



## NEWS RELEASE

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### **Wine Guardian Through-the-Wall Quietest and Most Energy Efficient Wine Cellar Cooling System** *Data confirmed in independent lab testing conducted by Clarkson University*

North Syracuse, NY (November 29, 2010)--Connoisseurs of fine wine store and age their collections according to special requirements that are not satisfied by a typical room air conditioner. So they turn to specialty cooling equipment provided by some manufacturers to control the internal environments of their wine cellars and storage rooms. Consumers can select from a variety of designs.

The newest in climate control solutions for wine storage is Wine Guardian's Through-the-Wall (TTW) model, a compact and lightweight wine cooling system that has been specifically designed to fit into the same sized wall dimensions as competitive equipment, according to Wine Guardian Division Manager Michael Militi. In addition to its small footprint, which is an important consideration when building or retrofitting wine cellars, the system is available in two capacities to handle various cellar sizes and applications, Wine Guardian TTW009 and TTW018.

The patent pending Wine Guardian Through-the-Wall sets itself apart from other wine cooling equipment by being the quietest and most energy efficient through-wall system available in North America. These findings are based on research conducted by the Center for Atmospheric Research in Sciences and Engineering (CARES) at Clarkson University in Potsdam, NY in the spring and summer of 2010.

"The CARES report illustrates the technical differences between units of approximately the same capacity, which is what the customers will want to know before deciding on the cooling system most appropriate for their wine collection," explained Mike Militi. "Sound levels are important to customers whose wine cooling equipment is located in a space adjacent to living areas," Militi explained.

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“The Wine Guardian TTW units tested were approximately 50% quieter than the closest competitive unit tested.” Energy consumption during peak cooling, expressed in btu/hr/watts, also was measured. “Findings confirmed that both WG models, TTW009 and TTW018, have the best cooling capacities per unit energy consumed. In fact, WG Through-the-Wall systems use almost 50% less energy compared to competitive brands of comparable size,” Militi said.

CARES methodology included testing five different wine cooling units in a simulated wine room that closely mimicked typical cellar temperature and humidity conditions. The variables that were examined included: sound levels inside and outside the test room; air flow on both sides of each unit; electrical energy consumed; and, cooling capacity for each unit. The tested units included two Wine Guardian units, manufactured by Air Innovations (models TTW018 and TTW009), two WhisperKOOL units, manufactured by Vinotheque (models 4200 and 8000), and one Breezaire unit, manufactured by Breezaire Products Company (model 4000). The research was commissioned by Air Innovations.

Militi suggested contacting an authorized WG distributor for more information on how to correctly size and select the most appropriate climate control system for your particular wine cellar. “A variety of factors must be considered,” he noted, “including the size of the space to be cooled, whether or not its for residential or commercial use, the type of wall and ceiling construction and insulation values.

The WG Through-the-Wall system features an electronic thermostat and humidistat to monitor cellar temperature and humidity. To enhance design appeal, the system boasts a contemporary design with streamlined airflow louvers and a black and stainless steel faceplate incorporating the digital display. Wine Guardian TTW is the only wine cellar cooling system that can control the relative humidity in a cellar with the addition of an optional humidifier. The TTW control system monitors, displays and controls the humidifier to control to the customer-selected set point. Wine Guardian TTW can easily be mounted flush with the cellar wall or racking, and includes Wine Guardian’s new EasyMount™ one-piece wall sleeve and support frame. Wine Guardian is manufactured with corrosion-resistant, commercial-grade components and is certified to Underwriters Laboratories standards.

A comparison of sound and cooling capacities is summarized in the table below. Details regarding CARES testing methodology and assessment of wine cooling units is available at [wineguardian.com/News](http://wineguardian.com/News). For more information or to contact an authorized Wine Guardian distributor visit [www.WineGuardian.com](http://www.WineGuardian.com) or call 800-825-3268.

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Through-Wall Wine Cellar Cooling Comparison Chart						
	Sound		Airflow	Cooling Capacity <sup>2</sup>	Energy Consumption	Energy Efficiency (cooling capacity per watt) <sup>3</sup>
	Inside	Outside				
	dB <sup>A</sup> <sup>1</sup>	dB <sup>A</sup> <sup>1</sup>	FT <sup>3</sup> /min	Btu/hr	Watts	Btu/hr/watt
<b>Wine Guardian TTW 009</b>	<b>59.5</b>	<b>57.8</b>	<b>99</b>	<b>1007</b>	<b>288</b>	<b>3.50</b>
WhisperKOOL 4200	65.3	62.5	130	1112	473	2.35
<b>Wine Guardian TTW 018</b>	<b>61</b>	<b>57.7</b>	<b>147</b>	<b>2163</b>	<b>358</b>	<b>6.04</b>
Breezaire WKL 4000	65.3	62.5	166	2316	608	3.81
WhisperKOOL 8000	66.4	60.8	337	2972	677	4.39
<b>NOTES:</b>						
<sup>1</sup> dBA (decibels/A scale): Sound readings at 3 feet. A change of 3 dBA is approximately equal to two units running side by side; 10 dBA is a doubling of noise.						
<sup>2</sup> Cooling capacity ratings at:	Wine cellar return air temperature 58.3°F, average humidity 53.7%					
<sup>3</sup> Derived data (notes supplied by Air Innovations)	Condenser air inlet temperature of 74.5°F, average humidity 30.6%					

**About Wine Guardian**

Wine Guardian, an Air Innovations company, is a world-renowned leader in wine preservation. Whether used in residential wine cellars, restaurant and hotel wine storage or wine retail establishments, and regardless of the size of the wine cellar, Wine Guardian systems deliver superior performance in temperature and humidity to ensure perfect conditions for each wine collection. Wine Guardian systems incorporate cooling, heating, filtration, ducting, internal safety devices, and high or low ambient control as integrated solutions. Humidification can be built into the system at time of order or added separately. Wine Guardian also offers multiple installation configurations, including through-the-wall (flush, fully recessed or semi-recessed), remote mount, indoor, or outdoor (protected appropriately from the weather). All Wine Guardian products are made in the USA and certified to Underwriters Laboratories standards. For more information or to find an authorized Wine Guardian distributor visit [www.WineGuardian.com](http://www.WineGuardian.com) or call 800-825-3268.

Wine Guardian® is an Air Innovations® company.  
 Wine Guardian is a registered trademark of Air Innovations.  
 Wine Guardian Through-the-Wall is patent pending.  
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