranties. A complete warranty statement is available upon request.



DETAILED SPECIFICATIONS



Tank Construction

Hopper capacity shall be of 1.5 cubic yards (2 ton), 2.0 cubic yard (3 ton), or a 3.0 cubic yard (4 ton). All capacities shall be of triple wall construction. The inner material tank shall be of 10 gauge steel, the heat jacket constructed of 12 gauge steel, and the outer insulation jacket shall be of 16 gauge A36 steel. The floor shall be constructed of 1/4" 304L stainless steel and will be 34 3/16" deep x 37 7/8" wide and will extend 19" from the rear. The insulation shall be a minimum 2" of 1¹/₂# density, hi-temperature fiberglass. The top loading doors shall be covered with a minimum of 16 gauge steel. They shall utilize gas assist shocks with swing style handles that lock loading doors in the open and close positions. Gas assist shocks take 65% of the weight of the doors for ease of operator use. The loading doors shall be insulated with 3" closed cell polyurethane foam. Doors in the open position shall form a funnel into the heated hopper. It shall be of tapered design, 5-5/16" down to 2-3/16", with a water lip to allow water shedding. Shall have minimal clearance between top doors and hopper to decrease heat loss. The rear discharge shall have two guillotine style, low friction doors. Shall also include a gas assist opening system for easy open/close and to provide infinite positioning. It shall not require latches or hooks to hold open. The design shall be of sloped inner walls to move mix forward to allow easy shoveling. The two doors open to the shovel platform constructed of 1/4" 304 stainless steel. Total door size shall be 13" high by 36" wide. The shovel platform shall be heated with a height of 29" from the ground.



Lights

Combination stop, turn, and clearance lights with license plate bracket wired in a protective loom with 4 prong connector. Lighting options are as follows: Standard 2 light system or 2 light LED system; 4 light system: 2 separate lights for stop and turn signal, located on the rear on each side of the unit; or 4 light LED system: 2 separate LED lights for stop and turn signal, located on the rear side of each unit.

DETAILED SPECIFICATIONS

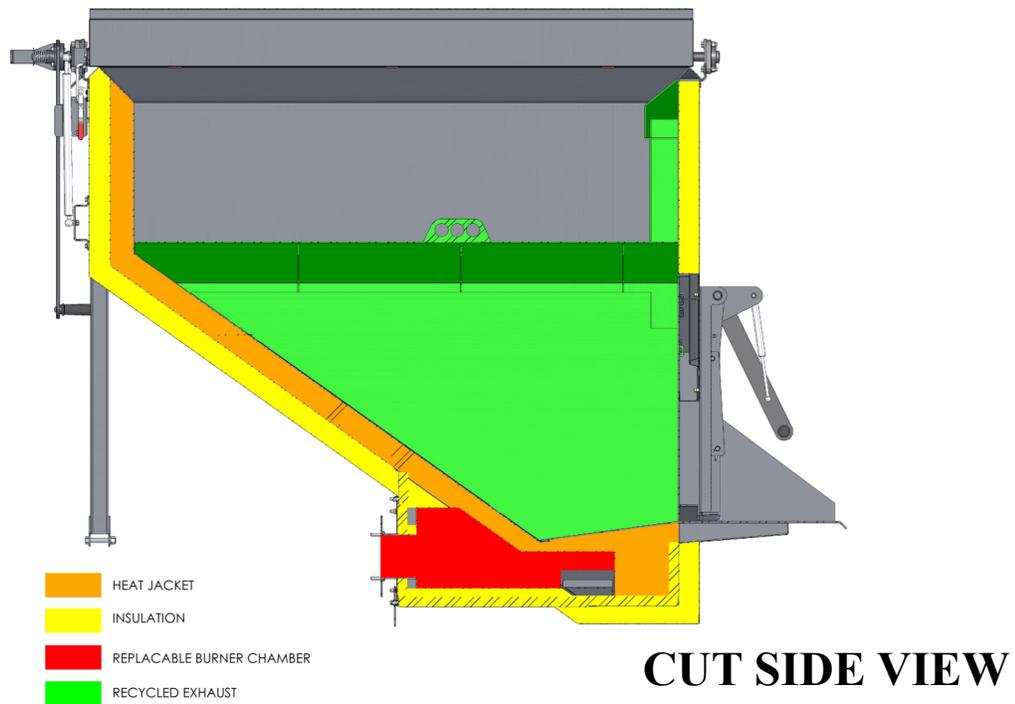
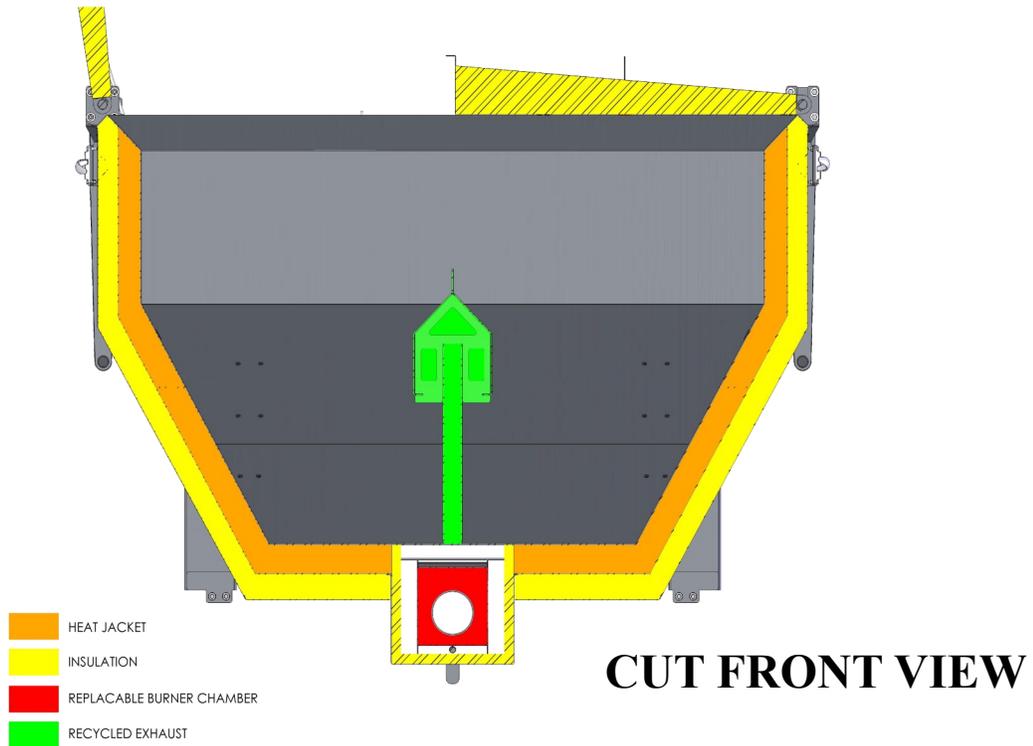
Trailer

