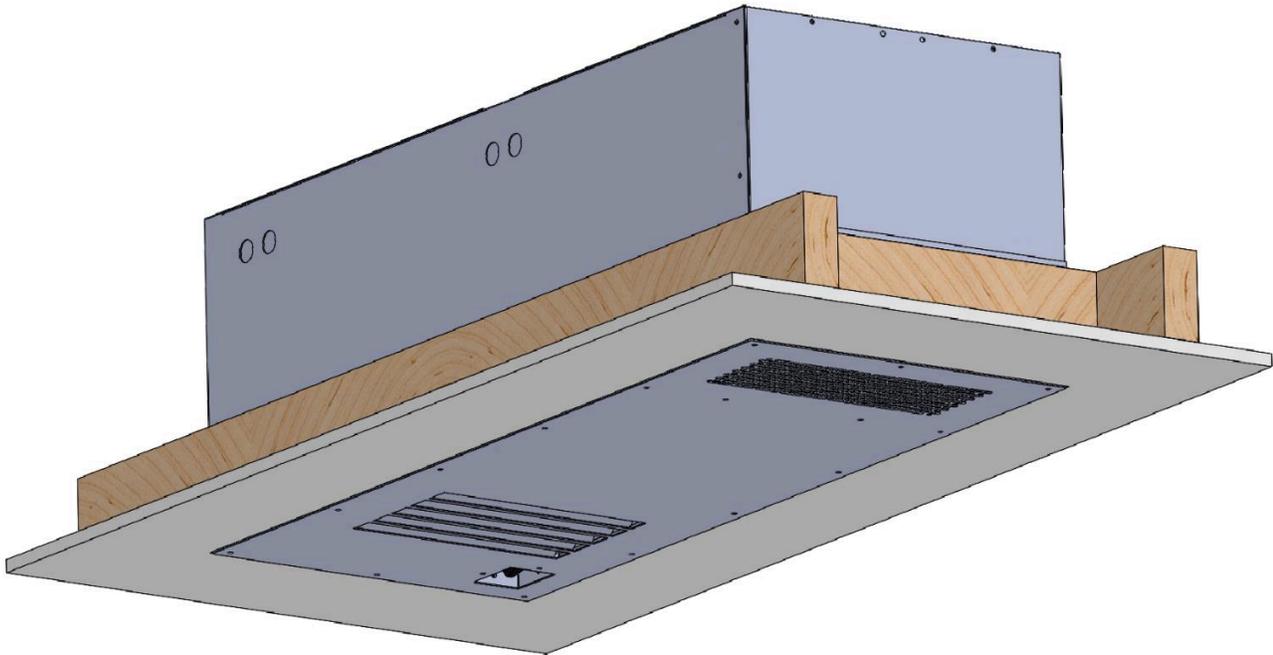




Control the Elements



*Split Recessed Ceiling Mount  
Refrigeration Systems  
Owner's Manual*

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## 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](http://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 707.794.8000. You also may contact us anytime via email at [info@cellarpro.com](mailto:info@cellarpro.com).

### Contact Information:

#### **CellarPro Cooling Systems**

1445 N. McDowell Blvd  
Petaluma, CA 94954  
707.794.8000

Email: [info@cellarprocoolingsystems.com](mailto:info@cellarprocoolingsystems.com)

Website: [www.cellarprocoolingsystems.com](http://www.cellarprocoolingsystems.com)

### IMPORTANT WARRANTY INFORMATION FOR YOUR SPLIT SYSTEM

**Make sure to activate your warranty by having the installing technician complete the Support and Data Service Sheet at the end of this Owner's Manual.** Once completed, please fax to us at 707.794.8005, or scan and email to us at [info@cellarpro.com](mailto:info@cellarpro.com).

Once we receive the completed Sheet, we'll review the data to make sure the cooling system is installed properly.

**YOUR WARRANTY WILL NOT BE ACTIVATED UNTIL WE RECEIVE THE COMPLETED CHECKLIST AND INSTALLATION ISSUES (IF ANY) HAVE BEEN RESOLVED.** If the unit malfunctions, we cannot assist you unless/until we receive the completed checklist. If the unit is damaged because of improper installation, repair services will be provided on a time and materials basis.



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## I. Package Contents

### 3000Scmr/4000Scmr

BOX 1:

DESCRIPTION	QTY
EVAPORATOR	1
MTG BRACKET WOOD SCREWS	16
MTG BRACKET SHEET METAL SCREWS	12
DRAIN TUBING	25 FT.
OWNERS MANUAL	1
REMOTE DISPLAY KIT	1
REMOTE DISPLAY LEADWIRE	20 FT.
OPTIONAL NETWORKABLE THERMOSTAT LEADWIRE	20 FT.
SIGHT GLASS	1
FILTER DRIER	1

BOX 2:

DESCRIPTION	QTY
CONDENSING UNIT	1

BOX 3 (OPTIONAL):

DESCRIPTION	QTY
CONDENSING UNIT OUTDOOR COVER	1 SET
COVER ASSEMBLY HARDWARE	1 SET

### 6000Scmr/8000Scmr

BOX 1:

DESCRIPTION	QTY
PRIMARY EVAPORATOR	1
MTG BRACKET WOOD SCREWS	32
MTG BRACKET SHEET METAL SCREWS	24
DRAIN TUBING	25 FT.
OWNERS MANUAL	1
REMOTE DISPLAY KIT	1
REMOTE DISPLAY LEADWIRE	20 FT.
OPTIONAL NETWORKABLE THERMOSTAT LEADWIRE	20 FT.
SIGHT GLASS	1
FILTER DRIER	1

BOX 3:

DESCRIPTION	QTY
CONDENSING UNIT	1

BOX 4 (OPTIONAL):

DESCRIPTION	QTY
CONDENSING UNIT OUTDOOR COVER	1 SET
COVER ASSEMBLY HARDWARE	1 SET

BOX 2:

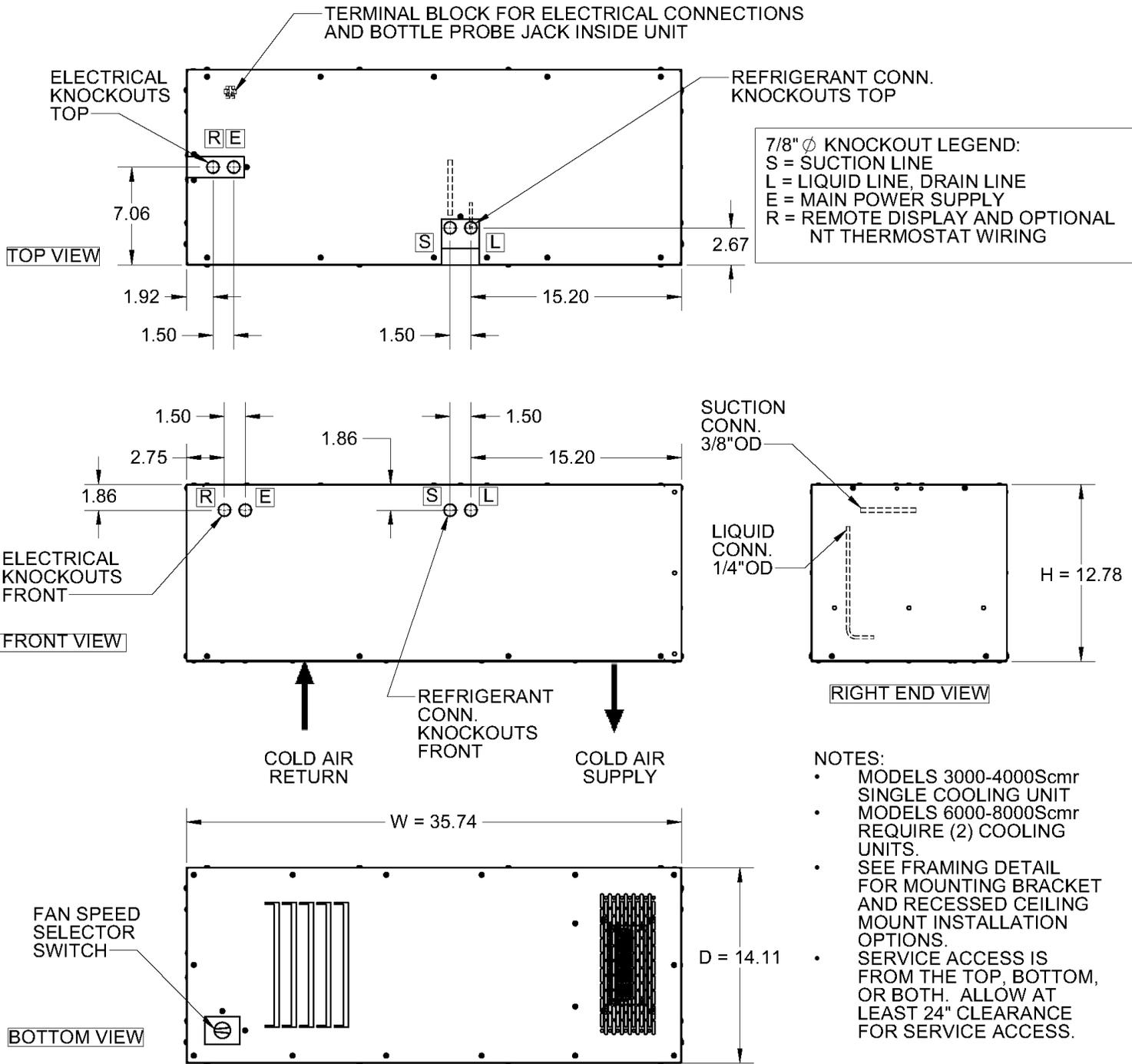
DESCRIPTION	QTY
SECONDARY EVAPORATOR	1
DRAIN TUBING	25 FT.

## II. Specifications, Cut Sheets and Cellar Construction

	Evaporator		
Model	Dimensions W x D x H (inches)	Weight (lbs.)	Running Amps (with fan on "high")
3000Scmr	35.8 x 14.2 x 12.8	60	6.2
4000Scmr	35.8 x 14.2 x 12.8	60	8.5
6000Scmr	(2) @ 35.8 x 14.2 x 12.8	120	13.1
8000Scmr	(2) @ 35.8 x 14.2 x 12.8	120	14.7

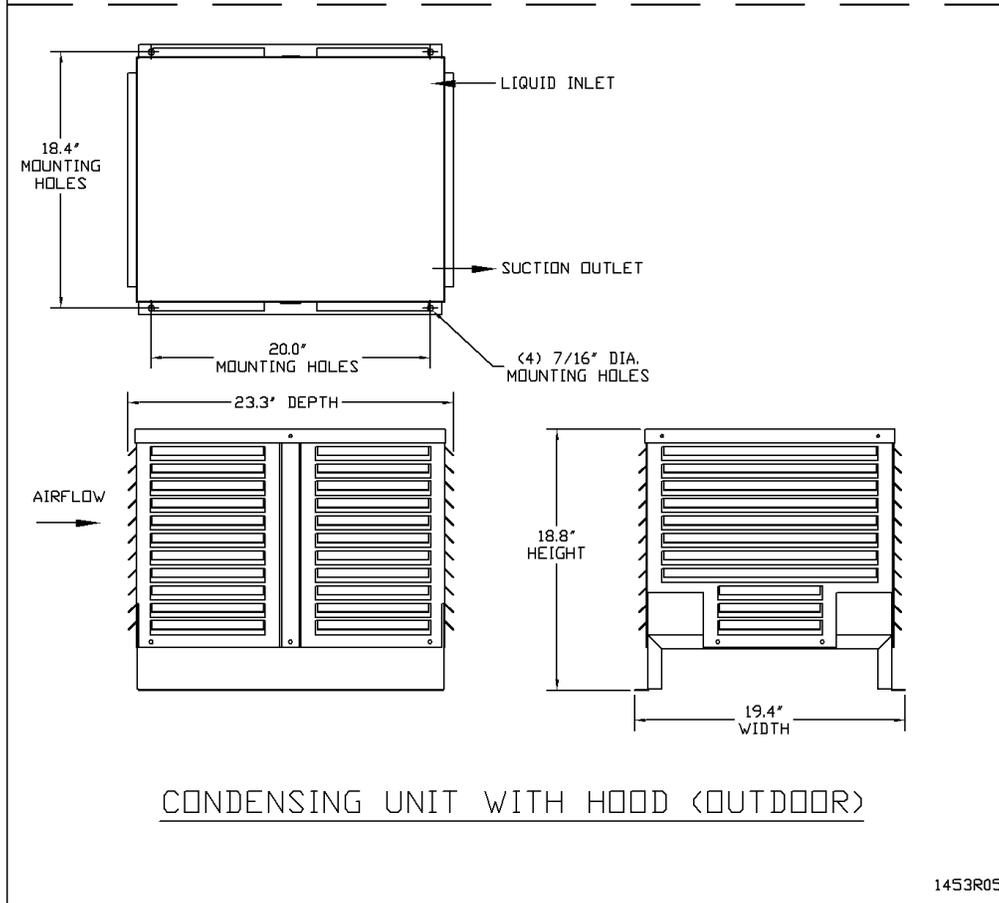
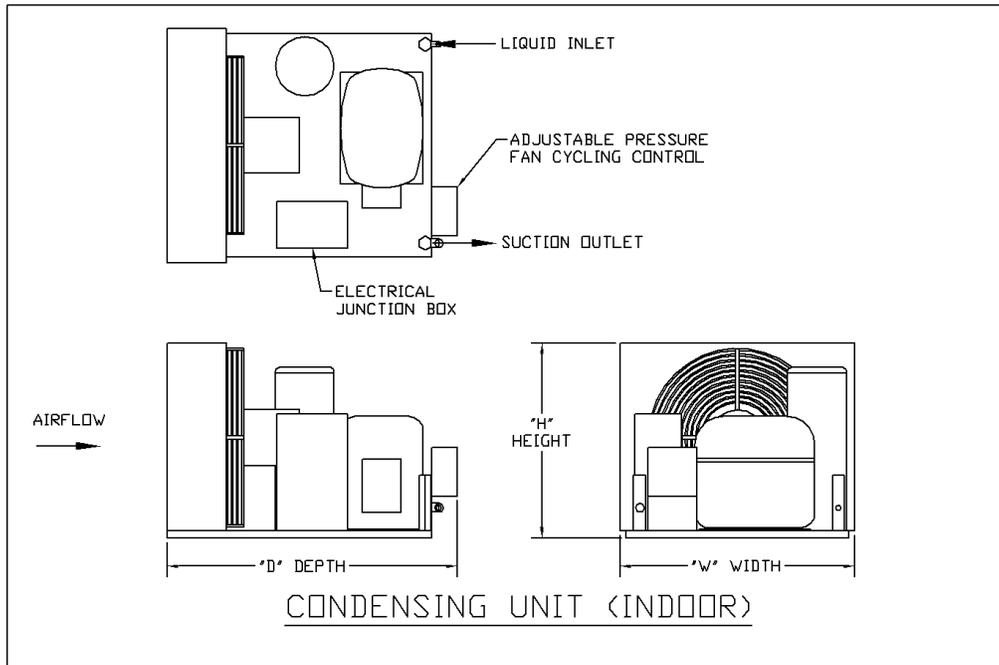
	Condensing unit - Indoor		Condensing unit - Outdoor	
Model	Dimensions W x D x H (inches)	Weight (lbs.)	Dimensions W x D x H (inches)	Weight (lbs.)
3000Scmr	13.5 x 18.9 x 9.1	42	19.4 x 23.3 x 18.8 (with cover)	73
4000Scmr	13.5 x 18.9 x 10.3	45		76
6000Scmr	13.9 x 18.9 x 11.9	54		85
8000Scmr	16.8 x 20.8 x 14	76		107

# Evaporator Cut Sheet



- NOTES:**
- MODELS 3000-4000Scmr SINGLE COOLING UNIT
  - MODELS 6000-8000Scmr REQUIRE (2) COOLING UNITS.
  - SEE FRAMING DETAIL FOR MOUNTING BRACKET AND RECESSED CEILING MOUNT INSTALLATION OPTIONS.
  - SERVICE ACCESS IS FROM THE TOP, BOTTOM, OR BOTH. ALLOW AT LEAST 24" CLEARANCE FOR SERVICE ACCESS.

## Condensing Unit Cut Sheet



1453R05

## Insulation

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 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 allow air to leak into the cellar.



the  
can

It is important that all walls, joints, doors and windows, electrical outlets and/or switches, pipes, vents and light fixtures be sealed to prevent air and moisture from entering the cellar. If there is a leak in the cellar, the cooling unit will build up excess condensation.

The condensate pump drain line must be routed to an appropriate water drain.

## Fan Speeds

Your fan speed setting will depend on the thermal load on the wine cellar, and the resulting BTU that is required to cool and maintain your wine cellar at the desired temperature.

## Ventilation

Adequate ventilation is critically important for the proper operation of your CellarPro cooling unit.

## Outside the Cellar

**Condensing unit Air Exhaust.** Condensing units create significant hot air which must be exhausted into an appropriately-sized space in order for the heat to dissipate. If the space is constrained and/or too small, the heat will not dissipate. In this event, the cooling unit will be forced to re-circulate its hot air exhaust and/or the static pressure will back up the cooling unit. If this happens, the cooling unit's ability to create cold air inside the cellar will be compromised.

**Condenser Air Intake.** The condenser coils require access to cool air in order for the cooling unit to produce cold air. In addition, the cooling unit must be installed so that, after its installation, the condenser coils are accessible for periodic cleaning.

The Condensing unit cannot be ducted.

## Inside the Cellar

**Evaporator Air Intake.** When the warm air passes across the evaporator coils, heat is removed from the air, and the resulting cold air is exhausted into the cellar. To ensure proper airflow, minimum clearance of 12" is required at the air intake of the cooling unit (refer to Evaporator Cut Sheet).

**Evaporator Air Exhaust.** Cold air is exhausted at the front of the cooling unit. Because CellarPro cooling units are located at the highest point inside wine cellars, the cold air exhaust eventually will drop 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. A minimum clearance of 12" is required at the air exhaust (refer to Evaporator Cut Sheet).

We also offer a bottle probe (10 foot cord) that can be plugged into the cooling unit, as well as 25' and 50' extension cords. The probe jack is located inside the ceiling mounted housing.

### III. Installation Instructions

#### Installation Instructions

**Split System piping and wiring must be installed by a qualified Refrigeration Technician in accordance with local and national code requirements.**

#### Condensing Unit Installation

##### Indoor and Outdoor Units

- The unit is designed to operate in temperatures ranging from -20°F to 110°F for Single Power / Electronic Control, or +20°F to 110°F for Dual Power / Valve Control. A compressor heater (sold separately) is required for temperatures below 40°F.

