



CONTROL THE ELEMENTS



# CellarPro Cooling Systems 3200 Series



Owner's Manual



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## Summary

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CellarPro 3200 Series cooling units are designed for cellars from 400 to 800 cu ft, as follows:

- **CellarPro 3200VSi** – rated for interior use
- **CellarPro 3200VSx** – rated for interior & exterior use

CellarPro's 3200 cooling units use two powerful, variable-speed centrifugal fans and offer three fan-speed settings from super-quiet to high-performance for maximum installation and application flexibility:

- **Low fan-speed setting** – CellarPro's 3200VS wine cooling unit is nearly ten decibels quieter and produces almost as much BTU as Whisperkool's XLT 3000
- **Medium fan-speed setting** – CellarPro's 3200VS cooling unit is 15% more powerful and more than 5 decibels quieter than Whisperkool's XLT 3000
- **High fan-speed setting** – CellarPro's 3200VS provides 22% more BTU than Whisperkool's XLT 3000, handles extreme conditions from 40 to 115 degrees, and the cooling unit can be ducted up to 100 equivalent feet (50 per vent)

## Specifications

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	<b><u>3200VSi</u></b>	<b><u>3200VSx</u></b>
Capacity:	800 Cu Ft	800 Cu Ft
Size (inches):	14.1w x 25.1d x 19.6h	14.5w x 27.6d x 19.7h
Weight (lbs):	92	100
Ship Weight (lbs):	127	137
Ship Dims (inches):	19w x 30d x 25h	19w x 30d x 25h
Power/Rating:	115V AC / 60 Hz; 9.2 Amps	115V AC / 60 Hz; 9.2 Amps
Warranty:	2 Years (Entire System) / 5 Years (Compressor)	2 Years (Entire System) / 5 Years (Compressor)



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## Key Features

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- 800 Cu Ft Capacity
- Designed to operate in extreme temperature conditions (115°F)
- High-performance compressor
- Oversized Electrofin-coated evaporator coils (VSi & VSx) and condenser coils (VSx)
- Dual high-output centrifugal fans
- Advanced LED display and electronic temperature control
- Adjustable humidity control via electronic display
- Thermostat-modulated condensate evaporator with “On/Off” control
- Stainless steel drain pan and 1/2”I.D. drain line
- Dual power source (front and rear)
- Adjustable mounting brackets (eliminates the need for a support shelf)
- Removable condenser air filter (3200VSi – fiberglass and 3200VSx – Aluminum)
- 1/4” refrigeration service (Schraeder) valve & removable steel case
- Energy-Saver and Quick-Chill modes
- Multiple audible and visual alarms
- Compatible with a dedicated 15-Amp circuit
- ETL tested and certified (UL Standards)
- **3200VSx Exterior Package:** Weather Hood, Coated Condenser Coils, Double-Powdercoated Case, Reusable Aluminum Filter, and Exterior-Grade Power Cord



