



Control the Elements



***Owner's Manual –
1800XTSr Cooling Unit***



[This page left blank]



CONGRATULATIONS!

Thank you for purchasing a new CellarPro cooling system.

Please take a minute to read through this Owner's Manual before you unpack, install, and turn on your Cooling Unit.

If you have any questions about your new cooling unit, it is likely that you will find the answers in this Owner's Manual. We also have more information on our website, including the latest version of the Owner's Manual, at www.cellarpro.com/customer-service.

If you still have questions, please don't hesitate to contact your dealer or CellarPro directly. We can be reached during normal business hours at 1.877.726.8496. You also may contact us anytime via email at info@cellarpro.com.

Contact Information:

CellarPro Cooling Systems
1445 N. McDowell Blvd
Petaluma, CA 94954
877.726.8496

Email: info@cellarpro.com

Website: www.CellarProCoolingSystems.com

Serial Number*: _____

[Can be found on the printed label on the left side of your cooling unit]

*We recommend that you take a minute to fill-in your CellarPro serial number above. The serial number has seven-digits and can be found on the printed label on the left side of your cooling unit.

Don't forget to register your cooling unit warranty at www.cellarpro.com/register





Table of Contents

I. Prior to Installation	5
II. Overview	6
III. Installation Instructions	11
IV. Operating Instructions	16
V. Troubleshooting	25
VI. Limited Warranty	28

I. Prior to Installation

- **Test the unit BEFORE installing it.**
 1. Remove the unit from the box. **SAVE THE BOX AND PACKING MATERIALS.**
 2. Let the unit sit upright for 24 hours before turning it on
 3. Turn on the unit. PLEASE NOTE: This cooling unit is programmed with a 3-minute delay at startup to protect its internal components.
 4. Let the unit run *for no more than 10 minutes*. **The openings at the bottom of the unit cannot be blocked while the unit is running.** Be careful when hanging the unit off the side of a flat surface so that it doesn't fall off the edge.
 - Check for any alarms on the display
 - Make sure that all fans are spinning.
 - Check the cold air discharge from the bottom rear of the cooling unit - it should be 8-10°F colder than the readout on the digital display
 5. Turn the unit "off" and install.



II. Overview

- CellarPro Cooling Capacity*

Each of our cooling units includes sizing guidelines that are based on R19 insulation throughout the cellar and 85F peak ambient temperatures outside the cellar.*

To find the BTUH output for the 1800XTSr cooling unit at 55F and 60F, and the thermal loads for various-size cellars, refer to the table below. In order to maintain your desired cellar temperature, the cooling unit's BTUH output (at 55F or 60F inside the cellar) must be greater than the load of your cellar, as shown in the body of the table.

***If your cellar is constructed with glass, or has uninsulated walls, or does not have a vapor barrier), the thermal load will be much higher than what's shown in the table. In this case, please visit <http://www.cellarprocoolingsystems.com/request-thermal-load> to request a customized thermal load calculation for your cellar:**

Cellar Temp		55 Degrees		60 Degrees	
BTUH	1800XTSr-ECX	1886		2031	
Cellar Insulation – Walls, ceiling & floor*:		R-12	R-19	R-12	R-19
Cellar Size	Ambient Temp				
100 Cu Ft.	75 Degrees	1068	979	940	862
	85 Degrees	1180	1046	1038	920
	95 Degrees	X	X	X	X
200 Cu Ft.	75 Degrees	1380	1253	1214	1103
	85 Degrees	1538	1349	1353	1187
	95 Degrees	X	X	X	X
300 Cu Ft.	75 Degrees	1700	1542	1496	1357
	85 Degrees	X	1562	1672	1463
	95 Degrees	X	X	X	X
400 Cu Ft.	75 Degrees	X	1744	1690	1535
	85 Degrees	X	1879	1888	1654
	95 Degrees	X	X	X	X



- **Size & Electrical Specifications**

Model	Dimensions W" x D" x H"	Weight (lbs)	Operating Amps	Unit Rated Amps	Required Circuit
1800XTSr	18 x 19.5 x 10.5	70	3.45	7.7 (includes optional use of 3 Amp light receptacle)	15-Amp Dedicated
1800XTSr with Condensate Evaporator	18 x 19.5 x 10.5	70	4.32	7.7 (includes optional use of 3 Amp light receptacle)	15-Amp Dedicated
1800XTSr with Compressor Heater	18 x 19.5 x 10.5	70	3.95	8.2 (includes optional use of 3 Amp light receptacle)	15-Amp Dedicated

- **Ambient Environment**

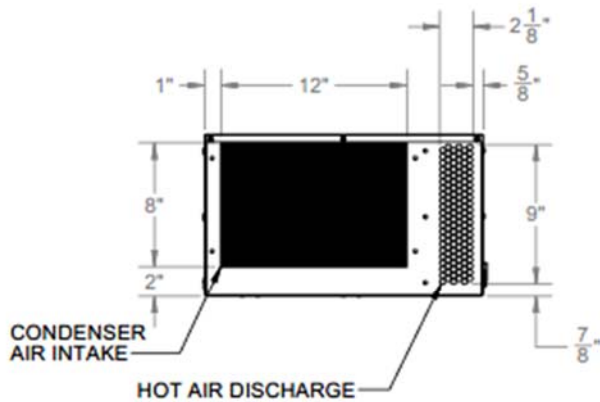
CellarPro 1800XTSr cooling units are designed to operate in ambient temperatures between 40°F and 85°F. This unit is designed for internal use only and is not designed for exposure to the exterior.

CellarPro cooling units are not designed to generate heat inside the cellar, so if temperatures inside the cellar drop below proper wine storage temperatures, the cooling unit cannot increase the temperature inside the cellar.