##### Indoor Units

- Condensing units can be installed remotely from the cellar in an area protected from direct exposure to moisture and sunlight.
- The area must have suitable ventilation to maintain an ambient temperature of 110°F or less.
- If the area does not have adequate ventilation, a vent fan should be added to supply fresh air to the space (suggested 600CFM).
- A minimum of 12" of open air space is required in front of the condenser coils.
- Indoor units can be installed with the optional outdoor hood if additional mechanical protection is desired.
- A minimum of 12" of open air space around the perimeter of the outdoor hood is required.

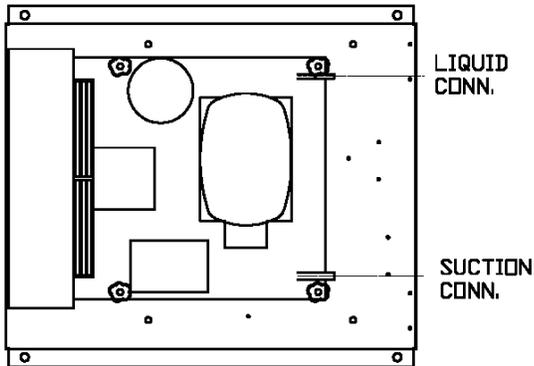
##### Outdoor Units

- Condensing units must be installed with the outdoor hood if the unit will be located outdoors.
- A minimum of 12" of open air space around the perimeter of the outdoor hood is required.
- The condensing unit must be mounted on the base with the holes aligned, as shown below:

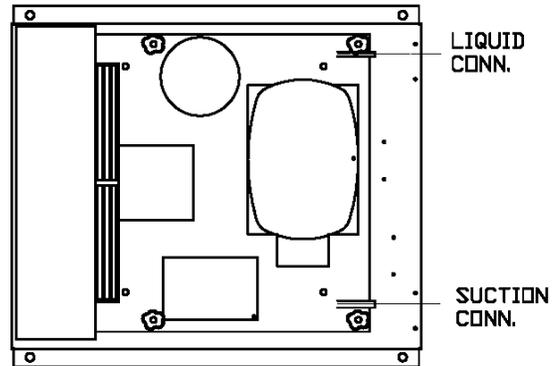
## OUTDOOR HOOD - BASE ATTACHMENT INSTRUCTIONS

CORRECT CONDENSING UNIT POSITIONING ON OPTIONAL OUTDOOR HOOD BASE:

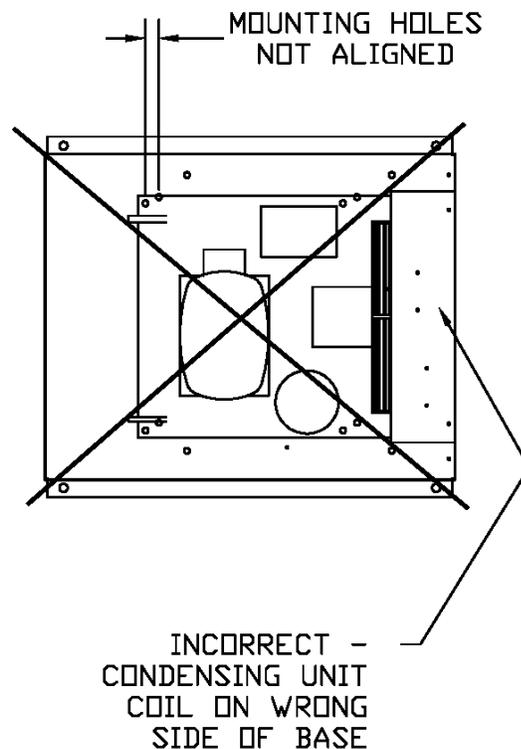
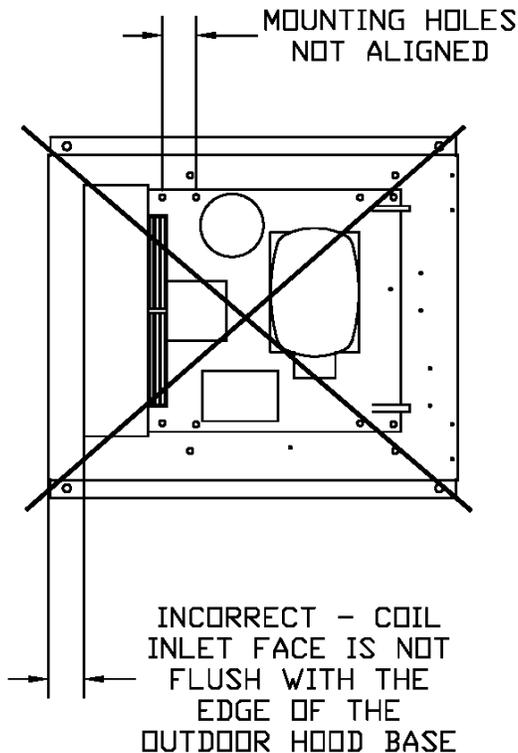
1. POSITION THE CONDENSING UNIT ON THE BASE AS SHOWN (TOP VIEW).
2. MATCH MOUNTING HOLES IN THE CONDENSING UNIT BASE (☉ SYMBOL) TO THE MATCHING HOLES IN THE OUTDOOR HOOD BASE.
3. SECURE CONDENSING UNIT TO THE BASE USING (4) 1/4-20x1" BOLTS AND 1/4-20 SERATED LOCKNUTS (PROVIDED IN PARTS BOX)



3000S/4000S/6000S  
CONDENSING UNIT



8000S CONDENSING UNIT

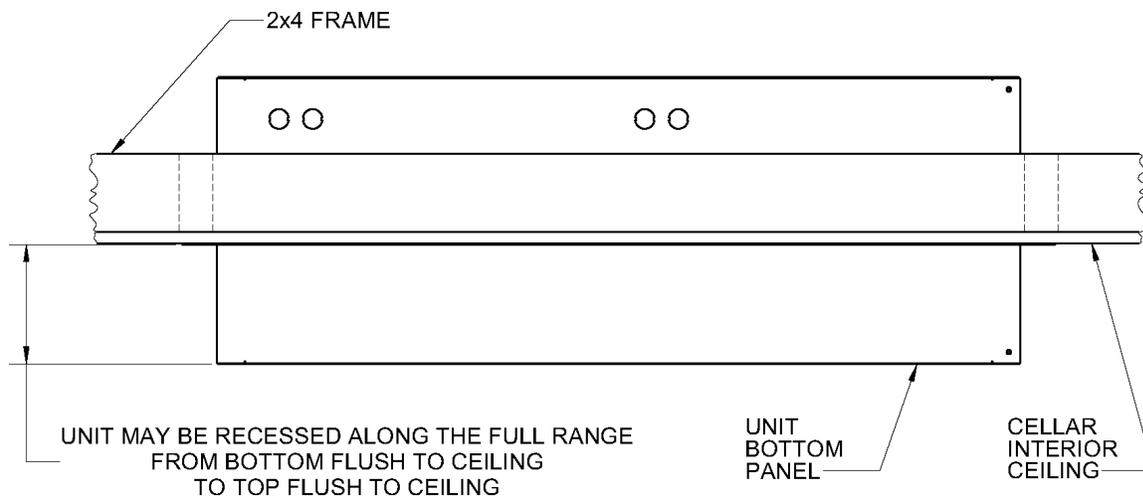


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## Evaporator Unit Installation

As warm air rises to the top of the cellar, the cooling unit pushes the warm air through the evaporator coil and removes the heat from the warm air. Once cooled, the cold air is discharged from the bottom of the cooling unit and circulates through the cellar. Therefore, **we recommend mounting the evaporator in the center of the cellar ceiling, with the evaporator air exhaust closest to the cellar door.**

The evaporator is designed to be recessed into the ceiling. Mounting brackets are provided with location holes in the bottom perimeter of the cooling unit for full-recessed ceiling mount. However, the brackets may be located anywhere along the unit housing to provide the desired level of ceiling recess. Locating holes must be drilled for alternate locations, using a 1/8" dia drill with a drill stop of 1/2" maximum. **IMPORTANT:** A drill stop must be used to avoid damage to internal tubing and wiring.



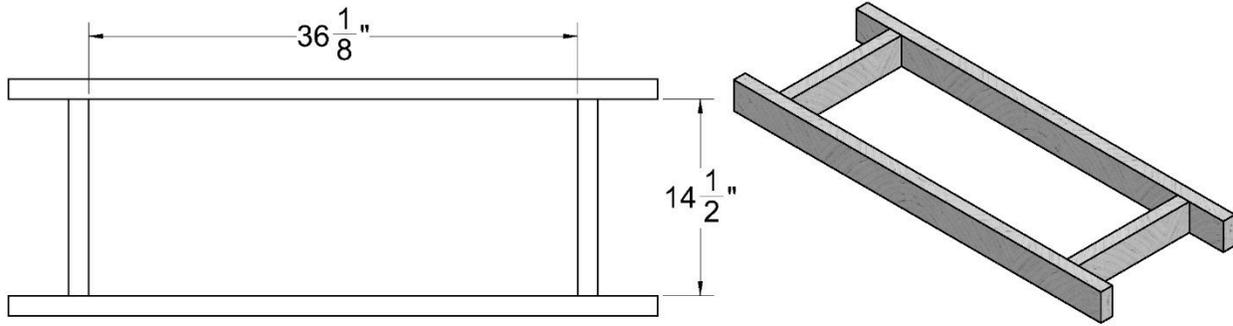
Access for the refrigerant and electrical connections is from the top, bottom, or both. The access will be easiest from the top. Knockouts are provided for both the refrigerant lines and electrical at the top of the unit, or optionally out the front. It is recommended that the refrigerant lines, electrical, and condensate pump drain line are stubbed out in advance of installing into the ceiling so that the final connections can be more easily accessed outside of the unit.

For top access, remove the top panel and blue insulating foam. When finished routing the connections, make sure to fully insulate around the knockouts and replace the blue foam. For bottom access, remove the bottom panel and drain pan.

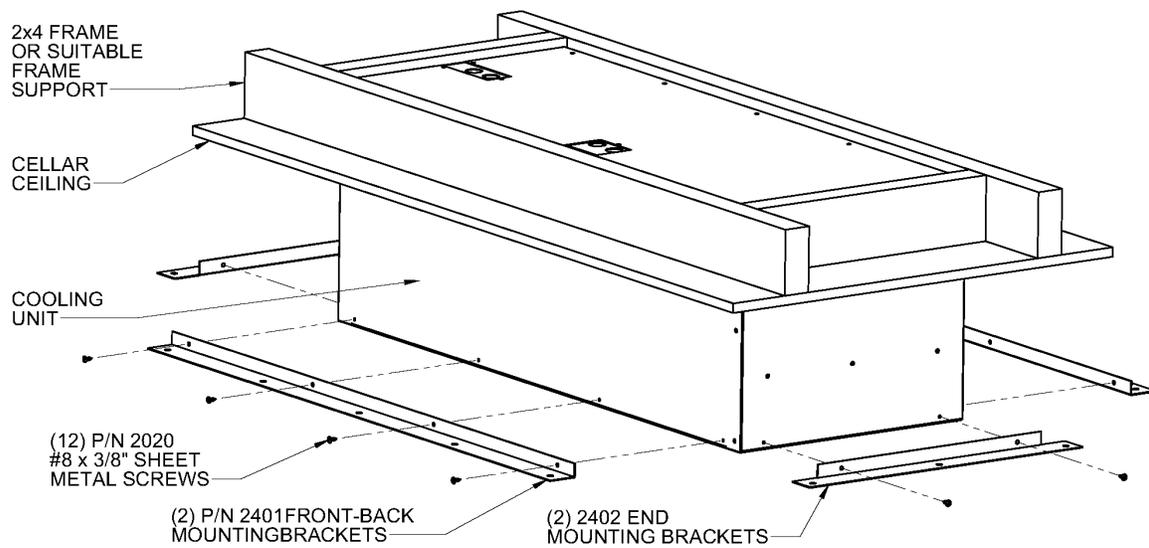
After installing through the ceiling, it is critical to seal the perimeter of the unit so that air cannot infiltrate through the gaps. Any exposed sheet metal that is not inside the cellar must be insulated with a minimum of 1" closed cell foam firmly attached to the sheet metal, and all insulation seams sealed. Uninsulated sheet metal exposed to ambient air will develop condensation which will damage the cellar ceiling.

The evaporator housing comes with a gray powdercoat 40% gloss primer which can be painted to match the ceiling.

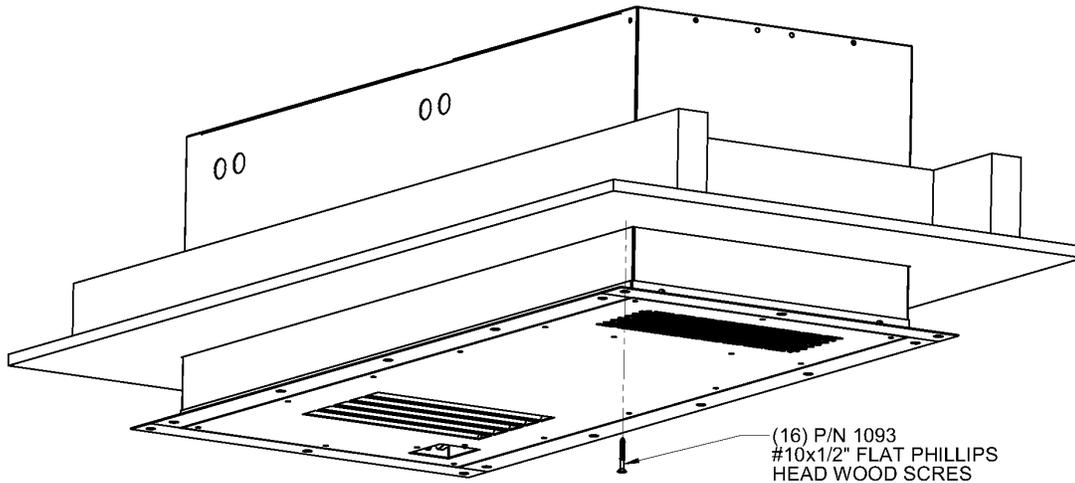
### Evaporator 2x4 Framing Detail



### Evaporator Recessed Ceiling Mounting Detail



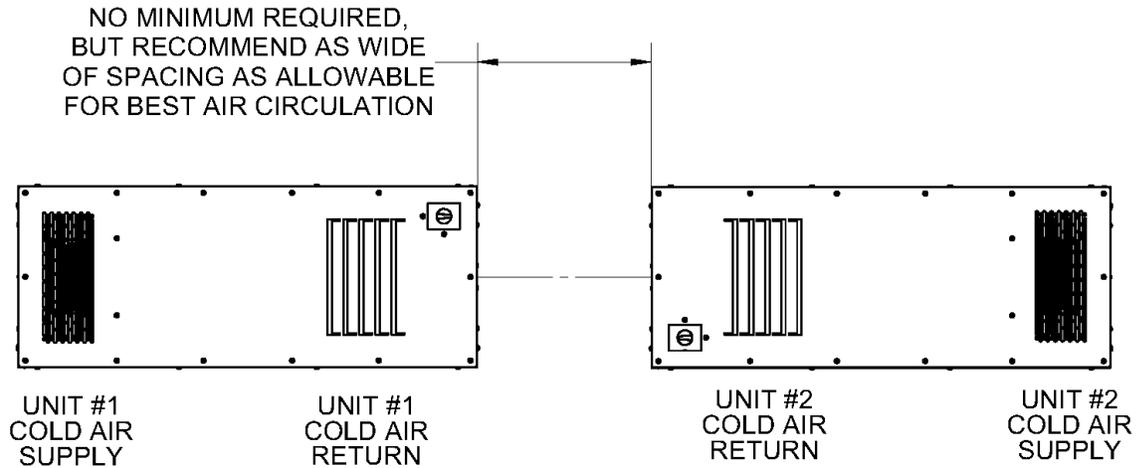
INSTALL MOUNTING BRACKETS TO COOLING UNIT



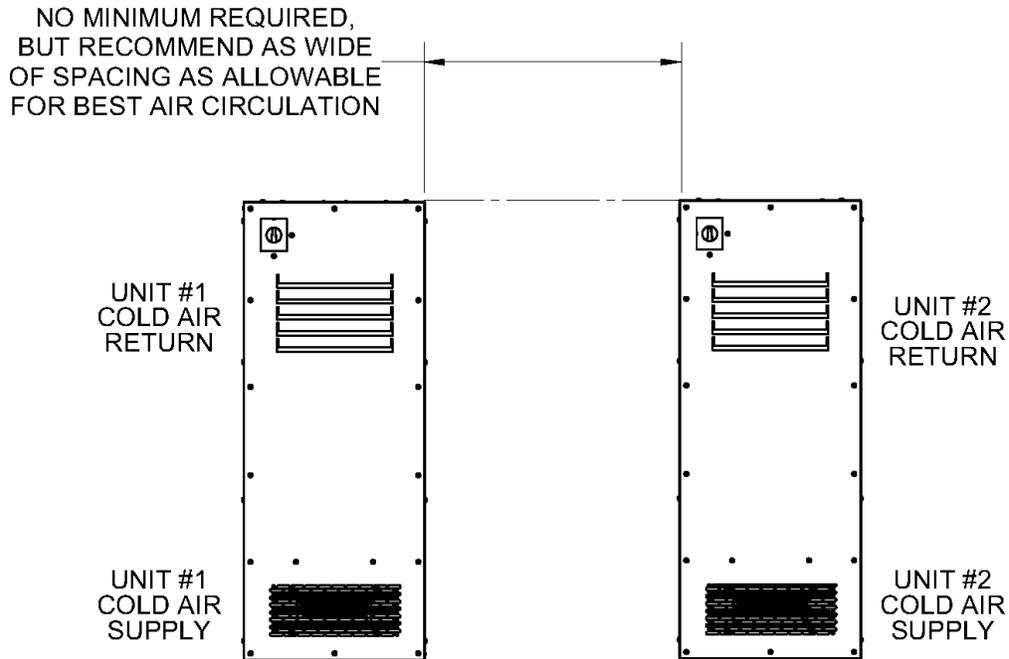
INSTALL COOLING UNIT/BRACKET ASSEMBLY TO CEILING

## Dual Evaporator Mounting Options

6000Scmr and 8000Scmr models require two evaporators to be mounted in the cellar. These may be mounted in either of the two orientation options shown in the drawing below.



