



### Model 610 Adjustable Cold Air Gun System

Our most popular and versatile model is ideal for a wide range of machining operations and other spot cooling needs. The Cold Air Gun's easily adjustable temperature and airflow settings and instant on/off capability makes it simple to adapt its cold air output to the application.

- Eliminates the mess, expense and safety concerns of using mist coolants
- Avoid secondary parts cleaning after machining
- Cools parts to reduce normalization time and hold tight part tolerance
- Single turn adjustable temperature for your specific application
- Magnetic base for easy "machine to machine" portability

### Model 608 Mini Cold Air Gun System

Its compact size allows close positioning for dry grinding and operations with limited space. The Mini Cold Air Gun delivers a stream of sub-zero air to the work area to cut hours from your grinding, sawing, drilling, or other machining operations.

- Reduces grinding wheel loading caused by overheating
- 3 axis magnetic base for easy, close-in positioning
- Eliminates edge burning and heat distortion
- Speeds production and extends tool life



### Air Consumption at 100 PSIG (6.9 Bar)

MODEL NO.	SCFM	SLPM
Model 610 Adjustable Cold Air Gun	15	425
Model 608 Mini Cold Air Gun	8	226
Model 424 Thread Guard Needle Cooler	4	113
Model 609 Adjustable Hot Air Gun	15	425

80-100 PSIG recommended for optimum performance.  
System models 610, 608, 609 and 424 include a 5 micron Auto-Drain filter.



### Adjustable Hot Air Gun System

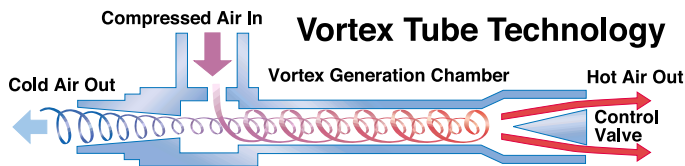
The Model 609 Adjustable Hot Air Gun spot pre-heats parts and processes using no electricity. Uses only filtered compressed air to generate fully adjustable temperatures up to 200°F (93°C). Ideal when moderate heat levels are required.

### Model 424 Thread Guard

Keeps industrial sewing needles cool to virtually eliminate heat-related needle breakage and thread burning. The 10°F (-12°C) air stream is especially effective on difficult sewing operations such as belt loops and waist bands or tough materials like denim.



## How Cold Air Guns Generate Frigid Air



A vortex tube spins compressed air to produce hot and cold air streams, generating temperatures down to 100°F below inlet temperature

Fluid (air) that rotates around an axis (like a tornado) is called a vortex. A Vortex Tube creates cold air and hot air by forcing compressed air through a generation chamber, which spins the air at a high rate of speed (1,000,000 RPM) into a vortex. The high-speed air heats up as it spins along the inner walls of the Tube toward the control valve. A percentage of the hot, high speed air is permitted to exit at the valve. The remainder of the (now slower) air stream is forced to counterflow up through the center of the high-speed air stream in a second vortex. The slower moving air gives up energy in the form of heat and becomes cooled as it spins up the tube. The chilled air passes through the center of the generation chamber finally exiting through the opposite end as extremely cold air. Vortex tubes generate temperatures down to 100°F below inlet air temperature. The control valve located in the hot exhaust end can be used to adjust the temperature drop and rise for all Vortex Tubes.

**Exceptionally reliable and virtually maintenance free**



10125 Carver Road  
Cincinnati, OH 45242

513-891-7474 or 800-441-7475  
Fax: 513-891-4092

Website: [www.itwvortec.com](http://www.itwvortec.com)  
e-mail: [techsupport@vortec.com](mailto:techsupport@vortec.com)

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