



Unico Spot Cooling main trunk ductwork (plenum) carries air from the air handler near ceiling height, avoiding interference with vehicle hoists and pneumatic tools or machinery.

Unico Spot Cooling Keeps Mechanics Cool & Safe

The Problem

How to keep mechanics cool in a space where the doors are constantly open. Owner Will Hawkins reached out to Scott Davis for a solution to help his workers deal with the extreme heat of Mississippi summers. Unico Spot Cooling allowed the doors to remain open while providing 30° F colder air to areas where the mechanics do most of their work. The flexible hoses allow the mechanic to direct the conditioned air specifically to where they are working.

The Solution

One 5-ton Unico Air handler using a 14-SEER condenser is used to cool 8 different workspaces in the garage. The Unico air handler hangs in the corner of the garage bay with a 10-inch I.D

insulated plenum running overhead to all workspaces. Using flexible supply tubing that terminates in 2.5-inch outlets that produce 3000 FPM of air each provides quicker cooling to the worker. Unico's 6-row deep coil uses 100% outside air to deliver 30° F colder temperatures to the worker than the ambient air in the garage. When the outside temperature is 100° F, the Unico system will deliver 70° F degree cold air out of each outlet.

- Flexible supply tubing delivers conditioned air to the workers at various points where it is needed
- Reduces energy inefficiency because the entire space is not cooled
- Provides conditioned hot or cold air OR 100% fresh outside air
- Increases employee comfort, health, and productivity

The Unico System®

The Unico MB4860 air handler is suspended near the ceiling, receives outdoor return air through a custom-made louver, and is matched to a high-efficiency outdoor heat pump.



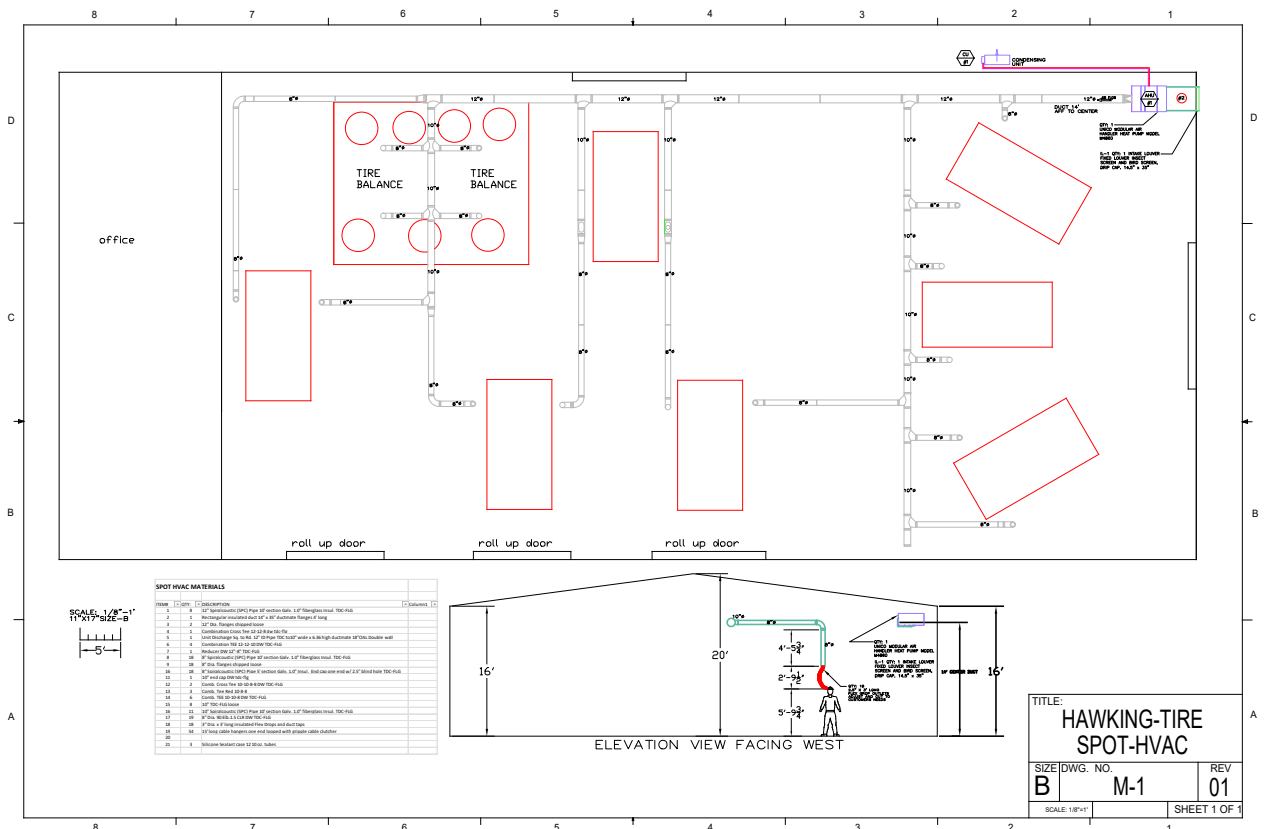
The Results

Conditioned air for the entire mechanics' workstations is supplied by one Unico M4860 four to five-ton air handling unit matched to a high-efficiency outdoor heat pump. Rigid main trunk ductwork (plenum) carries air from the air handler near ceiling height, avoiding interference with vehicle

hoists and pneumatic tools or machinery. Flexible supply tubing provides conditioned and/or outdoor air directly to the worker at various points throughout the garage.

Unico Spot Cooling - Cool the Worker, Not the Space

A diagram showing the location of the AHU main duct layout, and terminating supply tubes.



TITLE: HAWKING-TIRE SPOT-HVAC		
SIZE: DWG. NO. B	M-1	REV 01
SCALE: 1/8"=1'-0"		SHEET 1 OF 1



Unico Spot Cooling uses flexible tubing to deliver cool air to the mechanics at their workstations rather than inefficiently trying to condition the entire space.



Company:

Hawkins Tire Center
Nettleton, MS
www.facebook.com/hawkinstirecenter/

Application:

Unico Spot Cooling

Distributor:

Scott Davis
Air Solutions, Inc.
www.airsolutions.us

Installer:

Mitch Sullivan
Liberty Electric
Nettleton, MS

Design, Engineering & Startup Services by Air Solutions, Inc.

As the Industrial Representative Firm for **Unico, Inc.**, **Air Solutions Inc.** offers comprehensive design, engineering, and startup services for cutting-edge air solutions.

We provide:

- **Precise System Drawings:** Detailed and clearly labeled drawings for easy and efficient equipment installation, with **stamped drawings** available for all states across the U.S.
- **Advanced Software Tools:** Unico utilizes **computer-aided software** (similar to CFD Modeling) to optimize air flow and velocity, ensuring maximum efficiency and performance of your system.
- **Proven Technology:** Unico's innovative systems are designed to deliver **spot cooling and heating** in industrial environments without the risk of condensation or safety issues, outperforming traditional systems in both reliability and efficiency.
- **Factory Startup & Training:** Unico Systems provides **factory startup services** to confirm proper system operation, alongside comprehensive customer training to ensure your team is fully equipped to manage and operate the system.

The Unico System®

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Unico, Inc. is the leader in Small-Duct High Velocity (SDHV) heating and cooling systems and other high-end HVAC systems. The company manufactures all of its products in St. Louis, Missouri, with over 125,000 square feet of modern manufacturing space. The company is well known for extensive use in older, architecturally unique homes and buildings as well as elite, high-end custom homes. The company is family owned and operated and is available throughout the United States and Canada, and in over 28 countries around the world.



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