



STRD
TRAILER MOUNTED DISTRIBUTOR

Specifications



Quick Specs	STRD 100-P	STRD 100-D	STRD 150-P	STRD 150-D
Burner				
Type	LPG	Diesel	LPG	Diesel
Manufacturer	Stepp	Beckett®	Stepp	Beckett®
Thermostat Control Range (f°)	0-550	0-550	0-550	0-550
Engine				
Manufacturer	Kohler®	Kubota®	Kubota®	Kubota®
Model	COMMAND	D1005	1005	V1305
Horse Power	25Hp	26Hp	30Hp	34 1/2 Hp
Required Fuel	LPG	Diesel	LPG	Diesel
Cooling	Air	Liquid	Air	Liquid
Pumping System				
Pumping Manufacturer	Viking®	Viking®	Viking®	Viking®
Pump Model	KK125	KK125	L125	L125
GPM Output	100	100	150	150
Spray Bar Length in Feet	8'	8'	12'	12'
Spray Width Adjustment Increment (feet)	4'	4'	2'	2'
Spray Bar ON/OFF Wireless Remote Control	Opt	Opt	Yes	Yes
Spray Bar Multi-Function Remote Control with Extension cable	N/A	N/A	Opt	Opt

Quick Specs	600 Gallon	800 Gallon	1000 Gallon	1200 Gallon
Heating System				
LPG Burner BTU Output (Max available)	500,000	500,000	750,000	750,000
Diesel Burner BTU Output (Max Available)	420,000	420,000	420,000	420,000
Chassis				
Frame Construction	2"x 6"x 3/16"	2"x 6"x 3/16"	3"x 8"x 3/16"	3"x 8"x 3/16"
Number Of Axles	2	2	2	2
Axle Capacity	12,000 lbs.	12,000 lbs.	14,000 lbs.	14,000 lbs.
Tire Size	225/75/R15	225/75/R15	235/80R16	235/80R16
Brake Type	Electric	Electric	Electric	Electric

DETAILED SPECIFICATIONS



STRD100-P • LPG Burner • LPG Fueled Engine **•100 GPM Pump • 8' Spray Bar**

The STRD100-P utilizes a 100 gpm pumping system with an 8 foot spray bar. The pumping system consists of a hydraulically driven 100 gpm product pump, 25 hp propane fueled engine with hydraulic pump and a hand held spray wand for tack coating. The tank is heated with a propane burner with spark ignition and automatic temperature controls.



STRD100-D • Diesel Burner • Diesel Engine **•100 GPM Pump • 8' Spray Bar**

The STRD100-D utilizes a 100 gpm pumping system with an 8 foot spray bar. The pumping system consists of a hydraulically driven 100 gpm product pump, 26 hp diesel engine with a hydraulic pump and a hand held spray wand for tack coating. The tank is heated with a forced air diesel burner with automatic temperature



STRD150-P • LPG Burner • LPG Fueled Engine **• 150 GPM Pump • 12' Spray Bar**

The STRD150-P utilizes a 150 gpm pumping system with a 12 foot spray bar. The pumping system consists of a hydraulically driven 150 gpm product pump, 30 hp lpg engine with hydraulic pump, and a hand held spray wand for tack coating. The tank is heated with a propane burner with spark ignition and automatic tempera-



STRD150-D • Diesel Burner • Diesel Engine **•150 GPM Pump • 12' Spray Bar**

The STRD150-D utilizes a 150 gpm pumping system with a 12 foot spray bar. The pumping system consists of a hydraulically driven 150 gpm product pump, 34½ hp Diesel engine with hydraulic pump and air compressor, and a hand held spray wand for tack coating. The tank is heated with a forced air diesel burner with auto-

DETAILED SPECIFICATIONS

Models Available:

- STRD100-P STRD150-P
- STRD100-D STRD150-D

*Each model is available in a 600, 800, 1000, or 1200 Gallon size.

