



## SPARTAN ADVANCED CLIMATE CONTROL SYSTEM

With a reputation for spacious, secure, and well-designed cabs, Spartan now adds the industry's best HVAC system to its cab offerings — creating a safer and more comfortable environment for Fire Fighters working in any kind of climate.

Enduring over 20,000 miles of performance and durability testing, Spartan's Advanced Climate Control System exceeds standard performance requirements and maintains a comfortable cab, no matter the condition.



### Key Advanced Climate Control System Features:

- Aggressively cools and heats cab interior
- Quickly and effectively evacuates condensate
- Distributes air volume evenly to all occupants
- Designed for easy service and maintenance
- Defrosts/defogs quickly and effectively clears flash fogging

#### Fit and Finish.

With an improved fit, finish, and general appearance, Spartan's Advanced Climate Control System features a compact design to maximize occupant space.

Air outlets are positioned to provide direct air paths to occupants, with six directed toward the driver and front passenger and ten directed toward the crew area.

#### Condenser.

The condenser utilizes a three stage fan control — consuming only the power it needs to maximize system performance. It features sealed electrical connections that prevent corrosion and is easy to access for any service needs.

#### Drain System.

Our redesigned drain system will remove condensation even when the truck is on a 12% grade in any direction.

With no electric pump to service, it is simple to maintain and offers easy access for any maintenance need. Also, quarter turn thumb screws provide quick accessibility to the washable air intake filters.

#### Compressor.

Our Advanced Climate Control System utilizes a QP-31 compressor, which provides two times the volume capacity of the previous compressor.

#### Service and Maintenance.

Our Advanced Climate Control System was designed with easy maintenance in mind. Knowing the importance of keeping downtime to a minimum, we built it so that one person using standard tools can tackle practically any service issue or troubleshooting need quickly and easily. Electronic components are located behind the dash for easier access and service. Even major component replacement, such as the blower motor or condenser, can be disassembled, repaired, and reassembled in 3 hours or less.



## PERFORMANCE STATISTICS



### **-40° in 30 Minutes**

Spartan's Advanced Climate Control System reduces interior cabin air temperature from 122° F (+/- 3° F) to 80° F in 30 minutes.\*



### **+ 232% Air Velocity**

Air velocity has been improved an average of 232% which distributes AC or Heat throughout the cab and to all occupants more evenly and quickly than our previous roof-mounted HVAC system.



### **0 Condensation**

In testing, with AC on MAX for 1 hour with the doors open at 90° F and 95% relative humidity, all condensate generated by the system had been successfully drained outside of the vehicle.



### **+80° in 30 Minutes**

With the cabin air temp at 0° F, the foot area average air temperature reaches 80° F within 30 minutes.



### **30 Second Defogging**

When in defog mode, the system clears the windshield and the front side glass of any flash fogging in 30 seconds or less. The normal defrost mode pushes air to the windshield and side glass and defrosts in 10 minutes or less, even in a fully frosted condition.

\* Third party certified to SAE J381 standards, ACC Climate Control, Inc. who meets the requirements of the ISO/EC 17025:2005 international standards. Tests were completed on two different Spartan Gladiator models (10" Raised Roof and Flat Roof).

