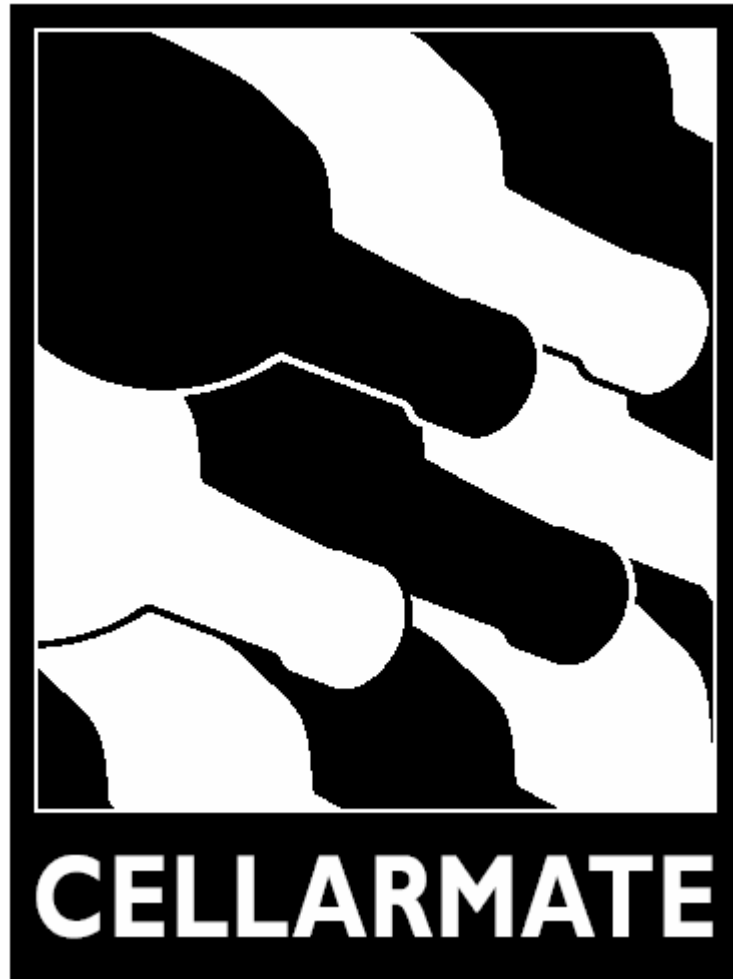


# CellarMate

The Key to Wine Cellar Climate Control



Installation, Operation, and Maintenance Manual

Please read the following information, especially the safety information, to ensure that you receive the maximum benefits of owning a CellarMate,

# CUSTOMER WARRANTY REGISTRATION

*Please complete and mail the Product Registration Card with a copy of your purchase receipt. By registering your product, you will automatically be enrolled in our Consumer Protection Program and receive the following:*

## **Product Safety Notification**

Registering your product allows us to contact you with updates and notifications about your CellarMate model.

## **Confirmation of Ownership**

We store model numbers, serial numbers, and owner information in our archives for ten years. In the event of fire, flood, or theft, your registration serves as proof of your purchase for insurance purposes.

## **Warranty Service**

Completing the Product Registration Card will expedite efficient warranty service.

Please cut on dotted line and mail registration form to: CellarMate LLC, PO Box 257, West Cornwall, CT 06796

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| Product Registration |                    |
|----------------------|--------------------|
| NAME:                | _____              |
| ADDRESS:             | _____<br>_____     |
| CITY:                | _____              |
| STATE:               | _____              |
| ZIP:                 | _____              |
| EMAIL:               | _____              |
| MODEL:               | _____              |
| SERIAL:              | _____              |
| DISTRIBUTOR:         | _____              |
| PURCHASE DATE:       | ____ / ____ / ____ |
| INSTALL DATE:        | ____ / ____ / ____ |

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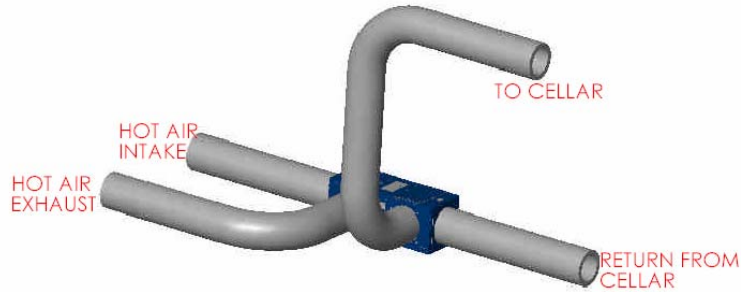
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# Overview of the CellarMate Unit



## Evaporator Section

Cool air is supplied to the wine cellar through any of three outlets. Return air from the cellar enters the evaporator coil section. A drain pan is located directly below the evaporator coil to capture condensate and is fabricated from aluminum to prevent corrosion.

## Condensing Section

Ambient air is circulated through the condenser section, and can be discharged through any of three outlets.

## Cabinet

The cabinet and access doors are constructed of aluminum with a powder coated finish for corrosion protection and an attractive, maintenance-free appearance. Unit is insulated to prevent condensation and optimize efficiency. Removable access panels are provided to facilitate maintenance, duct connections, and access to wiring components.

