

**NJPA AWARDED**  
CONTRACT

Contract # 080114-RPM

# AF1

## Air Forced One Cold Air Blower



**RAIL SNOW REMOVAL AND  
MAINTENANCE EQUIPMENT**



Rail companies need to come to grips with the annual challenge of running trains in freezing conditions and during 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 m<sup>3</sup>/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.

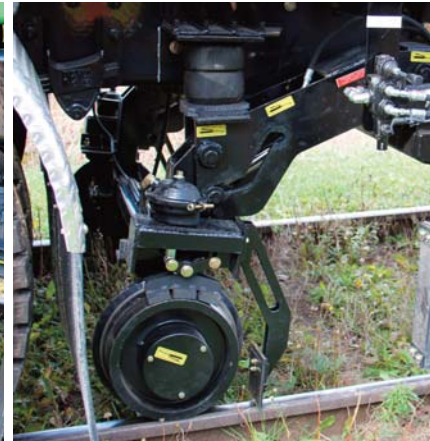
The AF1 can travel at speeds of up to 90 km/h (56 mph) on roads or up to 30 km/h (19 mph) on tracks for snow removal and track maintenance.

The AF1's hi-rail system is rapidly engaged hydraulically which enables the operator to travel from one site to another thus increasing productivity.

**Front hi-rail**



**Rear hi-rail**





The nozzle of the AF1 is hydraulically controlled by a joystick and can be directed to the left or right and raised 76 to 975 mm (3 to 39 3/8 in.) off the tracks. The AF1 delivers flexibility, powerful cleaning and easy handling for a single operator, at a very low operating cost.



Shorter hi-rail wheelbase permits the unit for shorter turning radius.



Safety is a main concern: locking bar for the nozzle in travelling mode.

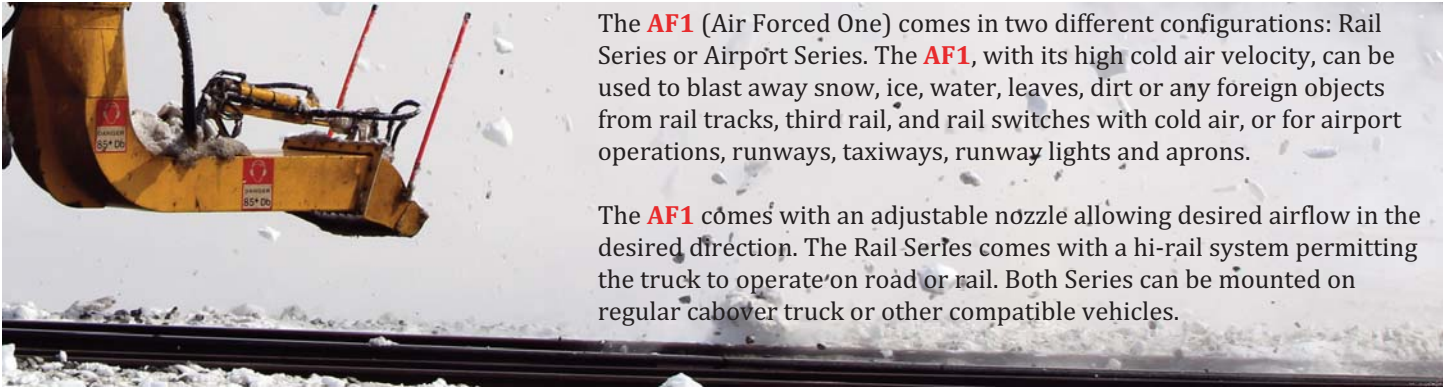


A locking bar for the steering wheel allows for easier operation of the AF1 unit.



An optional pressure washer system with pressure jets enables the operator to remove oil, dirt and grime off the rail. A 15-meter (50-foot) hose reel permits the operator to remove debris and paint from walls, bridges, platforms and different structures.

# 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 equipped with a 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

## AIR NOZZLE MANOEUVRABILITY

- Can be directed left or right
- Can be raised from 76 to 975 mm (3 to 39 3/8 in.) above the rail
- Hydraulically controlled

## AIRFLOW

- Created by a two-stage centrifugal fan
- High pressure airflow up to 9.21 m<sup>3</sup>/s (19,500 cfm)

## 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: 3,804 mm (149 3/4 in.)
- Overall length: 9,728 mm (383 in.)

## UNIT WEIGHT

- 14,887 kg (32,820 lb) including hi-rails
- Truck only: 6,537 kg (14,411 lb)

## OPTIONS

- Back-up camera
- Deicing system
- Guard rail
- Pressure washer
- Strobe and lighting

## OTHER RAIL AND METRO EQUIPMENT



**SRS Rapid Snow Removal System**



**LM220 Detachable Snow Blower Mounted on a Ballast Regulator**



**CAMELEON® Hi-Rail Road/Rail Multitask Vehicle**

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

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