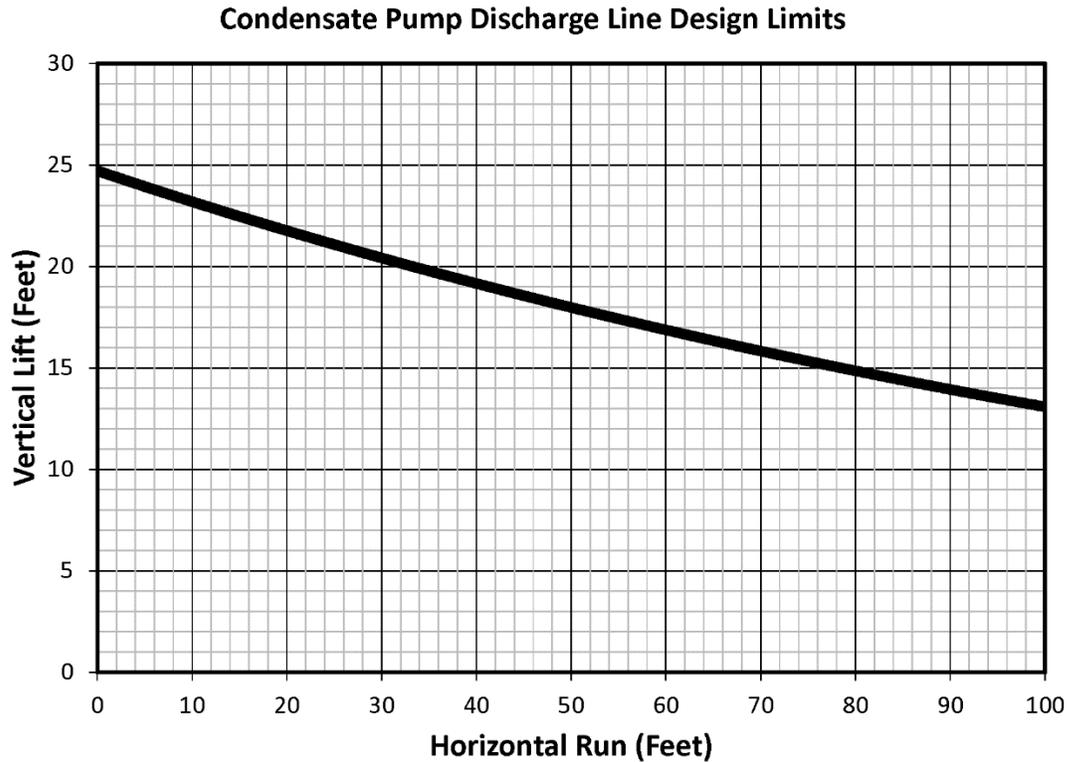
OPTION 1: END TO END



OPTION 2: SIDE BY SIDE

## Condensate Drain Line

Each evaporator has an internal integrated condensate pump with 25 feet of ¼" PVC drain tubing. This tubing should be routed to a suitable drain according to the following design limits:



The condensate pump is self-priming. The pump activates when the water level in the drain pan reaches a depth of 5/8", and shuts off when the water level reaches 3/16". The pump will activate an overflow alarm at a level of 1", indicated by "CA" on the remote controller display. The refrigeration is disabled while this alarm condition persists, but the pump will continue to run until the alarm is cleared.

Over time, the pump sensor may become contaminated by particles in the condensate water causing the pump to run constantly. If this occurs, flush the sensor with clean water through the pump sensor housing vents.

**OPTION A: DUAL POWER VALVE CONTROL WIRING OPTION  
SEPARATE POWER SUPPLIES FOR EVAPORATOR AND CONDENSING UNIT**

SPLIT SYSTEM MODEL	EVAPORATOR									CONDENSING UNIT			
	EVAP MCA	EVAP MOP	FAN RATINGS @ 115V/1Ph/60Hz				POWER INPUT WATTS			UNIT AMPS @ 115V/1Ph/60Hz			POWER INPUT WATTS
			Fan Amps	HIGH	MED	LOW	HIGH	MED	LOW	MCA	LRA	MOP	
3000Scmr	1.29	15	1.03	1.0	0.8	0.7	107	84	70	6.33	28.2	15	442
4000Scmr	1.29	15	1.03	1.0	0.8	0.7	107	84	70	9.20	40.0	15	591
6000Scmr	2.32	15	2.06	2.1	1.7	1.4	214	168	140	13.50	53.0	20	922
8000Scmr	2.32	15	2.06	2.1	1.7	1.4	214	168	140	15.35	51.0	25	1028

**NOTES:**

- 1) Separate 115V / 1Ph / 60Hz power supplies are required for the Evaporator and the Condensing Unit.
- 2) 6000Scmr and 8000Scmr systems are configured with dual evaporators, wired Primary and Secondary. Main power supply connection is to the Primary Unit, with interconnect wiring to the Secondary Unit.
- 3) A 15 amp circuit breaker is recommended for all Evaporator models.
- 4) A 15 amp dedicated circuit breaker (non GFI) is recommended for 3000-4000Scmr Condensing Units.
- 5) A 20 amp dedicated circuit breaker (non GFI) is recommended for the 6000Scmr Condensing Unit.
- 6) A 25 amp dedicated circuit breaker (non GFI) is recommended for the 8000Scmr Condensing Unit.

**OPTION B: SINGLE POWER ELECTRONIC CONTROL WIRING OPTION  
SINGLE POWER SUPPLY TO EVAPORATOR (CONDENSING UNIT)**

SPLIT SYSTEM MODEL	SYSTEM POWER SUPPLY 115V/1Ph/60Hz						EVAPORATOR				CONDENSING UNIT	
	System MCA	System MOP	POWER INPUT WATTS			Evap Fan Amps	Fan Speed			Comp LRA	Comp RLA	
			HIGH	MED	LOW		HIGH	MED	LOW			
3000Scmr	7.36	15	549	526	512	1.03	1.0	0.8	0.7	28.2	4.70	
4000Scmr	11.05	15	698	675	661	1.03	1.0	0.8	0.7	40.0	7.00	
6000Scmr	15.56	25	1136	1090	1062	2.06	2.1	1.7	1.4	53.0	10.00	
8000Scmr	17.41	25	1242	1196	1168	2.06	2.1	1.7	1.4	51.0	11.20	

**NOTES:**

- 1) A 15 amp dedicated circuit breaker (non GFI) is recommended for 3000-4000Scmr systems.
- 2) 6000Scmr and 8000Scmr systems are configured with dual evaporators, wired Primary and Secondary. Main power supply connection is to the Primary Unit, with interconnect wiring to the Secondary Unit and Condensing Unit.
- 3) A 25 amp dedicated circuit breaker (non GFI) is recommended for 6000-8000Scmr systems.

### 3000/4000Scmr System Wiring – Option A: Dual Power / Valve Control

Under this configuration the Evaporator and Condensing units are separately powered, and the Condensing unit turns on and off based on suction pressure, as follows:

- The Evaporator includes a factory installed liquid line solenoid valve (LLSV), which is controlled by the Evaporator temperature controller. The Condensing unit is controlled by a low pressure switch which reacts to the suction pressure and senses whether the LLSV is open or closed.
- When the Evaporator temperature set-point is reached and the Evaporator turns off, the LLSV closes, causing the system to pump down until the low pressure switch shuts off the Condensing unit.
- When the Evaporator turns on, the LLSV opens, causing the suction pressure to rise and activate the Condensing unit.

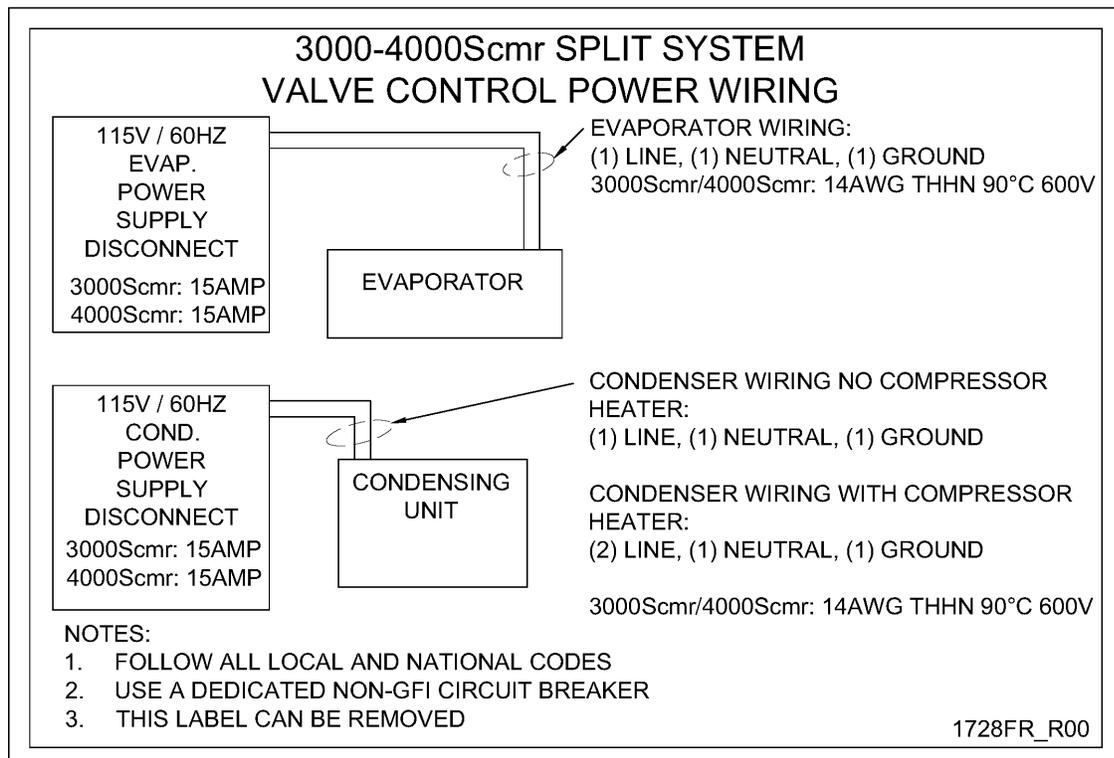
Field power wiring is connected to both the Evaporator and Condensing units, no interconnecting wiring is needed between the Evaporator and Condensing unit.

#### Evaporator Field Power Wiring:

- Connect line lead to Evaporator terminal "L"
- Connect neutral lead to Evaporator terminal "N"
- Connect power ground to grounding lug on Evaporator

#### Condensing Unit Field Power Wiring:

- Connect line lead to Condensing unit terminal "L1"
- Connect neutral lead to Condensing unit terminal "L2"
- Connect power ground to grounding lug on Condensing unit.



## **6000/8000Scmr System Wiring – Option A: Dual Power / Valve Control**

Under this configuration the Primary Evaporator and Condensing units are separately powered, the Secondary Evaporator is powered from the Primary Evaporator, and the Condensing unit turns on and off based on suction pressure, as follows:

- Both the Primary and Secondary Evaporators include a factory installed liquid line solenoid valve (LLSV), which is controlled by the Evaporator temperature controller in the Primary Evaporator. The Condensing unit is controlled by a low pressure switch which reacts to the suction pressure and senses whether the LLSV is open or closed.
- When the controller temperature set-point is reached, both of the LLSV close, causing the system to pump down until the low pressure switch shuts off the Condensing unit.
- When the controller calls for cooling, both of the LLSV open, causing the suction pressure to rise and activate the Condensing unit.

Field power wiring is connected to the Primary Evaporator and Condensing units, and interconnect wiring between the Primary and Secondary Evaporators. No interconnecting wiring is needed between the Evaporator and Condensing unit.

### **Primary Evaporator Field Power Wiring:**

- Connect line lead to Primary Evaporator terminal "L"
- Connect neutral lead to Primary Evaporator terminal "N"
- Connect power ground to grounding lug on Primary Evaporator

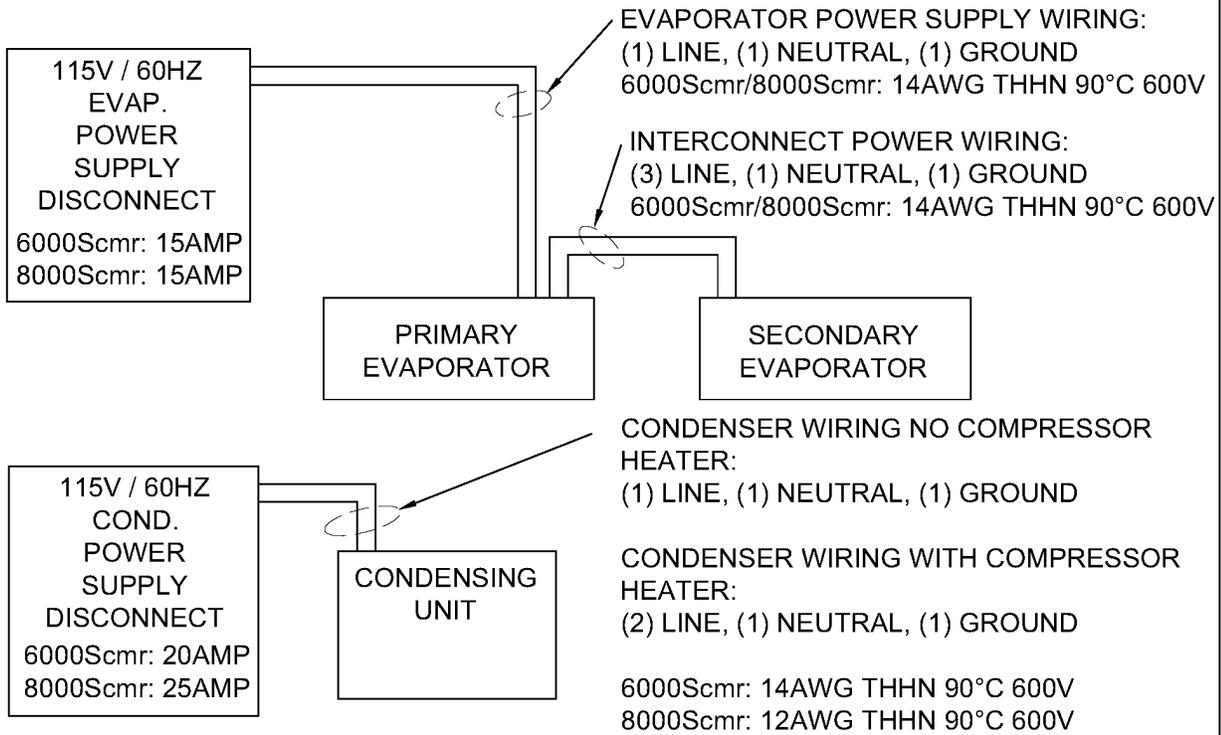
### **Secondary Evaporator Field Interconnect Wiring from Primary Evaporator:**

- Interconnect power leads to terminals "18", "20", "22", and "26"
- Interconnect 18/2 thermostat wiring to terminals "8" and "9"
- Connect power ground to grounding lug on Secondary Evaporator

### **Condensing Unit Field Power Wiring:**

- Connect line lead to Condensing unit terminal "L1"
- Connect neutral lead to Condensing unit terminal "L2"
- Connect power ground to grounding lug on Condensing unit.

## 6000-8000Scmr SPLIT SYSTEM VALVE CONTROL POWER WIRING



**NOTES:**

1. FOLLOW ALL LOCAL AND NATIONAL CODES
2. USE A DEDICATED NON-GFI CIRCUIT BREAKER
3. THIS LABEL CAN BE REMOVED

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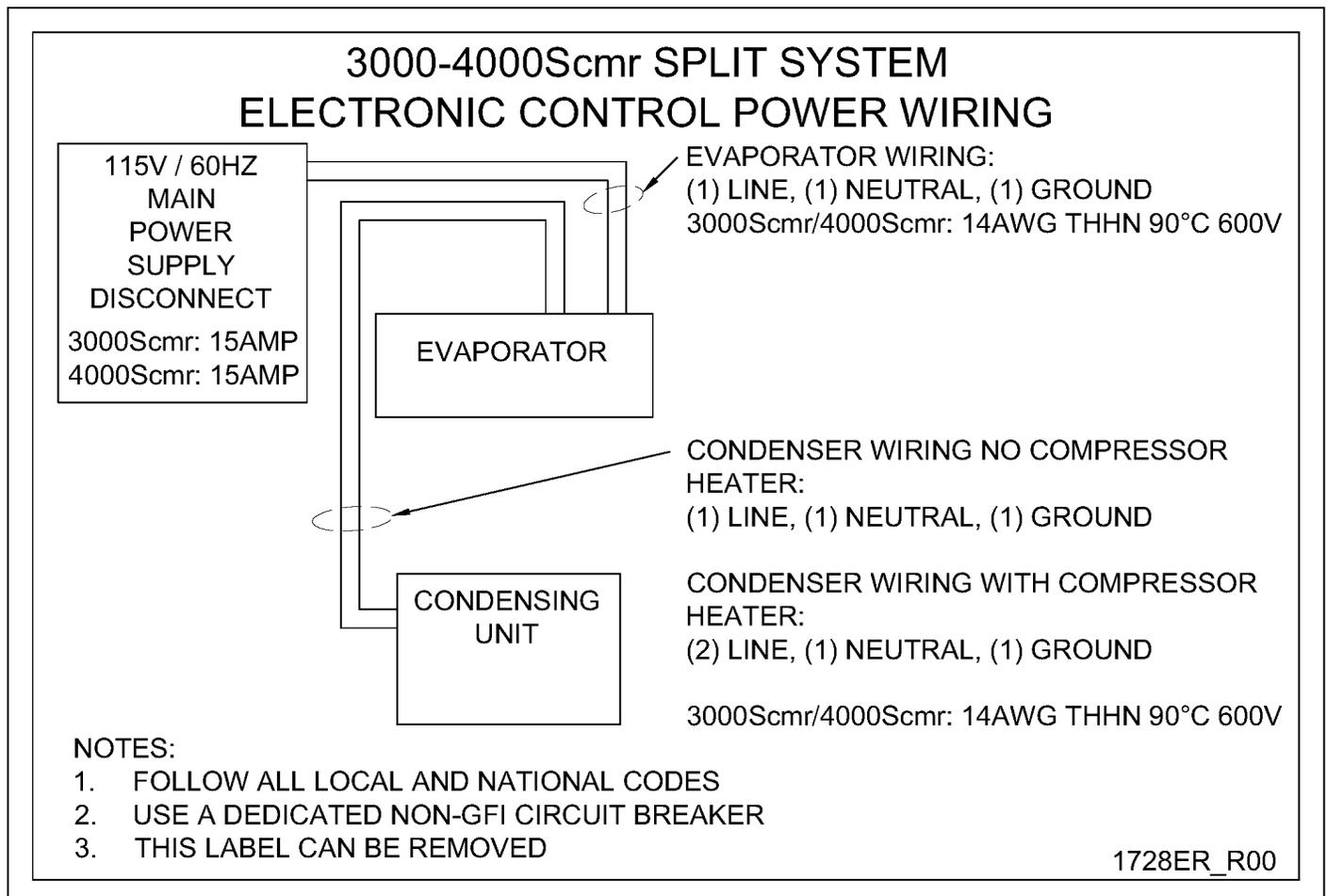
## 3000/4000Scmr System Wiring – Option B: Single Power / Electronic Control

Under this configuration, only the Evaporator is powered by the Field Power Wiring, as follows:

- Connect line lead to Evaporator terminal "L"
- Connect neutral lead to Evaporator terminal "N"
- Connect power ground to grounding lug on Evaporator

The Condensing Unit is powered by connecting it to the Evaporator, is follows:

- "3" on the Evaporator to "L1" on the Condensing unit
- "5" on the Evaporator to "L2" on the Condensing unit
- Ground lug on the Evaporator to the grounding stud on the Condensing unit.
- With optional crankcase heater: Run a separate lead connecting "L" on Evaporator to "C" on Condensing Unit.