Frame shall be A-frame style constructed of 2" x 6" x 3/16" high strength, rectangular steel tubing reinforced at all stress points. Open channel shall not be used. Suspension shall be of leaf spring type. Shall have a one-piece bolt-on shackle. Shall have electric brakes with break-away kit and tires. Hydraulic surge brakes are also available to allow for break-away protection by applying brakes in case of accidental break-away from towing vehicle. Hitch shall be of 3" pintle or 2-5/16" ball style (customer specified) and have adjustable height from 21"-34". Fenders shall be heavy duty, minimum 12 gauge steel and be of bolt-on design and able to support 500 lbs. without damage. Trailer electrical system shall be 12 volt DC battery with charging system, with a 6Pin round or 7Pin RV light plug (customer specified). Turn signals and brakes lights shall be sealed beam grommeted. Side markers shall be mounted at the rear and sides of unit. A minimum 5,000 lbs. capacity tongue jack, with swing away feature for road clearance, shall be installed. Safety chains shall be grade 40 with attached eye bolts. All wiring and fuel lines shall be run through the inside frame for protection from outside elements. All options for this unit are of bolt-on type for easy installation after unit is delivered.



DETAILED SPECIFICATIONS– HEATING SYSTEM

The heating system shall be air jacketed. Air jacket shall be engineered to evenly transfer heat and prevent scorching. Hot air shall exhaust into the hopper, providing heat over the top of the mix pile. Shall use a center heat riser to bring heat to the center preventing the asphalt from bridging. Two fuel supply burner systems available. Either burner system shall be mounted at the front of the unit, away from the operator. Burner is easily removable. All controls are located on the rear curbside of unit at operators station.



DETAILED SPECIFICATIONS— HEATING SYSTEM

Burner 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 is fully automated with this system. The burner controls and thermostats are to be located in a weather proof enclosure. The enclosure shall have a transparent cover so the temperatures can be monitored without the need to open the cover. The operator shall be able to read the product temperatures when standing 6 feet from the machine.



Propane Heating System

Propane Burner

The models are equipped with a 250,000 BTU liquid LP burner with regulator, pressure gauge, burner control valve, hose, lighting wand, and necessary fittings. Comes standard with constant ignition with an option for spark ignition with automatic temperature controls.



