

CellarPro Cooling Systems - 1800 Series Cooling Units

Cooling Capacity (1)

Cellar Temperature		55°F		60°F	
1800QT More Info		BTUH: 1380		BTUH: 1479	
1800XT More Info		BTUH: 1456		BTUH: 1558	
1800XTS More Info / 1800XTSx More Info		BTUH: 1886		BTUH: 2031	
Cellar Insulation - Walls, Ceiling & Floor		R12	R19	R12	R19
Cellar Size	Ambient Temperature	Thermal Load BTUH			
	65°F	956	912	841	803
100 Cubic Feet	75°F	1068	979	940	862
	85°F	1180	1046	1038	920
	95°F	1291	1114	1136	980
200 Cubic Feet	65°F	1220	1157	1074	1018
	75°F	1380	1253	1214	1103
	85°F	<i>1538</i>	1349	1353	1187
	95°F	<i>1699</i>	<i>1446</i>	<i>1495</i>	1272
300 Cubic Feet	65°F	<i>1501</i>	<i>1422</i>	1321	1251
	75°F	<i>1700</i>	<i>1542</i>	<i>1496</i>	1357
	85°F	X (1900)	<i>1662</i>	<i>1672</i>	1463
	95°F	X (2100)	<i>1783</i>	<i>1848</i>	<i>1558</i>
400 Cubic Feet	65°F	<i>1698</i>	<i>1609</i>	<i>1494</i>	1416
	75°F	X (1921)	<i>1744</i>	<i>1690</i>	<i>1535</i>
	85°F	X (2146)	<i>1879</i>	<i>1888</i>	<i>1654</i>
	95°F	X (2369)	X (2015)	X (2085)	<i>1773</i>

Legend

The table is shaded to show which cooling units will work at 55°F and 60°F 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 CellarPro's 1800 QT, XT and XTS cooling units
- The medium-shaded, bold numbers represent thermal loads that are within the capacity of CellarPro's 1800 XT and XTS, but not the 1800 QT, cooling unit
- The dark-shaded, bold italic numbers represent thermal loads that are within the capacity of CellarPro's 1800 XTS, but not the 1800 XT or QT, cooling units
- "X" indicates conditions that are beyond the capacity of our 1800 Series cooling units

Summary

The following guidelines are designed to assist you in selecting the appropriate CellarPro wine cooling unit for your wine cellar:

- **CellarPro 1800QT** is appropriate for wine cellars up to 200 cubic feet in cool environments with R-12 insulation
- **CellarPro 1800XT** is appropriate for wine cellars up to 300 cubic feet, provided that the wine cellar is kept around 60°F
- **CellarPro 1800XTS / 1800XTSX** are appropriate for wine cellars up to 400 cubic feet with R-19 insulation

Analysis

We provide the estimated thermal loads for various-size wine cellars at 55°F and 60°F and across a range of ambient temperatures and with different R-Values to help you select the appropriate CellarPro wine cooling unit for your cellar.

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 or walls) will increase the thermal load on the wine cellar. 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.

(1) For reference purposes, the calculated BTUH at 55°F for **Breezair WKC1060** is 1054 and **Breezair WKC2200** is 1328.