Brief Description of Model Features

STRD100-P

- LPG Burner
- LPG Fueled Engine
- 100 GPM Pump
- 8' Spray Bar

STRD150-P

- LPG Burner
- LPG Fueled Engine
- 150 GPM Pump
- 12' Spray Bar

STRD100-D

- Diesel Burner
- Diesel Engine
- 100 GPM Pump
- 8' Spray Bar

STRD150-D

- Diesel Burner
- Diesel Engine
- 150 GPM Pump
- 12' Spray Bar

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

Tank size is available in 600, 800, 1000 and 1200 gallon sizes. The tank is round in cross section, constructed of 10 gauge steel, with 10 gauge steel flanged heads and a 10 gauge surge plate. The entire tank is to be insulated with 2" of 1 1/2# density, high temperature fiberglass insulation, and covered with a 16 gauge steel insulation jacket. Tank shall have a 20" full opening manhole with removable, basket-type strainer to prevent foreign objects from entering or falling into the tank. Also to have a lockable latch and 3" overflow pipe to eliminate spillage caused from surging material. A ladder with steps shall be also be installed. A 2" ball-type drain valve and a 2" outlet for the pumping system shall in be installed. The tank is to be equipped with a 9"x 12" clean out sump with drain plug. It shall have one dial-type thermometer located on the rear of tank with a temperature range from 0-550°F. Shall also be equipped with a float-type gauge with a large, easy-to-read pointer indicating the fluid level (flue level 1/4-1/2-f) in the tank. The tank shall be tested for leaks in accordance with N.D.E. An elliptical is also available, at customer request.



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 on each side of the unit.



DETAILED SPECIFICATIONS

Trailer

The 600 and 800 gallon models shall have frames constructed of 2"x 6"x 3/16", and the 1,000 and 1,200 gallon models of 3"x 8"x 3/16". All trailers shall be A-frame style with 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, as well as ABS Air Brakes for 1000 and 1200 gallon tanks. 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 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

Automatic Temperature Controls (optional)

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

Flue Configuration

The 600 and 800 gallon models are equipped with a single flue constructed of 6" diameter x .188" wall thickness fire tube, and a 6" x .135" wall thickness on return tube to a vertical exhaust stack.

The 1000 and 1200 gallon models are equipped with a single flue constructed of 8" diameter x .188" wall thickness fire tube, and a 8" x .135" wall thickness on return tube to a vertical exhaust stack.

Burner Output

The 600 and 800 gallon tanks are heated with one (1) Stepp MLT-500 self-vaporizing liquid LP burner with an operating output up to 500,000 BTU.

The 1000 and 1200 gallon tanks are heated with one (1) Stepp MLT-750 self-vaporizing liquid LP burner with an operating output up to 750,000 BTU.

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 420,000 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.



DETAILED SPECIFICATIONS– PRODUCT DELIVERY

Engine

Engine is equipped with throttle, governor, air cleaner, oil filter, muffler, electric starter, 15 amp charging system, battery and lockable steel battery box, and all other necessary controls.



Pumping System

The pumping system will allow for the following functions:

- Circulate asphalt within tank.
- Circulate asphalt through spray bar.
- Purge asphalt from spray bar.
- Pump asphalt to hand held spray wand.
- Pump asphalt to spray bar at controlled rate.
- Flush asphalt from system.

Product Pump

The product pump will be a Viking model KK125 positive displacement internal gear type pump having an output of up to 100 gallons per minute. The pump is driven by a reversible, variable speed hydraulic motor.



Recirculating Flush System

The flush system is a closed system that recirculates the flush solvent to greatly reduce the amount of hazardous materials requiring disposal. Solvents are circulated back to a 15 gallon flush tank and flows through baffles that allow sediments to settle in the bottom of the flush tank. When the solvents are no longer effective, the flush tank is drained and re-filled with fresh solvent. This system significantly reduces the amount of hazardous waste generated.





