



## SND5400 MODEL

The Snow Dragon ND5400 Model is primarily designed for the airport market and other large scale users.

This 54 million BTU snowmelter is rated at melting 180 tons of snow per hour (600-1800 cubic yards/hr) - based on 100% of the Latent Heat of Ice.



In the post 9/11 environment, the Snow Dragon can eliminate the security risk of trucking snow away from the airport property. The SND5400 also eliminates the concern of moving environmentally contaminated snow away from the airport by keeping the snow on site and melting it there.

This model can be supplied as a mobile, stationary, or in-ground melter. The water discharge from the melter can also be hooked up to a hose and diverted to a holding tank and sent to another location.

The SND5400 has been engineered to be an easily operated low maintenance system. The two heated operating enclosures located on each end protect the burners, fuel tanks, generator, water pump system and other major components from harsh winter elements. The packaged burner design includes six 9,000,000 btu/hr burners that operate automatically and independently of each other. If a burner fails during operation, the melter will continue to operate even while maintenance personnel replace the burner in the field.

Easy access dual side loading is another feature with the SND5400. The melting hopper tank measures a total of thirty-two feet long (9.754 meters) with over an eighteen foot length (5.486 meters) area for dumping snow. Other features with this model include plug and play components, quiet operation, built-in lighting system, and visual and audible alarm indication.



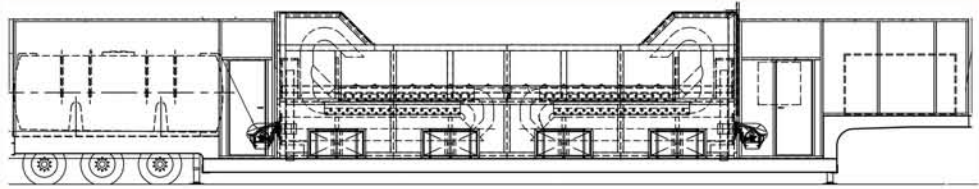
When looking at your snow removal process, Snow Dragon Snowmelters can offer up to 50% savings on your overall cost compared to hauling. Melting snow on-site has become more attractive to many due to the variable costs associated with hauling and dumping snow, increasing gas costs, scarcity of dump sites, and environmental issues with hauling.

*Call today to learn how Snow Dragon offers you better tools for managing your snow removal process!*





# SND5400 SPEC SHEET



## SPECIFICATIONS:

### Melting Capacity:

180 Tons per hour  
(600-1800 cubic yards/hr)

### Outside Ambient Temp:

32°F (0°C)

### Burner Output:

54,000,000 BTU/hr

### Fuel Type:

#1 and #2 Diesel, Jet "A" Fuel.  
Propane & natural gas if stationary.

### Fuel Usage:

240 - 360 US Gallons per hour  
(908-1362 Liters per hour)

### Fuel Capacity:

3,000 US Gallons (11356 Liters)

### Water Discharge Rate:

780 Gallons per minute  
(2958 Liters per minute)

### Water Discharge Temperature:

35°-60°F (1.6°C-15°C)

### Water Tank Capacity:

13,600 US Gallons (51481 Liters)

### Weight Empty:

Approx 43 tons (39008 kgs)

### Weight with Fuel & Water:

Approx 100 tons (90718 kgs)

### Snow Loading Access:

18'-8" wide x 10' high on both sides  
(5.690m x 3.048m)

### Measurements (approx):

68' long x 11' 6" wide x 12' 4" high  
(20.726m x 3.505m x 3.759m)

### Towing Speed Empty:

65 MPH (104 km/h)

### Towing Speed with Fuel:

60 MPH (96 km/h)

### Towing Speed with Fuel & Water:

5 MPH\* (8 km/h)\*

\* Based on water level of 36" (914.4 mm)

## OPTIONS:

- Stainless Steel Melt Pan & Hopper.
- Non-fog Mirrors
- Side Discharge.
- Work Floodlights.
- Custom Painting & Decals.
- Service Contracts.

The equipment specifications shown below are for the SND5400 mobile snowmelter. This model can also be manufactured as a stationary snowmelter fabricated onto a platform with abilities for direct power and fuel hook up. As a manufacturing and engineering firm, we can customize options to your specifications. Please contact your local distributor or the Snow Dragon home office for additional information.

## SND5400 SNOWMELTER STANDARD EQUIPMENT:

- Built and designed to comply with National Electric Code (NEC) and National Fire Protection Association (NFPA).
- Six (6) automatic ignition diesel fired 9,000,000 BTU/hr packaged burners with six heated filter.
- Patented (#7,814,898) engineered heat exchanger tubes.
- Burners will run on #1 Diesel, #2 Diesel, & Jet 'A' fuel. Natural Gas and propane if stationary.
- 3,000 US Gallon (11356 liters) fuel tank (8-9 hours of operation)
- Six (6) in line fuel heaters.
- Standard carbon steel inner dual weir system for debris separation.
- Standard heavy gauge mild steel melting tank with structural steel supports.
- Snow loading access on both sides of melter, each with 18'-8" wide x 10' high (5.690m x 3.048m).
- Two (2) heated and lighted operating enclosures with lockable access door protecting equipment including burners, water pump spray system, and generator.
- Quiet operation.
- Eight (8) clean out hatches for easy cleaning.
- Heavy duty flat bed trailer with air brakes, turn signals, and marker lights.
- Wood rail guards positioned on the melter to prevent damage to loading sides.
- Self contained diesel fired 150KW generator, located inside the heated enclosure.
- Generator battery charger.
- Auxiliary power plug is wired to power the battery charger, generator block heater, and control panel heater.
- NEMA 4/12 main control panel with temperature controller, visual and audible alarm indication, pilot controls, indicators, gauges, relays and terminals.
- Key switch to engage battery power.
- Four (4) Emergency shut down buttons located on outside of the melter.
- Six (6) 330 gallons/min (1249 liters/min) 10HP water recirculating pumps.
- Three (3) high pressure spray bars around the inside of the hopper to further circulate and spray warm water onto loaded snow.