



Trecaan Snowmelters

105-PD SNOWMELTER

ISO 9001:2000 Certified

105-PD SPECIFICATIONS

Rated Capacity:	105 tons/hr {Equivalent to 259-518 yards ³ /hr (198-396 m ³ /hr) {average snow density of 30-15 lbs/ft ³ (480-240 kg/m ³)}	Water Out Flow:	420 US GPM (1590 L/min) @ 38°F (3°C)
		Weights (std model):	Empty - 23,480 lbs (10,650 kg) With Fuel & Water - 50,858 lbs (23,069 kg)
Combined Burner Output:	18,850,000 BTU/hr (19,887,800 kJ/Hr)	Tongue loading:	Empty - 4,400 lbs (2,000 kg)
Fuel:	Winter Diesel (other fuels with optional equipment)	Towing Arrangement	Draw Bar - 3" (7.62 cm) I.D. eye
Fuel Capacity	1150 USG (4353 L)	Max. Towing Speed:	Empty - 55 MPH (88 km/h) With Fuel - 10 MPH (16 km/h) With Water: 2 MPH (3 km/h)
Fuel Flow (to burner)	134 US GPH (507 L/hr)	Dimensions:	Length: 32' (9.75 m) Width (std): 8'-6" (2.59 m) Height (max): 12'-5" (3.78 m) Loading Height: 8'-4" (2.54 m)
Diesel Engine:	170 HP (126.8 kW)		
Water Capacity:	1950 USG (7382 L)		

The Trecaan 105-PD has a capacity of melting 105 tons of snow per hour, its 18.85 million BTU / hr burners (19.8878 Million BTU/hr) can melt 198 to 396 cubic yards of snow with an average snow density of 15 to 30 lbs per/ft. per hour. The model 105-PD is a side loading Snowmelter and is designed for use at airports and city snow dumps.



105-PD GENERAL DESCRIPTION

The melting tank is loaded from either the left or right side of the trailer, with an opening large enough to accept a 10' (3.05 m) wide loader bucket. The carbon steel melting tank is 8'6" (2.59 m) wide, allowing easier towing through narrow street lanes. A clean out door is located on the back of the melting tank for removal of sediment, debris and water when melting is complete. Various optional debris removal aids help reduce the time to clean the melting tank. During operation, the melt water exits the tank through overflow drains located on either side of the trailer.

The 105-PD utilizes a 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 optional model, 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, equipment security, and ease of maintenance.

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 Trecaan web server / database application.

Also included are all necessary internal and external lighting and indication for safe operation. The towing arrangement uses a draw bar for connection to a truck pintle hook. 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, engine room acoustic insulation, and electric/hydraulic landing gear.



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ABOUT TRECAN

The name TRECAN, was originally an acronym for "Thermal Research and Engineering Canada", and the company's history and origins are steeped in combustion technology and thermal efficiency. Trecan Combustion is a Canadian company that has been designing and manufacturing Snowmelters for over 35 years and to date the company has delivered over 500 machines throughout the world with large numbers in the United States, Canada and Russia. Trecan is the only Snowmelter manufacturer that builds nine different models of Portable Snowmelters and more than ten single / multiple burner models of Stationary Snowmelters.

TRECAN SNOWMELTERS

Trecan Snowmelters are the most thermally efficient Snowmelters available.

(approximately 98% efficiency)

This is due to the submerged combustion, direct contact method of heating and transferring the energy from the combustion process to the water and snow in the melting tank. With over 35 years of engineering, manufacturing and practical experience Trecan Snowmelters are the most proven, tried and tested Snowmelters available.

Trecan by the Numbers:

- #1** in Snowmelters Worldwide
- 35+** Years Experience
- 100%** Performance Guarantee
- 500+** Installations Worldwide
- #1** in Quality Assurance
- 24/7** Remote Diagnostics
- 9** Portable Models
- 10+** Stationary Models

OUR PERFORMANCE GUARANTEE

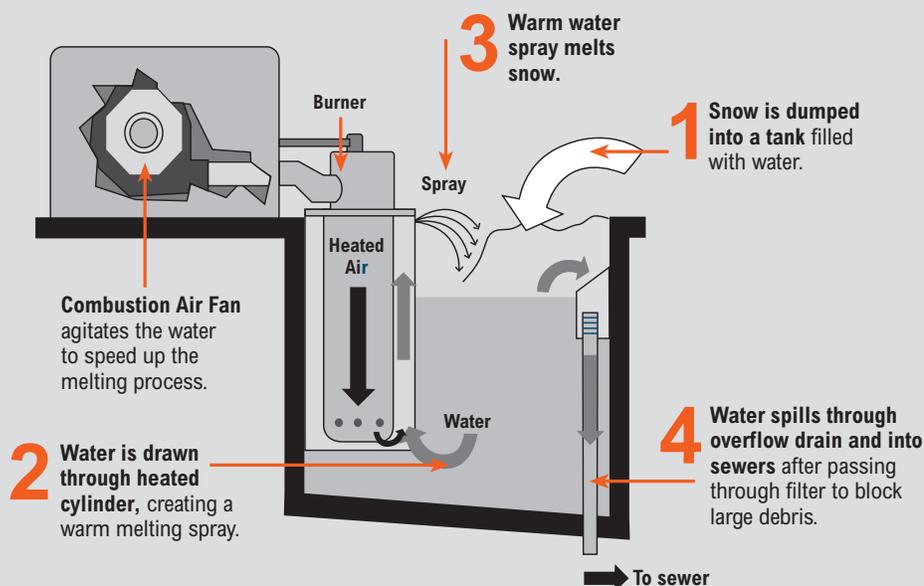
"Trecan will guarantee the capacity of our Snowmelters based on typical snow not containing any ice entering the Snowmelter at 30 Degrees F."



ISO 9001:2000 CERTIFIED

In 2002 Trecan Combustion became the only Snowmelter manufacturer to obtain the ISO 9001:2000 certification, ISO's most widely known standard. ISO 9001:2000 has become an international reference for quality assurance requirements in business-to-business dealings all over the world. ISO 9001:2000 primarily ensures that our products or services satisfy the customer's quality requirements.

How our Snowmelter Works



REMOTE DIAGNOSTICS

All Trecan Portable and Stationary Snowmelters are available with a Remote Communications Package enabling Trecan to monitor operations and conduct diagnostic checks 24/7 on Trecan Snowmelters almost anywhere in the world. This unique capability also allows for remote trouble shooting and Snowmelter software upgrades (if required and when available). We also offer an optional integrated GPS module.

COST SAVINGS

Delays in snow removal can indirectly and directly result in loss of revenue. With airports, shopping malls, and parking lots a delay in snow removal can result in tremendous loss of revenues in addition to the trucking costs. Although costs are of the most importance, speed of removal is equally so.