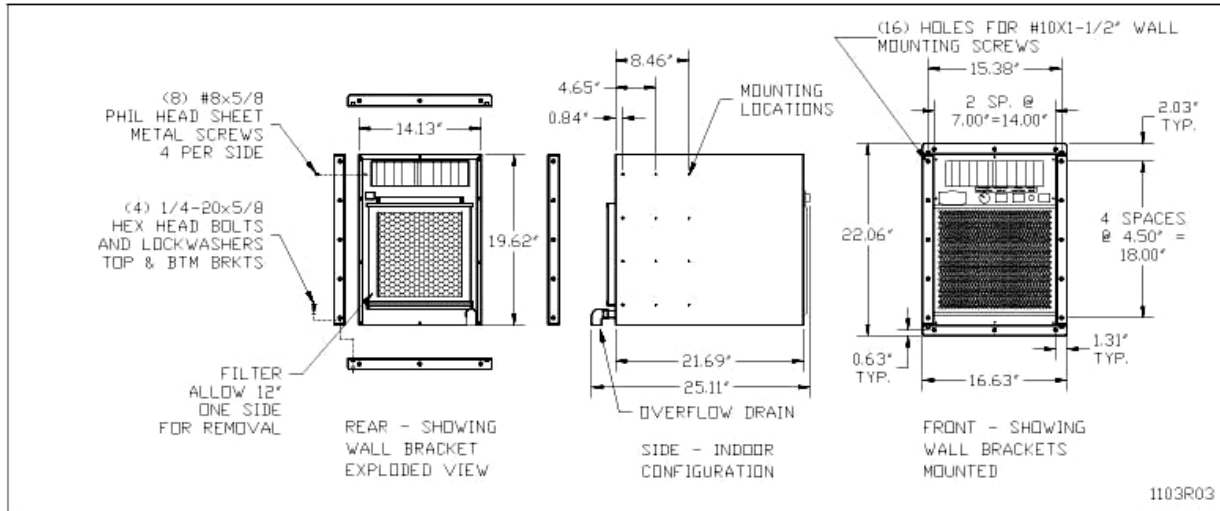


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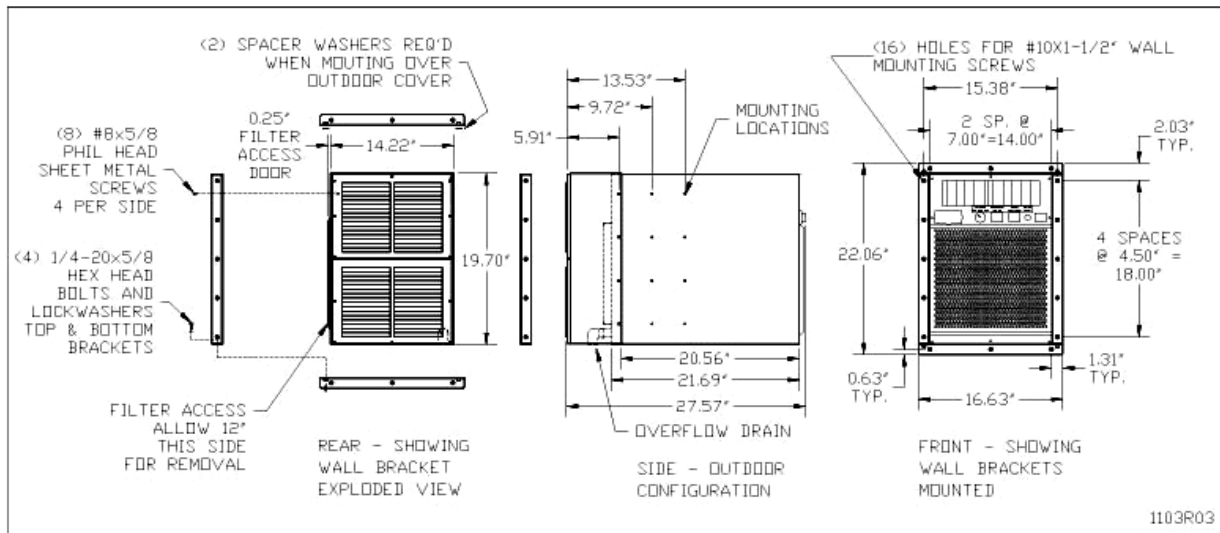
Cut Sheets

