

# TRECAN MODEL 350-PD PORTABLE SNOWMELTER

## DATA SHEET

<b>Rated Capacity:</b>	<b>350 tons/hr @ 30°F (-1.1°C)</b>	{Equivalent to 864–1,728 yards <sup>3</sup> /h (661-1,321 m <sup>3</sup> /h)} {average snow density of 30-15 lbs/ft <sup>3</sup> (480-240 kg/m <sup>3</sup> )}
<b>Combined Burner Output:</b>	<b>56,000,000 BTU/hr (59,000,000 kJ/h)</b>	
<b>Fuel:</b>	<b>No. 1 Fuel Oil, Stove Oil, Winter Diesel</b>	
<b>Fuel Capacity:</b>	<b>3,000 USG (11,356 l)</b>	
<b>Fuel Flow (to burner):</b>	<b>400 US GPH (1,514 l/h)</b>	
<b>Diesel Engine:</b>	<b>350 HP (261 kW)</b>	
<b>Water Capacity:</b>	<b>6,000 USG (22,700 l)</b>	
<b>Water Out Flow:</b>	<b>1,400 US GPM (5,300 l/min) @ 38°F (3°C)</b>	
<b>Weights (standard model):</b>	<b>Empty:</b>	<b>62,000 lbs (28,123 kg)</b>
	<b>With Fuel &amp; Water:</b>	<b>134,500 lbs (61,009 kg)</b>
<b>Fifth-wheel Loading:</b>	<b>Empty:</b>	<b>20,000 lbs (9,054 kg)</b>
	<b>With Fuel:</b>	<b>40,946 lbs (18,536 kg)</b>
<b>Max. Towing Speed:</b>	<b>Empty:</b>	<b>60 MPH (97 km/h)</b>
	<b>With Fuel:</b>	<b>10 MPH (16 km/h)</b>
	<b>With Water:</b>	<b>2 MPH (3 km/h)</b>
<b>Dimensions:</b>	<b>Length (standard):</b>	<b>50'-8" (15.4 m)</b>
	<b>Width:</b>	<b>10'-0" (3.05 m)</b>
	<b>Height (maximum):</b>	<b>12'-2" (3.71 m)</b>

### General Description:

The melting tank is loaded from both sides of the trailer. The carbon steel melting tank has a clear opening of 14' (4.27 m) for loading snow. Three 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 left or right side of the tank.

The 350-PD utilizes four submerged combustion burners mounted at each corner of the melting tank to provide heat and turbulence to the melting process. The burners 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 burners.

Most of the equipment necessary for self-contained operation is within a walk-in engine room enclosure located at the back end of the trailer. 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 burners. 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 connection to a truck fifth-wheel. Running gear includes tri-axle air ride suspension and air brakes. Landing gear is air-on-hydraulic 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 (February 01, 2008)

©2007 TreCAN Combustion Limited. All rights reserved.



### TRECAN COMBUSTION LIMITED

4049 St. Margaret's Bay Road, Hubble, Nova Scotia, B3Z 1C2, Canada

Phone: (902) 876-0457 • Fax: (902) 876-8275

Internet: [www.snowmelter.com](http://www.snowmelter.com) • Email: [sales@trecan.com](mailto:sales@trecan.com)