## 6000/8000Scmr System Wiring – Option B: Single Power / Electronic Control

Under this configuration, only the Primary Evaporator is powered by the Field Power Wiring, as follows:

- Connect line lead to Primary Evaporator terminal "L"
- Connect neutral lead to Primary Evaporator terminal "N"
- Connect power ground to grounding lug on Primary Evaporator

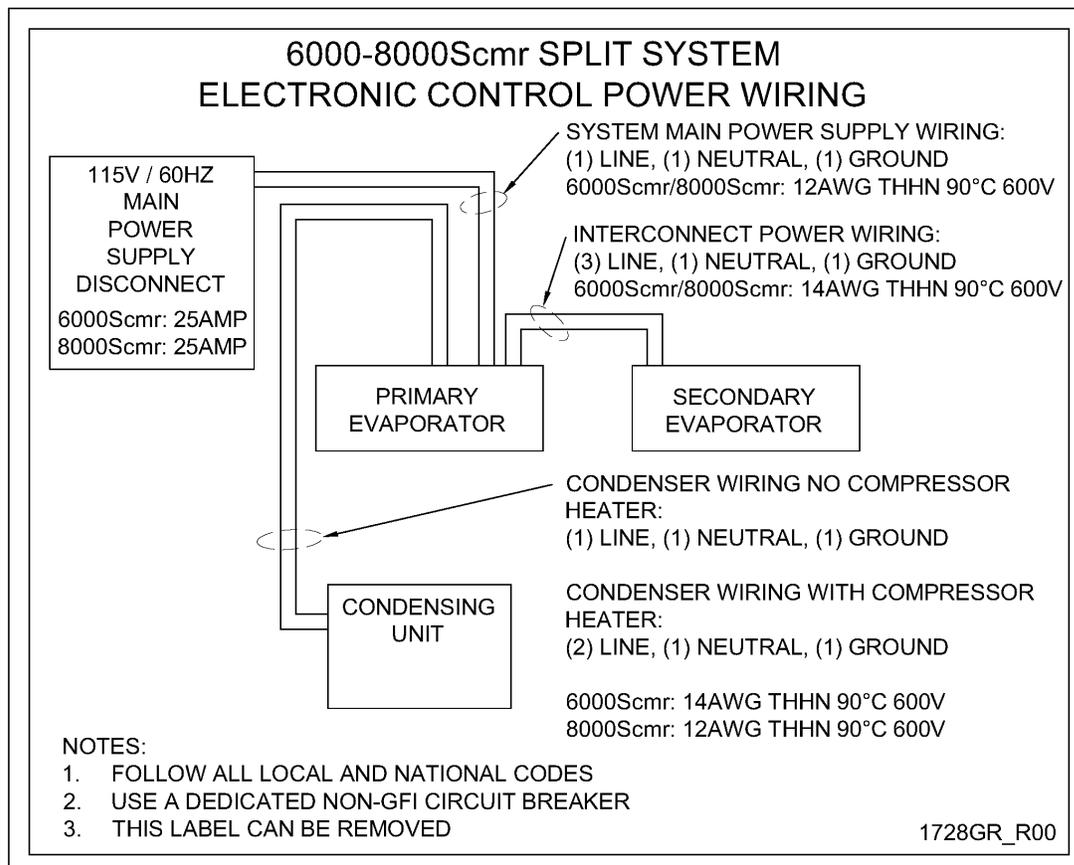
The Secondary Evaporator and Condensing Unit are powered by connecting from the Primary Evaporator as follows:

Secondary Evaporator Field Interconnect Wiring from Primary Evaporator:

- Interconnect power leads to terminals "18", "20", "22", and "26"
- Interconnect 18/2 thermostat wiring to terminals "8" and "9"
- Connect power ground to grounding lug on Secondary Evaporator

Condensing Unit Interconnect Wiring from Primary Evaporator:

- "3" on the Primary Evaporator to "L1" on the Condensing unit
- "5" on the Primary Evaporator to "L2" on the Condensing unit
- Ground lug on the Primary Evaporator to the grounding stud on the Condensing unit.
- With optional crankcase heater: Run a separate lead connecting "L" on Evaporator to "C" on Condensing Unit.



Please refer to the wiring diagram for your configuration in the table below. Note the difference between 1. Your model, 2. Your choice of wiring configuration and 3. Your choice of Controller/Thermostat.

System Wiring Configuration	3000Scmr	4000Scmr	6000Scmr	8000Scmr
<b>Remote Controller – Evaporator Wiring Diagram</b>				
Dual Power / Valve Control	Appendix A 2483A_R00	Appendix A 2483A_R00	Appendix B 2483B_R00	Appendix B 2483B_R00
Single Power / Electronic Control	Appendix C 2483C_R00	Appendix C 2483C_R00	Appendix D 2483D_R00	Appendix D 2483D_R00
<b>Networkable Thermostat – Evaporator Wiring Diagram</b>				
Dual Power / Valve Control	Appendix E 2483E_R00	Appendix E 2483E_R00	Appendix F 2483F_R00	Appendix F 2483F_R00
Single Power / Electronic Control	Appendix G 2483G_R00	Appendix G 2483G_R00	Appendix H 2483H_R00	Appendix H 2483H_R00
<b>Remote or Networkable Thermostat – Condensing Unit Wiring Diagram</b>				
Dual Power / Valve Control	Appendix I 2483I_R00	Appendix I 2483I_R00	Appendix I 2483I_R00	Appendix I 2483I_R00
Single Power / Electronic Control	Appendix J 2483J_R00	Appendix J 2483J_R00	Appendix J 2483J_R00	Appendix J 2483J_R00

### **Important Wiring Notes**

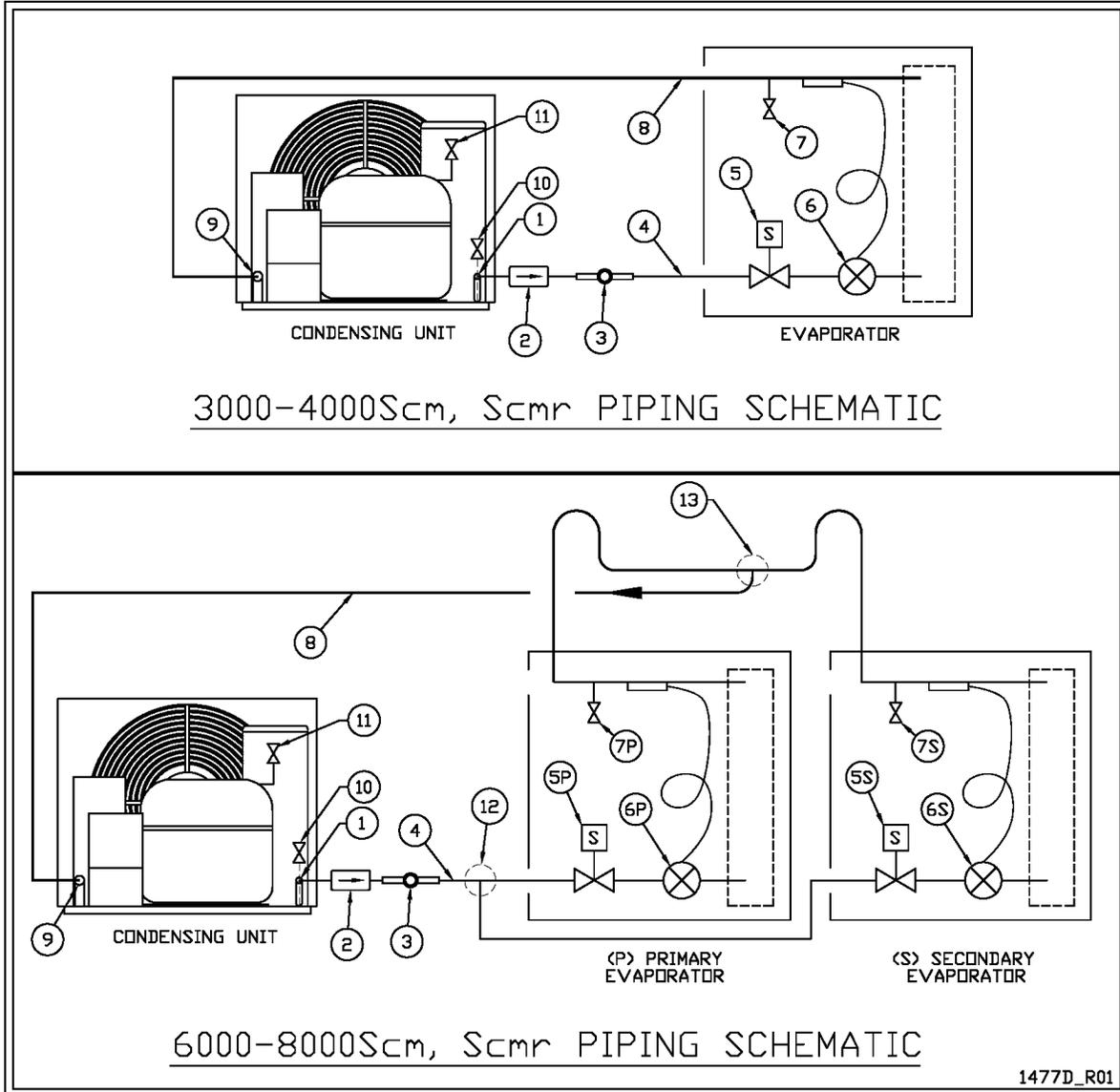
If your system is equipped with a compressor heater, **make sure it is wired to be energized even when the system is idle.**

If the system has been sitting idle without the compressor heater energized for more than 24 hours, or if starting up the system in a cold ambient, **it is critical to warm the bottom shell of the compressor above the ambient temperature for 30 minutes before running the system** to drive excess refrigerant out of the compressor oil.

For units configured with a single power source / electronic control, the compressor heater requires a dedicated line power wire from the evaporator to the compressor heater. If the power line does not exist, the compressor heater will need to be wired to an external constant power supply.

## Installing Refrigeration Lines

The Evaporator(s) and Condensing Unit should be piped according to the following piping schematic:



### Piping Legend

1. Liquid connection location.
2. Hermetic liquid line filter drier (shipped loose). Install with directional flow arrow as shown.
3. Liquid line sight glass with moisture indicator (shipped loose).

4. Liquid line refrigeration piping in accordance with Line Sizing Chart in Owner's Manual.
5. Factory installed liquid line solenoid valve (normally closed). 6000-8000Scmr have two solenoid valves, 5S and 5P. (Dual Power/Valve Control configurations only).
6. Factory installed thermostatic expansion valve. 6000-8000Scmr have two expansion valves, 6S and 6P.
7. Factory installed ¼" evaporator suction access valve. 6000-8000Scmr have two access valves, 7S and 7P.
8. Insulated suction line refrigeration piping (refer to Line Sizing Chart in Owner's Manual).
9. Suction connection location.
10. Condensing unit ¼" liquid access valve. The position of the access valve varies by model, trace the liquid line back from the connection through the receiver to the condenser coil bottom outlet to locate the valve.
11. Condensing unit ¼" suction access valve located off a tee on the compressor shell process tube.
12. Field provided dual evaporator liquid line tee. Required on 6000-8000Scmr only.
13. Field provided dual evaporator suction line tee. Required on 6000-8000Scmr only.

### Line Sizing Chart

Refer to the Line Sizing Chart below for selecting the appropriate tubing size for the length of the piping run. Note that the recommended line size may not match the connection ports on the Condensing unit and the Evaporator. Refrigeration grade fittings must be supplied by the installing technician to make the necessary transitions. **Transitions should be made as close to the unit as possible.** Suction line routing must be designed to ensure oil return to the Condensing unit and prevent refrigerant migration in the off cycle. To route the piping out of the evaporator to connect to the line set, it is acceptable to use ¼" tubing on the liquid line and 3/8" on the suction line. Transition as near as possible to match the line set size once the lines leave the evaporator. On the dual evaporator models 6000Scmr and 8000Scmr, the lines may be reduced at the liquid tee and suction tee. Locate these tees as close as possible to the dual evaporators.

## Split System Line Sizing Chart

Model	Liquid Line Size ("ODS) Up to 100 feet	Minimum Suction Line Insulation Thickness (in)	Suction Line Size by Length ("ODS)		
			Up to 25 feet	Over 25 feet up to 50 feet	Over 50 feet up to 100 feet
3000S/Sh/Scm/Scmr	1/4	1/2	1/2	1/2	1/2
4000S/Sh/Scm/Scmr	3/8	1/2	1/2	1/2	1/2
6000S/Scm/Scmr	3/8	1/2	1/2	5/8	5/8
8000S/Scm/Scmr	3/8	5/8	5/8	5/8	7/8

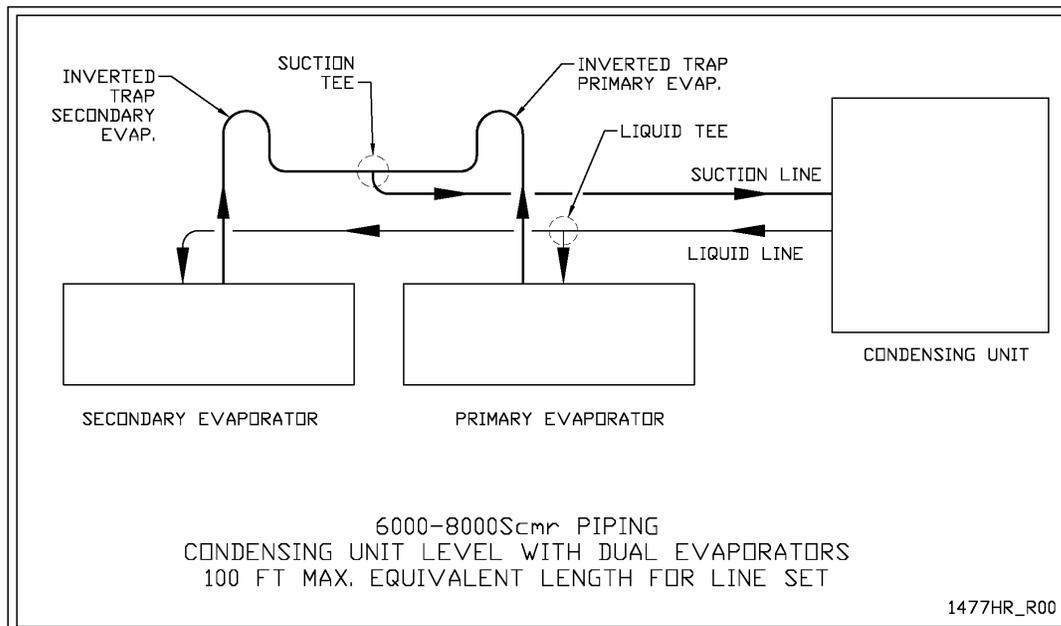
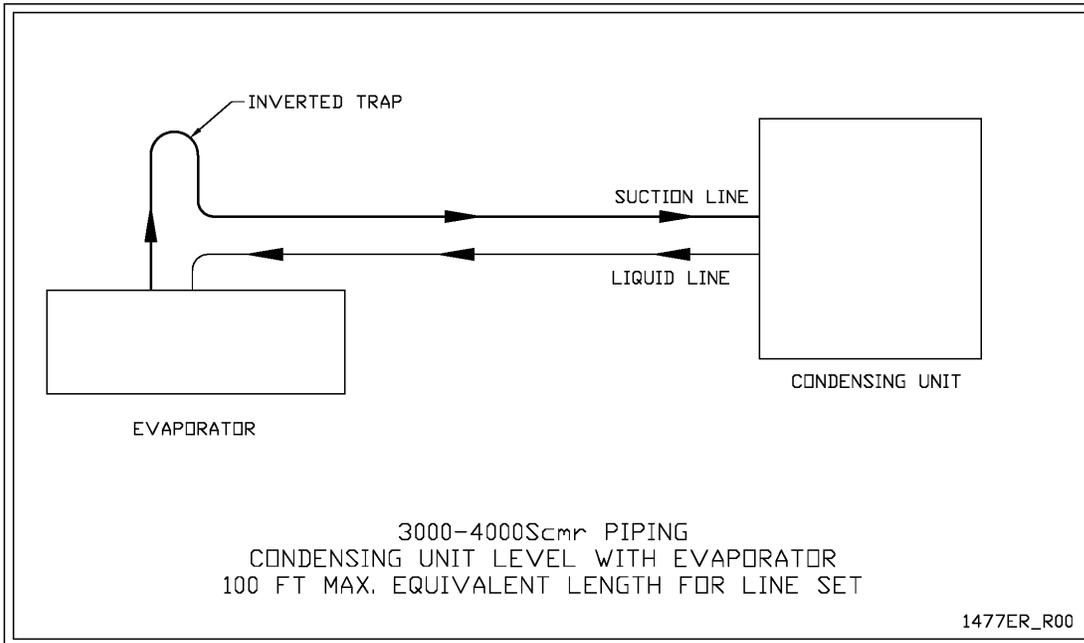
Notes:

- 1) Line lengths are expressed in equivalent feet = actual run length + fitting allowances.
- 2) Chart includes allowances for Fittings, Filter Drier, and Sight Glass.
- 3) Use only dehydrated refrigeration service tubing and refrigeration grade fittings.
- 4) Install refrigeration piping in accordance with local codes and ASHRAE guidelines.

