



### 1. Unpackage

- A. Remove unit from box. Check for any signs of concealed damage, and that all optional equipment has been provided. Contact Wine Guardian immediately if components are missing or unit has been damaged in shipping.
- B. Shipment includes:
  - One (1) fan-coil unit
  - One (1) condensing unit
  - One (1) 7' clear plastic drain hose

### 2. Installation—Mounting Locations

Wine Guardian's Split Pro system fan coil units are typically installed indoors located near the room to minimize the length of ductwork to and from the wine room. Provide a three-foot clearance around the unit for removal of ductwork, or access for unit maintenance. The fan coil unit can be located either above, or below the condensing unit in height keeping any height difference to a minimum.

#### Floor Mounting

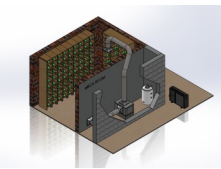
- A. Mount the Wine Guardian fan coil on a plywood surface at least 12 inches above the floor to keep it away from water. Allow adequate space for the external drain

#### Wall Mounting

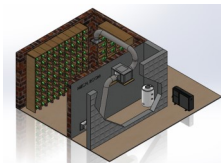
- A. Provide adequate support on both ends of the unit to accommodate the weight of the system. Angle brackets are available as an option for these types of applications

#### Ceiling Mounting

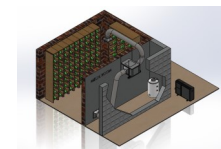
- A. Construct a structurally sound, level platform to place the unit on when hanging it from the ceiling joists. The SPLIT system is NOT designed to be suspended from the top of the unit; it must be supported from the bottom.



Floor mount



Wall mount



Ceiling mount

### 3. Wiring Thermostat

- A. Thermostat and control wire are **not included** with Wine Guardian Pro unit.
- Note: Wine Guardian Pro requires the use of a 24 volt thermostat. Thermostat and control wire shall be by others.
- B. Disconnect control wire from unit and thermostat. Route the control wire to the desired thermostat location within the wine room.
  - C. Follow thermostat manufacturer's instructions for mounting thermostat, making sure to re-connect the control wire to the device.
  - D. Re-connect the control wire at the Wine Guardian 24 volt terminal strip at the appropriate connection points. (see photo on left)



### 4. Condensate Drain

- A. PRO SERIES Split systems are supplied with 7 feet 2 meters) of 1/2" (13 mm) inside dimension clear tube.
- B. Slip plastic hose into drain port connection at unit and route to nearest open floor drain, sink or condensate pump. A hose clamp may be required at connection to prevent leakage.

**NOTE: SPLIT units have an internal trap. Do not double trap piping. Failure to comply may lead to water leaks and possible water damage to surrounding mounting area. Install drain line with a 1/4 inch per linear foot (1.25 cm/linear meter) of pitch.**



### 5. Installing Ductwork

- A. The split units are supplied with one (1) supply duct collar and (1) return duct collar as standard equipment.
- B. Install ductwork by folding back the insulation to expose the wire reinforced vinyl duct. Slip the ductwork over the end of the duct collar and fasten using two tie wraps supplied with the kit making sure the ductwork is tight on the duct collar.
- C. Fold the insulation back over the duct and duct collar and secure to collar using duct tape.



### 6. Installing the Condensing Unit

- A. Wine Guardian condensing unit must be mounted horizontally on its base as shown and be level to +/- 1/4" end to end and 1/8" side to side.
- B. A minimum of 12 inches is required around the perimeter of the condensing unit for proper airflow across the unit and for service access.
- C. Provide a half-inch downward slope in suction and liquid line toward the condenser for every 10 feet of line-set to prevent an oil return issue from occurring. This will allow oil in the system to return to the compressor when the system is off to ensure the system remains lubricated.
- D. Mount system on concrete slab outside above average snow fall heights. Unit can also be mounted to side of house or within a large indoor crawl space, attic, or mechanical room that is at least three (3) times the size of the cellar.
- E. Prevent dips, sags, or other low spots that will trap refrigerant oil.
- F. Evacuate and leak test indoor unit suction and liquid lines by purging the dry air charge from the unit by opening the liquid line shut-off valve or removing the liquid line outlet fitting or plug, whichever is applicable for your unit.
- G. Pressurize and leak test system (the condensing unit comes pre charged). A pressure equal to the low side test pressure marked on the unit nameplate is recommended for leak testing.
- H. Evacuate the system to hold at 500 microns and break the vacuum with refrigerant. Charge the system with the correct amount of refrigerant and mark the amount, with a permanent marker in the space provided on the unit nameplate. (See chart on below)
- I. See the full Wine Guardian Operations and installation manual for comprehensive charging procedure.