Table I

### 3200VSi



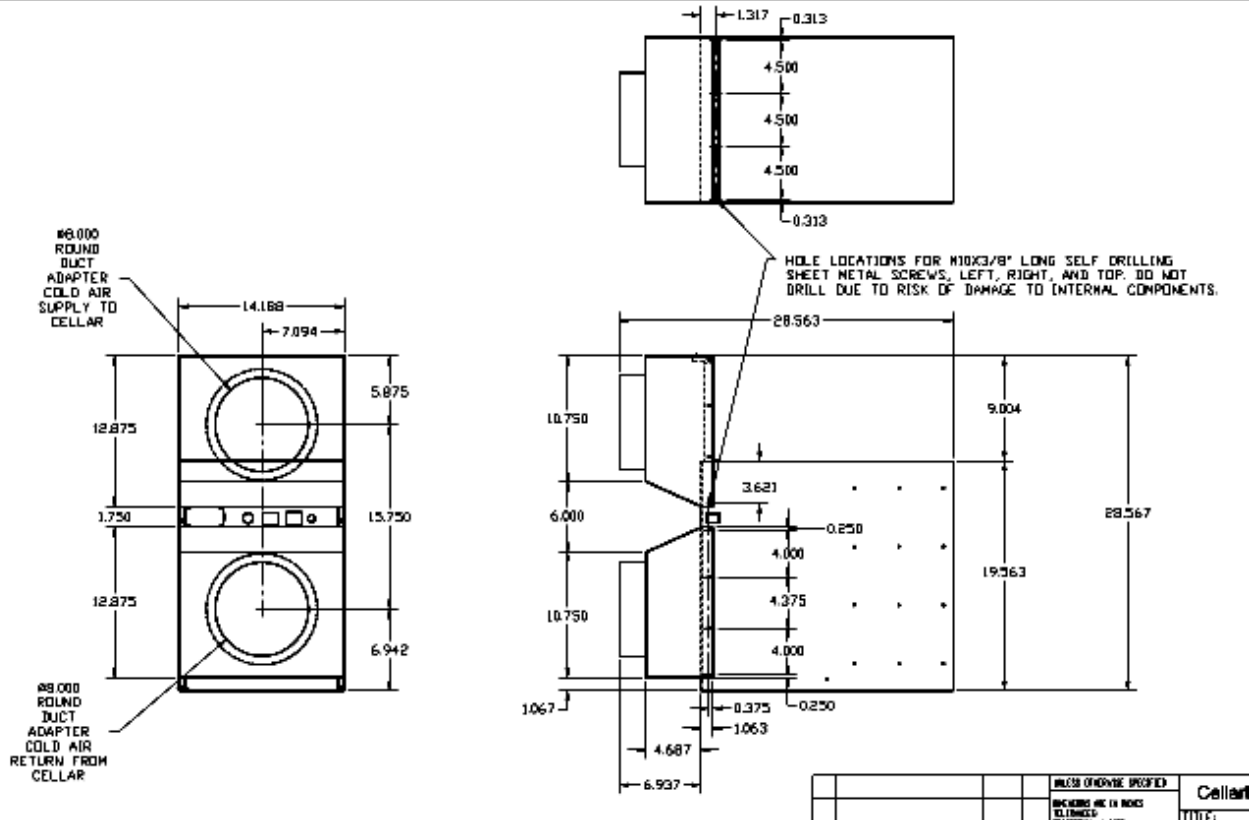
### 3200VSx



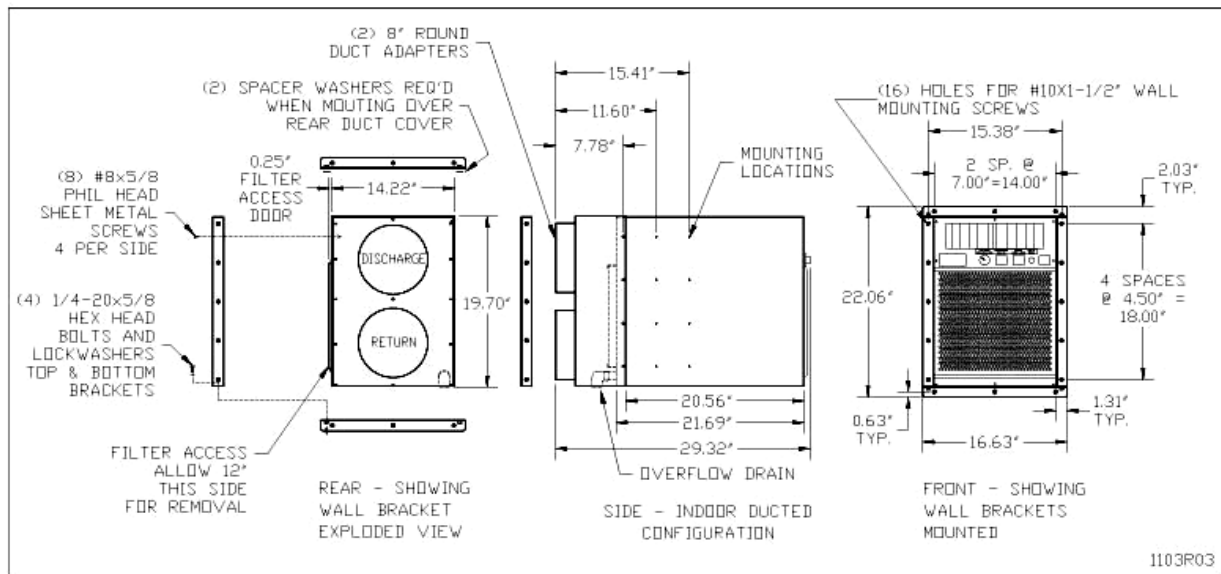


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## Front Duct Hood



## Rear Duct Hood





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**3200VS Cooling Capacity (@ 60°F)**