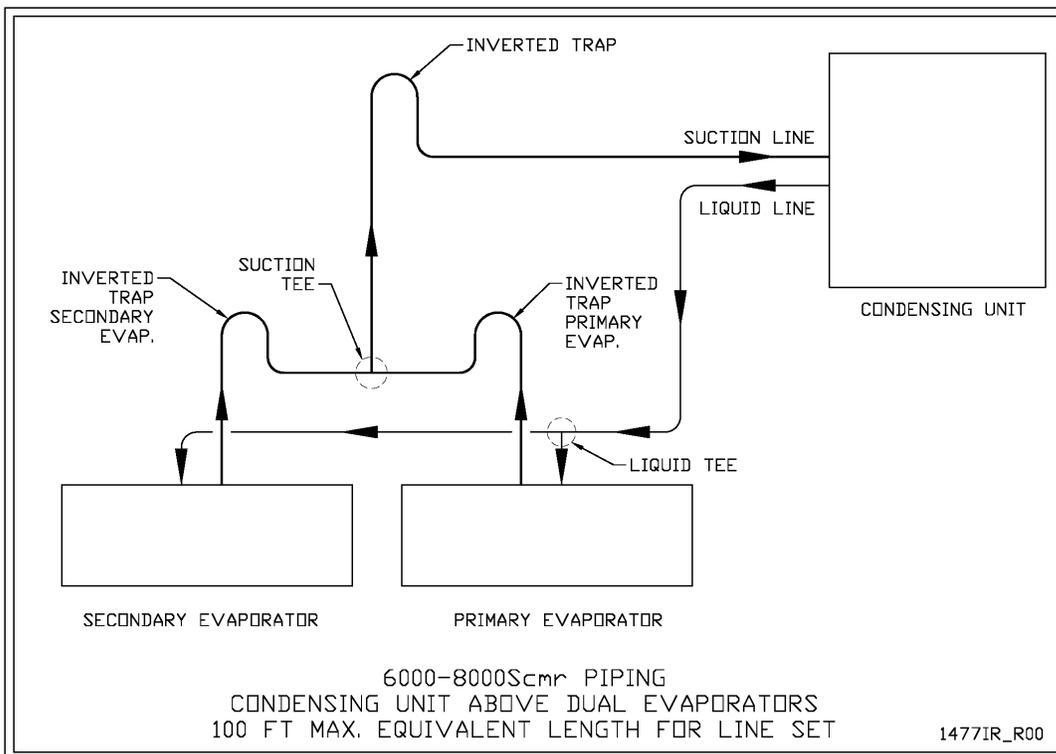
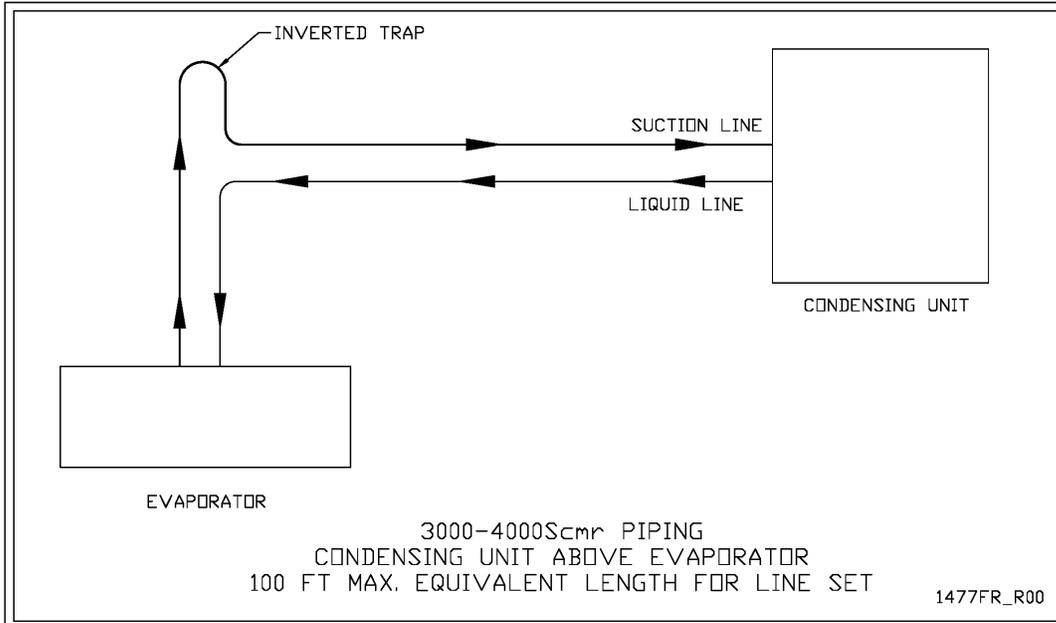
### Vertical Piping Guidelines

Piping runs should be kept as short and compact as possible. Low-lying areas (oil “traps”) where oil can accumulate should be avoided. Refer to the following guidelines with regards to the vertical placement of the evaporator and condensing units:

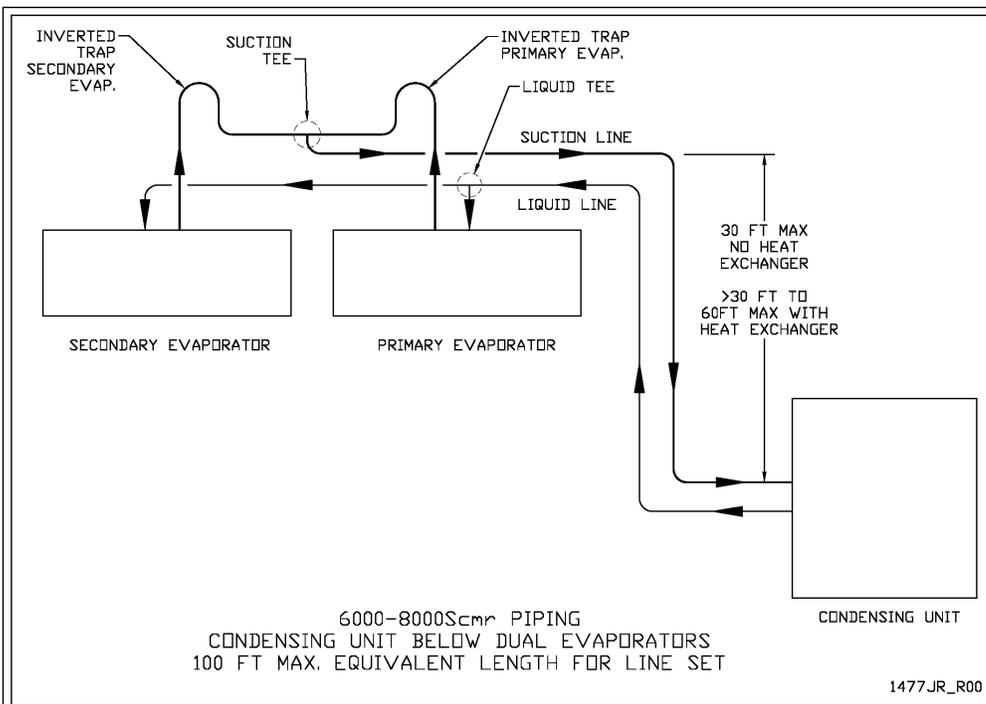
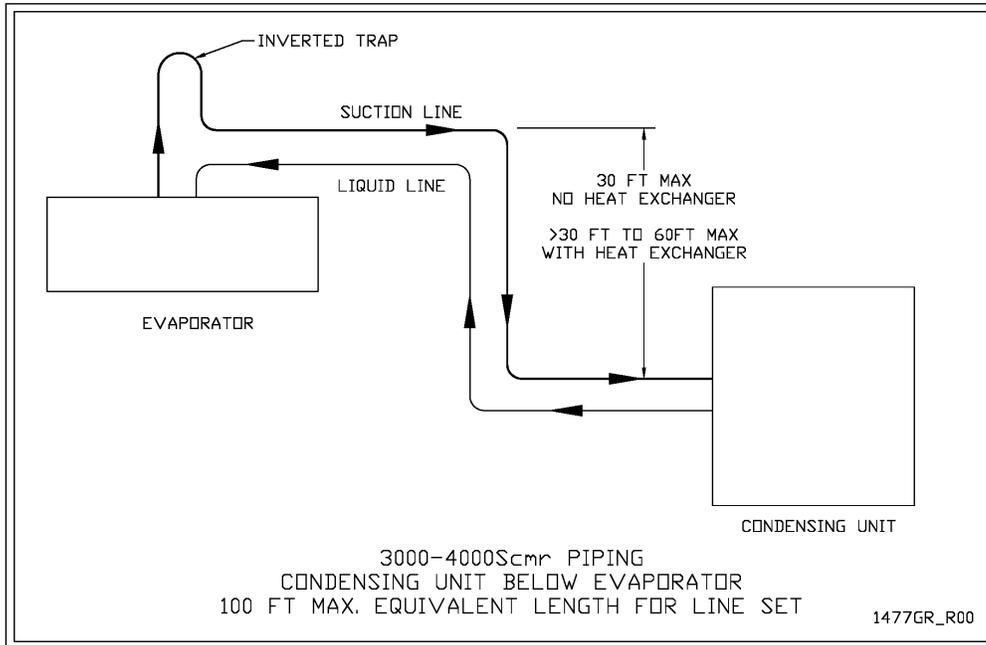
1. **When the evaporator and condensing unit are located on the same level:** For single evaporator systems, pipe the suction line with an inverted trap as shown to prevent liquid migration to the compressor during the off cycle. For dual evaporator system, install inverted suction traps on each evaporator to prevent liquid migration between evaporators while running, and to prevent liquid migration to the compressor during the off cycle. Pitch the suction line **slightly downward** to the condensing unit:



2. **When the evaporator is located below the condensing unit:** For single evaporator systems, pipe the suction line with an inverted trap as shown to prevent liquid migration to the compressor during the off cycle. For dual evaporator system, install inverted suction traps on each evaporator to prevent liquid migration between evaporators while running, and install an inverted trap on the common suction riser to prevent liquid migration to the compressor during the off cycle. Pitch the suction line **slightly downward** to the condensing unit:



3. **When the evaporator is located above the condensing unit:** For single evaporator systems, pipe the suction line with an inverted trap as shown to prevent liquid migration to the compressor during the off cycle. For dual evaporator system, install inverted suction traps on each evaporator to prevent liquid migration between evaporators while running, and to prevent liquid migration to the compressor during the off cycle. Pitch the suction line **slightly downward** to the condensing unit. The vertical lift of the liquid line is limited to 30 feet. The lift may be increased to 60 feet if an optional liquid/suction Heat Exchanger is added to the field piping.



## Evacuation, Leak Detection, and Charging

Important note: The condensing unit and evaporator(s) are shipped with a nitrogen holding charge. Please verify positive pressure through the access valve prior to installation. If you cannot verify the holding charge, please contact CellarPro at 707.794.8000.

Once the piping is installed, the following steps should be performed to ensure a dry and leak-free system:

1. The Condensing unit is pre-charged with compressor oil. To avoid moisture contamination of the oil, do not leave the system open to atmosphere for more than 15 minutes.
2. Dual Power Source / Valve Control Systems Only: Supply power to the Evaporator only - DO NOT connect power to the Condensing unit. Turn on the temperature controller, which will energize and open the liquid line solenoid valve(s). Verify the solenoid is powered as indicated by the compressor icon ("snowflake") on the temperature controller display.
3. Pressurize the system to a maximum of 150PSIG of dry nitrogen. It is important to add nitrogen through both the high and low side access valves on the condensing unit to make sure the system is fully pressurized. Mark the pressure and hold for a minimum of 1 hour. If the pressure holds, proceed to the next step, otherwise locate and repair the leak and repeat this step.
4. **Evacuate the system to a minimum of 500 microns.** It is important to pull a vacuum through both the high and low side access valves on the condensing unit to make sure the system is fully evacuated. If the vacuum is achieved, proceed to the next step, otherwise locate and repair the leak and repeat from step 4.
5. Disconnect the vacuum pump, but **leave the system under vacuum.** Use a charging scale to accurately weigh in the refrigerant. Charge liquid R-134a refrigerant through the **liquid service valve** according to the charge pounds indicated in the "System R-134a Charge Guidelines" chart below. Additional refrigerant may need to be added, using the steps outlined below. **DO NOT USE REFRIGERANT WITH ADDITIVES.**
6. **Important: The most common causes of compressor failure are refrigerant overcharge, adding liquid refrigerant through the suction access valve, and cold compressor starts.** If your system is equipped with a compressor heater, make sure this is wired to be energized even when the system is idle. If starting up the system in a cold ambient, or if the system has been sitting idle without the compressor heater energized for more than 24 hours, it is critical to warm the bottom shell of the compressor above the ambient temperature for 30 minutes to drive excess refrigerant out of the compressor oil.

7. Connect power to the Evaporator and Condensing unit, and activate the system. **IMPORTANT: If the system does not power up after the start up delay (factory preset is 3 minutes; recommended to be changed to 30 minutes after installation per instructions below), verify field wiring according to the appropriate wiring diagram. If correct, disconnect power from the system and contact Cellarpro at 707.794.8000**

Measure pressures and temperatures to verify the system is within normal operating limits as indicated on the Split System Data Sheet. A loose copy of the Data Sheet is provided with the unit, and an additional copy is included at the end of this manual. The condensing pressure must be above 105 PSIG when taking these measurements. In a low ambient environment, it may be necessary to temporarily block off the condenser air intake to force the condensing pressure higher. Do not run the system if the suction superheat at the condensing unit is below 20°F.

8. It may be necessary to slightly adjust the charge amount after weighing in the recommended initial charge. 1) Not enough refrigerant: If the Evaporator is not providing enough cooling, the system may be undercharged. If liquid subcooling is below 10°F and the suction superheat is well above the minimum of 20°F, slowly add vapor refrigerant through the suction service valve until the subcooling is within specifications. 2) Too much refrigerant: If the suction superheat is below 20°F, remove refrigerant until the superheat is above this minimum limit.
9. (Optional) It should not be necessary to manually adjust the thermostatic expansion valve superheat from the factory default setting. However if desired, the superheat may be adjusted as follows: 1) Remove the cork tape insulation from the expansion valve body to locate the cap on the superheat stem, and unscrew the cap using a 5/32 in. Allen wrench. 2) Using a 5/32 in. Allen wrench, locate the setting spindle inside the superheat stem and make superheat adjustments ¼ turn at a time (¼ turn≈1°F). Turning clockwise increases superheat. Turning counter-clockwise decreases superheat. The target superheat at the evaporator is 10°F +/- 2°F. 3) Reinstall the cap and cork tape insulation.
10. Confirm that the compressor, condenser fan, and evaporator fan(s) are energized. Allow the system to balance for 30 minutes, then record all readings on the Data Sheet and submit to CellarPro for warranty activation review.
11. Observe that the condensing unit turns on when the “snowflake” icon on the temperature display is lit solid (not blinking), and turns off when the “snowflake” icon turns off. It may be necessary to temporarily raise the set point to force the unit to cycle off. If the condensing unit does not cycle on/off in conjunction with the “snowflake” icon, please contact the factory for assistance.
12. Once the system is confirmed to be running properly, enter the following programming change so that the startup delay increases from 3 to 30 minutes:
  - a. On the control panel, press and hold the "SET" and "DOWN ARROW" buttons AT THE SAME TIME for 3 seconds (the display will briefly flash).
  - b. Release when the display starts blinking.

- c. Quickly repeat the same process – ie press and hold the "SET" and "DOWN ARROW" buttons AT THE SAME TIME, this time for 7 seconds ("Pr2" will briefly flash on the display).
- d. Using the "UP ARROW" or "DOWN ARROW" button, scroll through the parameters until "odS" is displayed.
- e. Press "SET" and change the setting to 30.
- f. Press "SET" to accept the change

### **Installation Tips and Guidelines**

- Make sure all electrical connections are secure.
- Inspect Evaporator and Condensing unit fans to confirm airflow. There shouldn't be any excessive vibration, noise or obstructions to airflow.
- Observe system pressures and temperatures during charging and initial operation and keep note of them as they will be required for the Service and Support Data Sheet which initiates the warranty.
- Do not overcharge or use refrigerant with additives.
- Remember that bubbles in a sight glass may be caused by a restriction as well as a shortage of refrigerant. A properly charged system may still have small bubbles visible in the sight glass, so use actual superheat and subcooling readings to charge the system.
- Do not leave unit unattended until the system has reached normal operating conditions, and the system has been observed properly cycling on/off to the desired set point and differential.
- Make sure all access valve caps are in place and tight.
- If your system is equipped with a compressor heater, make sure this is wired to be energized even when the system is idle.
- If the system has been sitting idle without the compressor heater energized for more than 24 hours, or starting up the system in a cold ambient, it is critical to warm the bottom shell of the compressor above the ambient temperature for 30 minutes before running the system to drive excess refrigerant out of the compressor oil.

## System R-134a Charge Guidelines

<b>System R-134a Charge Guidelines</b>				
<b>Actual Line Length</b>	<b>System Charge (lbs) by Split System Model</b>			
<b>(ft)</b>	<b>3000Scmr</b>	<b>4000Scmr</b>	<b>6000Scmr</b>	<b>8000Scmr</b>
5	0.85	1.00	1.63	2.03
10	0.93	1.20	1.83	2.24
15	1.01	1.40	2.04	2.46
20	1.09	1.60	2.24	2.67
25	1.17	1.80	2.44	2.89
30	1.24	2.00	2.65	3.10
35	1.32	2.20	2.85	3.31
40	1.40	2.40	3.06	3.53
45	1.48	2.60	3.26	3.74
50	1.56	2.80	3.46	3.96
55	1.64	3.00	3.67	4.17
60	1.72	3.20	3.87	4.39
65	1.79	3.40	4.07	4.60
70	1.87	3.60	4.28	4.81
75	1.95	3.80	4.48	5.03
80	2.03	4.00	4.69	5.24
85	2.11	4.20	4.89	5.46
90	2.19	4.40	5.09	5.67

**Note:**

- 1) Actual charge may vary - follow charging instructions as detailed in Owners Manual.
- 2) Lines sized according to Line Sizing Chart assuming actual line length plus 10 equivalent feet for fittings losses.

## Summary

Keep in mind the following guidelines before purchasing a wine cooling unit from CellarPro:

- If the cellar is too large for the cooling unit, the cooling unit will be unable to maintain proper, even temperatures inside the cellar.
- Without proper insulation and an airtight environment, the cooling unit effectively will become a de-humidifier and potentially will produce buckets of water.
- Without access to cool air, either because of improper ventilation or because the environments is too hot, the cooling unit will be unable to maintain proper temperatures inside the cellar.
- When the cooling unit will be exposed to temperatures below 40°F, a compressor heater must be added to protect the compressor.

Under any of the above conditions, the unit's internal components may become damaged, the expected useful life of the wine cooling unit may be adversely affected, and the product's warranty may become null and void.

## IV. Operating Instructions

### Overview

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.

### Temperature Control

CellarPro cooling units are designed to turn “on” when the air temperature passing over the evaporator coils inside the cellar exceeds the **Minimum Set Point** plus the **Temperature Differential**, and turn “off” when the temperature drops 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 when the temperature rises above 62°F inside the cellar, and it will turn off when the temperature falls below 58°F. In this example, the average temperature inside the cellar will be 60°F.

### Basic Operation

The cooling system is programmed with a startup delay to protect its internal components. From the factory, the startup delay is 3 minutes. Upon installation, we provide instructions for the installer to change the delay to 30 minutes.

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.

### **1. Fan Speed Selector Switch (Low/Med/High)**

The cooling unit fan operates on 3 speed settings: Low, Medium, and High. For optimum sound and energy efficiency, select the lowest fan speed that will maintain the desired cellar temperature. High speed is recommended for initial cellar pull down and **extreme** temperature conditions.

### **2. Bottle Probe Jack (Bottle Probe)**

Plug in the remote bottle probe (sold separately) to control the cellar by liquid temperature rather than air temperature inside the cellar. Disconnecting the probe will automatically return the control to air temperature. When using a bottle probe in liquid, the **Temperature Differential** will need to be adjusted to 1 as shown in the “Advanced Operation” instructions below.