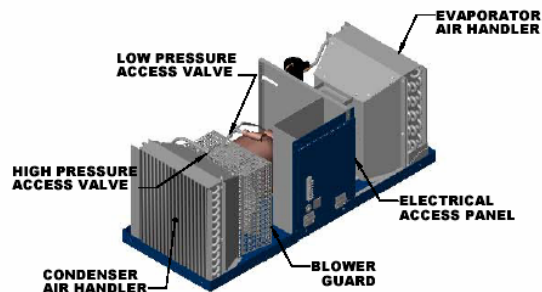
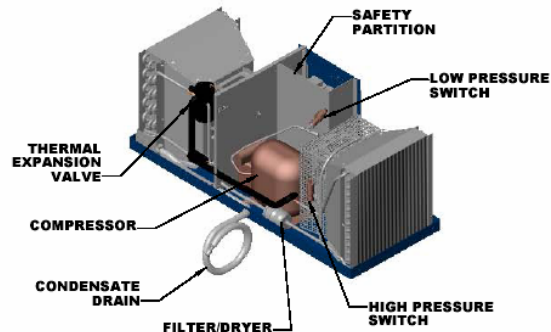
## Electrical Controls

The electrical components and controls are located on a hinged access panel for easy accessibility. Wires are numbered and color coded to match the wiring diagram. Electric power is supplied by a cord. Thermostat controls are 24 volt, supplied from an internal transformer. The 230 volt units are capable of operating at 208 or 240 volt by changing the leads on the control transformer. (See Wiring Diagram)

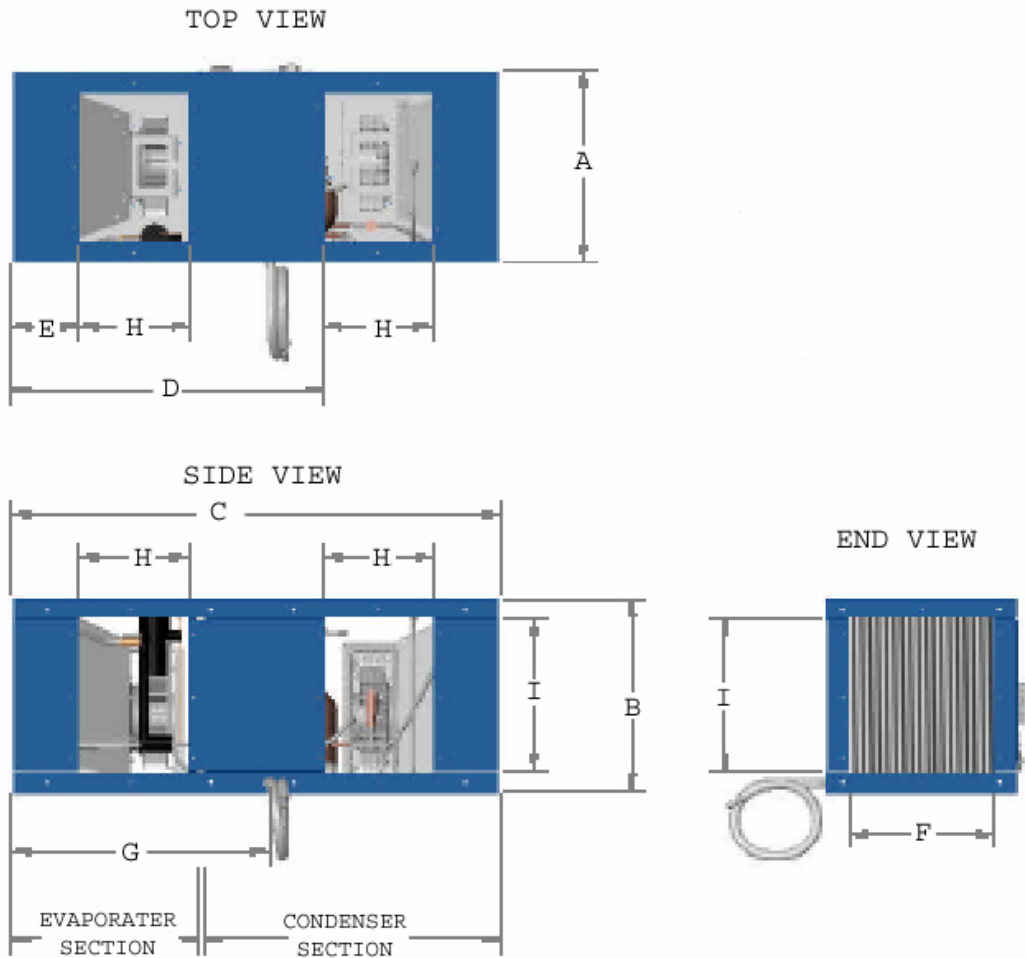
## Refrigerant Circuit

The factory-charged circuit includes:

- A thermal expansion valve.
- A filter dryer.
- An automatic low pressure switch.
- An automatic high pressure switch.
- Two motorized impeller blowers, with permanently lubricated direct drive motors.
- A self-lubricated compressor with internal overload protection. Standard manufacturer's warranty is one year.
- Two heat exchanger coils.
- Environment-friendly refrigerant, only R-134a.



# Dimensions



| Model Number                      |        | 25    | 50    | 88    | 200   |
|-----------------------------------|--------|-------|-------|-------|-------|
| <b>Dimensions - Nominal</b>       |        |       |       |       |       |
| A - Width                         | Inches | 14    | 22    | 22    | 22    |
| B - Height                        | Inches | 14.5  | 14.5  | 14.5  | 18    |
| C - Length                        | Inches | 36    | 40    | 40    | 43    |
| D - Condenser Discharge Location  | Inches | 23    | 25    | 25    | 26    |
| E - Evaporator Discharge Location | Inches | 5     | 5     | 5     | 5     |
| F - Inlet Opening Width           | Inches | 10.63 | 10.63 | 10.63 | 18.88 |
| G - Drain Opening Location        | Inches | 19    | 21    | 21    | 24    |
| H - Discharge Opening Width       | Inches | 8     | 10    | 10    | 11.63 |
| I - Inlet Opening Height          | Inches | 11.28 | 11.28 | 11.28 | 15    |
| <b>Weight</b>                     |        |       |       |       |       |
|                                   | Lbs.   | 80    | 125   | 145   | 195   |
| <b>Refrigerant charge - 134a</b>  |        |       |       |       |       |
|                                   | Oz.    | 19    | 26    | 34    | 50    |