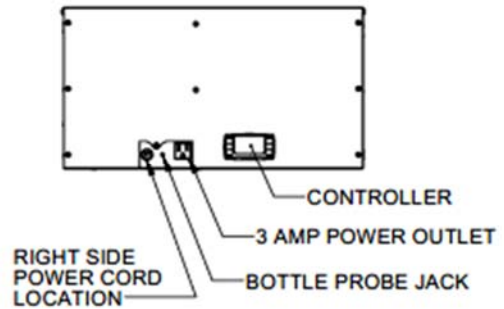
Proper temperatures are maintained by transferring heat from inside wine cellars and exhausting heat through the front of the cooling unit.



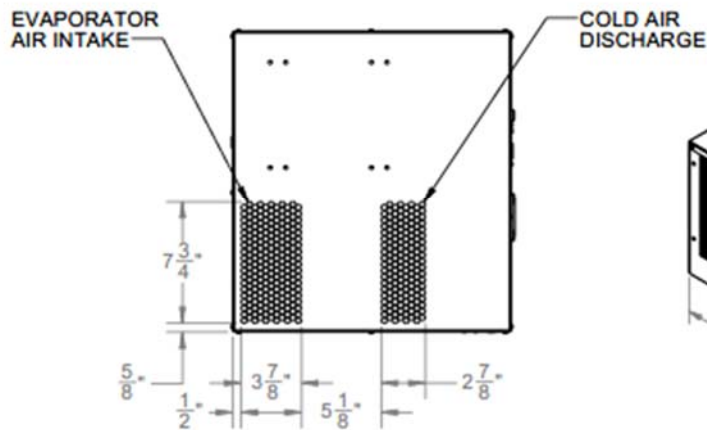
- Dimensions/Cut Sheet*



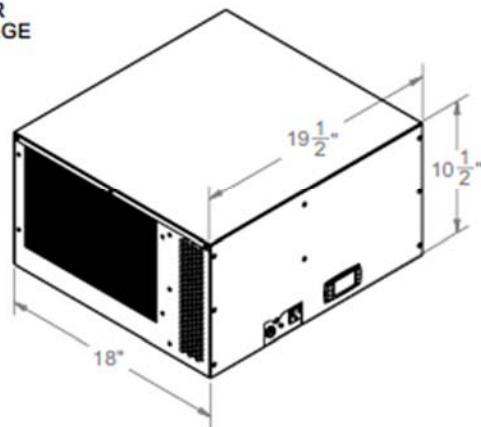
FRONT



RIGHT



BOTTOM



* The dimensions shown are without a filter at the condenser air intake. If you will be using a filter (Item 1368 Filter/Frame, and Item 1365 Replacement Filters), you will need an additional 1 inch of depth to account for the filter/frame and the foam airflow separator. CellarPro OEM filters should be used exclusively with this cooling unit – never use non-CellarPro filters, which can damage the unit and void the warranty.



- **Cellar Construction**

CellarPro cooling units are designed to be installed inside wine cellars that have proper insulation, moisture barriers and an airtight seal from the environment outside the cellar.

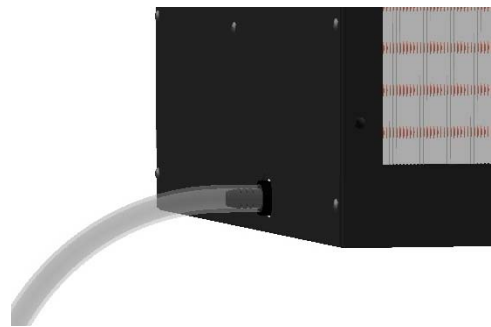
Interior walls and floor should have a minimum of R-11 insulation, and a vapor barrier on the warm side of the insulation. The ceiling should have a minimum of R-19 insulation and a vapor barrier on the warm side of the insulation. Doors also should be insulated and tightly sealed with weather stripping around the perimeter of the door. Surface-mounted fixtures are recommended over recessed lighting, which can allow air to leak into the cellar. **Please note:** The R-values above are the **MINIMUM** recommended amounts of insulation. It is advisable to use as



much insulation as possible inside your walls, ceiling, and floor. All walls, joints, doors and windows, electrical outlets and/or switches, pipes, vents, and light fixtures should be sealed to prevent ambient air and moisture from infiltrating into the cellar.

If the cellar is not well sealed, the cooling unit will build up excess condensation that eventually may damage the internal components and shorten the life of the cooling unit and may cause water to leak from the cooling unit.

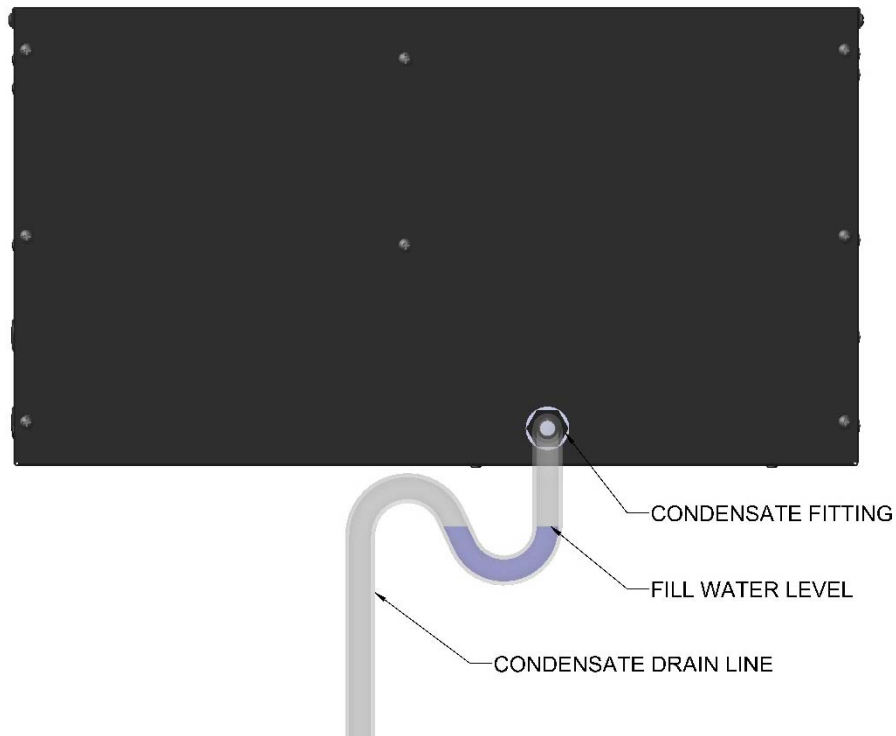
We offer a **Condensate Drain Line** option for cooling units that will be installed in wine cellars or above wine cabinets. The drain line configuration includes a fitting and condensate tube at the left side of the cooling unit for excess condensate to flow from the side of the unit *outside* the cellar.



