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# **Wine Cooling System**

WM-1500HZD, WM-2500HZD WM-3500HZD, WM-4500HZD WM-6500HZD, WM-8500HZD

Installation, Use & Care Manual







Read and save these instructions

## **Important Safety Information**

#### NOTES:

- Do not plug in until 24 hours after delivery.
- Do not use a ground fault interrupter (GFI).
- A dedicated 20 AMP circuit for WM-1500~2500HZD and 30 AMP for WM-3500~8500HZD are required.

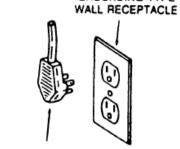
# **A** WARNING



# To avoid the risk of electrical shock, property damage, personal injury or death:

- The power cord must be plugged into a 3-prong grounding-type wall receptacle, grounded in accordance with the National Electrical Code, ANSI/NFPA 70 - latest edition and local codes and ordinances.
- It is the personal responsibility of the consumer to have a proper 3-prong wall receptacle installed by a qualified electrician.

  GROUNDING TYPE
- DO NOT, UNDER ANY CIRCUMSTANCES, REMOVE THE POWER CORD GROUNDING PRONG.
- A separate adequately fused and grounded circuit should be available for this appliance.
- Do not remove any grounding wires from individual components while servicing, unless the component is to be removed and replaced. It is extremely important to replace all grounding wires when components are replaced.



POWER SUPPLY CORD WITH 3-PRONG GROUNDING PLUG

## WARNING



#### **ELECTRIC SHOCK HAZARD**

Disconnect electric supply from appliance before servicing.

Replace all panels before operating.

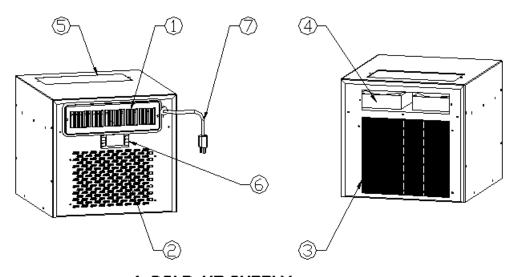
Failure to do so could result in death or electrical shock.

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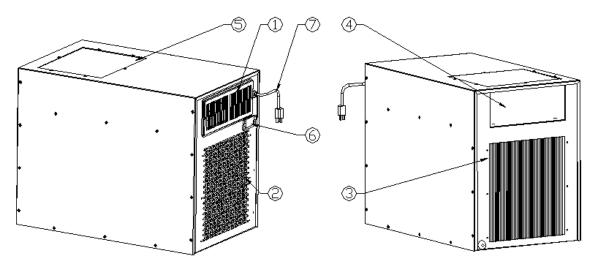
## **Features and Specifications**

- HZD series cooling units are designed and used to provide a stable temperature between 50~65 °F for a properly insulated space.
- The refrigerated space will maintain humidity ranges within 50~70% RH.
- These temperature and humidity ranges are optimized for long term storage of wine.
- Temperature is controlled and humidity is adjusted using patented technology.
- Horizontal cold-air supply is optimized for use in the wide cabinets or wine rooms.
- The unit is self-contained ready for easy installation and use.



- 1. COLD-AIR SUPPLY
- 2. CELLAR-AIR RETURN
- 3. AMBIENT-AIR INTAKE
- 4. HOT-AIR REAR EXHAUST
- 5. HOT-AIR TOP EXHAUST (OPTION)
- 6. DIGITAL CONTROLLER
- 7. POWER CORD

Fig. 1.1 WM-1500~2500HZD FEATURE DESCRIPTIONS



- 1. COLD-AIR SUPPLY
- 2. CELLAR-AIR RETURN
- 3. AMBIENT-AIR INTAKE
- 4. HOT-AIR REAR EXHAUST
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Fig. 1.2 WM-3500~8500HZD FEATURE DESCRIPTIONS