# Product Specifications

The CellarMate is designed to operate at or above its rated capacities for total BTUH and CFM under recommended conditions.

| Model Number                          |       | 025                                      | 050       | 088       | 200         |
|---------------------------------------|-------|--|-----------|-----------|-------------|
| <b>Performance</b>                    |       |  |           |           |             |
| Nominal Tonnage                       | Ton   | 1/4                                      | 1/2       | 1         | 2           |
| Nominal Compressor                    | HP    | 1/3                                      | 1/2       | 1         | 2.5         |
| <b>Net Cooling capacity*</b>          |       |  |           |           |             |
| @ 70 DEG F Ambient                    | BTUH  | 3300/3650                                | 5600/6050 | 8400/9100 | 16200/17750 |
| @ 80 DEG F Ambient                    | BTUH  | 3000/3300                                | 5300/5700 | 7800/8450 | 15200/16550 |
| @ 90 DEG F Ambient                    | BTUH  | 2800/3050                                | 4850/5275 | 7300/7900 | 14100/15350 |
| <b>Controls</b>                       |       |  |           |           |             |
| Type                                  |       | Room mounted non-programmable thermostat |           |           |             |
| Accuracy                              |       | ± 2°F                                    |           |           |             |
| <b>Evaporator Section</b>             |       |  |           |           |             |
| Fan motor Size                        | Watts | 75                                       | 100       | 195       | 240         |
| Rated air flow                        | CFM   | 235                                      | 430       | 510       | 740         |
| Air flow with 25' flex duct           | CFM   | 207                                      | 400       | 485       | 715         |
| <b>Condenser Section</b>              |       |  |           |           |             |
| Fan motor Size                        | Watts | 75                                       | 100       | 195       | 240         |
| Rated air flow                        | CFM   | 253                                      | 400       | 500       | 750         |
| Air flow with 25' flex duct           | CFM   | 220                                      | 365       | 475       | 720         |
| <b>Electrical Requirements</b>        |       |  |           |           |             |
| Power requirements                    | V/P/H | 115/1/60                                 | 115/1/60  | 230/1/60  | 230/1/60    |
| Current Draw - Cooling mode           | Amps  | 8.6                                      | 11.9      | 9         | 16          |
| minimum Circuit Size                  | Amps  | 15                                       | 15        | 15        | 20          |
| <b>Typical Testing Data (Factory)</b> |       |  |           |           |             |
| Head pressure                         | psig  | 159                                      | 140       | 140       | 138         |
| Suction Pressure                      | psig  | 40                                       | 30        | 25        | 27          |
| Condenser Inlet Temperature           | Deg F | 81                                       | 74        | 79        | 78          |
| Condenser Outlet Temperature          | Deg F | 98                                       | 98        | 99        | 107         |
| Evaporator Inlet Temperature          | Deg F | 56                                       | 55        | 57        | 55          |
| Evaporator Outlet Temperature         | Deg F | 44                                       | 44        | 43        | 46          |
| <b>Agency Approval</b>                |       | ETL - Conforms to UL Std. 1995           |           |           |             |

\*1. Net cooling capacity @ cellar temperature & humidity of 55°F & 60% RH / 60°F & 60% RH and at rated airflow. Reduce capacity by 3% for each 10% reduction in either condenser or evaporator airflow, 5% for both.

2. Cellarmate reserves the right to make changes to this document without prior notice at its sole discretion.

3. All ratings @ sea level.

# Safety Considerations

When performing maintenance, always use the following Lockout/Tag-out Procedure. More than one power source may be present. Disconnect all power sources.

## **Lockout/Tag-out Procedure**

- Turn power switch to OFF.
- Lights should be off.
- Unplug unit from electrical outlet.



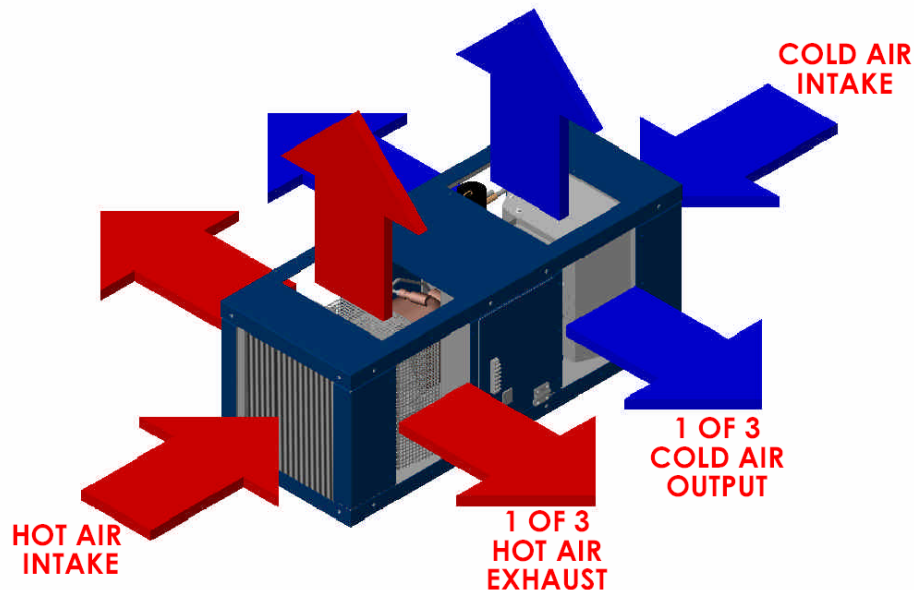
- Never reach into a unit while the fan is running.
- Never open an access door downstream of the fan while the fan is running.
- Do not expose the unit to rain or moisture.
- Check weight specifications to confirm that supports are adequate.
- Confirm that supports are designed to meet local codes and ordinances.
- Do not remove access panels until fan impellers have completely stopped. Fan impellers continue to turn (free-wheel) after the power is turned off.
- Never pressurize equipment above the specified test pressure. (See Specification Sheet)
- Do not operate near water.
- Do not block any supply or return air register.
- Do not modify or change polarized or grounding plugs. If the provided plug does not fit into the outlet, consult an electrician for replacement of the obsolete outlet.
- Only use attachments/accessories specified by the manufacturer.
- The CellarMate units only operate on 120 VAC or 230 VAC, 1 phase 60Hz power source.
- Always ground the outlet to provide adequate protection against voltage surges and static charge build-up.
- Refer all service to qualified personnel.
- Do not place anything on top of the unit.
- Do not use extension cords.
- Use only dedicated power outlet boxes of the specified capacity.