### System Charging

For Installations using a line-set distance that are **Less Than or Equal To 25'** add the required amount of refrigerant shown in the table above.  
For Installations using a line-set distance that are **Greater Than 25'** add the required amount of refrigerant shown in the table above THEN add additional refrigerant based on the rules below:

Models SP25 & SP50

Add an additional 0.50 oz/ft (0.465 kg/meter) for every foot **exceeding 25'**

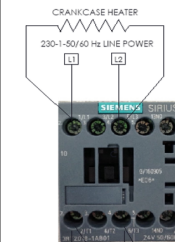
Models SP88 & SP200

Add an additional 1 oz/ft (0.93 kg/meter) for every foot **exceeding 25'**

Assuming a 25' Line-Set Installation				
Model #	Total Charge Required	Holding Charge Present	Charge That Must Be Added	Additional Charge to add for XLA <sup>1</sup> option
<i>60Hz Models</i>				
SP25	59 oz	16 oz	<b>43 oz</b>	4 oz
SP50	55 oz	16 oz	<b>39 oz</b>	4 oz
SP88	105 oz	16 oz	<b>89 oz</b>	6 oz
SP200	108 oz	16 oz	<b>92 oz</b>	6 oz

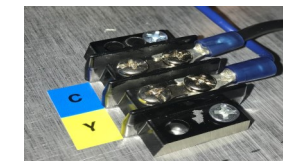
<sup>1</sup>XLA – Extreme Low Ambient Option

MODEL	LIQUID LINE (OD)	SUCTION LINE (OD)
SP25	1/4 inch / 0.635 cm	3/8 inch / 0.952 cm
SP50	1/4 inch / 0.635 cm	1/2 inch / 1.27 cm
SP88	3/8 inch / 0.952 cm	5/8 inch / 1.59 cm
SP200	3/8 inch / 0.952 cm	3/4 inch / 1.905 cm



### 7. Wiring the Unit for Power

- A. Connect line power to the contactor inside the condensing unit as shown left.
- B. Run 24 volt low voltage signal wires from Y and C terminals on fan coil (shown in image to left below) to Y and C connections in condenser housing (shown below).
- C. Turn on power to the condensing unit 24 hours prior to system start-up to allow crankcase heater to warm up compressor.



24 volt connection

**\*See pages 15-23 in owners manual for full wiring schematics/diagrams. Inside of condensing unit also contains schematic.**



Unit	Recommended Minimum AWG
SP200	12
SP88	16
SP50	16
SP25	16



### 8. Turn Unit On

- A. Turn the ON/OFF switch to the "ON" position. **Green LED lit when unit is on.**
- B. Follow thermostat instruction to adjust temperature set-point to 55°F (13°C).
- C. The thermostat may have a built-in time delay for compressor protection, system should turn on after time de-

## Wine Guardian PRO SERIES SPLIT System

### Quick Start Installation Guide Specialty Residential and Commercial Cooling System Quick Start Installation Guide

This document is a pictorial guide on installing the SPLIT Pro Series Cooling System. It is not intended to replace the detailed instructions found in the SPLIT System Installation, Operation and Maintenance (IOM) manual, which includes important safety messages. All SPLIT Series installers and owners should carefully follow for safe and optimal performance of the system. A copy of the manual may be viewed and downloaded at <https://wineguardian.com/support-wine-cellar-consultation/installation-operation-maintenance-manuals/>

Refer to the Installation and Operations manual for installation instructions related to duct collars and duct collar kits, optional remote interface control and remote sensors.

If you have any additional questions related to the installation, operation or maintenance of your SPLIT system, please contact your authorized Pro Series distributor or Wine Guardian Service Department.