Drain lines are recommended for installations in warm and/or humid environments; however, **the drain line does not replace the requirement for a cellar to be properly constructed with proper insulation, moisture barrier and airtight seals.**



When using a drain line, **you must create a condensate trap** as follows:



As shown above, the drain line should drop, then rise (but stay below the height of the fitting), and then drop again, and must terminate in air, not liquid. After installing the trap, it must be charged with water as shown.

If your unit generates excess condensate and you don't have a drain line, or you have a drain line but no trap, the condensate may leak out of the front or bottom of the cooling unit, and cause damage inside your walls or your cellar.



III. Installation Instructions

When installed, ample open space is required at the front of the cooling unit.

To install the unit through a wall, a hole should be cut 1/4 inch larger than the dimensions (W x H) of the cooling unit. Horizontal 2 x 4-inch braces should be installed between the studs below and above the cooling unit. If the studs in the wall must be cut to accommodate the width of the cooling unit, vertical braces also should be installed on either side of the cooling unit.

CellarPro cooling units must always be mounted in the upright position, and both vents at the bottom of the cooling unit must have full, unrestricted and un-ducted access to the wine cellar.

Inside the cellar, the bottom of the cooling unit catches warm air as it rises, pulls the air across the evaporator coils, and removes the heat from the warm air. Once cooled, the cold air is discharged from the bottom of the cooling unit and circulates downward through the cellar.

The bottom of the cooling unit requires clearance of at least 8 inches below the cold air intake and exhaust. The more space below the unit and airflows provided inside the cellar, the better the air will circulate inside the cellar and the less stratification will occur.

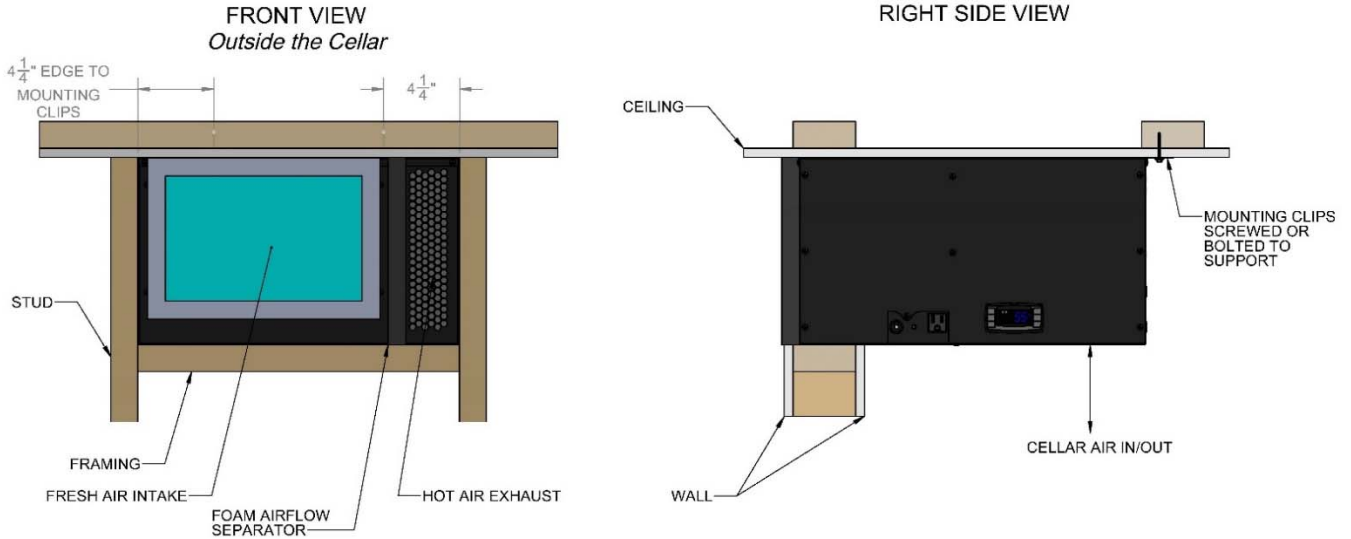
! Outside the cellar, the front of the cooling unit should be flush with the outside wall – i.e., the cooling unit should not be recessed in the wall (except to make room for the optional air intake filter, in which case the cooling unit should be recessed 1" with a piece of foam insulation separating the fresh air intake from the hot air exhaust, as shown in the installation diagrams below).

The front of the cooling unit must be installed in an open space that is at least as large as the wine cellar. Do not install the unit in a corner, because ample space is required to the sides and front of the cooling unit in order for the unit's hot air exhaust to dissipate without being recycled into its fresh-air intake.

Assuming that the front of the cooling unit is supported by framing in the wall, the rear of the cooling unit can be mounted using optional mounting clips, or a shelf / brace to support the bottom of the unit.