# Pre-installation Procedure

## Pre-installation Test

Before installing your CellarMate unit, use the following procedures to test for non-visible shipping damage.

- Set the unit on the floor or on a sturdy level surface.
- Confirm that both blower impellers spin freely. Spin both blowers and observe any interference; blowers are lubricated and should spin rapidly when spun.
- Plug the power cord into an outlet.
- Turn the main power switch to ON. The power indicator light should be on.
- Override the timer: The built-in timer prevents short cycling and keeps the unit from turning on right away. Open the thermostat cover. Simultaneously press the fan and UP arrow buttons. The unit will run as long as the temperature of the space is above the thermostat set point. After several minutes, the unit will expel cold air from the evaporator section and hot air from the condenser section.
- Listen for unusual noise or vibration.



## Pre-installation Procedure

**Determine and review the following important information:**

- Where the unit will be located; e.g. built into the wall or mounted remotely and ducted into the cellar.
  - **INDOOR USE ONLY!** Unit should be installed in an area protected from the weather and protected against any flooding. CellarMate units are not designed for outdoor installation. If the unit must be installed outdoors, use a rain-proof enclosure and low-ambient kit.
  - Where the supply and return grills will be placed to achieve preferred temperature gradient and circulation.
  - If the condenser heat exhaust will be ducted away.
  - Site must allow for access to all panels. 3 feet of clearance is required to allow room for equipment in case the unit needs to be serviced. Additional clearance near the access panel is desirable.
  - The unit should be installed within 2 meters (~6 feet) of a standard 15 amp wall outlet (DO NOT USE AN EXTENSION CORD).
  - It is best if the unit can be installed where the shortest amount, if any, duct work is required. It is recommended that no more than 25' of duct should be used for any single input or



output from the system. Total duct work is recommended not to exceed 50'. If longer runs of duct are required, secondary fans must be used to maintain CFM output.

- The condensate drain line needs to be considered when selecting an installation site.
- Unit should be level with the top side up during operation.
- The unit is designed to operate with an ambient (air intake) temperature of 40 deg to 90 deg F.
- All required parts are on-hand.
  - The electrical plug and outlet have the correct configuration.
  - Breakers are the proper size.
  - The cellar has adequate insulation and vapor barrier.
  - Ducts are the correct size.
  - There is ample space around the unit to allow access for maintenance and repair.

## Electrical Installation:

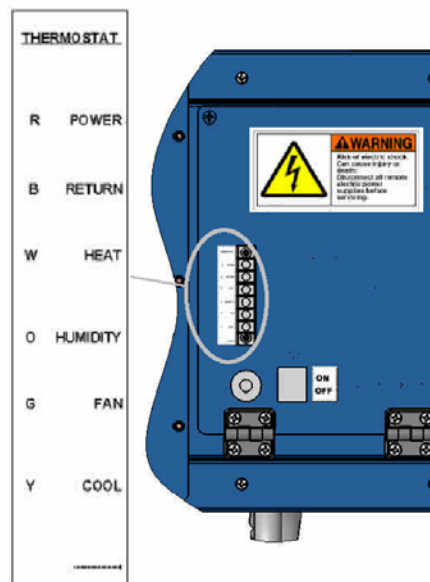
- The unit is designed so that it can be installed without opening the electrical access panel. If for any reason the access panel needs to be opened it should be done only by qualified personnel.
- The unit main power (110VAC or 230VAC) **branch circuit shall be fused at 15 to 20 amps.**
- The unit has a delay timer that will not allow the compressor to start for a lock-out period after the power has been disrupted. This time is adjustable but has been preset at the factory for 5 minutes.
- The unit is supplied with high and low pressure switches on the refrigerant line. These switches will not allow the compressor to operate if the refrigerant charge is too low or too high. There is no manual reset on either switch and normal operation should resume once the condition has been corrected.

## Thermostat Connection:

- 24 VAC is on screw terminal 6 (red, R) of the screw terminal block on the front panel.
- 24 VAC return or common is on screw terminal 5 (brown, B)
- Note: The 24 VAC has circuit breaker protection.
- At a minimum the following control lines from the thermostat are required:
  - Cool (yellow, Y) on screw terminal 1
  - Fan (green, G) on screw terminal 2

### Notes:

- The unit has no internal support for humidity or heater control. If a duct heater and or humidifier are co-installed you may attach the thermostat humidifier control line to screw terminal 3 (blue, B) and the duct heater control line on screw terminal 4 (white, W).
- If a duct mounted heater and or humidifier are used the humidifier must be downstream in the airflow from the heater. Check local codes before installing such equipment.

