TRECAN MODEL 60-SG STATIONARY SNOWMELTER

MODULAR SYSTEM – INCREASE CAPACITY BY ADDING MODULES TO A COMMON TANK

Nominal Capacity:	**60 tons/hr**	{Equivalent to 150–300 yards^3/hr (114-229 m^3/h)} {average snow density of 30-15 lbs/ft^3 (480-240 kg/m^3)}
Single Burner Output:	**13,500,000 BTU/hr (3.96 MW)**	
Fuel:	**Natural Gas @ 5 PSIG (34.5 kPa)**	
Fuel Flow (to burner):	**13,500 SCFH (382 m^3/h)**	
Electric Motor:	**50 HP (37.3 kW)**	
Power Supply:	**575/3/60 or 460/3/60**	
Power Consumption:	**52 kVa (without options)**	
Water Out Flow:	**240 US GPM (909 l/min) @ 38°F (3°C)**	
Weights (standard model):	**Burner Package:**	**2,500 lbs (1134 kg)**
	Equipment Package:	**3,206 lbs (1454 kg)**
Typical Tank Dimensions:	**Length (standard):**	**10’ (3.05 m)**
	Width:	**10’ (3.05 m)**
	Depth:	**12’ (3.66 m) [minimum of 7’ (2.13 m)]**

General Description:

The top of the melting tank or pit is at grade to allow snow to be plowed directly into the melting tank/pit. In ground tanks are typically cast in place concrete pits, whereas tanks for multi-level parking structures are normally fabricated carbon steel tanks (insulated and lagged). In both cases, a tank cover is included for safety when not is use. An electric hoist mounted on a gantry provides the means to open and close the tank cover.

Cleanout of in ground tanks is typically achieved with a backhoe or a vacuum truck. For the fabricated steel tanks, an access hatch is located on the side near the floor of the tank. During operation, melt water exits the tank through overflow drains on the same side of the tank as the burner is mounted on.

The 60-SG utilizes one submerged combustion burner which provides efficiencies of close to 98%, without tube type heat exchangers obstructing the melting tank. The burner provides heat and turbulence to the melting process. In the standard model, the melting tank must be filled with water before operation of the burner(s).

Most of the equipment necessary for self-contained operation is within a fiberglass equipment enclosure located to the side or behind the melting tank. The equipment enclosure provides some noise reduction, equipment security and improved maintainability.

Main components in the equipment enclosure include an electric direct drive centrifugal combustion air blower, the Natural Gas valve train, and a panel containing the safety and control system which provides fully automatic operation by computer control and includes 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.

Other options include: immersion heaters, gas compressor package, CO monitoring equipment, stainless steel melting tank, additional noise reduction, anti-foam chemical feed system, sand removal system.

The following are not supplied by Trecan: concrete pit construction, gas piping to equipment package, water supply and discharge piping to melting tank, fused power supply to control panel. Also the unloading, mounting, installation and field connection should be handled by the local general contractor.

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Trecan Combustion
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