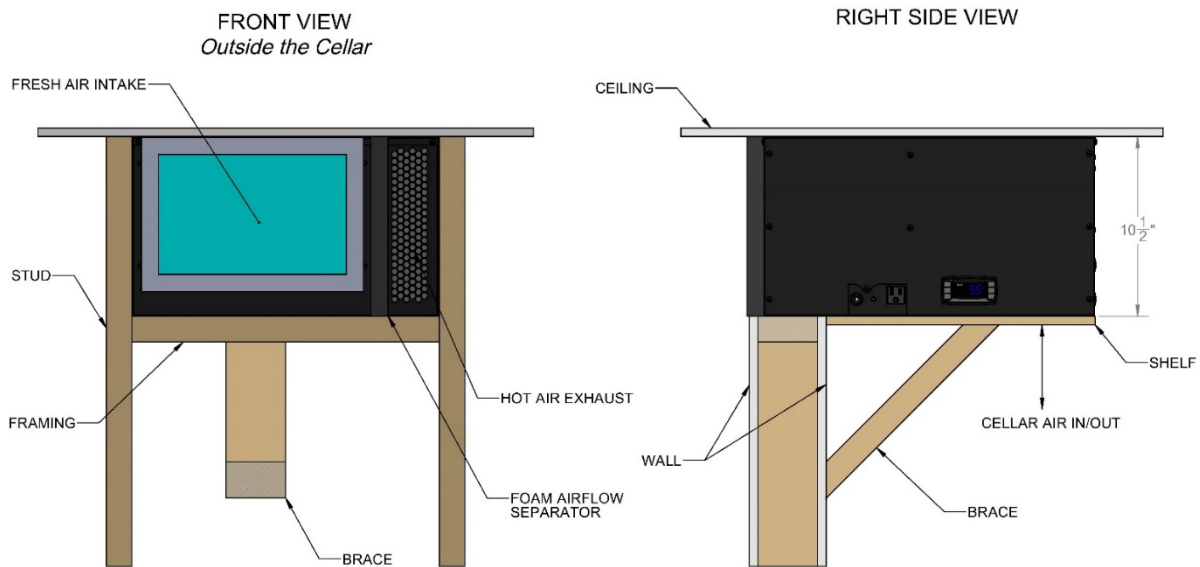


THROUGH THE WALL INSTALLATION INSTRUCTIONS: MOUNTING CLIPS



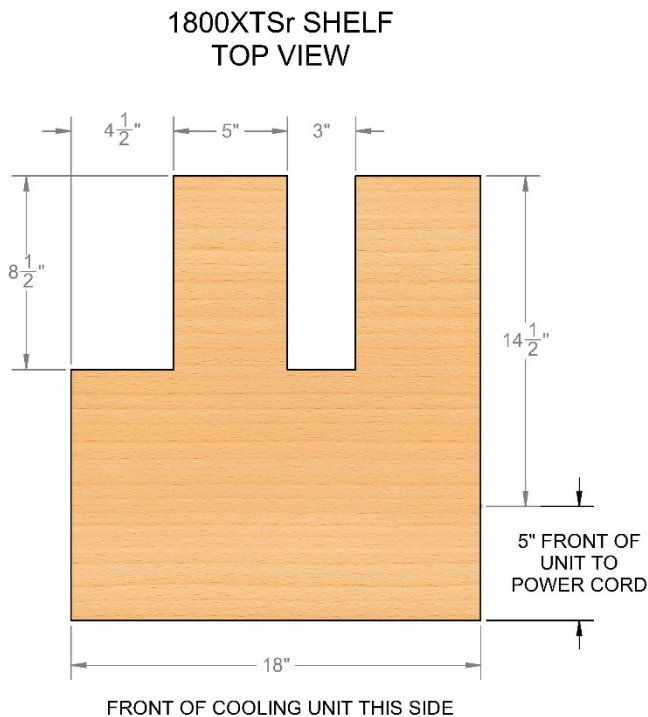
In the Front View above, the front of the cooling unit would be recessed 7/8" from the wall, to allow space for our filter and strip of insulation if you will be placing a decorative grill over the wall opening. If a filter won't be used, the front of the cooling unit should be placed flush with the wall, either with or without a decorative grill, and the insulation strip won't be necessary.

THROUGH THE WALL INSTALLATION INSTRUCTIONS: SHELF





When supporting the cooling unit with a shelf and bracket, or when installing the cooling unit above the wine cellar, cutouts must be made for both airflows at the bottom of the cooling unit, as shown below* (top view):



* The dimensions shown are without a filter at the condenser air intake. If you will be using a filter (Item 1368 Filter/Frame, and Item 1365 Replacement Filters), you will need an additional 1 inch of depth to account for the filter/frame and the foam airflow separator.

Once the cooling unit is installed, all cracks and gaps between the cooling unit and the cellar should be sealed. We provide butyl tape for sealing these gaps. The butyl tape is pliable and is designed to be rolled and stretched in your hands to fit around the entire cooling unit. (If you adhere the tape before rolling and stretching it, you will not have enough tape to complete the job). Pay particular attention to the seams around the vents at the bottom of the cooling unit.

- **Ventilation**

Proper ventilation is critically important for the proper operation of your CellarPro cooling unit. The CellarPro cooling unit blows a significant amount of hot air through the front of the cooling unit, and the hot air must be exhausted into a space that is **at least as large as the wine cellar** in order for the heat to properly dissipate. If the space is too small or constrained, e.g., because there is a wall or obstruction to one of the sides of the cooling unit, or there is an obstruction directly in front of the cooling unit, the hot exhaust will not properly dissipate and the cooling unit will be forced to recirculate its own hot air, which will impair its ability operate.

The front of the cooling unit must be installed in an open space that is at least as large as the wine cellar. Do not install the unit in a corner, because ample space is required to the sides



and front of the cooling unit in order for the unit's hot air exhaust to dissipate without being recycled into its fresh-air intake.

This cooling unit cannot be ducted nor installed in a space that has restricted airflow.

1. Condenser Air Intake (Front). The condenser coils are located at the front of the cooling unit. These coils require access to cool air in order for the cooling unit to produce cool air. The cooling unit must be installed so that, after its installation, there is access to the condenser coils at the front of the cooling unit for periodic cleaning of the coils. **The maximum ambient temperature of the intake air is 85F.**

2. Condenser Air Exhaust (Front). Condenser air is exhausted through the front of the cooling unit. This hot air is freely exhausted from the front of the cooling unit into the exhaust space, which should have the same space capacity as the wine cellar. (e.g., if the cellar is 300 cubic feet, the exhaust space also should be 300 cubic feet.) In addition, it is required that there be sufficient clearance to the in front of and to the sides of the front of the cooling unit.