1 Foot Sectioned Spray Nozzle Control Allows on/off control of any 1 foot section of the spray bar. Gives outstanding flexibility in selecting spray patterns for your changing needs.



20 FT. Spray Wand Hose Twenty foot hose offers a 5 foot longer reach than the standard 15 foot spray wand hose.

25 FT. Spray Wand Hose Twenty-five foot hose offers a 10 foot longer reach than the standard 15 foot spray wand hose.

15 FT. Loading Hose Fifteen foot hose by 2 inches with cam lock for filling.

20 FT. High Temperature Hose Designed to handle asphalt temperatures to 400°F asphalt materials.

High Temperature Spray Bar

Spray bars shall be 8' or 12' total length. Spray bars are full circulating with individual valves for each nozzle. Valves are connected with a linkage that operates all valves shall instantly and simultaneously turn on, and shut off, to create a straight start-stop line during operation. The spray nozzles are spaced 6" apart and are controlled with an hyd cylinder. Spray bar extension is accomplished by manually extending either one or both of the 2' wings.

Spray Controls

The design of the Spray Controls allow all common spraying functions to be controlled with the simple flip of switches located in the control panel. The spray bar is divided into two 4 foot sections controlled with switches in the control panel.





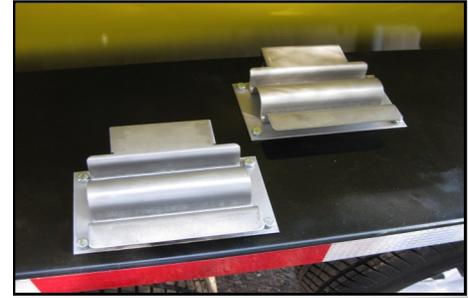
Engine Enclosure

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



Diesel Burner Enclosure

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



Stainless Steel Tool Holders

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



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



Elliptical Tank

The elliptical tank construction offers a slighter lower profile and lower center of gravity than the standard round tank construction.

Aluminum Insulation Jacket

Aluminum offers greater resistance to corrosion and weighs less than the standard steel insulation jacket.

Tank Agitator (Not Pictured)

The agitator shall be located in the vertical position, just above flue level, in the approximate center of the tank. The agitator is hydraulic powered, and controlled with a variable speed, 4-way, pressure compensated flow control allowing rotation in either direction at speeds from 0 to approximately 25 rpm.



Computer Based Recording Bitumeter

The Flow Track Bitumeter displays Pump GPM, gallons used, feet per minute (GPS) and application rate. Located on the tether and operated from truck cab

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



Mounted LP Bottle

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



SMV Sign

DOT approved slow moving vehicle sign.



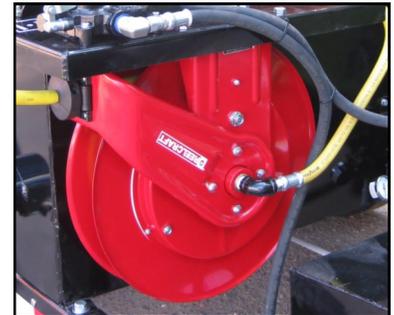
Spare Tire

Spare tire with holder mounted onto frame of unit.



Washdown System

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



Hose Reel

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



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



Tool Box

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

Repair kit for Propane Heating System

Same as the diesel kit listed in option 5 only specifically designed and equipped with parts for the propane burner system.

Repair Kit for Diesel Heating System

This kit is designed to eliminate down-time by organizing into one handy package the parts, troubleshooting procedures, and test tools needed to complete virtually any repair of the diesel heating system and the electronic thermostats. Includes a comprehensive troubleshooting and repair guide, test instruments, and all the common (and some not-so-common) parts to complete most repairs. The contents of the kit were carefully chosen to allow easy field repairs with the addition of only basic hand tools such as a screwdriver and wrench set. This kit will pay for itself quickly by minimizing down-time.



Options! Options! Options!

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