

## Cool-Tech Condenser Drives Horton's Tradition of Innovation

Building upon a reputation for innovation, Horton's newest HVAC system has been hitting impressive performance benchmarks. Debuted at FDIC, Cool-Tech II offers the best in both style and function.



*Cool-Tech II Displayed at the AZ Fire Chief's Show*

### **A New Industry Standard**

Boasting a 100,000 BTU cooling condenser capacity, the Cool-Tech II provides the absolute best HVAC innovation in the EMS industry today. Standard competitor HVAC condenser units provide an average of 30,000 – 60,000 BTUs. Understanding the needs of its clients, especially those in hot climates, Horton worked to improve upon the industry benchmark. Recent testing proved the Cool-Tech II can complete a full module cool-down in less than 9 minutes on Horton's large 623 (173" long x 96" wide x 72" headroom) body. "This is a drastic 52% minimum reduction from the 19 - 22 minute cool-down that we are seeing from the competition," says Eric Fisher, Director of Engineering.

The Cool-Tech II system is operated by a patent-pending ECO smart controller. Several features of the Cool-Tech II interact to provide the best in maintenance and performance, including:

- Four unit "smart fans"

Programmed to only engage when necessary and rotate function, the controller ensures optimal performance and conservation on condenser amp draw. Current condensers on the market power all fans, regardless of need. This causes unnecessary wear on the fans and full amp draw on the chassis electrical system any time the A/C system is on.

- Energy-efficient solar panel

Providing up to 1.2 amps, the solar panels deliver enough power to operate seven LED dome lights and still have surplus to charge the truck batteries.

- Performance monitors

The ECO smart controller will monitor system performance and send alert messages to the operator when necessary. Minor issues can be identified and remedied before they turn into system problems.

- System pressure control

Whether the truck is in park or in motion, the ECO smart controller will adjust fan usage to maintain optimal system operating pressure. This reduces wear on the compressor by maintaining good operating head pressure on the A/C system.

### Style with Substance

Breaking the industry's design mold, Fisher decided to move the condenser from the front of the box to a recessed pocket on top of the module. "Some might argue that aesthetics are superfluous. The truth of the matter is that there are EMTs spending 24-hour shifts with these vehicles," says Fisher. "We want them to be proud of what they are driving. If it doesn't affect safety, standards or function, we'll do what we can to provide a better looking vehicle."

Additional benefits of the new design include:

- Additional body space area for light bars, custom light patterns, graphics or logos
- Reduced noise disturbance due to the elimination of wind turbulence
- Condenser protection from salt, mud, rocks, debris, and tree branches

"It's our belief that style and function don't have to be mutually exclusive. At Horton we work hard to produce products and innovations that incorporate both. The Cool-Tech II is a perfect example of this," says Fisher.

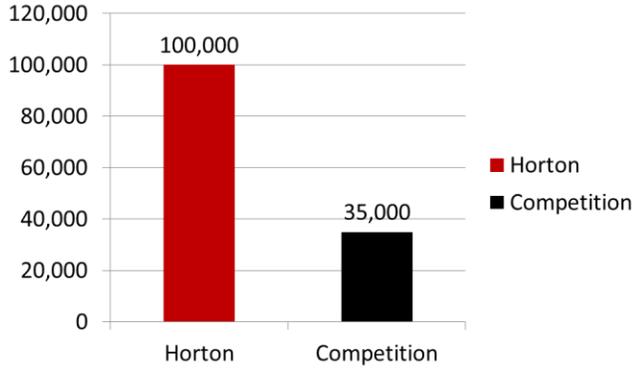
Cool-Tech II is now being offered as a premium option for future Horton orders. Patent is pending on both the condenser design and ECO smart controller.



*A close up on the Cool-Tech II Demo shows the seamlessness of the installation.*

# Cool-Tech II At-A-Glance

### Avg. HVAC BTUs



### Avg. Cool Down Time