- **Inside the Cellar/Cabinet**

CellarPro cooling units are designed to turn on when the temperature near the ceiling inside the cellar exceeds the **Minimum Set Point** plus the **Temperature Differential** and turn off when the temperature inside the cellar drops below the Minimum Set Point. The Minimum Set Point and Temperature Differential can be set according to instructions in the following Chapter. For example, if the Minimum Set Point is 58°F and the Temperature Differential is 4°F, the cooling unit will turn on when the temperature inside the cellar rises above 62°F, and turn off when the temperature falls below 58°F. In this example, the cellar temperature will average 60°F.

1. Evaporator Air Intake. The evaporator air intake vent is located on the bottom of the unit, in the rear left corner. CellarPro cooling units are designed to be mounted at the highest point inside wine cellars, so that warm air – which rises – will be the first to pass over the evaporator coils, which will remove the heat from the air. To ensure proper airflow, a minimum of 8" of clearance is required below the cooling unit.

2. Evaporator Air Exhaust. Cold air is exhausted through the bottom of the cooling unit. Because CellarPro cooling units are located at the highest point inside wine cellars, the cold air will fall to the bottom of the cellar. To ensure proper airflow and reduce temperature stratification inside the cellar, the space below the cold air discharge should be clear of any obstructions, including wine bottles, wine racks, etc.

- **Power Requirement**

CellarPro 1800 cooling systems require a **dedicated 15-amp circuit**. We recommend using a surge protector to protect the internal components in case of a power surge.

The cooling unit uses approximately 4 amps during its "on" cycle. The cooling unit also offers a grounded 115V AC outlet, which is rated for 3 amps.



A number of variables, including the minimum set point, the temperature in the ambient environment, the insulation of the cellar, and the thermal mass inside the cellar, will affect the cooling unit's runtime. It is normal for the cooling unit to run up to 75 percent of the time in order to maintain proper conditions inside the cellar.

Summary

Keep in mind the following guidelines before purchasing an 1800XTSr wine cooling unit from CellarPro:

- If the cellar is too large for the cooling unit, and/or if the cellar does not have adequate insulation, the cooling unit will be unable to maintain proper temperatures throughout the cellar.
- Without a moisture barrier and an airtight environment inside the cellar, the cooling unit effectively will become a de-humidifier and may produce buckets of water.
- Both the front and the bottom of the cooling unit require a minimum clearance of 8 inches for the exhaust.
- The hot side of the cooling unit must intake air from - and exhaust air to - a space that is OUTSIDE the cellar. The space should be that is at least as large as the wine cellar, and the temperature in the space must not exceed 85F, with or without the hot exhaust from the cooling unit.
- Without access to fresh, cool, unducted air, either because of improper ventilation, installation in a small or restricted space, or environments that are too hot, the cooling unit will be unable to maintain proper temperatures inside the cellar and the HA2 alarm will be triggered.
- This cooling unit cannot be ducted nor installed in a space that has restricted airflow - not on the hot side nor on the cold side.
- If the hot side of the cooling unit will be pulling air below 40F, the unit must be equipped with a compressor heater.
- CellarPro 1800 cooling units require a dedicated 15-amp circuit

IV. Operating Instructions

Overview

Please follow the instructions in Section I prior to turning on your CellarPro cooling unit.

CellarPro cooling units are designed to maintain optimal conditions for wine storage and aging. These conditions include steady, cool temperatures, high humidity, minimal vibration and light, and clean air.

The settings on your CellarPro cooling unit have been preset and optimized by the factory. Before changing any settings below, we recommend waiting 14 days to allow the cooling unit to “break in.”

The cooling unit is designed to cool the cellar gently without stripping moisture out of the cellar environment. Therefore, it is not uncommon for the cooling unit to run nonstop for up to a week initially, depending on the temperature inside the cellar, the size of the cellar, and the temperature of the ambient environment. Once the cellar has reached equilibrium, it is normal for the cooling unit to run as much as 75 percent of the time.

CellarPro cooling units are designed to maintain optimal temperatures for **storing and aging** fine wine. CellarPro cooling units are not designed to maintain temperatures for **servicing** wine, which tend to be much colder than storage temperatures, especially serving temperatures for white and sparkling wines.

CellarPro cooling units must be used, stored, moved and/or shipped in the upright position. Be careful when turning the unit on its side. The unit NEVER should be turned upside down.

Remote Probe/Bottle Probe

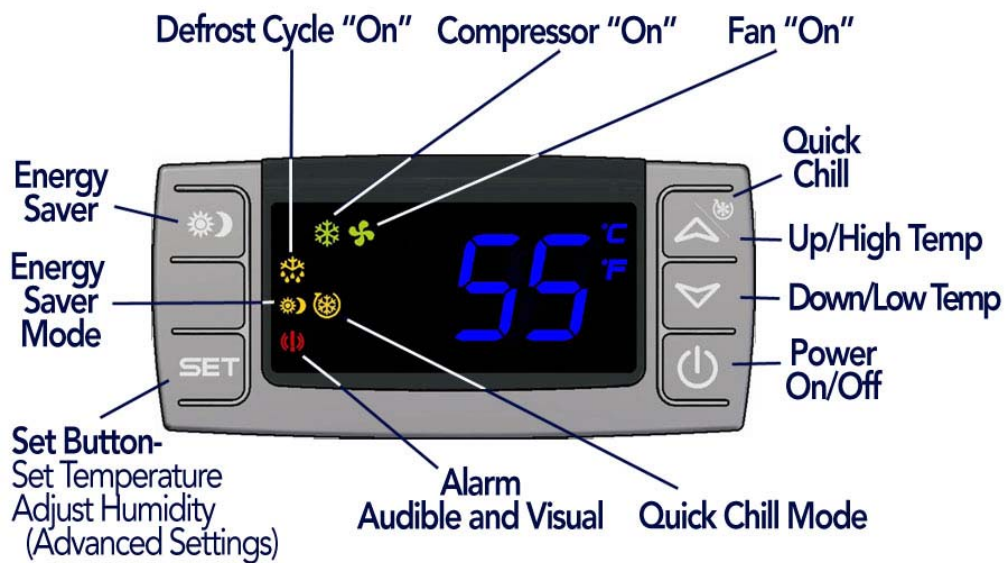
Our remote thermostat probe will override the cooling unit’s internal thermostat and can be used to measure air or liquid temperatures inside the wine cellar. If measuring air, place the thermostat in the cellar in a location with good airflow. If measuring liquid, fill a bottle with mixture of water (80-90%) and rubbing alcohol (10-20%), insert the probe into the bottle and use the rubber stopper on the thermostat to seal the bottle, and place the bottle inside the cellar in a location with good airflow. **If the bottle probe is used to measure air temperatures, the differential (HY) on the cooling unit should be set to “4”. If the bottle probe is used to measure liquid temperature, the differential should be set to “1”.** Refer to our “Advanced Operation” instructions for further instructions how to change the HY differential.



