

AF1

Air Forced One

Cold Air Blower



**RAIL AND AIRPORT
SNOW REMOVAL AND
MAINTENANCE EQUIPMENT**



RAIL APPLICATIONS



Rail companies need to come to grips with the annual challenge of running trains in freezing conditions and during major snowfalls, all while keeping expenses down. The AF1 cold air blower system is the ideal solution for clearing rapidly accumulating snow, ice and hard-packed snow from tracks, third rails, switches, and even loading platforms in some cases – 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 comes with an adjustable nozzle to control and direct the desired airflow to ensure precise and efficient cleaning of tracks and switches. 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 tracks.



The AF1 can travel at speeds of up to 90 km/h (56 mph) on roads or up to 30 km/h (19 mph) on tracks for snow removal and track maintenance. The flexibility of the AF1 with its hi-rail system lets you move from one track to another or to another site with hi-rail or road traction. This flexibility helps save time, and reduces costs by increasing production efficiency in snow removal and maintenance work.

The AF1 delivers flexibility, powerful cleaning and easy handling for a single operator, at a very low operating cost.

AIRPORT APPLICATIONS



The AF1 cold air blower clearing ice and drying the surface at Geneva Airport, Switzerland.

The AF1 cold air blower cleaning runway lights.



In airports, the AF1 is used to clear snow, ice, water and debris off runways, taxiways, runway lights and aprons.

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.

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.

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.

AF1 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 appropriate direction. The Rail Series comes with our own hi-rail system design, 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 equipped with an RPM Tech 305 mm (12 in.) wheels hi-rail unit
- 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

AIRFLOW

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

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)

SPEEDS

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

DIMENSIONS

- Overall width: 2,540 mm (100 in.)
- Overall height: 3,759 mm (148 in.)
- Overall length: 9,728 mm (383 in.)

UNIT WEIGHT

- 14,288 kg (31,500 lb) including hi-rails
- Truck only: 6,537 kg (14,411 lb)

ADVANTAGES

- High air speed and air flow capacity at the nozzle
- Streamlined and efficient duct design
- Rail mounted nozzle system to allow side shift movement over the entire truck width thus increasing the cleaning area
- Ergonomic joystick control
- Engine status electronic display
- Excellent work area visibility
- Frame mounted power unit
- RPM design hi-rail mechanism



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

2011.09 ~ RPM Tech Inc. reserves the right to change or discontinue any designs, specifications, features, models or accessories shown or indicated without notice.

ISO 9001:2008

www.rpmttechgroup.com



R.P.M. TECH INC.

2220 Michelin Street
Laval (Quebec) H7L 5C3 CANADA
Tel.: 450.687.3280 • Fax: 450.781.8811
Toll free: 1.800.631.9297

184 Route 138
Cap-Sante (Quebec) G0A 1L0 CANADA
Tel.: 418.285.1811 • Fax: 418.285.4289
Toll free: 1.800.463.3882

Email: info@rpmttechgroup.com

Dealer

