Trecan Combustion

80-PD SNOWMELTER

ISO 9001:2015 Certified



Rated Capacity	80 tons/hr @ 30°F (-1.1°C) {Equivalent to 200–400 yards^3/hr (153-306 m^3/h)} {Avg Snow Density of 30-15 lbs/ft^3 (480-240 kg/m^3)}	
Burner Output	15,000,000 BTU/hr (15,800,000 kJ/h)	
Fuel	Ultra Low Sulfur Diesel	
Fuel Capacity	762 USG (2888 L) - external UN 31 A/Y IBC tank	
Fuel Flow (to burner)	107 US GPH (405 L/h)	
Diesel Engine	134 HP (100 kW) 3.8L Tier 4 Final EU Stage V	
Water Capacity	1500 USG (5675 L)	
Water Out Flow	320 US GPM (1211 L/min) @ 38°F (3°C)	
Weights (std model)	Empty:	22,360 lbs (10142 kg)
	With Fuel & Water:	40,000 lbs (18181 kg)
Tongue loading	With Fuel:	8,200 lbs (3719 kg)
Towing Arrangement	Draw bar:	3" (7.62 cm) I.D. eye
Max. Towing Speed	Empty: With Fuel: With Water:	55 MPH (88 km/h) 10 MPH (16 km/h) 2 MPH (3 km/h)

Dimensions: Length (standard): 31'-11" (9.73 m) Width (standard): 10' (3.05 m) Height (maximum): 12'-5" (3.78 m) Loading Height: 8'-3" (2.51 m)

General Description:

The 80-PD utilizes one Trecan high intensity submerged combustion burner mounted on the melting tank to provide heat and turbulence to the melting process. The standard burner configuration requires the melting tank be filled with water before operation of the burners. With the snow-start configuration, the burner and melting tank are designed to allow a snow start at reduced capacity until enough water is available for normal operation of the burners.

The melting tank is loaded from the back of the unit. The carbon steel melting tank is typically 10' (3.05m) wide, but can be ordered in a narrow version 8'-6" (2.59m) wide, or an extended version 12' (3.66m) wide. For safe and easy access to the melting tank to remove sediment, debris and water when melting is complete, a water tight person door is located on the back of the melting tank. During operation, the melt water exits the tank through overflow drains located on either side of the unit.

The fuel tank is located at the front of the unit and stores fuel for both the diesel engine and burner. Fuel tank options include [775 USG double wall internal tank (for export), 762 USG UN IBC external tank] dependant on country requirements. A walk-in engine room enclosure is located in front of the melting tank. The engine room further enhances the very high energy efficiency by capturing and directing engine residual heat into the melting process, with added benefits of overall noise reduction and equipment security.

Main components in the engine room include a Tier 4 Final turbo diesel engine which drives two hydraulic pumps, 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, and a burner fuel pump driven by the second hydraulic pump. A panel containing the safety and control system provides fully automatic operation by computer control and a graphical operator interface terminal. A flame safeguard controller and flame scanner monitor the burner flame. 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 an adjustable height draw bar for connection to a truck pintle hook. Running gear includes dual-axle leaf spring suspension and electric brakes. Landing gear is manual operation.

Other options include: AC plug-in heaters, solar or AC battery charger, stainless steel melting tank, clean-out trays, custom paint colors, electric powered landing gear, and engine room acoustic insulation.

Specifications subject to change without notice (October 24th, 2022)

©2022 Trecan Combustion Limited. All rights reserved.

TRECAN COMBUSTION LIMITED
4049 Saint Margaret's Bay Road, Hubley, Nova Scotia, B3Z 1C2, Canada
Phone: (902) 876-0457 - Fax: (902) 876-8275
www.snowmelter.com - Email: sales@trecan.com