Basic Operation

The temperature inside the cellar can be increased or decreased by changing the Minimum Set Point as described later in this chapter. If the cooling unit runs too much, you can raise the Minimum Set Point to reduce the cycle “on” time. Most wine collectors store their wine in the range of 55 - 60 °F.

CellarPro cooling units are designed to maintain appropriate levels of humidity, ranging from 50 to 70 percent, inside wine cellars. In order to increase or decrease humidity inside the cellar, the **Fon** setting can be changed as described in the “Advanced Operation” section later in this chapter.



Digital Display



The temperature displayed on the control indicates the real-time air temperature as measured by Probe 1 (P1) located within the unit in front of the evaporator coil, or the temperature (air or liquid) being measured by the remote thermostat (which overrides the internal probe).

Power On/Off Button

Press “Power On/Off” to turn the unit on and off

When the “Compressor On” indicator light is on, the Compressor is running. When the “Fan On” indicator light is on, the Fan is running



Up and Down Buttons

To view the “High Temp” recorded by the cooling unit, press the “Up” button once.

To view the “Low Temp” recorded by the cooling unit, press the “Down” button once



To reset the “High Temp” or “Low Temp”, press the “Set” button for three seconds while “Hi” or “Lo” is displayed. **“RST” will blink three times to indicate confirmation.**

Set Button

The cooling unit is factory preset with a Minimum Set Point of 58°F and a Temperature Differential of 4°F. This means that the cooling unit will turn on when the display rises above 62°F (58°F + 4°F), and turn off when the display falls below 58°F. In this example, the average temperature inside the cellar will be 60°F.

To view the Minimum Set Point, press the “Set” button for one second.

To change the Minimum Set Point,

1. Press the “Set” button for three seconds until “°F” blinks
2. Press the “Up” or “Down” button
3. Press the “Set” button to confirm

The “Set” temperature will blink three times to indicate confirmation.

The recommended Minimum Set Point range is 53 - 60°F. To change the Temperature Differential, see “Advanced Operation” later in this chapter.





Energy Saver Button



To activate and deactivate the “Energy Saver” mode, press the “Energy Saver” button

The “Energy Saver” indicator light will turn on when the cooling unit is in “Energy Saver” mode

In “Energy Saver” mode, the Minimum Set Point increases 4 °F and the Temperature Differential is unchanged

Quick Chill Button



To activate the “Quick Chill” mode, press the “Up” / “Quick Chill” button for three seconds

To deactivate “Quick Chill”, press “Quick Chill” button for three seconds again

The “Quick Chill” indicator light will turn on when the cooling unit is in “Quick Chill” mode

In the “Quick Chill” mode, the cooling unit will run continuously for 6 hours (or until the intake temperature registers 50 °F). This mode is useful after loading “warm” bottles in a cellar

AIR FILTER

We offer an optional air filter that magnetically attaches to the front of the cooling unit.

To replace the filter, remove the filter frame from the cooling unit (see the image at right), and replace the fiberglass membrane when it becomes dirty (anywhere from 3 to 9 months depending on the conditions in your location.) The air filters are disposable; they cannot be cleaned.



When replacing the filter, the blue fibers should face the cooling unit, and the white fibers should face away from the cooling unit.

Replacement filters may be purchased at www.cellarpro.com.



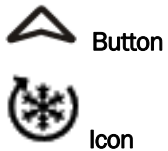
Remote Control / Display Instructions



Digital Display

The temperature displayed on the control is red instead of blue.

Quick Chill Button



To activate the “Quick Chill” mode, press the “Up” button for three seconds

To deactivate “Quick Chill”, press the “Up” button for three seconds again

The “Quick Chill” indicator (Row 3) light will turn on when the cooling unit is in “Quick Chill” mode,

In the “Quick Chill” mode, the cooling unit will run continuously for 6 hours (or until the unit reaches set point.). This mode is useful after loading “warm” bottles in the cabinet.

Auto Defrost Mode

The cooling unit has a factory default defrost cycle that initiates every 16 hours for 20 minutes. When the cooling unit is in auto-defrost mode, the “Defrost” Indicator light (Top row) will turn on, and the evaporator fan will run.

Manual Defrost



Hold the defrost button in for 3 seconds to initiate a manual defrost. The “Defrost” Indicator light (Top row) will turn on for a 20 minute defrost cycle.

Light



The light button function is disabled, however pressing it will turn on/off the light indicator on the display (2nd row).

Energy Saver

The remote display is not configured with an Energy Saver mode. The set point can be raised manually for periods where energy savings is desired.



Advanced Operation

CellarPro cooling systems can be programmed with advanced settings to achieve more control over conditions inside the cellar. Conditions like humidity, the Temperature Differential, and alarm settings all can be modified for custom applications. To access the advanced settings, do the following:

- Press the “Set” button and the “Down” button together at the same time, and hold for three seconds. Then, use the “Up” or “Down” button to scroll to the following screen:



HUMIDITY: The factory preset for this setting is “3”.