**Table II**

Low Fan Speed	BTUH: 2487 Decibels: 54			
Med Fan Speed	BTUH: 2876 Decibels: 58			
High Fan Speed	BTUH: 3040 Decibels: 66			
Cellar Insulation		R12	R19	R30
Cellar Size	Ambient Temperature	Thermal Load (BTUH)		
400 Cu Ft	70°F	1593	1475	1404
	75°F	1690	1535	1440
	80°F	1789	1594	1475
	85°F	1888	1654	1511
	90°F	1985	1712	1547
	95°F	2085	1773	1584
500 Cu Ft	70°F	1858	1723	1643
	75°F	1969	1791	1683
	80°F	2082	1859	1723
	85°F	2196	1927	1765
	90°F	2307	1995	1806
	95°F	2402	2064	1848
600 Cu Ft	70°F	2076	1929	1841
	75°F	2200	2005	1886
	80°F	2322	2079	1931
	85°F	2446	2152	1975
	90°F	2570	2227	2020
	95°F	2693	2302	2065
700 Cu Ft	70°F	2314	2156	2059
	75°F	2448	2237	2108
	80°F	2582	2318	2158
	85°F	2716	2398	2205
	90°F	2850	2480	2255
	95°F	2984	2561	2303
800 Cu Ft	70°F	2554	2386	2284
	75°F	2694	2470	2335
	80°F	2834	2556	2387
	85°F	2976	2641	2438
	90°F	X	2725	2487
	95°F	X	2811	2541

**Summary**

The table above is shaded to show how the 3200 cooling unit will work at 60°F using various fan speeds under various thermal loads. The thermal loads are derived from assumptions about the temperature inside the cellar, the size of the cellar; the R-value in the **six** cellar surfaces (ie walls, floor and ceiling) and the ambient temperature outside the cellar, as follows:

- The light-shaded numbers represent thermal loads that are within the capacity of the cooling unit at the **low** fan speed
- The medium-shaded numbers represent thermal loads that are within the capacity of the cooling unit at the **medium** fan speed
- The dark-shaded numbers represent thermal loads that are within the capacity of the cooling unit at the **high** fan speed
- "X" indicates conditions that are beyond the capacity of the 3200 Series cooling units



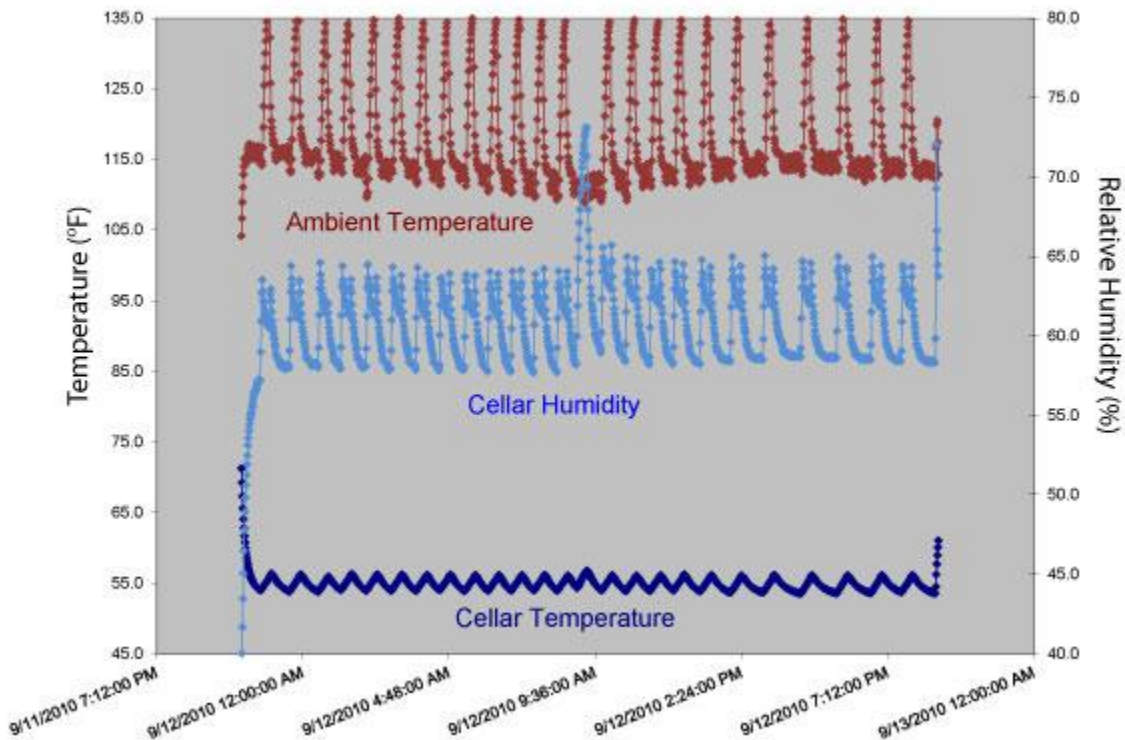
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(1) The thermal loads above are calculated based on the R-Values shown for all walls, floor and ceiling. Lower R-Values in the cellar (eg from glass doors) will increase the thermal load on the wine cellar and will require the cooling unit to operate at higher fan speeds. Warmer climates require higher insulation to enable the cooling unit to operate at lower fan speeds. To be certain that the thermal load won't exceed the capacity of the cooling unit, email your wine cellar specifications to us and we'll be glad to assist you.