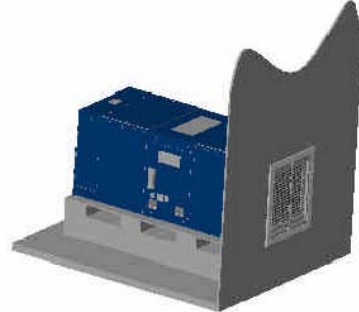


## Mechanical Installation Options

*The following installation instructions and diagrams are for general ideas only. They are not intended to be a complete and detailed guide for installation. The Cellarmate 025 model is designed to fit between studs.*

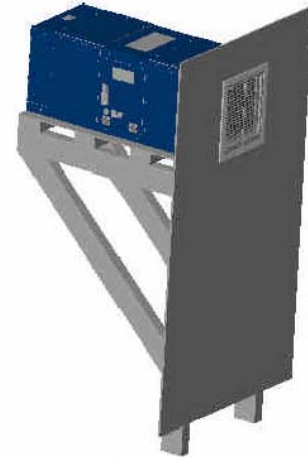
### **Floor Mounting**

Elevate the CellarMate on a 2"x4" frame with a plywood surface to protect it from water. This will allow adequate space for the external drain.



### **Wall Mounting**

Confirm that the load bearing capacity of the supports is adequate and meets local codes and ordinances. Support the CellarMate on both sides of the wall. Use floor or knee braces to transfer the load of the unit to the floor or wall.



### **Ceiling Mounting**

CellarMate units are not designed for suspension from the top of the unit.

Construct a structurally sound platform on which to place the unit when hanging from ceiling joists. Ensure that the platform is supported on all four corners.

Leave adequate space above the unit for service access.



*To operate properly, the unit must be level within 1/4" end to end and 1/8" side to side.*

### **Installing the Condensate Drain Connection**

The CellarMate dehumidifies the inside of the wine cellar. The unit will remove the excess moisture from the wine cellar. There is no water trap on the drain line internal to the unit. A commercial trap can be installed external to the unit or a loop can be placed in the supplied flexible drain tube.

## Installing the Ductwork

The following installation instructions and diagrams are for general ideas only. They are not intended to be a complete and detailed guide for installation.

**DO NOT EXCEED A TOTAL OF 25' FOR EACH LENGTH OF DUCTWORK RUN, OR 50' TOTAL.** Place the unit as close to the wine cellar as possible to reduce the length of the duct runs. Use straight, short ducting. To prevent transmitting vibration and noise, add ¼" thick rubber pads.

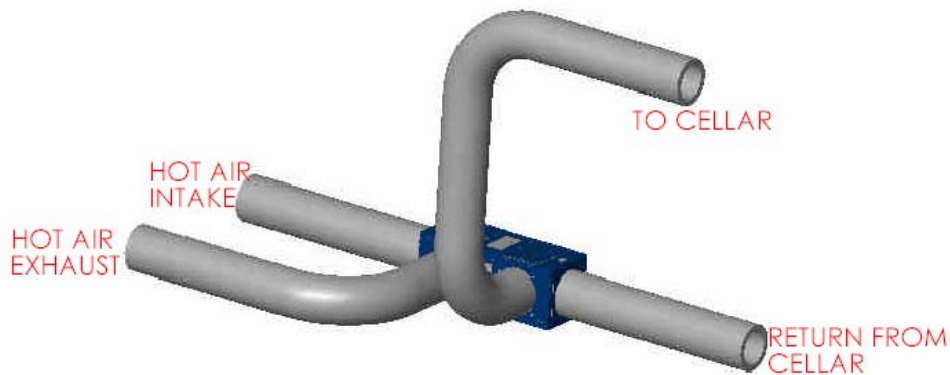
Ambient air can be directly drawn into the condenser inlet, or can be ducted from an alternate location. Condenser exhaust does not need to be ducted to a remote location unless installation location is not desirable or capable of handling the exhaust heat. Condenser exhaust and evaporator output (cool air) can be ducted from the unit from either of the two side openings or out the top opening of the unit.

Use ductwork to connect the unit to the supply and return outlets in the wine cellar. Use only insulated ductwork. Installing the supply and return outlets too close together will create an undesirable circulation loop. Appropriate spacing between the supply and return outlets will increase the efficiency of cooling your cellar.

Ductwork can also be used on the condenser section to redirect the hot air exhaust and supply conditioned air to the unit's inlet.

| <b>Recommended insulated Flexible Ductwork Sizing Chart</b> |                                  |                   |               |  |                   |               |
|---|----------------------------------|-------------------|---------------|--|-------------------|---------------|
| <b>Model #</b>  | <b>Evaporator (cooling) Coil</b> |                   |               | <b>Condenser (heat rejection) Coil</b> |                   |               |
|   | <b>Return Air</b>                | <b>Supply Air</b> |               | <b>Return Air</b>                      | <b>Supply Air</b> |               |
|   |                                  | <b>Single</b>     | <b>Double</b> |  | <b>Single</b>     | <b>Double</b> |
| <b>25</b>   | 8"                               | 8"                | 6"            | 8"                                     | 8"                | 6"            |
| <b>50</b>   | 10"                              | 10"               | 6"            | 10"                                    | 10"               | 6"            |
| <b>88</b>   | 10"                              | 10"               | 8"            | 10"                                    | 10"               | 8"            |
| <b>200</b>  | 12"                              | 12"               | 10"           | 12"                                    | 12"               | 10"           |

Notes: 1. The above sizes are internal diameter in inches  
 2. if a single supply is used out of the unit, but then splits into two ducts, use the sizes indicated for "Double" after the split



### Duct work warnings and recommendations

- Avoid crimping the flexible ducts, which will reduce air flow and cause erratic operation.
- Be sure that all ducts and surfaces that are in contact with the air flow are insulated and have a vapor barrier on the outside surface.