If the humidity inside the cellar is too low, press the “Set” button, then use the “Up” button until the desired setting is reached. The recommended setting is 3.



TEMPERATURE DIFFERENTIAL: The factory preset for this setting is “4”.

This setting determines the Temperature Differential and therefore the temperature at which the unit will cycle on. The recommended setting is 4 unless using a bottle probe in liquid, in which case the recommended setting is 1.



HIGH TEMPERATURE ALARM: The factory preset for this setting is “70”.

This setting designates the High temperature inside the cellar at which the alarm is triggered. We recommend leaving this setting at the factory preset.



LOW TEMPERATURE ALARM: The factory preset for this setting is “45”.

This setting designates the Low temperature inside the cellar at which the alarm is triggered. We recommend leaving this setting at the factory preset.



ENERGY SAVINGS MODE DIFFERENTIAL: The factory preset for this setting is “4”.

This setting increases or decreases the Temperature Differential for the Energy Savings Mode. The recommended setting is 4.

Standard Protection Mechanisms

The cooling unit is programmed to shut down certain components to protect those components, as well as the wine inside the cellar, under the following circumstances:

<u>Scenario</u>	<u>What it means</u>	<u>What happens</u>
P1 Alarm	Probe 1, which senses the temperature inside the cellar and controls the on/off cycles of the cooling unit, has failed	The cooling unit enters a timed auto-cycle mode until Probe 1 is repaired or replaced. In this mode, the cooling unit will turn for 12 minutes and off for 8 minutes.

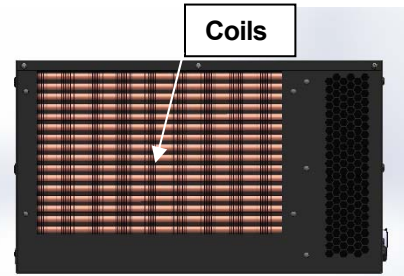
<u>Scenario</u>	<u>What it means</u>	<u>What happens</u>
HA2 Alarm P3 > 140° F	<p>The cooling unit is overheating.</p> <p>If you get an HA2 alarm,</p> <ol style="list-style-type: none">1. Press the “Set” button to turn off the alarm,2. Check to make sure that the condenser fan (ie the fan on the HOT side) is operating. If it is NOT operating, turn “off” the unit immediately.3. Contact CellarPro for further assistance. <p>Serious damage to the compressor may occur if the compressor continues to run without the fan.</p>	<p>The compressor will turn off until the condenser temperature falls below 95° F</p>





Maintenance

The condenser coils at the front of the cooling unit will collect dust, dirt, and lint over time. It is critically important to clean the coils periodically. If the condenser coils become clogged, the cooling unit will not have proper airflow and its performance and longevity will be compromised.



No Filter

To clean the coils, simply vacuum or brush the coils until all dust and lint have been removed. Do not use compressed air to clean the coils because it may force dirt particles into the cooling system and cause serious damage to its internal components.

CellarPro Filters

CellarPro filters ([CellarPro Filter + Frame Kit 1800/2000 #1368](#)) are compatible with the airflow requirements of CellarPro equipment and are designed to capture more dust and particles than other synthetic filters. The synthetic fibers are bonded with a fire-retardant resin and meet UL Class 2 flame retardance requirements (maximum temperature is 220 degrees).

We recommend replacing the fiberglass membrane ([CellarPro 1800/2000 Replacement Air Filters 2 Pack #1365](#)) every 6 months. These filters are single-use and cannot be cleaned – i.e., they should be replaced after use.

Never use third-party or pleated filters with CellarPro equipment.



Alarms

The cooling unit has both an audible notification and a visual alarm indicator (shown in “red” on the control panel) that are activated when an alarm is triggered. **Please note:** the HA and LA alarms are disabled during the first 23 hours of operation after the cooling unit is plugged in and/or turned on.

The control panel also will flash a code for each alarm, as follows:

<u>Alarm Code</u>	<u>What it means</u>	<u>What to do</u>
P1, P2, P3	Probe Failure	Call CellarPro at 877.726.8496
HA	The temperature inside the cellar is too warm (above 70° F for more than 1 hour)	Check seals; Check if door was left open; Lower the ambient temperatures
HA2	The condenser temperature is too high (above 140° F)	Check that the condenser fan (at the front of the cooling unit) is operating; Make sure that the filter (if used) or coils are clean; If the unit is ducted, make sure that the auxiliary fan is operating; Check for any blockages of the hot air intake or exhaust Then turn off the unit immediately and call CellarPro at 877.726.8496 or email info@cellarpro.com
LA	The temperature inside the cellar is too cold (below 45° F)	Raise the ambient temperature; Make sure the cold air discharge has sufficient clearance for the air to circulate Raise the “Minimum Set Point”
LA2	The temperature at the condenser coils (outside the cabinet) has dropped below the alarm temperature setting	Call CellarPro at 877.726.8496



V. Troubleshooting

- **The Cooling Unit Runs Constantly**

The cooling capacity of the cooling unit depends on the thermal load on the wine cellar, and the resulting BTU that is required to cool and maintain the cellar at the desired temperature. The cooling capacities of both units are shown on page 2. If the thermal load exceeds the capacity of the cooling unit, you will need to add insulation and/or raise the setpoint on the cooling unit.

The cooling unit is designed to turn on when the air temperature in the cellar rises ABOVE the Minimum Set Point + Temperature Differential and turn off when the air temperature falls below the Minimum Set Point. For example, if the Minimum Set Point is 58°F and the Temperature Differential is 4°F, the cooling unit will turn on above 62°F and turn off below 58°F. In this example, the average temperature inside the cellar will be 60°F.

When bottles are first loaded in the cellar, the cooling unit will run continuously (even up to a week) until the temperature inside the cellar falls below the Set Point. After the temperatures inside the wine cellar reach equilibrium, the cooling unit will run anywhere from 30 to 50 minutes in a given hour, depending on the thermal load and the setpoint.