The probe jack is located inside the evaporator near the main power connection terminal. On dual evaporator 6000Scmr and 8000Scmr systems, the bottle probe is plugged into the Primary Evaporator only. Route the bottle probe lead wire out of the appropriate location as indicated on the Knockout Detail drawing.

## Remote Control / Display Instructions



### Digital Display

The temperature is displayed on the control in red. Press "Power On/Off" to turn 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.

The cooling system is programmed with a Startup Delay to protect its internal components. Upon installation, we provide instructions for the installer to change the delay to 30 minutes.

### Quick Chill Button

 Button

 Icon

To activate the "Quick Chill" mode, press the "Up" button for 3 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 2 hours, time initiated, temperature terminated. 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 defrost cycle, temperature terminated or 20 minutes maximum.

**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 range for this setting is 0-6.

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

This setting determines the Temperature Differential and therefore the temperature at which the cooling unit will cycle on. The recommended range for this setting is 4 or 5.

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**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.

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**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.

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

This setting controls the Temperature Differential for the Energy Savings Mode. The recommended range for this setting is 2-4.

## V. Troubleshooting

**Improper installation, inadequate insulation, or a cellar that is too large will cause the cooling unit to run continuously and be difficult to troubleshoot.**

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 above 62°F and turn off below 58°F. In this example, the average temperature inside the cellar will be 60°F.

### **Cooling Unit Runs Constantly**

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.

Hot weather conditions, insufficient ventilation and/or dirty condenser coil may cause the cooling unit to run continuously. To reduce cycle times,

1. Remove any obstructions to air flow to or from the unit
2. Check to make sure the condenser coil is clean
3. Increase the supply of cool air to the space outside the condenser coils, using a fan, ducting or an exhaust system to remove heat from the space.
4. Raise the Minimum Set Point on the cooling unit

### **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 and is removed by the internal condensate pump. 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, do the following:

1. Ensure the condensate pump drain line is not blocked.
2. Check that the cellar has airtight seals, including the door(s), light fixtures, and all walls, ceiling and floor.
3. Raise the Minimum Set Point of the cooling unit.

### **The Cooling Unit Won't Turn On**

The cooling system is programmed with a factory preset 3-Minute Delay at startup to protect its internal components. Upon installation, we provide instructions for the installer to change the delay to 30 minutes.

## Other Troubleshooting Issues

Issue	Possible Causes	Potential Solutions
<p>No cooling: no refrigerant flow.</p> <p>If the "snowflake" icon is illuminated on the temperature display control, the compressor should be running.</p>	<p>Electronic Control: No power to evaporator Valve control: no power to liquid solenoid valve coil</p>	<p>Power supply to Evaporator interrupted. Restore power.</p> <p>(Valve control only) Power supply to solenoid coil interrupted: loose wire. Inspect for loose fan wiring and reconnect.</p>
	<p>Solenoid coil failure (Valve control option only)</p>	<p>When the Evaporator is powered on and off, a distinct "click" should be heard indicating the opening/closing of the solenoid valve. If not, the solenoid coil may need to be replaced. Consult factory.</p>
	<p>No power to compressor</p>	<p>Power supply to Condensing Unit interrupted. Restore power.</p>
		<p>Check for loose wires and reconnect.</p>
		<p>Low pressure switch is open: On Valve control systems, make sure solenoid is energized. Jumper out switch to check for a faulty switch, and replace if necessary. Note that in installations below 0°F this switch may remain open. Consult factory.</p>
		<p>High pressure switch is open: refer to the "High Pressure Safety Shutdown" section.</p>
	<p>High pressure safety shutdown / high discharge pressure</p>	<p>Locate and correct source of high condensing head pressure:</p>
		<p>Refrigeration line blockage</p>
		<p>Condenser fan not operating in ambient temperatures above 90°F. Ensure that there is power to the Condensing Unit and verify the fan cycling control settings. Replace condenser fan and fan cycling control if necessary.</p>
		<p>Insufficient ventilation: reference Condensing Unit installation guidelines for proper placement and ambient temperature requirements. Correct to ensure adequate air ventilation to and from the Condensing Unit.</p> <p>Improper refrigerant charge: inspect for over-charged system or non-condensables in system.</p>

<p><b>Issues</b></p> <p>(Cont.) No cooling: no refrigerant flow.</p> <p>If the "snowflake" icon is illuminated on the temperature display control, the compressor should be running.</p>		
	<p><b>Possible Causes</b></p> <p>(Cont.) High pressure safety shutdown / high discharge pressure</p>	<p><b>Potential Solutions</b></p> <p>Dirty or obstructed condenser coil: clean and remove all obstructions to airflow.</p>
	<p>Intermittent power to compressor</p>	<p>Check for loose wires and secure.</p> <p>Compressor cycling on internal thermal overload protection. Replace start capacitor/relay assembly</p> <p>Compressor cycling on high pressure - see "High pressure safety shutdown" section.</p> <p>Faulty compressor. Consult factory.</p>
<p>No cooling: Evaporator fan not blowing.</p> <p>If the "fan" icon is illuminated on the temperature display control, the fan should be blowing air.</p>	<p>No power to fan(s)</p>	<p>Power supply to Evaporator interrupted. Restore power.</p> <p>Power supply to fan interrupted: loose wire. Inspect for loose fan wiring and reconnect.</p> <p>Fan capacitor: check for loose wires or out of spec capacitance. Reconnect loose wires or replace capacitor(s).</p>
	<p>Fan obstructed</p>	<p>With power to unit disconnected, check the rotation of the blower fan. If fan does not spin freely, inspect for and remove obstructions. If no obstructions are found, the fan may need to be replaced. Consult factory.</p>
	<p>Fan running but not drawing air through coil.</p>	<p>Fan short cycling: Make sure all housing panels are attached to the unit. Replace missing panels.</p> <p>Coil is blocked with ice. Refer to the "Iced coil" section.</p>
<p>Iced coil</p>	<p>Temperature displayed is higher than actual cellar temperature</p>	<p>If using a bottle probe, check placement and compare to actual cellar temp. Relocate probe if necessary to better correlate to actual cellar temperature.</p> <p>Probe fault: check for loose connections if splices were added in the field.</p>

		Moisture in bottle probe jack: Can cause high readings, consult factory for solution.
<b>Issues</b>	<b>Possible Causes</b>	<b>Possible Solutions</b>
(Cont.) Iced Coil	Low refrigerant charge	System charged incorrectly. Review process and correct.
		Leak in system. Find and repair leak, recharge system.
	Mal-functioning thermostatic expansion valve.	Incorrect superheat setting: determine superheat and adjust. If expansion valve is faulty, replace.
		Expansion valve bulb not located correctly - review installation instructions and correct.
		Liquid flashing at the expansion valve inlet. See "High liquid line pressure drop" section.
	Condensing unit never shuts off	System is wired incorrectly. Locate correct wiring diagram for "Electronic" or "Valve" controlled system, trace wiring and correct.
If a "Valve" control system, the low pressure switch may have failed closed. Check switch and replace if necessary.		
No airflow	See "Evaporator fan not blowing" section	
Insufficient liquid sub-cooling	Low refrigerant charge	System charged incorrectly. Review process and correct.
		Leak in system. Find and repair leak, recharge system.
	High liquid line pressure drop	Check for plugged filter drier and replace if necessary.
		Inspect pipe routing for proper piping practices and correct.
		Liquid line picking up too much ambient heat - may need to insulate.



## Maintenance

The condenser coils on the Condensing unit will collect dust, dirt and lint over time. If the condenser coils become clogged, the cooling unit will not have proper airflow and its performance and longevity will be compromised. The condenser coils themselves also can be cleaned with a vacuum cleaner – ideally with a brush attachment to loosen dust caught between the fins.

## 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 temperature alarms (HA and LA) 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:

Alarm	What it means	What to do
P1	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 on for 12 minutes and off for 8 minutes.  Please call CellarPro at 877.726.8496 to repair or replace Probe 1
HA	The temperature inside the cellar is too warm (above 70°F for more than 1 hour)	Check if the cellar has a leak Check if door was left open Lower the ambient temperatures
LA	The temperature of the cellar is too cold (below 45°F)	Raise the Minimum Set Point to 60°F Raise the ambient temperature
CA	The condensate pump overflow level has been reached, and the cooling unit is automatically shut down.	Inspect the external condensate drain line for obstructions. If no obstructions are found, remove the evaporator cover to inspect the condensate pump. <b>WARNING:</b> the cover will be full of water, hold level while removing the cover to avoid spilling water. Inspect the condensate pump inlet and clear any debris. Verify the drain line is connected to the pump and there are no line obstructions. Inspect the pump fuse, and replace if blown. If the “CA” error persists, contact CellarPro for further assistance.

## VI. Limited Warranty

For five years from the date of original delivery, your CellarPro warranty covers the internal compressor if it proves to be defective in materials or workmanship. In addition, for two years from the date of original delivery, your CellarPro warranty covers all parts and labor to repair or replace any components in the wine cooling unit that prove to be defective in materials or workmanship. The warranty will not be activated until the Support and Data Service Sheet has been completed and submitted to CellarPro. The warranty period starts from the time of purchase, regardless of the time of activation.

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 are 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.

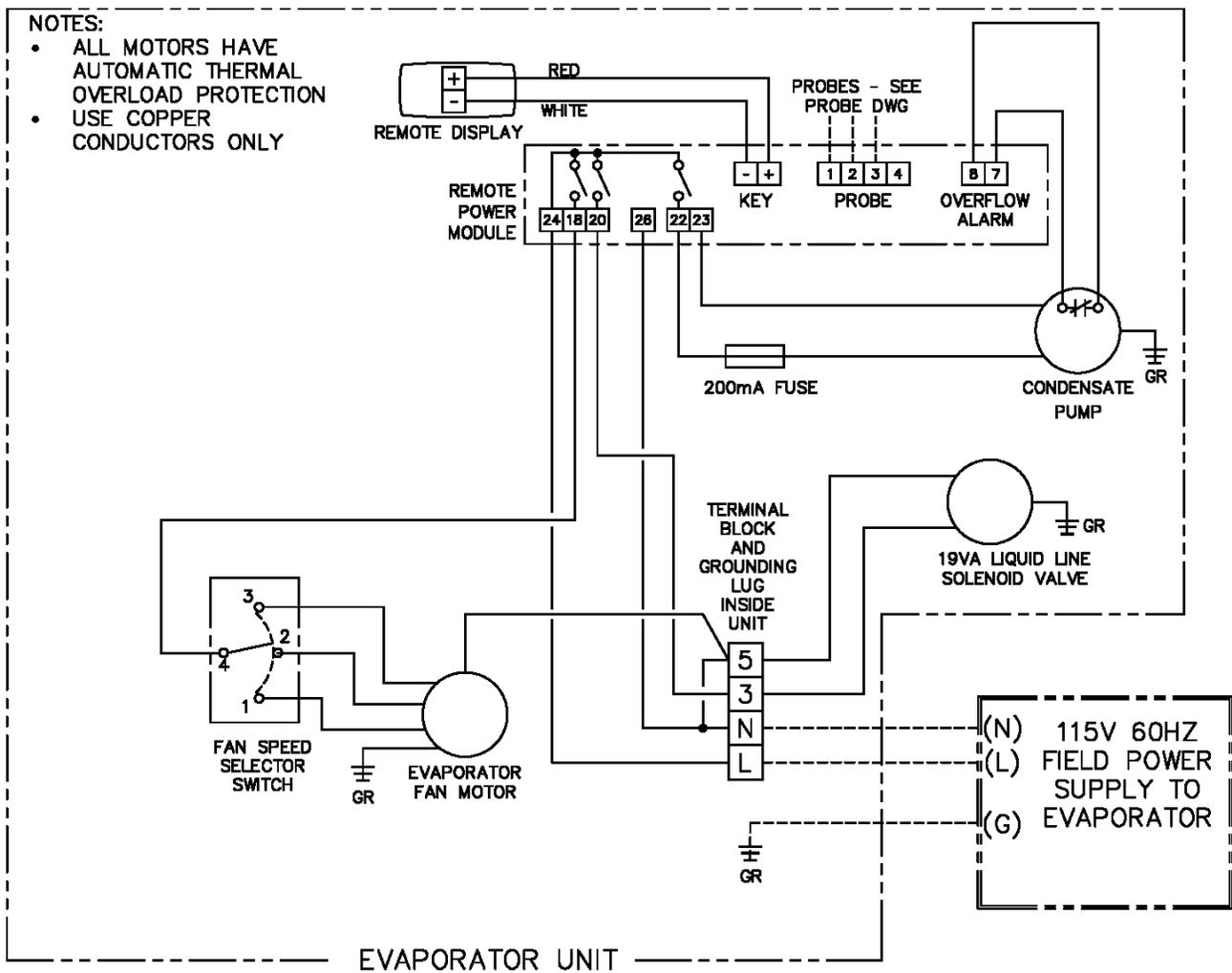
**THE REMEDIES DESCRIBED ABOVE FOR EACH WARRANTY ARE THE ONLY ONES, WHICH CELLARPRO WILL PROVIDE, EITHER UNDER THESE WARRANTIES OR UNDER ANY WARRANTY ARISING BY OPERATION OF LAW. CELLARPRO WILL NOT BE RESPONSIBLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES ARISING FROM THE BREACH OF THESE WARRANTIES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

**Evaporator Wiring Diagram - Models 3000Scmr, 4000Scmr**  
**- Dual Power / Valve Control**  
**- Remote Controller**

**Appendix A**

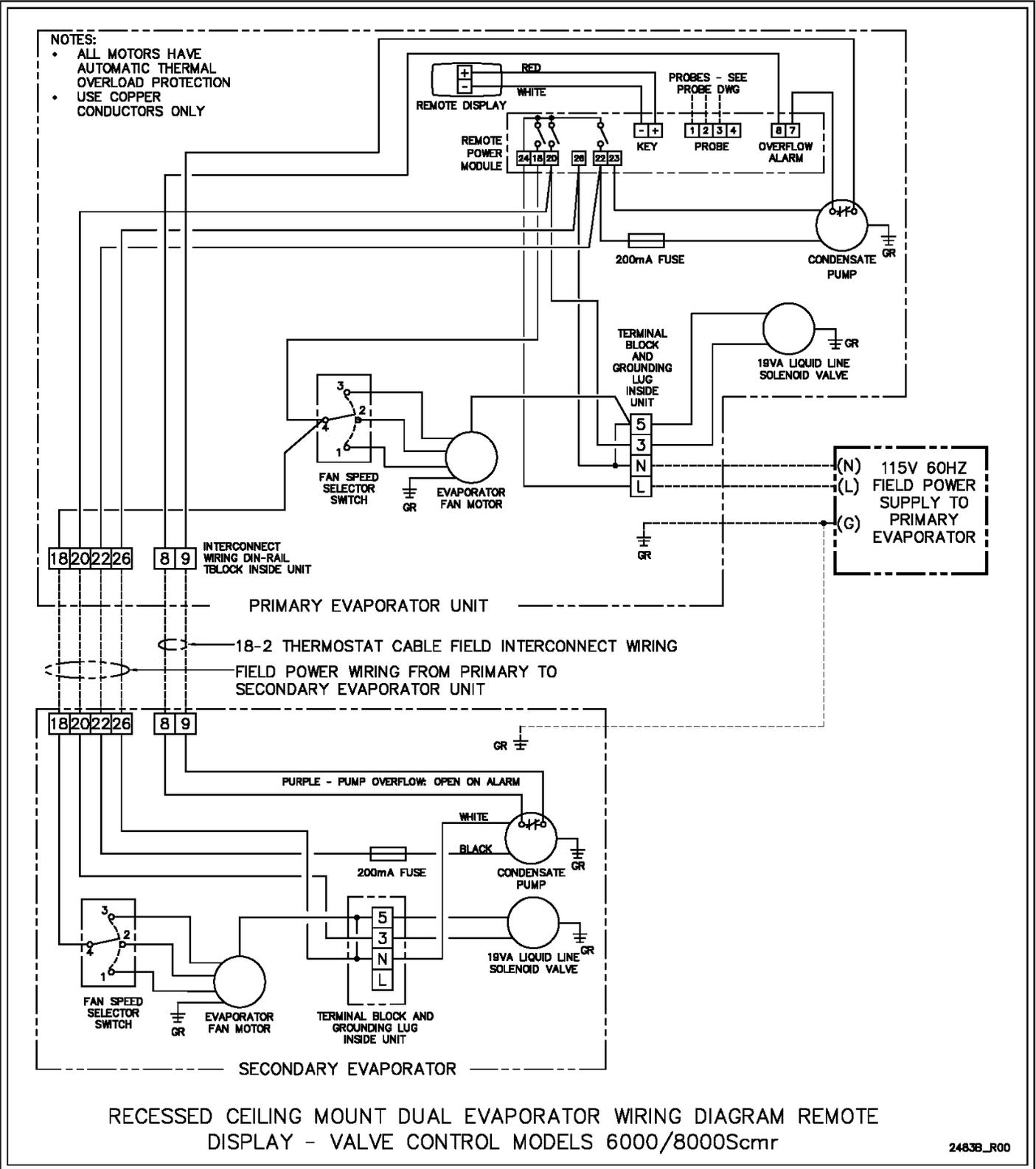


RECESSED CEILING MOUNT EVAPORATOR WIRING DIAGRAM REMOTE DISPLAY - VALVE CONTROL MODELS 3000/4000Scmr

2483A\_R00

**Evaporator Wiring Diagram - Models 6000Scmr, 8000Scmr**  
**- Dual Power / Valve Control**  
**- Remote Controller**

**Appendix B**

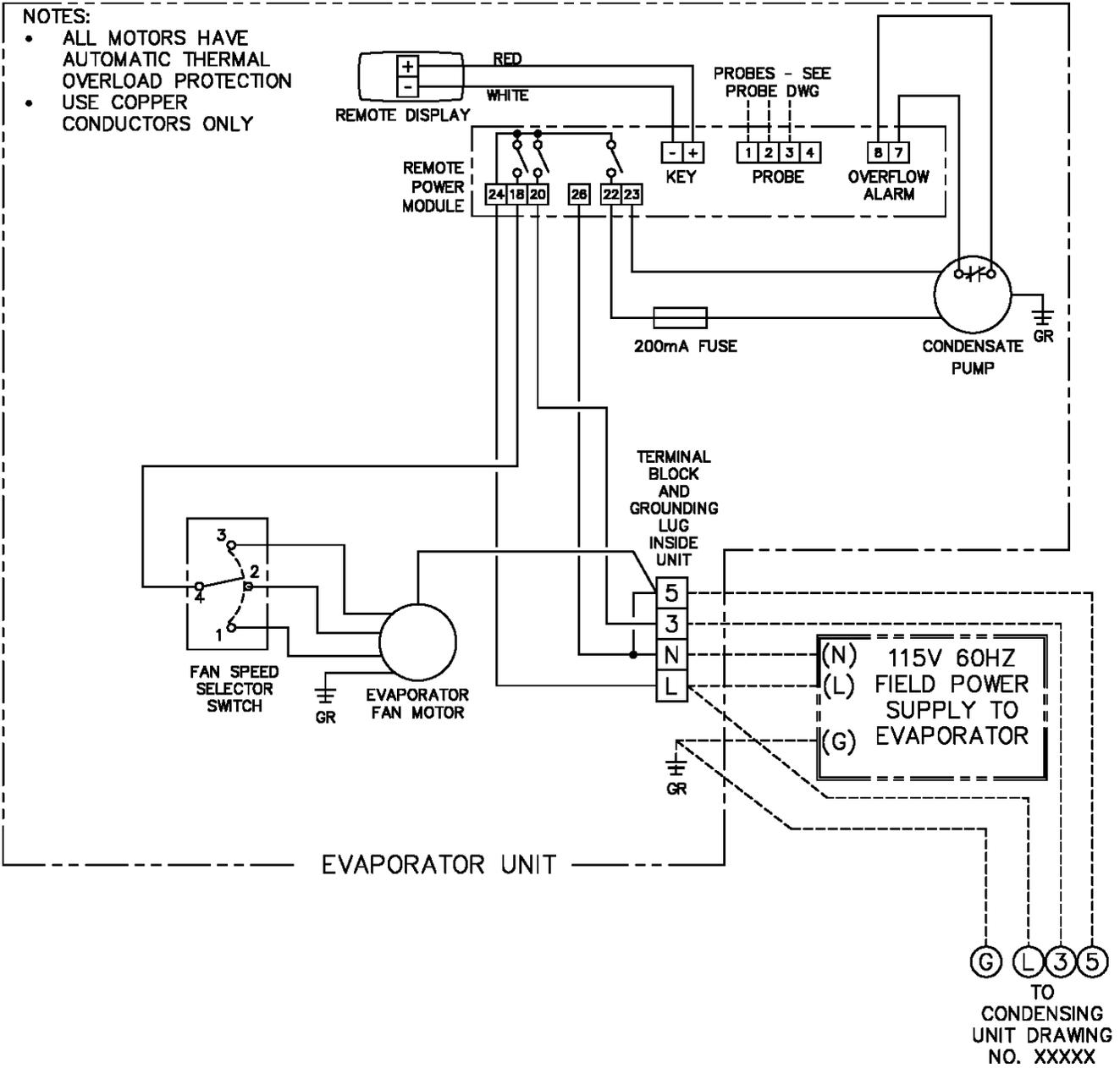


**Evaporator Wiring Diagram - Models 3000Scmr, 4000Scmr**  
**- Single Power / Electronic Control**  
**- Remote Controller**