- Support the flexible duct often to prevent sags or bends. (Place supports close enough to prevent the flexible ducting from sagging or bending).
- Stretch the duct to create a smooth interior and reduce air resistance. Rigid ductwork is best.
- Insert a metal elbow in the flexible duct at 90° bends to maintain form.
- Use straight and short lengths of ductwork.
- Review the Air Flow Illustration on page 8 for duct connection options.
- Remove the panels or grilles from the openings where the ductwork will be connected and save the screws.
- Install the panels with the duct collars using the screws from the original panels or grilles. Handle the gaskets with care.
- Pull the outer plastic wrapping and insulation away from the end of the duct to expose the reinforced duct liner.
- Connect the flexible duct by inserting the exposed portion into the duct collar.
- Clamp the tie straps around the inside liner. Fasten the duct to the duct collar.
- Do not clamp the tie straps around the outside insulation— over time, insulation will compress and loosen.
- Secure the duct collar panel to the unit using the screws set aside.
- Non-insulated ducts and surfaces can cause exposed metal surfaces to sweat, further degradation of the insulation, and a loss of equipment cooling capacity.

## **Start Up and Operation**

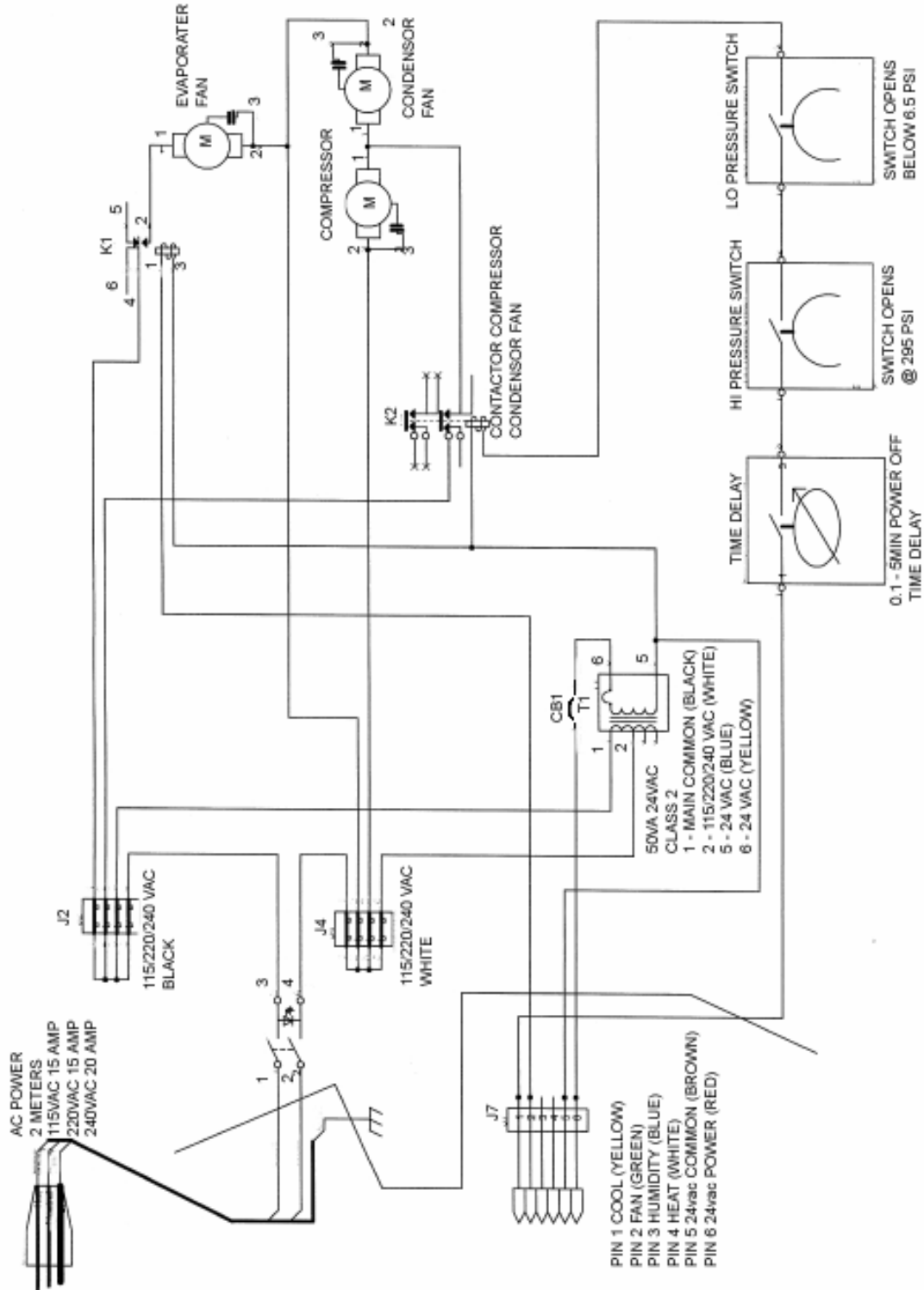
- Check all ductwork and electrical connections to confirm they are secure.
- Replace all panels that were removed during installation.
- Make sure that all openings on the evaporator side of the unit are covered with either a panel, ductwork collar, or a grille. All openings on the condenser side do not need to be covered if it is to exhaust to the ambient air, and/or if the hot air intake is coming from the ambient air.
- Turn the rocker switch to ON. The switch will light up to indicate that the unit is receiving power. The unit may not begin operating immediately due to the built-in timer.
- Follow the included thermostat directions to setup.

Listen for the compressor. The hum will be audible, with no excessive vibration or sounds.

Initially, the unit may run continuously for several hours—up to a day or more—while it lowers the cellar temperature. Once the unit reaches the set point temperature, it will begin to cycle as it continues to lower the bottle temperature to the set point. The cellar air temperature will reach the set point before the bottle temperature.

The fans will continue to free-wheel after the unit cycles off. The bottom of the compressor stays warm; even when the unit is OFF.

# Schematic



# Maintenance

## General Maintenance

### **WARNING**

Before performing maintenance on the unit, read the safety information contained within the safety chapter of the CellarMate Manual.

