SNOW MAKERS

ON-BOARD BOOSTER PUMP



Snow Makers
SNOWMAKERS.COM

Your Solution to **Low Water Pressure**

With our On-Board Booster Pump, you can boost snowmaking pressure from 40-120 psi (3-8 bar) to optimal pressures. This pump is perfect for venues with lower operating water pressure, such as parks or resorts with older infrastructure.

System Includes

- Manual or Automatic Standard or Kid Polecat configuration.
- 15 HP Booster Pump.
- Heated cover to insulate and protect the pump.
- 3 wheel galvanized steel carriage w/ Snowcat lifting brackets.
- Spring-loaded drain allows the operator to avoid manual drainage.

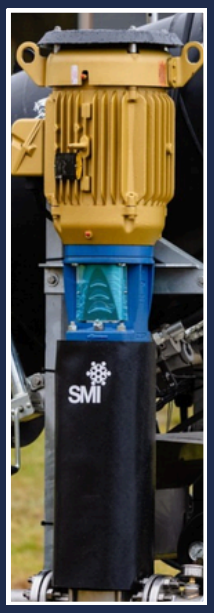


Specs

- **Fan:** 15 HP or 10 HP
- **Fan Speed:** 1760 rpm at 480V/60Hz or 1450 rpm at 400V/50Hz
- **Compressor:** 5 HP or 10 HP
- **Heating:** 225 W
- **Spray Manifold Heater:** 1,300 W (480V/60Hz).
- **Water Pressure:** Minimum 40 psi (3 bar) and maximum 120 psi (8 bar) inlet water pressure to the booster pump.
- **Valves:**
  - Standard Polecat: 3 self-draining heated 3-way valves
  - Kid Polecat: 2 self-draining heated 3-way valves
- **Nucleators:** Central nozzle with six jets
- **Filtration system:** Stainless steel filter with a washable 30 or 60 mesh screen
- **Positioning:** 360° horizontal rotation, -10° to 60° elevation adjustment
- **Oscillator:** Automatic 70° arc of rotation

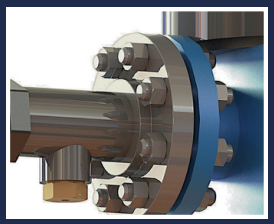


*Photo taken by Snowriver Mountain Resort



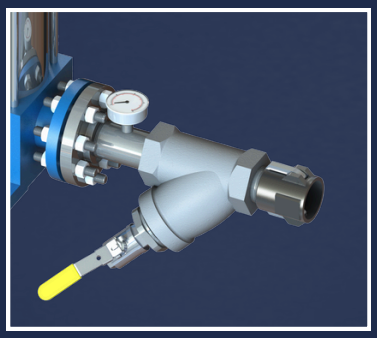
Heated Cover

The Booster Pump comes with a heated cover to insulate and protect the pump.



Drain Valve

A drain valve is connected to the bottom of the Booster Pump to automatically drain water during operations.



Wye Line Water Filter

An additional water filter is included for dirty water applications and easier maintenance.



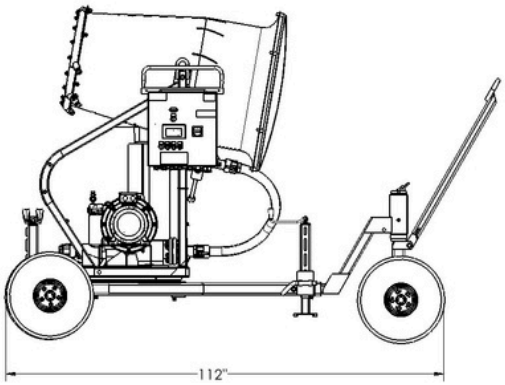


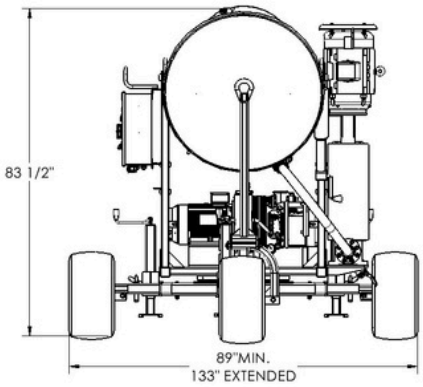




Standard Polecat with Booster Pump

Specs





Electrical

- Voltage: 480V
- Frequency: 60 Hz
- Current: 34 A
- Heating: 225 W

Power

- Fan: 10 HP or 15 HP
- Compressor: 5 HP or 10 HP
- Pump: 15 HP

Weight (lbs)