(2) For reference purposes, the calculated BTUH at 60°F for **WhisperKool XLT 3000** is 2500.

### 3200VS Cooling Performance

Table III



### Summary

We tested CellarPro's 3200VSi wine cooling unit for 24 hours by heating the condenser environment to 115°F. Despite the grueling heat, CellarPro's 3200VSi was able to maintain temperatures at 55°F and relative humidity at 62% inside the wine cellar. (The short spikes reflect the cooling unit's auto-defrost cycle.)

### Test Conditions

- The cooling unit was tested in a 750 cubic foot wine cellar with R-13 rigid foam insulation and a moisture barrier
- The wine cellar was filled with approximately 750 bottles
- The cooling unit was set to maintain 55°F (53°F "off" and 4°F Differential) (1)
- The temperature measurements inside the wine cellar were taken at the far wall (approximately 12' from the cooling unit)



## Option and Upgrades

## Table IV

<b>Front Duct Kit:</b>	Custom duct hood allows the cold air intake/exhaust to be ducted up to 100 equivalent feet (50 feet per opening). Duct openings are designed to attach to two 8" ducts for condenser intake and exhaust. Design allows easy access to cooling unit controls; requires an additional 9" of height at the front of the unit. Kit includes duct hood and 50 feet (2x25) of 8-inch insulated (R-6) ducting.
<b>Rear Duct Kit:</b>	Custom duct hood allows the hot air intake/exhaust to be ducted up to 100 equivalent feet (50 feet per opening). Duct openings are designed to attach to two 8" ducts for condenser intake and exhaust. Removable slot plate provides easy access to removable air filter. Kit includes duct hood and 50 feet (2x25) of 8-inch insulated (R-6) ducting.
<b>Rear Duct Kit with Fan:</b>	Custom duct hood and inline fan allow the hot air intake/exhaust to be ducted up to 200 equivalent feet (100 feet per opening). Duct openings are designed to attach to two 8" ducts for condenser intake and exhaust. Removable slot plate provides easy access to our air filter. Inline fan receives switched power from the cooling unit. Kit includes duct hood, 240 CFM 8-inch inline fan and 50 feet (2x25) of 8-inch insulated (R-6) ducting.
<b>Bottle Probe:</b>	CellarPro 3200 cooling units are designed to cycle on and off based on the temperature of the return air in the wine cellar. Because the cooling unit is located near the top of the cellar, it will cycle based on the temperature of the air at the top of the cellar, which is by design given that warm air rises. However, for instances when the wine cellar is unevenly shaped and/or the cooling unit cannot be mounted near the ceiling, it may be useful to use a bottle probe for determining the on/off cycle of the cooling unit. In addition to being able to accommodate bottle probes, CellarPro cooling units can be programmed to have a tighter temperature differential, so that wine temperature variations remain in a tight band.
<b>Crankcase Heater:</b>	When the cooling unit is exposed to temperatures below 40°F, the refrigerant in the compressor can migrate into the crankcase oil when the compressor is not running. On startup, this can cause excessive motor wear and a loss of refrigeration efficiency. Our self-regulating crankcase heater is wrapped around the compressor and provides reliable peak heating during critical cold periods down to 20°F, and reduces its heating once the compressor starts up or the air temperature rises.
<b>Air Filters:</b>	We sell replacement fiberglass filters (interior use only), as well as aluminum air filters that can be used in interior or exterior environments. The aluminum filter is reusable and can be cleaned with steam or hot water spray. Filters meet UL Class 2 flame retardance requirements. Maximum temperature is 240°F.





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### CellarPro 3200 Series Price Sheet

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<b>3200VSi</b>	<b>\$2,195</b>
<b>3200VSx</b>	<b>2,699</b>
<b>Front Duct Hood</b>	<b>299</b>
<b>Rear Duct Hood</b>	<b>299</b>
<b>Rear Duct Hood with Fan</b>	<b>399</b>
<b>Remote Control Panel</b>	<b>225</b>
<b>Bottle Probe</b>	<b>99</b>
<b>Cold-Temperature Crankcase Heater</b>	<b>99</b>
<b>Reusable Aluminum Air Filter</b>	<b>50</b>
<b>Poly-Coated Fiberglass Air Filter (2-Pack)</b>	<b>25</b>