*High voltages are present in the cabinets. Turn all power OFF. Use the Lockout/Tagout procedure before opening panels.*

Maintenance on CellarMate units requires working with high voltage and sheet metal with sharp edges. Only qualified personnel should perform maintenance. Some tasks require knowledge of mechanical and electrical procedures. Make sure you are familiar with all hazards, general safety-related procedures, and safety labels on the unit.

The CellarMate is designed for minimum maintenance. The refrigerant is hermetically sealed and requires no maintenance. The fans require no maintenance. Maintenance may be required if there is dust or dirt in the air stream.

## Annual

- Check filter and drain trap - clean if needed.
- Check for noise or vibration.
- Check for short-cycling of the unit.
- Replace filters if worn or plugged beyond cleaning.
- Check evaporator and condenser coils for dirt. Use a vacuum with the brush attachment to clean the coils.
- Clean condensate pan under the evaporator coil by flushing. Keep the drain pan clear of debris.
- Inspect the cabinet for corrosion or rust.
- Inspect for dirt build-up on or inside the unit. Clean the unit by vacuuming or wiping it down.
- Check for loose insulation, fasteners, gaskets, or connections.
- Check the wiring connections and integrity of cords.
- Examine ducts for any cracks or breach.

# Troubleshooting

## **IMPORTANT**

*This section is intended as a diagnostic aid, only. For detailed repair or parts replacement procedures, contact a qualified service company. Check the following table before calling a service technician.*

| <u>PROBLEM</u>  |   | <u>POSSIBLE CAUSE</u>  | <u>SOLUTION</u>  |
|-----------------|---|--|--|
| <b>Start Up</b> | <b>General Problems</b>   | Loose, improper, or defective thermostat or humidistat wiring<br><br>Incorrect thermostat or humidistat (optional) settings<br><br>Changed settings on the thermostat<br><br>Blockage of the evaporator or condenser air flow. If the air flow becomes blocked, the manual reset high limit switch opens and shuts the unit off.<br><br>Unit shuts off | Check power and thermostat or humidistat wiring.<br><br>Check the thermostat and optional humidistat setup for the application. Read the thermostat troubleshooting guidelines in the Thermostat Installation and Operating Guide.<br><br>The internal timer did not complete the timed delay. Follow the manufacturer's instructions to override the timer.<br><br>Check for obstruction of the air flow<br>Remove the obstruction<br>Inspect the air filter for dirt and dust<br>Clean or replace the filter<br><br>Push the rocker switch to restart the unit |
|                 | <b>Power Switch Light is Off</b>                                | Switch not on<br><br>No power to outlet<br><br>Unit not plugged in   | Turn on switch<br><br>Check circuit breaker and wiring<br><br>Plug in the unit   |
|                 | <b>Power Switch Light is On and the Thermostat Light is OFF</b> | No power to thermostat   | Check wiring for loose, broken, or frayed connections.<br><br>Check transformer for 24v output to thermostat   |
|                 |   |  |  |

|   |   |   |   |
|---|---|---|---|
|   | <b>Power Switch Light is On and the Thermostat Light is On</b>  | Thermostat is not setup properly<br><br>Compressor not operating<br><br>Condenser air flow is blocked | Check wiring for loose, broken, or frayed connections.<br><br>Check thermostat setup in the included guide.<br><br>Press fan ON switch to manually check evaporator fan.<br><br>Wait several minutes. Compressor has a timer installed on access panel to delay start up (factory set: 5min).<br><br>Remove blockage<br><br>Clean filter and coil (if needed) |
|   | <b>High Pressure Switch Has Shut the Unit Down</b>  | Head pressure in unit is too high   | Remove any obstructions restricting air flow through the coils or filters. Restart the unit.  |
|   |   |   |   |
| <b>Temperature Control Issues:</b><br>Problems are occurring even though the unit seems to be fully operational- evaporator fan blows air into the cellar and compressor and condenser fans runs. | <b>Unit is Operating and Blows Evaporator Air, but the Supply Air is Not Colder Than the Return Air from the Cellar</b> | Thermostat not set up properly<br><br>Compressor not operating<br><br>Condenser air flow is blocked   | Check thermostat set up in the manufacturer's thermostat guide.<br><br>High pressure switch open, restart unit.<br><br>Remove blockage, clean filter and coil (if needed)   |
|   | <b>Cellar Temperature is Too Low (Below 51°) When Unit is Running</b>   | Thermostat set too low on cooling<br><br>Thermostat not controlling temperature                       | Reset thermostat to higher cooling temperature<br><br>Wiring integrity compromised (shorted), replace wiring  |
|   | <b>Cellar Temperature is Too Low (Below 51°) When Unit is Not Running</b>   | Too much heat loss to adjacent spaces   | Increase insulation around the ductwork and doorways<br><br>Add heater  |
|   | <b>Cellar Temperature is Too High, but Supply Air is Cold</b>   | Not enough evaporator air flow<br><br>Cellar loads are too high                                       | Remove blockage in supply or return ductwork<br><br>Check and clean filter and coil<br><br>Coil frozen—shut-off unit for two hours<br><br>Install additional insulation<br><br>Replace with larger unit   |
|   |   |   |   |
|   |   |   |   |



