

FALCON ASPHALT REPAIR EQUIPMENT

Technical Specifications For 2017 One hundred fifty (150) gallon heated and insulated tack tank – skid mounted

SECTION 1: 150-GALLON HEATED / INSULATED REJUVENATOR HOLDING TANK AND NON-HEATED 7-GALLON RELEASE AGENT HOLDING TANK WITH SPRAY SYSTEM:

- A. Rejuvenator holding tank is:
 - 1. 150-Gallon Capacity
 - 2. Heated by a dedicated diesel burner
 - 3. Insulated with 1" rolled material
 - 4. Constructed of 10 gauge inner wall and 10-gauge outer wall
 - 5. Has a 10" diameter fill opening with a lockable civacon lid
 - 6. Has 1 ½" long-handled molasses valve mounted at the base of the tank
- B. Rejuvenator holding tank has a dedicated diesel fired burner.
 - 1. Spark Ignition system to be powered by a 12-volt battery
 - 2. Dedicated rejuvenator holding tank digital automatic temperature controller regulates the temperature of the material in the rejuvenator holding tank
 - 3. A 90-degree 50/550 thermometer mounted on the rejuvenator holding tank displays the temperature of the material.
- C. Molasses valve extends over the rear frame rail allowing material to be drawn from the rejuvenator holding tank.
- D. Spray system powered by 5 HP Honda motor
- E. Viking HL32 pump with pressure relief valve moves tack and release agent through the spray system hose
- F. Asphalt release agent holding tank has 7-gallon capacity and is non-heated
 - 1. Asphalt release agent acts as the flushing agent in the spray system
- G. Spray system and flush system plumbed with high-pressure hydraulic tubing and fittings
- H. Spray system hose length is 25 feet
- I. Flush material (asphalt release agent) and asphalt rejuvenator material flow is regulated by a manually operated selector valve (single lever adjustment regulates flow of rejuvenator or release agent through the hose)
- J. Ball valve mounted near the spray wand handle regulates material leaving the spray wand

SECTION 2: HOSE REEL FOR REJUVENATOR SPRAY SYSTEM:

- A. A Retractable hose reel for 25 foot spray system hose
- B. Hose reel must be rated for ½" hose

SECTION 3: TANK CONSTRUCTION:

- A. WALLS

1. Tank is of double wall construction and has two parallel walls (inner and outer)
 - i. Tank is heated by a stainless-steel flue
2. All walls must be of one-piece, seamless steel construction
 - i. Multi-piece wall construction has seams that allow moisture to wick into the insulation causing the insulation to sag and the steel to rust
3. All front and side tank walls are parallel
4. Zip screws may not be used in the construction of the tank
5. Conspicuity tape applied to trailer per FMCSA requirements
6. Tank includes a 24'X24" clean out port located at top of the tank

SECTION 11: DIESEL TANK HEAT SYSTEM:

A. BECKETT DIESEL BURNER

1. Hopper heated by one 105,000 BTU maximum RW Beckett diesel burner
2. Diesel burner fuel solenoid powered by a 12-volt system
3. Burner includes a cad cell (eye) to shut down the flow of fuel if the burner flame is not present
4. A pressurized pump controls the flow of fuel to the diesel burner
5. Diesel burner spark ignition system is powered by a 12-volt battery
6. Burner has automatic recycle on spark system and automatic shutdown safety system
7. Burner has inspection guard that is removable without the use of tools, while standing on the ground
 - i. This burner guard provides easy access to the burner for inspection and maintenance
8. Nozzle shall be .75 GPH
9. **Diesel burner is warranted to continuously operate while the equipment is in tow and while the hopper is raised without the flame blowing out or damaging burner components**

B. BATTERY

1. One 550 CCA 12-volt deep cell battery is mounted in a battery box on the trailer

C. DIESEL EXHAUST

1. All exhaust produced by the diesel burner vents through a double chimney on the top of the front tank wall
 - i. Venting of diesel exhaust into the tank is unacceptable because it creates a build-up of diesel fumes / carbon monoxide which the operator is exposed to when the material unloading door (back door) is opened

D. DIESEL FUEL SYSTEM

1. Trailer has an in-line quick disconnect diesel fuel filter with a water separator
 - i. A fuel filter with a water separator will prevent burner failure due to water in the diesel fuel
2. Fuel tank neck is welded into the fuel tank
 - i. Welding instead of bolting the fuel neck into the tank will prevent moisture from entering the tank at this site
3. Fuel tank includes lockable fuel cap

E. VOLTAGE INDICATOR AND PROTECTION SYSTEM

1. Heating system must include a voltage indicator and protection controller to automatically prevent burner from operating below burner manufacturer's required voltage
 - i. See page 4 of RW Beckett 12-volt ADC burner manual

SECTION 13: PAINT:

- A. Paint color is red.
- B. Two coats of epoxy primer and two coats of urethane finish are applied to all parts and entire unit
- C. Entire unit, including all bolt-on parts, are sand blasted prior to painting
- D. All accessory bolt-on parts are painted prior to assembly to chassis
- E. Non-steel parts (wiring, lighting, electrical enclosures, chains, etc.) are not painted. These components/parts are installed after the paint process is complete

SECTION 15: BATTERY CHARGER:

- A. A 12-volt marine grade battery charger is mounted on the trailer frame
- B. The battery charger is hard wired to the unit's battery

SECTION 16: WARRANTY AND DELIVERY:

- A. One-year warranty
 - 1. Pass through warranties will not be accepted
 - 2. Warranty must include the following statement:
 - i. Diesel burner is warranted to continuously operate while the equipment is in tow and while the hopper is raised without the flame blowing out or damaging burner components
- B. Four hours of safety, operation and recycling instruction are required upon delivery of the unit by a factory-trained technician
- C. One Operator / Parts / Service Manual is included upon delivery

Operation, Parts and Service Manual must be available online on the manufacturer's website