Trecan Combustion

180-PD SNOWMELTER

ISO 9001:2015 Certified



Rated Capacity:	180 tons/hr @ 30°F (-1.1°C) {Equivalent to 444-888 yards³/hr (340-680 m³/h)} {Avg Snow Density of 30-15 lbs/ft³ (480-240 kg/m³)}
Comb. Burner Output:	32,000,000 BTU/hr (33,762,000 kJ/h)
Fuel:	Winter Diesel
Fuel Capacity:	1500 USG (5,678 L)
Fuel Flow (to burner):	227 US GPH (644 L/h)
Diesel Engine:	225 HP (149 kW)
Water Capacity:	3770 USG (12,685 L)
Water Out Flow:	723 US GPM (2737 L/min) @ 38°F (3°C)
Weights (std model):	Empty: 36,000 lbs (16,329 kg) With Fuel & Water: 79,000 lbs (35,834 kg)
Fifth-Wheel Loading:	With Fuel: 25,800 lbs (11,702 kg) With Fuel & Water: 41,500 lbs (18,824 kg)
Max. Towing Speed:	Empty: 60 MPH (97 km/h) With Fuel: 10 MPH (16 km/h) With Water: 2 MPH (3 km/h)

Dimensions: Length (standard): 44'-11" (13.69 m) Width: 8'-6" (2.59 m) Height (maximum): 12'-11" (3.94 m)

General Description:

The melting tank is loaded from the left side of the trailer. The carbon steel melting tank is typically 18' (5.49m) long with a clear opening of 18' (5.49m) for loading snow. Two clean out doors are located on each side of the melting tank for removal of sediment, debris and water when melting is complete. An optional debris removal aid reduces the time to clean the melting tank. During operation, the melt water exits the tank through overflow drains located at the front of the tank and on either side of the trailer.

The 180-PD utilizes two submerged combustion burner mounted on the right side of the melting tank to provide heat and turbulence to the melting process. In the standard model, the melting tank must be filled with water before operation of the burner. In the 180-PD (M Series), the burner and melting tank are designed and built to allow a snow start capability (useful in locations where water is difficult to obtain).

A fuel tank (for sale in USA only) is located in front of the melting tank and stores fuel for both the diesel engine and burner. Most of the equipment nessesary for self-contained operation is within a walk-in engine room enclosure located at the back end of the trailer. The engine room further enhances the Trecan unit's already very high energy efficiency by capturing and directing residual heat into the melting process, with added benefits of overall noise reduction and equipment security.

Main components in the engine room include a liquid cooled turbo diesel engine which drives a hydraulic pump and burner fuel pump, with electrical power generated by the heavy duty alternator. The closed loop hydraulic system drives the blower (fan) which in turn supplies combustion air to the burner. A panel containing the safety and control system provides fully automatic operation by computer control and a graphical operator interface terminal. Remote data communications provide remote trouble shooting and software upgrade capability, and with an annual subscription will allow the customer to view historical and current operating data via a Trecan web server / database application.

Also included are all necessary internal and external lighting and indication for safe operation. The towing arrangement uses a king pin connetion to a truck fifth-wheel. Running gear includes dual-axle leaf spring suspension and air brakes. Landing gear is manual operation.

Other options include: plug-in immersion heaters, battery charger, jet fuel rated components, stainless steel melting tank, man door access to the melting tank, custom paint colors, and electric/other landing gear.

Specifications subject to change without notice (August 4th, 2022)

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