**Appendix C**

**NOTES:**

- ALL MOTORS HAVE AUTOMATIC THERMAL OVERLOAD PROTECTION
- USE COPPER CONDUCTORS ONLY



RECESSED CEILING MOUNT EVAPORATOR WIRING DIAGRAM REMOTE DISPLAY - ELECTRONIC CONTROL MODELS 3000/4000Scmr

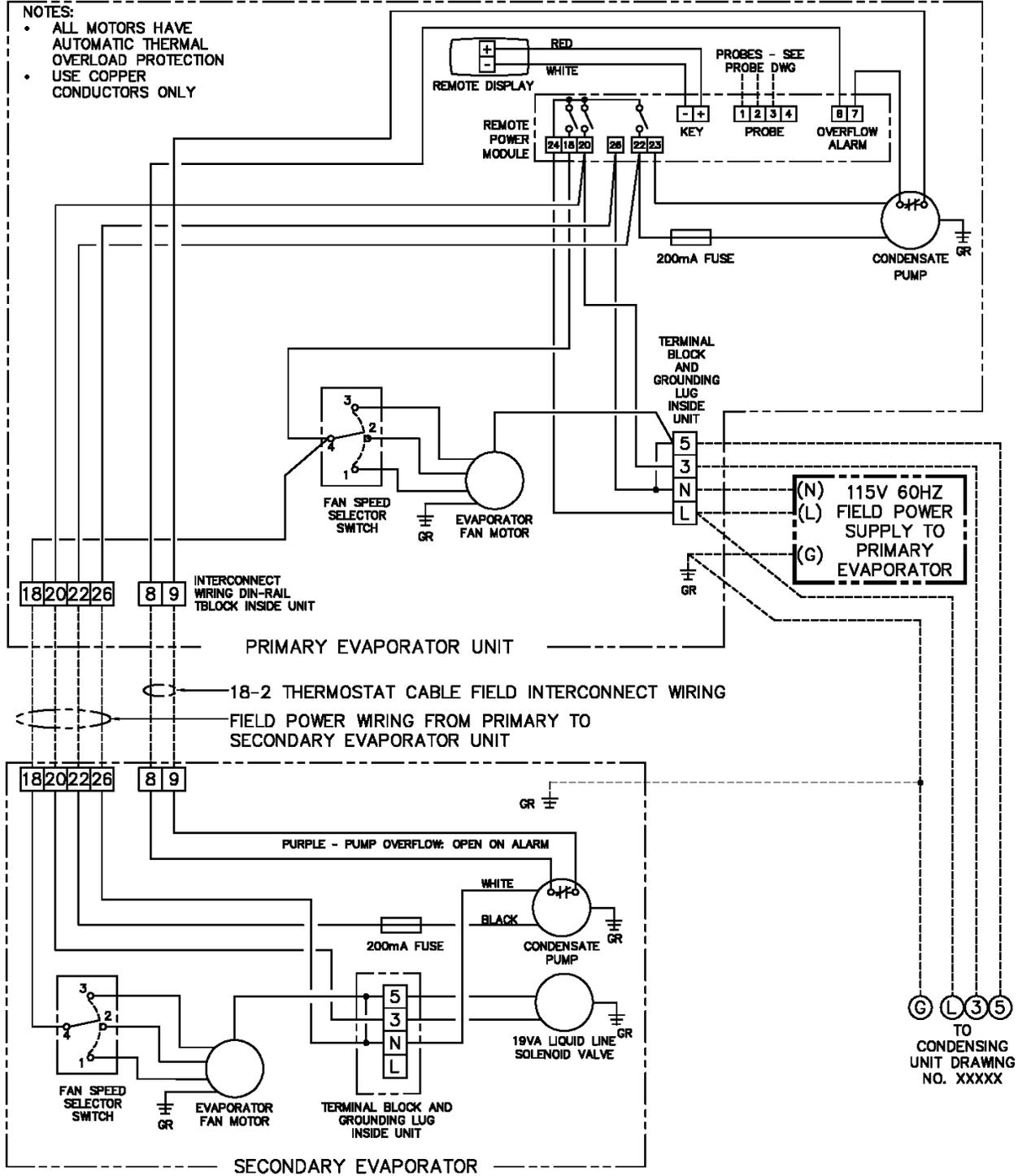
2483C\_R00

**Evaporator Wiring Diagram - Models 6000Scmr, 8000Scmr**  
**- Single Power / Electronic Control**  
**- Remote Controller**

**Appendix D**

**NOTES:**

- ALL MOTORS HAVE AUTOMATIC THERMAL OVERLOAD PROTECTION
- USE COPPER CONDUCTORS ONLY

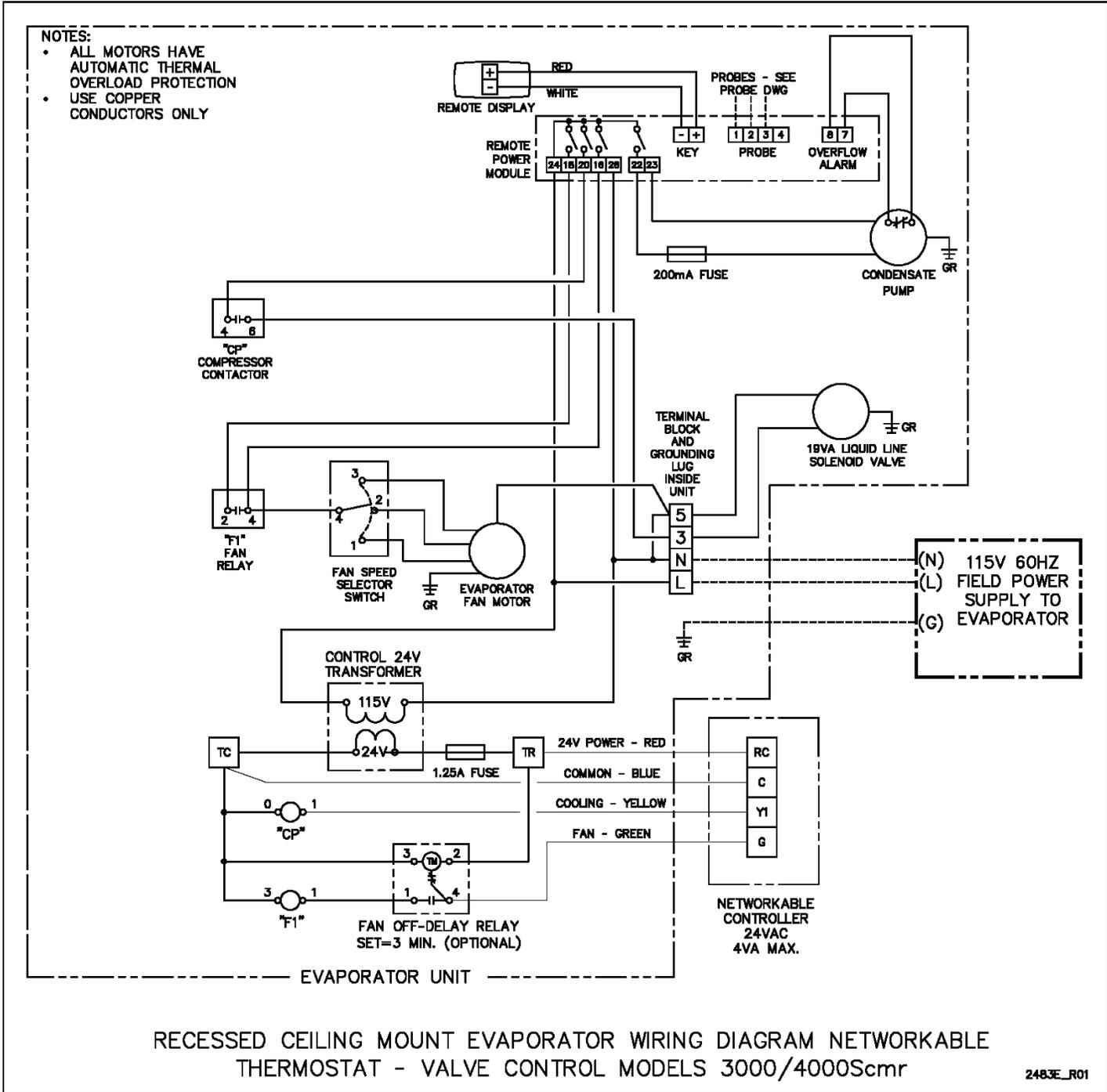


RECESSED CEILING MOUNT DUAL EVAPORATOR WIRING DIAGRAM REMOTE DISPLAY - ELECTRONIC CONTROL MODELS 6000/8000Scmr

2483D\_R00

**Evaporator Wiring Diagram - Models 3000Scmr, 4000Scmr**  
**- Dual Power / Valve Control**  
**- Networkable Thermostat**

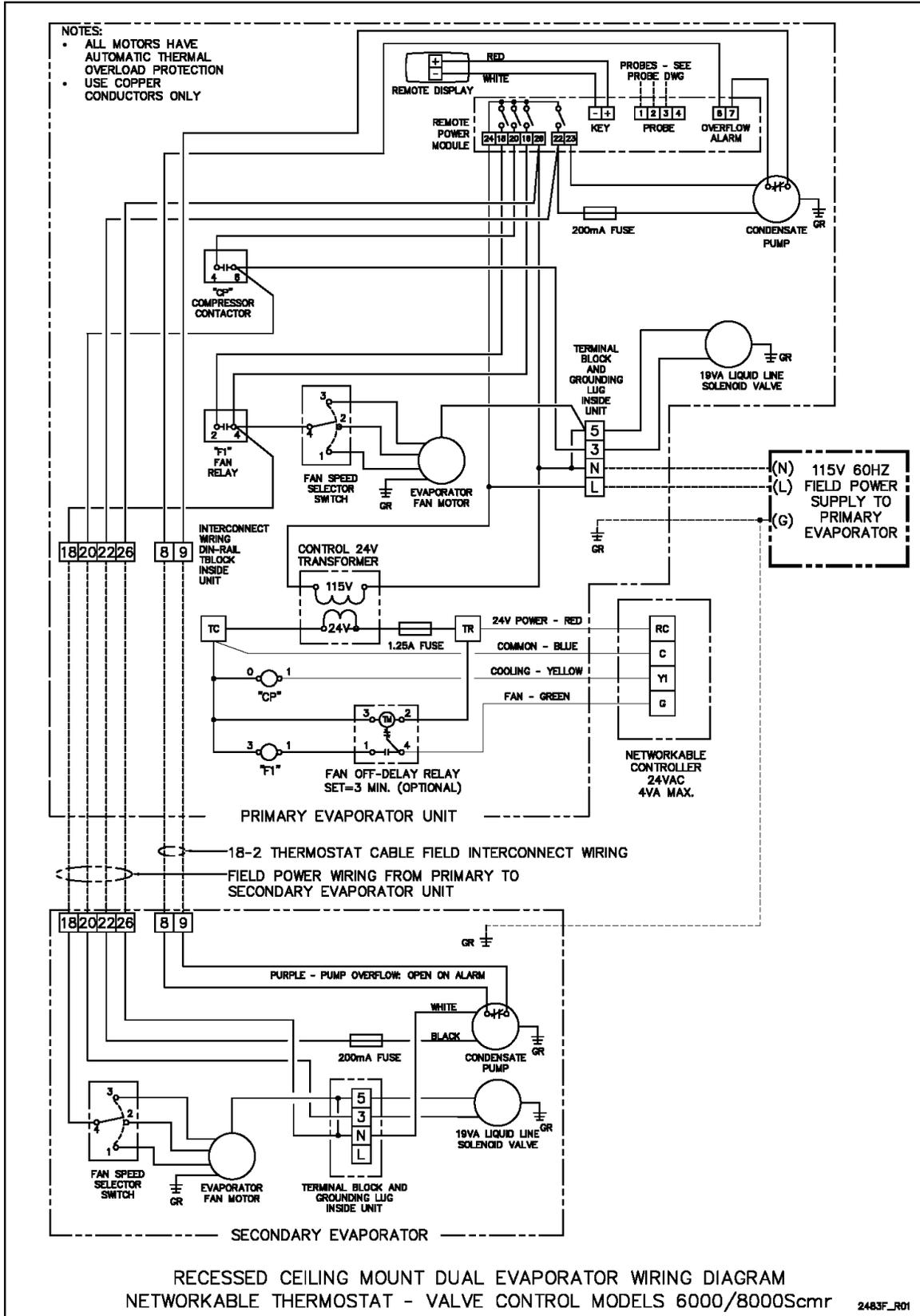
**Appendix E**



2483E\_R01

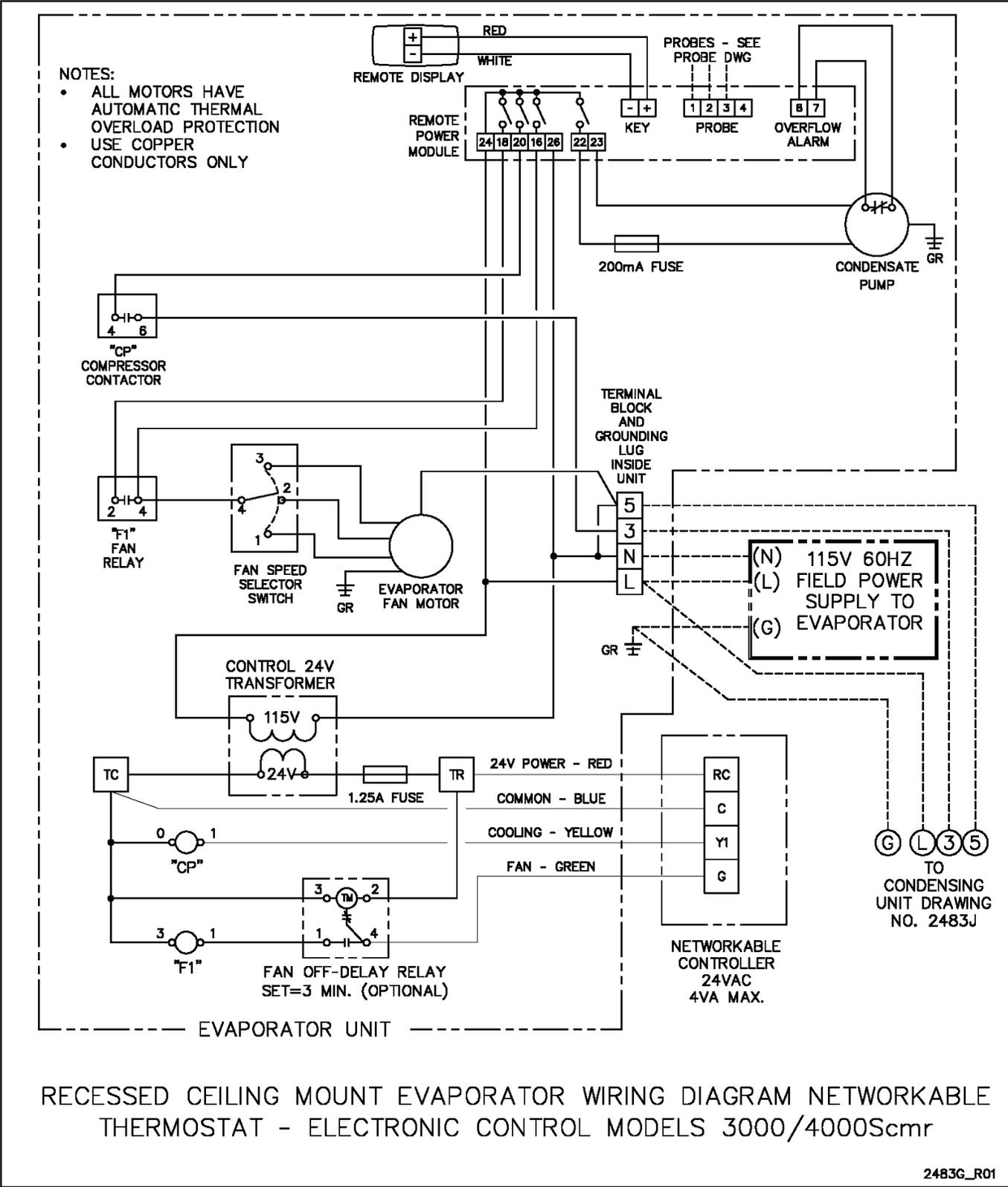
**Evaporator Wiring Diagram - Models 6000Scmr, 8000Scmr**  
**- Dual Power / Valve Control**  
**- Networkable Thermostat**

