

CellarPro Wine Cellar Refrigeration - 8000S Split Systems

Cooling Capacity @ 55°F (1)

8000S - Low Fan Speed		BTUH: 5961 Decibels: 54		
8000S - Medium Fan Speed		BTUH: 6346 Decibels: 58		
8000S - High Fan Speed		BTUH: 6713 Decibels: 66		
Cellar Insulation - Walls, Ceiling & Floor (1)		R12	R19	R30
Cellar Size	Ambient Temperature	Thermal Load BTUH		
	70°F	5141	4860	4691
	75°F	5376	5002	4775
1750 Cubic Feet	80°F	5612	5144	4861
	85°F	5849	5288	4949
	90°F	6085	5431	5035
	95°F	6324	5576	5124
	70°F	5861	5556	5372
	75°F	6116	5711	5466
2000 Cubic Feet	80°F	6373	5866	5558
	85°F	6630	6022	5653
	90°F	X (6888)	6178	5748
	95°F	X (7146)	6335	5844

Cooling Capacity @ 60°F (1)

8000S - Low Fan Speed		BTUH: 6392 Decibels: 54		
8000S - Medium Fan Speed		BTUH: 6765 Decibels: 58		
8000S - High Fan Speed		BTUH: 7183 Decibels: 66		
Cellar Insulation - Walls, Ceiling & Floor (1)		R12	R19	R30
Cellar Size	Ambient Temperature	Thermal Load BTUH		
	70°F	4524	4277	4128
	75°F	4731	4402	4202
1750 Cubic Feet	80°F	4939	4527	4278
	85°F	5147	4653	4355
	90°F	5355	4779	4431
	95°F	5565	4907	4509
	70°F	5158	4889	4727
	75°F	5382	5026	4810
2000 Cubic Feet	80°F	5608	5162	4891
	85°F	5834	5299	4975
	90°F	6061	5437	5058
	95°F	6288	5575	5143

Legend

The upper table is shaded to show how the 8000S cooling unit will work at maintaining 55°F, and the lower table is shaded to show how the 8000S cooling unit will work at maintaining 60°F, inside the wine cellar using various fan speeds under various thermal loads. The thermal loads are derived from assumptions about 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 our 8000S Series cooling units

Summary

CellarPro 8000S wine cooling units are designed to maintain optimal wine storage temperatures in wine cellars up to 2250 cubic feet with adequate insulation, and can be operated with the condenser exposed to conditions up to 110°F. For more information, click on our **8000S performance and test data**.

Please note: The thermal loads above are calculated based on the R-Values shown for all walls and ceiling, and a concrete floor. 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.