

Tempest Deicer AirFirst™

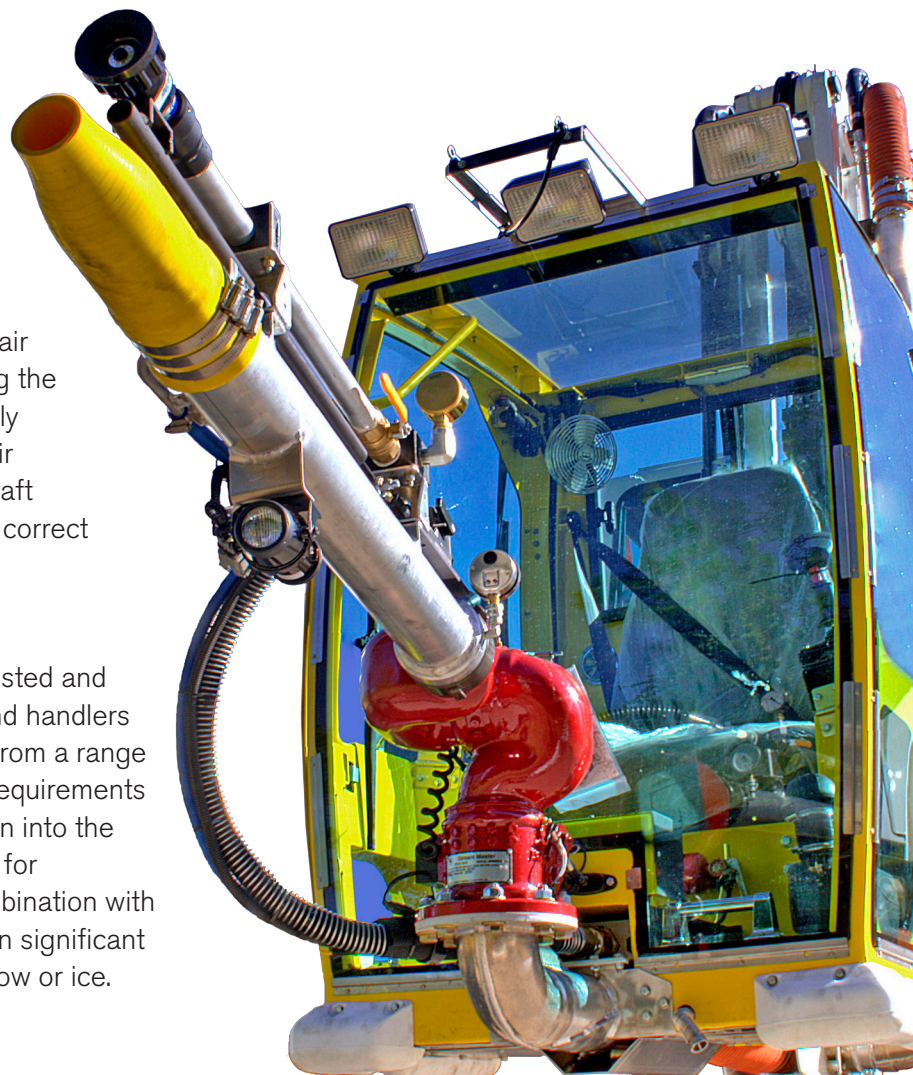
The Model of Efficiency

The JBT AeroTech Tempest deicer with AirFirst™ represents the most effective way to reduce glycol usage by up to 50%. With the rising cost of deicing fluids, stringent clean up requirements and increasing environmental concerns, reducing glycol consumption is more important than ever.

The AirFirst system provides a powerful stream of air that helps to effectively remove contaminants such as frost, snow, ice and sleet from aircraft surfaces. The AirFirst system works in conjunction with deicing fluids which break the adhesion of contaminants to the surface, and provide freeze protection. However the high speed air is much more effective than fluids at moving the contaminants off the surface, thereby greatly reducing the amount of fluid needed. The air stream also helps carry the fluid to the aircraft surface, and coats it in an even layer of the correct thickness.

Effective in Different Conditions

The AirFirst system has been extensively tested and has been in use by major airlines and ground handlers for over 10 years. The operator can select from a range of fluid and air combinations to match the requirements at hand. Selecting AirFirst with fluid injection into the airstream results in significant fluid savings for defrosting operations. Using AirFirst in combination with the full flow of heated deicing fluid results in significant time savings in case of heavy encrusted snow or ice.



Tempest Deicer AirFirst™

Powerful and Reliable System

JBT AeroTech's AirFirst system consists of a powerful 82 kW (110 hp) compressor that is mounted at the center of the deicer boom to reduce operator noise levels. The compressed air is ducted to a large nozzle in front of the basket. The air exits through a patented rubber nozzle tip at a speed of approximately Mach 0.9. Similar to standard Tempest deicers, the nozzle is controlled with an ergonomic joystick that also controls basket rotation and fluid selection. To ensure reliable operations the system features a gear driven compressor with an independent lubrication system with heating and cooling.
















Tempest AirFirst™ is Environmentally Friendly

AirFirst reduces the use of petroleum-based glycol fluids and provides a cleaner deicing operation when compared to conventional methods. In addition, the Tempest with its single engine reduces engine emissions emitted into the atmosphere.

Improving Flight Safety

JBT AeroTech's AirFirst system has been thoroughly tested in laboratory and in real life deicing conditions. The high speed air is not heated and does not damage aircraft surfaces. Application procedures are identical to those for traditional fluid deicing. In 2006 the Tempest was the first deicer to receive SAE certification for forced air application of certain anti-icing fluids.

AirFirst™ Application Guide

		Dry Snow	Wet Snow	Frozen Snow	Light Frost	Heavy Frost	Ice	Anti-ice on Clean Wing*
Air / Fluid Application	Air							
	Air + Injection							
	Air + Low Flow Nozzle							
	Air + Taskforce Nozzle							
	Low Flow Nozzle							
	Taskforce Nozzle							
	Low Air + Anti-ice							

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