Diesel Heating System

Diesel Burner

The machine is to be equipped with one (1) Beckett forced air diesel fuel burner with an operating output of up to 120,000 BTU. The burner fires down a single flue constructed of 8" diameter x .188" wall thickness fire tube, and an 8" x .135" wall thickness on return tube to a vertical exhaust stack. The burner is completely self contained with automatic ignition and safety shut off circuitry to stop the fuel flow if the flame goes out. The burner is designed to operate on 12 volt DC power without the need for additional adaptors or apparatus. The heating system shall operate on either #1 or #2 diesel fuel. Fuel is supplied from a 30 gallon fuel tank.





Strobe Light

12 volt powered. Controlled from operators control panel. Strobe mounted on top rear of the unit.



Fire Extinguisher

10 lb ABC Dry Chemical fire extinguisher



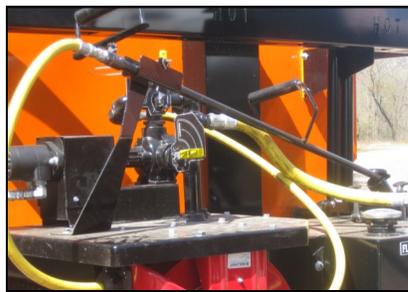
SMV Sign

DOT Approved Slow Moving Vehicle Sign.



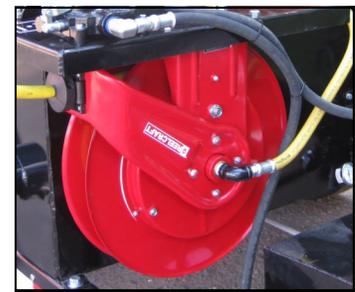
Spare Tire

Spare tire with holder mounted onto frame of unit.



Washdown System

Consists of a 12volt pump with hand spray wand and 15' hose to wash tools and interior of hopper.



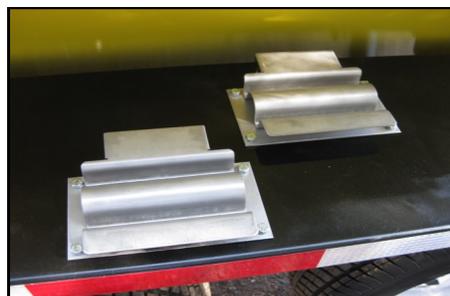
Hose Reel

Hose reels available for tack hoses, wash down hose, and hand torch hose.



Tool Box

Constructed of 12 gauge steel with cover and locking hasp 10" x 10" x 24".



Stainless Steel Tool Holders

Spring loaded clamps for holding rakes, lutes, brooms and shovels



Water Tank

15 gallon plastic water tank for use with the Compact Plate Carrier Option.



Front Platform With Railings and Steps

Shall add easy hopper access. To be constructed of grip strut grading. Shall be bolted to frame.



Compactor Plate Carrier

To have electric raise and lower for operator convenience and shall have a spring lock and fold up out of the way when not in use.



Shovel Cleaning Compartment

Shall be constructed of 12 gauge material with splash guard compartments, drain plug, and rain tight cover. Shall hold (4) four shovels.



Battery Charger

Marine grade charger to maintain battery.



Diesel Burner Enclosure

Lockable enclosure to protect burner from outside elements. Also vandal proof.



Extra Bottle Rack

One comes standard



Engine Enclosure

Lockable enclosure to protect engine from outside elements. Also vandal proof. Available for both Honda and Kohler engines.



Arrowboard

12 volt powered directional arrow. Controlled from operators control box. Mounted on rear of unit. Optional location available on request.

Options! Options! Options!



100# LP Cylinder w/ Rack

100# LP bottle with liquid withdrawal and safety collar. These are new bottles so you know your fuel won't be contaminated from those rusty "exchange" bottles often supplied to you from the fuel jobber.



Mounted LP Bottle

52 gallon LP DOT approved tank with liquid withdrawal and contents gauge mounted to trailer.



Electric Overnight Heaters

Available to reduce start up time and maintain heated material at temperature. Provides low density heat that will not scorch material.

Cold mix use: 110V 1500W
Hot mix use: 220V 3000W



Heated Tack Tank

Unit will be equipped with a heated tack tank with a capacity of 40 gallons. To have a 6" fill cap. Diesel bottom fired configuration. Will have a 2" molasses gate valve for draining the tank. Heated tack tank to be insulated with 2" of 1 1/2# hi-temperature fiberglass insulation with 16 gauge outside cover.

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Rev.7/13