

NJPA AWARDED
CONTRACT

Contract # 080114-RPM

AF1

Air Forced One

Cold Air Blower



RPM
TECH

**AIRPORT SNOW REMOVAL
AND MAINTENANCE
EQUIPMENT**



The AF1 cold air blower system is the ideal solution for clearing rapidly accumulating snow, ice, standing water and debris off runways, taxiways, runway lights and aprons – and do so safely. Safety is a very important feature of our AF1 cold air blower.

The AF1 is a powerful cold air blower system with air speed of up to 850 km/h (525 mph) and airflow of up to 9.21 m³/s (19,500 cfm). It can travel at speeds of up to 90 km/h (56 mph) for snow removal and maintenance operations.

It comes with an adjustable nozzle to control and direct the desired airflow to ensure precise and efficient cleaning. The nozzle is hydraulically controlled by a joystick and can be directed to the left or right and raised 76 to 832 mm (3 to 32 ¾ in.) off the ground. The AF1 delivers flexibility, powerful cleaning and easy handling for a single operator, at a very low operating cost.

Runways require much more attention and even in good weather they are inspected every day to ensure there is no debris that might be drawn into the aircrafts engines.



Because of its manoeuvrability, visibility and not to mention a one man operation, the AF1 can reach areas where other units have difficulty in performing their tasks. It can blow dust and debris (FODs) off any taxiway or runway.



The AF1 blowing away sea shells at New London Groton Airport, CT, USA.

The AF1 clearing snow around runway lights at Montreal-Trudeau International Airport, QC, Canada.

We have received a testimonial from a maintenance company stating that there have been fewer repairs on the aircraft engines since the use of the AF1. Dust and debris are very critical for these engines.

The AF1 with its high powered blower can remove dust and particles in the crevices of the pavement where bristles cannot reach, thus reducing the danger of engine breakdown and high costs of repair.





The AF1 cold air blower clearing ice and snow at Mirabel Airport, QC, Canada.

During the winter months, runways are vulnerable to snow and ice – each of which can significantly reduce what is known as the runway tolerance. This is the degree to which a landing aircraft can stop without sliding, and a plane taking off needs a similar level of grip in order to generate the speed needed to get off the ground.

Hydroplaning is a condition that can exist when an aircraft is landed on a runway surface contaminated with standing water after heavy rain, slush, and/or wet snow. Hydroplaning can have serious adverse effects on ground controllability and braking efficiency.

The high velocity and air flow of the AF1 is a perfect combination to remove the snow, ice and debris and to dry the surface in order to reduce the potential to hydroplane, thus increasing safety for landing and taking off.

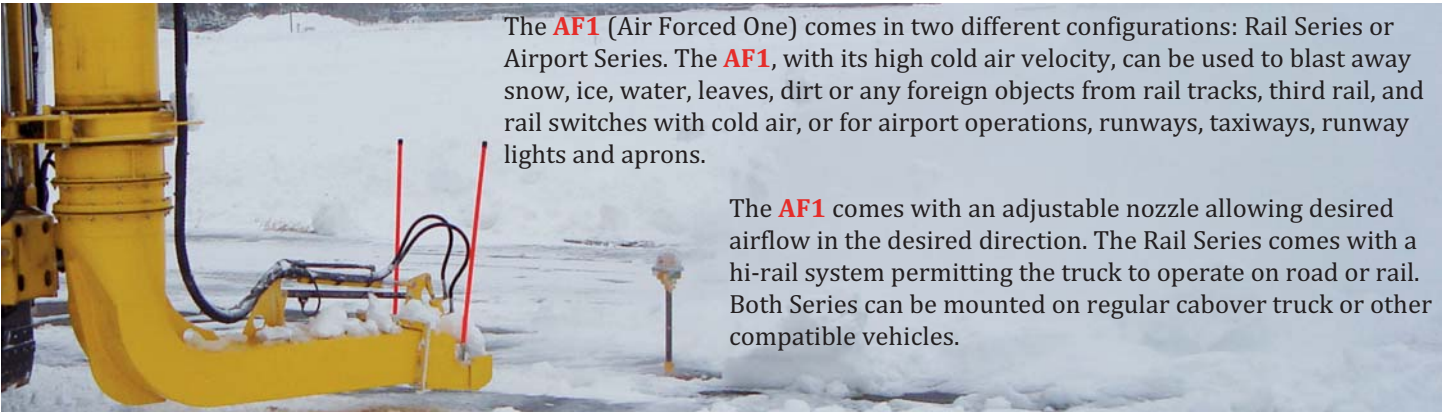


The AF1 cleaning runway lights at Geneva Airport, Switzerland.

Before and after runway centerline cleaning.



AF1 COLD AIR BLOWER TECHNICAL SPECIFICATIONS



The **AF1** (Air Forced One) comes in two different configurations: Rail Series or Airport Series. The **AF1**, with its high cold air velocity, can be used to blast away snow, ice, water, leaves, dirt or any foreign objects from rail tracks, third rail, and rail switches with cold air, or for airport operations, runways, taxiways, runway lights and aprons.

The **AF1** comes with an adjustable nozzle allowing desired airflow in the desired direction. The Rail Series comes with a hi-rail system permitting the truck to operate on road or rail. Both Series can be mounted on regular cabover truck or other compatible vehicles.

CARRIER UNIT

- Rear axle drive truck chassis with a forward control two-man cabin
- Panoramic visibility
- Turbo Diesel engine of 257 kW (345 hp)
- Automatic transmission
- Multipurpose on/off vehicle

BLOWER ENGINE

- Diesel turbocharged engine of 328 kW (440 hp)
- Drives the fan via a fluid coupling

AIR NOZZLE MANOEUVRABILITY

- Can be directed left or right
- Can be raised from 76 to 832 mm (3 to 32 ¾ in.) off ground level
- Hydraulically controlled

AIR SPEED

- Up to 850 km/h (525 mph)

AIRFLOW

- Created by a two-stage centrifugal fan
- High pressure airflow up to 9.21 m³/s (19,500 cfm)

SPEEDS

- 0 - 90 km/h (0 - 56 mph) (travel speed)
- 0 - 30 km/h (0 - 19 mph) (operating speed)

DIMENSIONS

- Overall width: 2,540 mm (100 in.)
- Overall height: 3,804 mm (149 ¾ in.)
- Overall length: 9,728 mm (383 in.)

UNIT WEIGHT

- 13,735 kg (30,280 lb)
- Truck only: 6,537 kg (14,411 lb)

OTHER AIRPORT SNOW REMOVAL EQUIPMENT



TM42R - Self-propelled snow blower



LM220 - Detachable snow blower



RPM227M - Detachable snow blower

Note: The carrier unit may differ from the ones shown in this brochure.

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