**Appendix F**



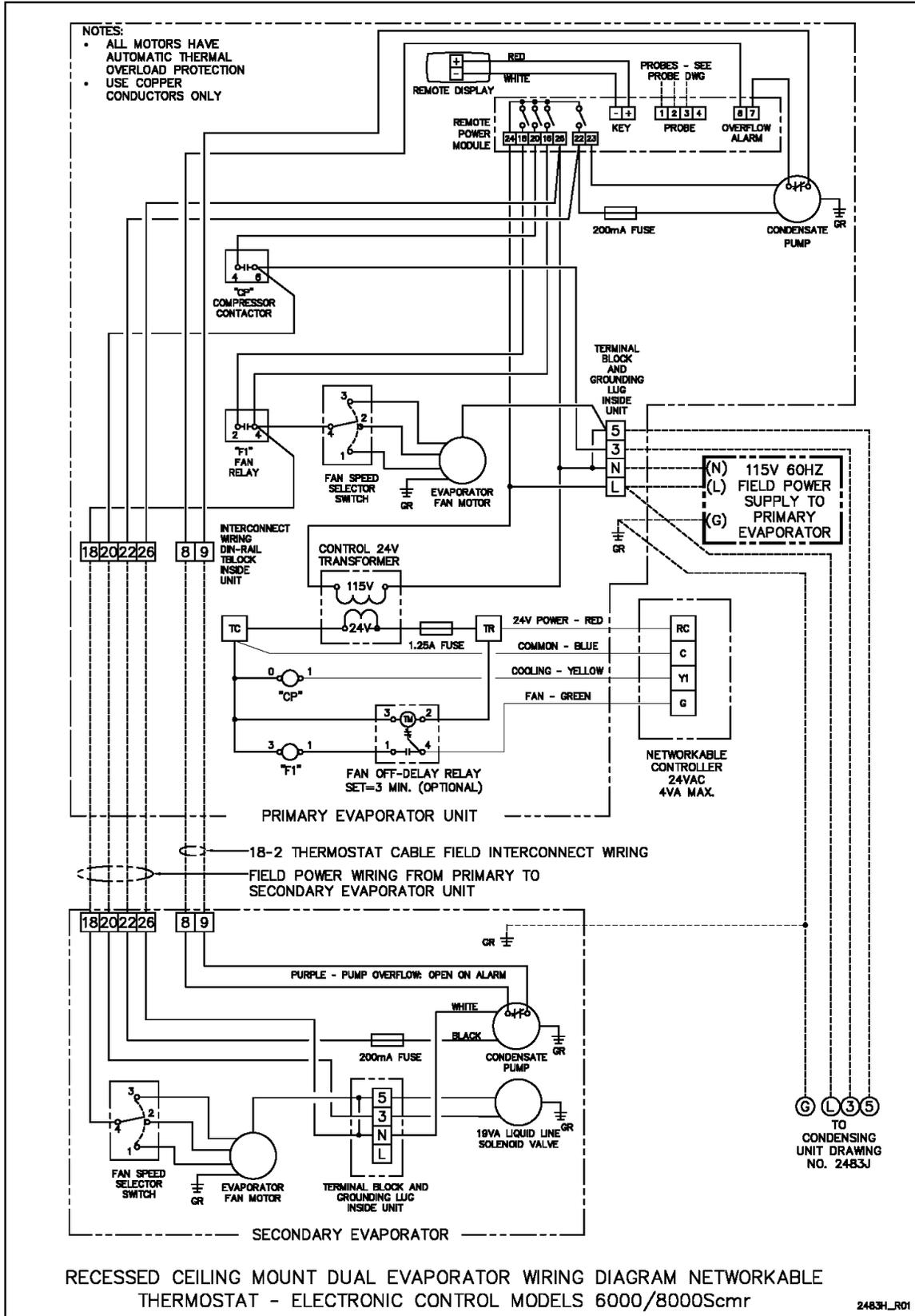
**Evaporator Wiring Diagram - Models 3000Scmr, 4000Scmr**  
**- Single Power / Electronic Control**  
**- Networkable Thermostat**

**Appendix G**



**Evaporator Wiring Diagram - Models 6000Scmr, 8000Scmr**  
**- Single Power / Electronic Control**  
**- Networkable Thermostat**

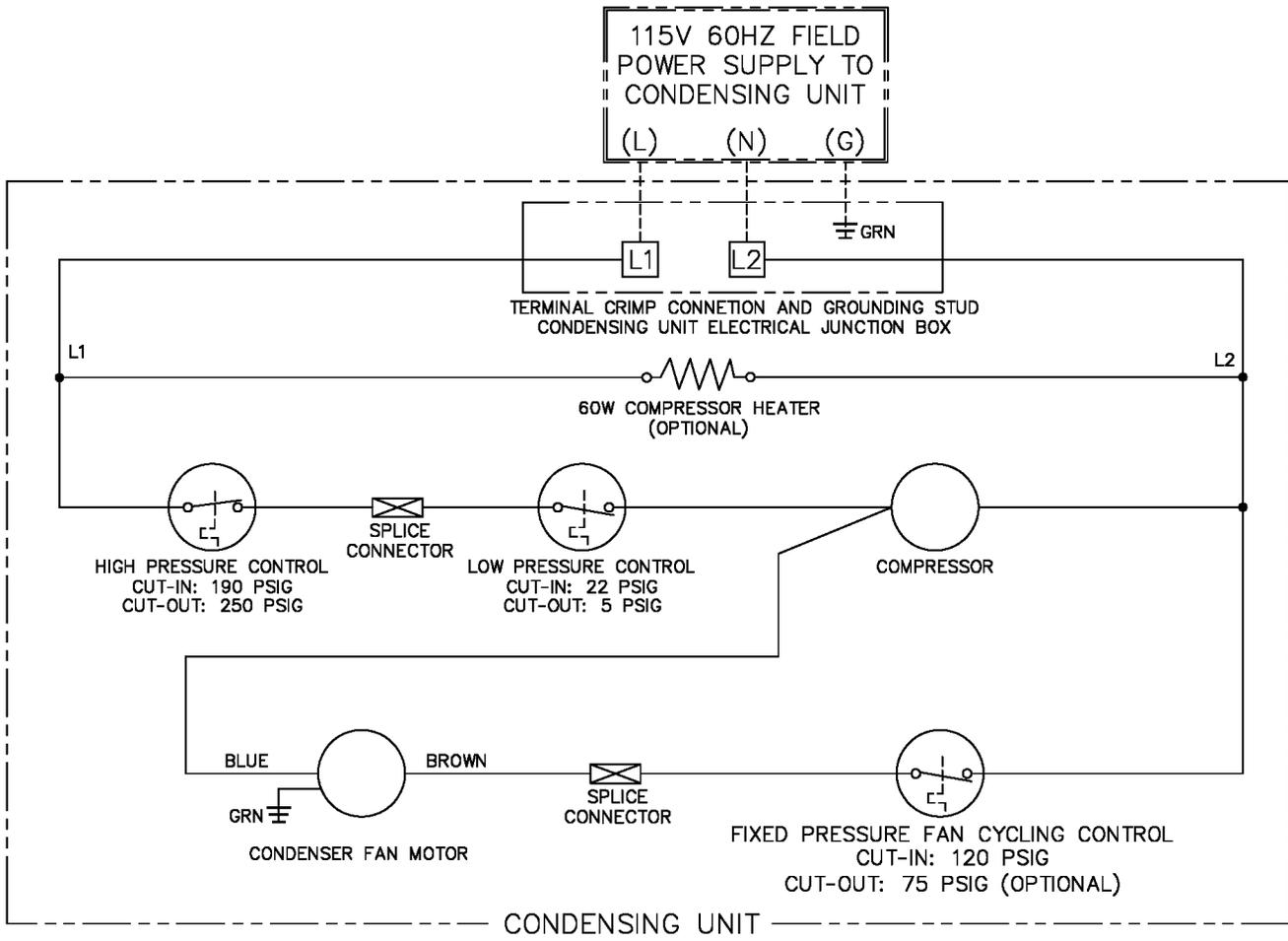
**Appendix H**



# Condensing Unit Wiring Diagram

Appendix I

- Models 3000Scmr, 4000Scmr, 6000Scmr, 8000Scmr
- Dual Power / Valve Control
- Remote Display or Networkable Thermostat



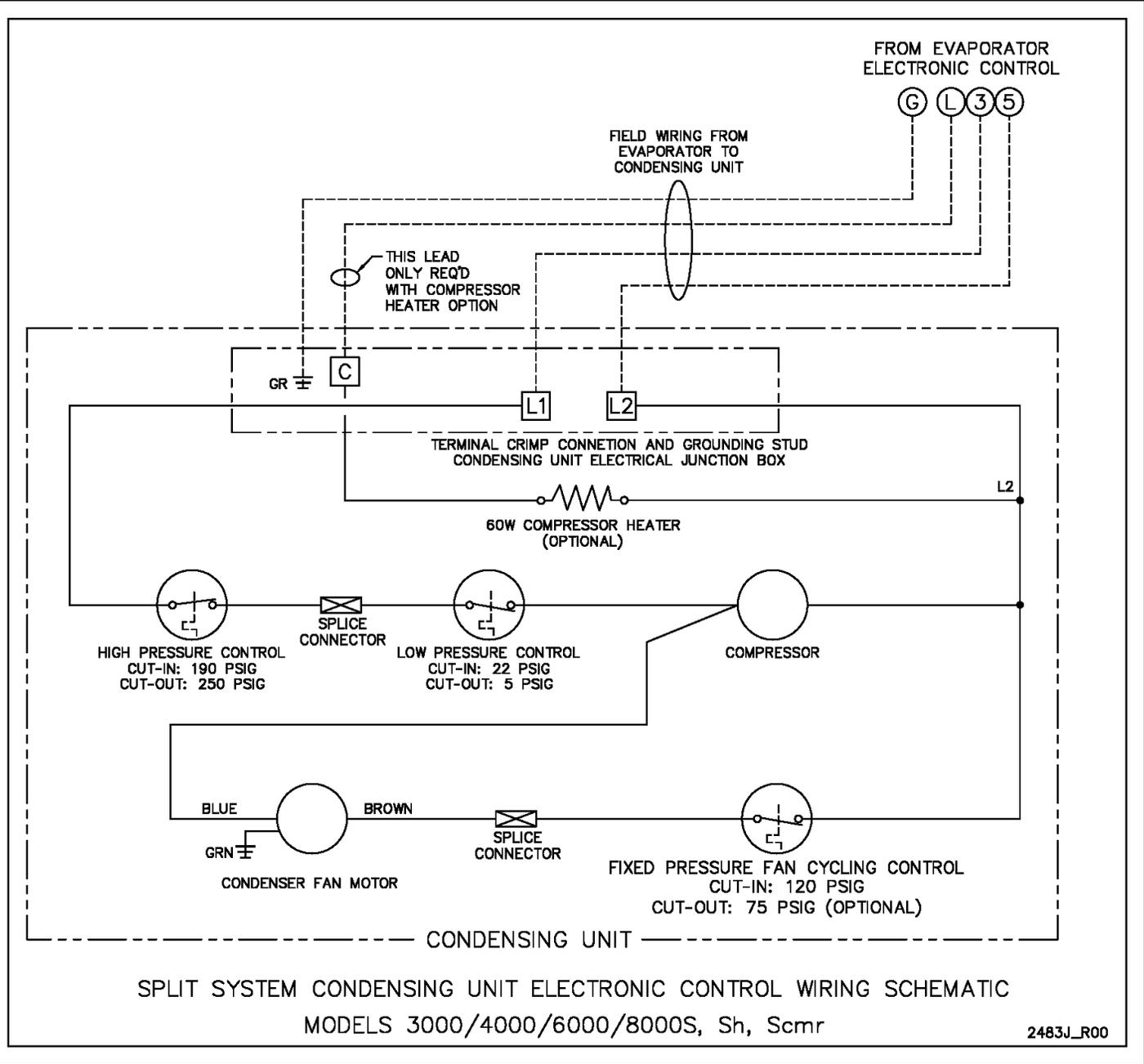
SPLIT SYSTEM CONDENSING UNIT VALVE CONTROL WIRING SCHEMATIC  
MODELS 3000/4000/6000/8000S, Sh, Scmr

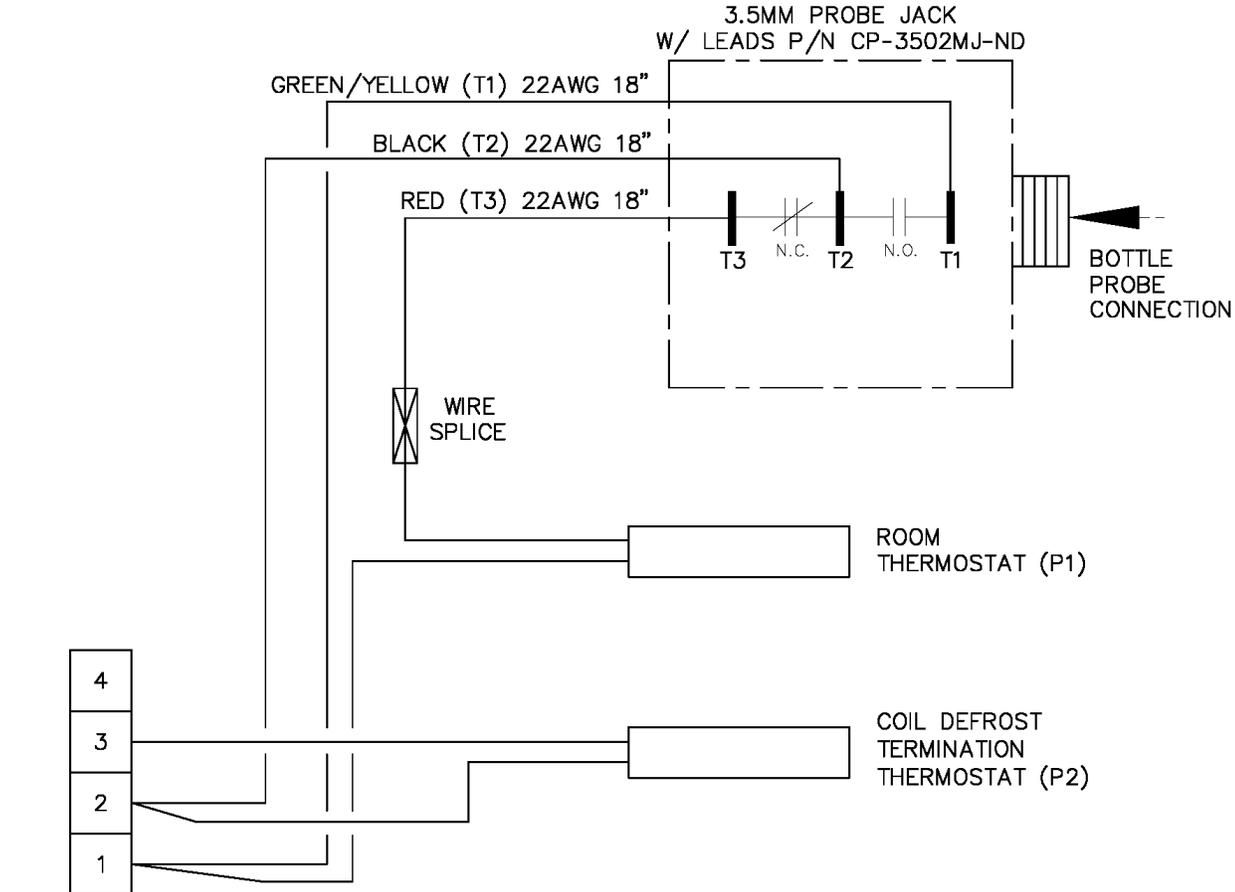
24831\_R00

# Condensing Unit Wiring Diagram

# Appendix J

- Models 3000Scmr, 4000Scmr, 6000Scmr, 8000Scmr
- Single Power / Electronic Control
- Remote Display or Networkable Thermostat





REMOTE DISPLAY PROBE WIRING  
 3000/4000/6000/8000Scmr

2483M\_R00

**\*\*REQUIRED\*\* TO ACTIVATE THE WARRANTY.  
**INSTALLERS *MUST* FILL OUT THIS SHEET AND FAX TO  
 707.794.8005 OR SCAN & EMAIL TO [INFO@CELLARPRO.COM](mailto:INFO@CELLARPRO.COM)****

*CellarPro Split Systems must be installed by an experienced professional in adherence with industry practices and as described in the manual. If you need technical assistance during the installation, call 877.726.8496 x2.*

**Tech Name:** \_\_\_\_\_ **Tech Phone:** \_\_\_\_\_ **Date of Measurement:** \_\_\_\_\_

**System Information**

**Piping Information**

MM/DD/YY

Customer Name		R-134a System Charge (lb)	
Condensing Unit Model #		Line-set Length (ft)	
Condensing Unit Serial #		Liquid line diameter (OD)	
Evaporator Model #		Suction line diameter (OD)	
Evaporator Serial #		Trap installed in drain line, charged with water, and tested for drainage (Y/N)	
Operation Start Date			
Power to Condensing Unit (Check One)	<input type="checkbox"/> From Evaporator <input type="checkbox"/> From External Source		
Power to Compressor Heater (Check One)	<input type="checkbox"/> No Heater <input type="checkbox"/> Wire "L1" <input type="checkbox"/> Wire "C" <input type="checkbox"/> No Heater <input type="checkbox"/> Terminal "L1" <input type="checkbox"/> Terminal "K"		
Initial Refrigerant Charge Through (Check One)	<input type="checkbox"/> Suction Access Valve <input type="checkbox"/> Liquid Access Valve		

**Operational Data:** *Take the following measurements during a normal refrigeration cycle, once the cellar has pulled down to the set-point temperature. Make sure the compressor is running when recording the data.*

**Evaporator**

**Range**

Air temp. at Evap coil (°F)	Inlet		Outlet		TD		8-10°F TD
Evaporator power supply	Volts			Amps			103-127V nameplate amps

**Condensing Unit**

Air temp at Condenser coil (°F)	Inlet		Outlet		TD		20-30°F TD
Condenser fan status	<input type="checkbox"/> On			<input type="checkbox"/> Off			
Suction readings access valve	PSIG		°F		SH		25-35 PSIG 20°F Min. Superheat
Liquid readings at access valve	PSIG		°F		SC		105-180 PSIG 8-12°F Subcooling
Condensing unit power supply	Volts			Amps			103-127V nameplate amps
odS Setting	Please provide the email address to contact with the warranty activation:						