Hot weather conditions, insufficient insulation, inadequate ventilation, incorrectly sized cellar capacity and/or dirty condenser coils can all cause the cooling unit to run continuously.

If your CellarPro wine cooling unit runs constantly, try the following:

- Clean the condenser coils or, if using a filter, replace it with a clean filter
- Make sure that all the fans are spinning in the cooling unit
- Make sure that the cooling unit is NOT in Energy-Saver Mode
- Increase the supply of cool air to the space outside the condenser coils (at the front of the cooling unit) using a fan or exhaust system
- Raise the Minimum Set Point on the cooling unit

If you continue to have problems, please complete our Cooling Unit Troubleshooting Inquiry Form ((found online) and we'll respond by the next business day.

- **The Cooling Unit Won't Turn On.**

The cooling system is programmed with a **3-Minute Delay at Startup** to protect its internal components.



- **The HA2 Alarm has been triggered**

HA2 alarms should be addressed as soon as possible, otherwise permanent damage may occur to the compressor.

CellarPro cooling units are designed to trigger an HA2 alarm when the temperature at the condenser coils gets too hot. HA2 alarms generally occur when:

- The condenser fan (at the front of the cooling unit) isn't turning
 - o The filter and/or condenser coils must be clean and free of blockages
 - o Our filters are custom-made for our cooling unit, and should never be replaced with filters that are not purchased from CellarPro
- Airflow at the front of the cooling unit is restricted or too small for the hot air exhaust to dissipate
- The thermal load of the wine cellar or cabinet exceeds the capacity of the cooling unit, and therefore the cooling unit never turns off
- The maximum intake temperature should not exceed 85F

When your cooling unit flashes an HA2 alarm, please do the following:

1. Check to see if the hot-side fan is operating when the fan icon is lit on the digital display. If the condenser fan is not operating, turn the unit "Off", then check to see if the fan blades will spin freely

Please note: there are multiple fans inside each cooling unit. The HA2 alarm is related to the fan **on the hot side** (i.e., at the front) of the cooling unit. Even if the fan inside the cellar is operating, you must check to see if the fan on the hot side is operating.

2. Confirm proper installation
 - o The hot side of the cooling unit must be completely separated from the cellar – it can't pull air from the cellar or push hot air into the cellar.
 - o The cold side of the cooling unit must be completely captured inside the wine cellar.
3. Check for appropriate ventilation at the front of the cooling unit. If the space is too small or restricted for the hot air exhaust to dissipate, the unit will continually recycle hot air.
4. Check for any obstructions to the intake and exhaust at the front of the cooling unit.
5. If the front of the unit is recessed in the wall, make sure to separate the exhaust from the intake with an insulated board. Depending on the length of



the recessed space and the cooling unit, you may need to add auxiliary fan support to overcome the static pressure that occurs from the restricted space.

6. If you have a grill or vent cover where the hot airflow terminates, they may be too restrictive for the cooling unit. To test, remove the duct covers and see if the problem is resolved. If so, you will need to replace with less restrictive vent covers.

If these actions do not resolve the issue, we will be glad to further assist you. In order to troubleshoot, start with the unit "Off" for 10 minutes, then gather the following information:

- Please send pictures of the installation, both front and rear, to info@cellarpro.com with the pictures attached. We need 4 pictures: a closeup of the entire unit AND a picture showing the unit in the installed environment for both the front and the rear of the cooling unit.

- **The Cooling Unit Is Dripping**

The cooling unit is designed to remove excess moisture from inside the cellar, which collects in the drip pan of the cooling unit.

Excess moisture can occur when the cooling unit runs constantly, when the Minimum Set Point is too low, and/or when the cellar doesn't have a good seal from the outside environment. To eliminate overflow in the drip pan, do the following:

1. Raise the Minimum Set Point of the cooling unit to 58 degrees or above.
2. Make sure the cellar has good seals, especially at the door(s), and repair any leaks immediately.
3. If your wine cooling unit came with a condensate fitting and drain line, make sure you properly setup the condensate trap (see Section II above).

If the cooling unit continues to drip, contact us at 877.726.8496 for further assistance.

- **The LA2 Alarm has been triggered**

The cooling unit is designed to measure the temperature of the condenser coils and, if the temperature drops below a certain point, the LA2 alarm will display on the control panel.

If you are getting an LA2 alarm, please contact us at 877.726.8496 for further assistance.

VI. Limited Warranty

1800XTSr: For five years from the date of original delivery, your CellarPro warranty covers all parts and labor to repair or replace any components that prove to be defective in materials or workmanship in the cooling unit.

Under the terms of this warranty, CellarPro will repair or replace the original cooling unit with a new or refurbished cooling unit and, once replaced, the original cooling unit must be returned to CellarPro.

All service provided by CellarPro under the above warranty must be performed by a designated repair center, unless otherwise specified by CellarPro. Purchaser is responsible for shipping the cooling unit to and from CellarPro or to and from a designated repair facility, and for removing and reinstalling the cooling unit from the wine cellar.

The limited warranty applies only to cooling units purchased from the factory or an authorized dealer. Damage caused by others or by any cause beyond the control of CellarPro, shall not be considered defects in material or workmanship and is not covered by the warranty. The limited warranty does not cover any parts or labor to correct any defect caused by negligence, commercial use, accident, or improper use, maintenance, installation, service, or repair.

THE REMEDIES DESCRIBED ABOVE FOR EACH WARRANTY ARE THE ONLY ONES, WHICH CELLARPRO WILL PROVIDE, EITHER UNDER THESE WARRANTIES OR UNDER ANY WARRANTY ARISING BY OPERATION OF LAW. CELLARPRO WILL NOT BE RESPONSIBLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM THE BREACH OF THESE WARRANTIES OR ANY OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other legal rights, which vary from state to state.

To receive parts and/or service and the name of a CellarPro designated repair facility nearest you, contact your CellarPro dealer. You may also contact CellarPro directly by calling us at 1.877.726.8496.