Visit [wineguardian.com/pro-specialty-commercial-residential-hvac/](https://wineguardian.com/pro-specialty-commercial-residential-hvac/)  
Or call toll free 800-825-3268



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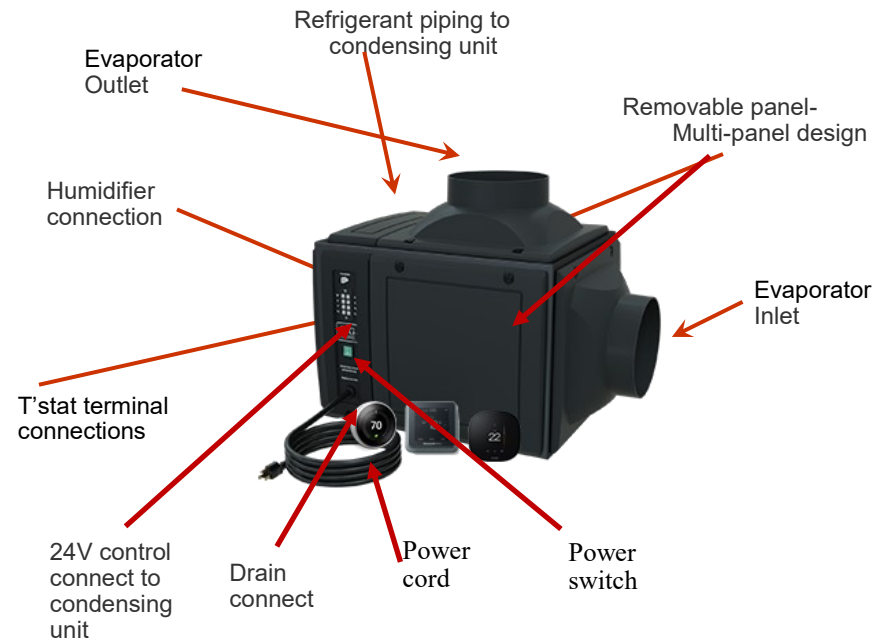
## **SPLIT Series** Commercial Grade Packaged Cooling Systems Quick Start Installation Guide

[wineguardian.com](https://wineguardian.com)

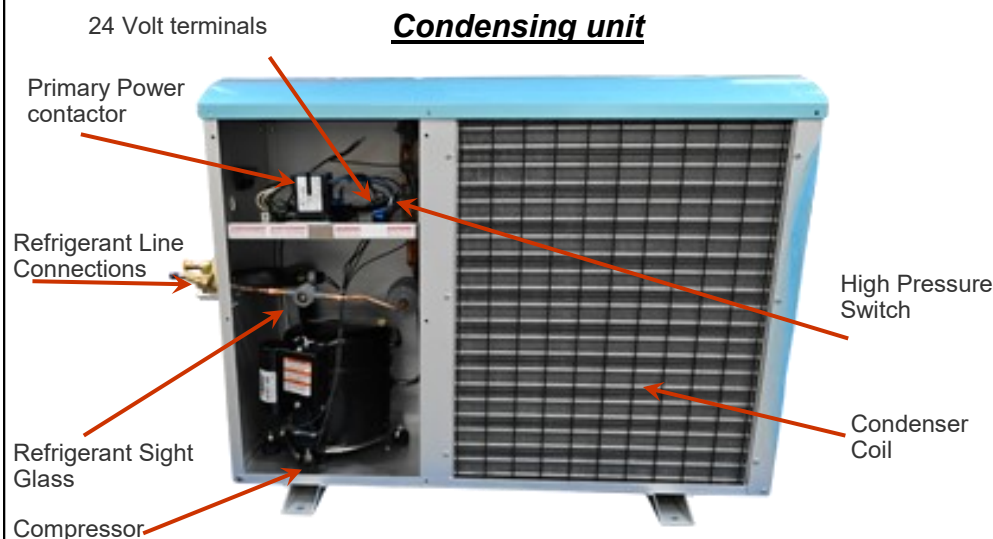
[help.wineguardian.com](https://help.wineguardian.com)

Part No.15H0324-00 Rev. A

### Fan Coil



### Condensing unit



### Optional Equipment

#### **Humidification—Integral or Stand-alone**

Ideal for adding humidity to your wine cellar.

#### **Electric Heat Option**

Required when the temperature in the rooms surrounding the wine cellar may drop below 50°F (10°C) for an extended period of time. Factory installed.

#### **Xtreme Low Ambient Option**

The Xtreme low ambient cold temperature package is recommended for areas where the temperature consistently dips below 20°F and maintains operation of the Wine Guardian condensing unit to -20°F.