- Standard Polecat (10 HP): 2,264 lbs
- Standard Polecat (5 HP): 2,153 lbs

Operation

- Rotational Fan Speed: 1,800 RPM
- Turbine Inclination: 45°
- Oscillation: 35° (optional)

Water

- Operating Pressure
  - 40 psi minimum to 120 psi maximum inlet pressure
- Boost Pressure:
  - Up to 450 psi boost at minimum flow
  - Up to 250 psi boost at maximum flow
- Water Filter: 30 or 60 mesh

Nozzles

- Nucleator: Single 6-Jet Center Nucleator

- Manual Standard Polecat:
  - Always On Nozzles: 6
  - Switchable Nozzles: 12
  - *Total Nozzles: 18*

- Automatic Standard Polecat:
  - Always On Nozzles: 6
  - Switchable Nozzles: 12
  - *Total Nozzles: 18*

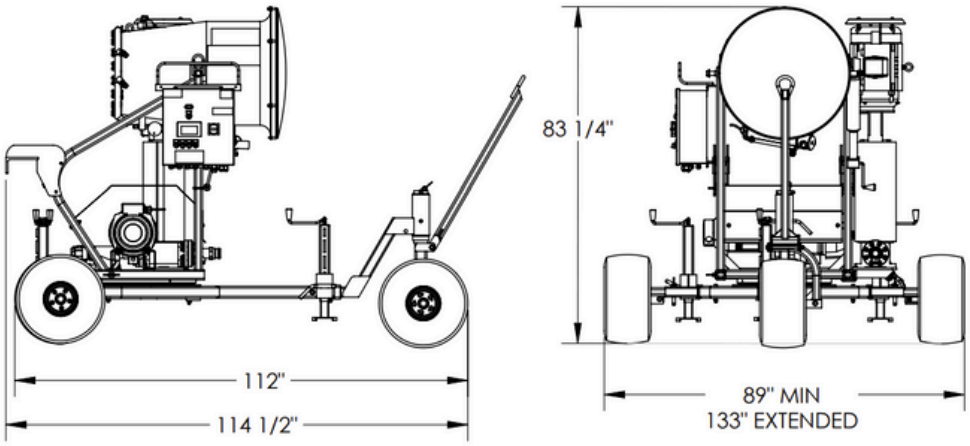

Kid




SMI

Kid Polecat with Booster Pump

Specs



Electrical

- Electrical: Three phase
- Heating: 250W
  - Optional spray nozzle heater (500-1300 W)

Power

- Fan: 7.5 HP
- Compressor: 5 HP
- Pump: 15 HP

Weight (lbs)

- Kid Polecat (5 HP): 1,989 lbs

Operation

- Rotational Fan Speed: 1,800 RPM
- Turbine Inclination: 45°
- Oscillation: 35°

Water

- Operating Pressure
  - 40 psi minimum to 120 psi maximum inlet pressure
- Boost Pressure:
  - Up to 450 psi boost at minimum flow
  - Up to 250 psi boost at maximum flow
- Water Filter: 30 mesh

Nozzles

- Nucleator: Single 6-Jet Center Nucleator

- Manual and Automatic Kid Polecat:
  - Always On Nozzles: 6
  - Switchable Nozzles: 12
  - *Total Nozzles: 18*

SMI Snow Makers

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Ready to start? Let’s build your system.

Snow Machines Inc.
www.snowmakers.com
1512 Rockwell Dr, Midland, MI 48642
P : 1 (989) 631 -6091

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Telemet · Office in Chile

Los Canteros 8723, La Reina, Santiago 7880414, Chile

Phone +56 22 356 2735

info@telemet.com

telemet.com