|                               |  |  |   |
|-------------------------------|--|--|---|
| <b>Cellar Humidity</b>        | <b>Humidity Too Low or Supply Air is Too Cold, Without Optional Humidifier</b> | Not enough evaporator air flow<br><br>Defective Thermal Expansion Valve    | Remove blockage in supply or return ductwork<br><br>Check and clean filter and coil<br><br>Coil frozen—shut-off unit for two hours<br><br>If under warranty, call for service<br>If not under warranty, call a refrigeration technician |
|                               | <b>Humidity Too Low Without Optional Humidifier</b>                            | No moisture being added to cellar<br><br>Defective Thermal Expansion Valve | Add CellarMate humidifier or a room humidifier<br><br>If under warranty, call for service<br>If not under warranty, call a refrigeration technician   |
|                               | <b>Humidity Too High When Unit is Running, But Not Cooling</b>                 | Compressor   | Clear blockage of condenser air flow<br><br>Ambient temperature above 95°F  |
|                               | <b>Humidity Too High When Unit is Not Running</b>                              | Unit needs to run to dehumidify  | See Unit Not Operating section of the Troubleshooting section   |
|                               | <b>Humidity Too High When Unit is Running and Cooling</b>                      | Too much evaporator air<br><br>Too much moisture in cellar                 | Add some resistance to air flow. Install a damper in the ductwork.<br><br>Poor vapor barrier installation   |
|                               |  |  |   |
|                               |  |  |   |
| <b>Miscellaneous Problems</b> | <b>Unit Operates but the Power Switch Light is Not On</b>                      | Bulb is burned out Replace bulb  | Bulb is burned out Replace bulb   |
|                               | <b>Unit is Leaking Water</b>   | Trap plugged<br><br>Condensate pan plugged<br><br>Unit not level           | Clean trap<br><br>Remove blockage and clean<br><br>Level with shims   |
|                               | <b>Unit is Running Properly, but the Sound of Unit is Objectionable</b>        | Noise is from air flow<br><br><br><br>Noise is from unit                   | Redirect air flow<br><br>Add baffles<br><br>Add insulated ductwork<br><br>Add sound baffle between unit and occupied space  |
|                               |  |  |   |

|  |   |                                    |  |
|--|---|------------------------------------|--|
|  | <b>High Pressure Switch in the Refrigeration System Switch Shuts off Unit</b> | The head pressure is above 275 psi | Restricted air flow through the condenser caused by an obstruction blocking the air flow in the ductwork or grille<br><br>Dust covering the filter<br><br>Contact a refrigeration technician |
|--|---|------------------------------------|--|

## Advanced Troubleshooting

### **IMPORTANT**

*This section is for qualified refrigeration service technicians, only. The technician should repeat the previous troubleshooting steps **before** these more technical solutions.*

| <b>PROBLEM</b>   | <b>POSSIBLE CAUSE</b>          | <b>SOLUTION</b>                     |
|--|--------------------------------|-------------------------------------|
| <b>Obstructions and Dirty Filters/Coils</b>  | Condenser fan not operating    | Repair or replace                   |
|  | Defective switch               | Replace                             |
| <b>Unit Cycles On and Off More than 8 Times/Hour</b>   | Thermostat malfunctioning      | Refer to the thermostat guide       |
|  | Low suction pressure           | Check low pressure switch           |
|  |                                | Check pressure and adjust superheat |
| <b>High Pitched or Loud Rubbing Noise, Clanking, or Vibration</b>  | Fans loose or malfunctioning   | Repair or replace                   |
|  | Excessive compressor vibration | Tighten mounting bolts              |
|  |                                | Replace                             |
| <b>Replacing the Blowers</b>   |                                |                                     |
| When replacing the fan or motor, replace the fan and motor as a unit. Do not remove the motor from the impeller wheel. |                                |                                     |

# **CellarMate Warranty**

## **General**

CellarMate LLC warrants to the original buyer its goods and all parts there of to be free from defects in material and workmanship for one year from the date of invoicing assuming NORMAL USE AND SERVICE.

## **Liability**

CellarMate LLC liability shall be limited to the repair or replacement (at its option) of any part, which, at our sole discretion, is determined to be defective. The purchaser shall pay all transportation costs. Additionally, if a malfunction occurs within 90 days from the date of invoice, CellarMate LLC will reimburse the reasonable cost of labor required for the repair or replacement provided authorization is obtained from one of our authorized representatives prior to incurring any labor charges.

## **Limitations of Liability**

THESE WARRANTIES ARE MADE IN LIEU OF ALL OTHER WARRANTIES EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND IN LEU OF ANY OTHER OBLIGATION OR LIABILITY, INCLUDING LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. CellarMate LLC will not be responsible for any costs or liability whatsoever resulting from improper installation or service of its equipment. In the event that CellarMate LLC or its distributors are found liable for damage based on any defect or nonconformity in the products, their total liability for each defective product shall not exceed the purchase price of such defective product. No person or representative is authorized to change these warranties or assume any other obligations or liabilities for CellarMate LLC in connection with the sale of its systems.

## **Indemnification**

Purchaser agrees to indemnify, hold harmless and defend seller and its officers, directors, agents, and employees from and against any and all claims, liabilities, costs and expenses arising out of or related to Purchaser's use of the goods, or in any way involving injury to person or property or accident occasioned by the goods sold by CellarMate LLC to Purchaser.

## **Foreign Government and Indian Nations**

If Purchaser is a foreign government or an Indian nation, Purchaser hereby expressly waives its defense of sovereign immunity in the event of a dispute between Purchaser and CellarMate LLC regarding this invoice and Purchaser expressly acquiesces to the jurisdiction of the federal and state courts of the United State.

## **Severability**

If one or more of the provisions contained in this contract shall for any reason be held to be invalid, illegal, or unenforceable in any respect, such invalidity, illegality, or unenforceability shall not affect any other provision of this contract, but this contract shall be construed as if such invalid, illegal, or unenforceable provision had never been contained.

## **Additional Requirements**

If a defect covered by the Warranty occurs, contact CellarMate LLC for authorization to proceed with corrective action. Do not return any parts or incur any charges for which you expect to be reimbursed under this Warranty without receiving this authorization. If parts are replaced under this Warranty, the defective parts must be returned prepaid within 30 days. This Warranty shall be null and void in its entirety if the Serial Number on the air conditioner or compressor is altered, removed, or defaced.