

TRECAN MODEL 80-PD PORTABLE SNOWMELTER

DATA SHEET

Rated Capacity:	80 tons/hr @ 30°F (-1.1°C)	{Equivalent to 200–400 yards ³ /hr (153-306 m ³ /hr)} {average snow density of 30-15 lbs/ft ³ (480-240 kg/m ³)}
Burner Output:	15,000,000 BTU/hr (15,800,000 kJ/Hr)	
Fuel:	No. 1 Oil, Stove Oil, Winter Diesel	
Fuel Capacity:	775 USG (2933 L)	
Fuel Flow (to burner):	108 US GPH (409 L/hr)	
Diesel Engine:	140 HP (104.4 kW)	
Water Capacity:	xxx USG (xxx L)	
Water Out Flow:	320 USGPM (1211 L/min) @ 38°F (3°C)	
Weights (standard model):	Empty: 19,000 lbs (8,636 kg)	<i>*Note: 2008 model TBA</i>
	With Fuel & Water: 40,000 lbs (18,181 kg)	<i>*Note: 2008 model TBA</i>
Tongue loading:	Empty: 4,400 lbs (2,000 kg)	<i>*Note: 2008 model TBA</i>
Towing Arrangement:	Draw bar: 3" (7.62 cm) ID eye	
Max. Towing Speed:	Empty: 55 MPH (88 km/h)	
	With Fuel: 10 MPH (16 km/h)	
	With Water: 2 MPH (3 km/h)	
Dimensions:	Length: 25'3" (7.70 m)	
	Width (standard): 10' (3.05 m)	
	Height (maximum): 12'5" (3.78 m)	

General Description:

The melting tank is loaded from the back of the trailer. 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. A clean out door is located on the back 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 80-PD utilizes a single submerged combustion burner mounted on 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 80-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 is located in front of the melting tank and stores fuel for both the diesel engine and burner. The top of the fuel tank supports all of the equipment necessary for self-contained operation, all within a walk-in engine room enclosure. The engine room improves overall 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. A flame-safeguard controller and infrared 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: plug-in immersion heaters, battery charger, jet fuel rated components, stainless steel melting tank, custom paint colors, and engine room acoustic insulation.

Specifications subject to change without notice (May 11, 2007)

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