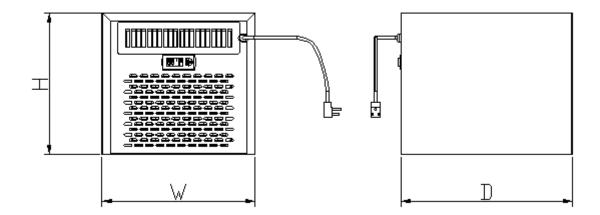


Fig. 1.3 WM-1500~2500HZD DIMENSIONS

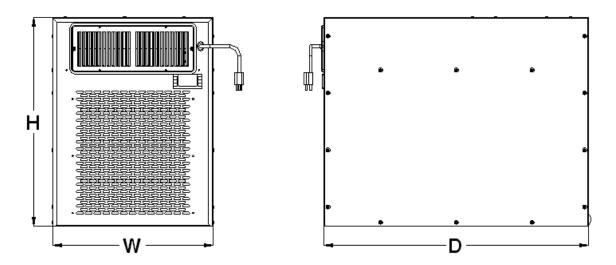


Fig. 1.4 WM-3500~8500HZD DIMENSIONS

The specifications and dimensions are listed as follows:

Model	CFM	Cellar Size (cu ft)	Dimensions W"XD"XH"	Electrical	Weight (lb)
WM-1500HZD	120	90	14.25X16X13.25	115V/60HZ/4A	50
WM-2500HZD	180	200	14.25X16X13.25	115V/60HZ/5A	55
WM-3500HZD	250	650	14.25X21.25X19.75	115V/60Hz/6A	75
WM-4500HZD	250	1000	14.25X21.25X19.75	115V/60Hz/9A	75
WM-6500HZD	500	1500	17X28X22	115V/60Hz/14A	110
WM-8500HZD	500	2000	17X28X22	115V/60Hz/16A	110

#### NOTES:

- Also see the voltage, frequency and current specified on the label at the cooling unit.
- The rated capacity is determined under the cellar and ambient temperatures of 55°F and 75°F with R13 interior and R19 exterior insulations. Any lower cellar temperature, higher ambient temperature and less insulation will cause reducing capacity and may not maintain 55°F.
- The ambient temperatures for WM-1500HZD shall not be higher than 78°F or lower than 50°F in order to operate properly.
- The ambient temperatures for WM-2500HZD shall not be higher than 95°F or lower than 50°F in order to operate properly.
- The ambient temperatures for WM-3500~8500HZD shall not be higher than 95°F or lower than 50°F in order to operate properly.

#### Installation Instructions

## WARNING



Always check wiring harness connections before initiating any test procedures.

Disconnect electric power from the appliance before performing any maintenance or repairs.

Voltage checks should be made by inserting meter probes beside the wires in the connector blocks with the electric power source on and the connector block plugged in.

Resistance checks should be made on components with the electric power off and the connector block disconnected.

#### NOTES:

- Mounting brackets, screws, gaskets and other seal materials are not included.
- Do not install any ducts onto the supply, return, intake and exhaust.
- Because of potential safety hazards under a certain condition we strongly recommend against the use of an extension cord. However, if you still select to use an extension cord, it is absolutely necessary that it is a UL LISTED 3-wire grounding type appliance extension cord having a 3-blade grounding plug and a 3-slot receptacle that will plug into the appliance. The marked rating of the extension cord shall be 115 V, 15 A or equivalent for WM-1500~2500HZD and 115 V, 20 A or equivalent for WM-3500~8500HZD and not greater than 15ft in length.

#### 1. General Instructions

- The cooling unit produces cooling supplied into the cellar, meanwhile it also generates heat that must be exhausted outside the cellar. So the cold- air supply with return-air intake side and the hot-air exhaust with ambient-air intake side must be separated and sealed. Through-wall installations can separate these two sides.
- Furthermore, the condenser of cooling unit must intake adequate fresh ambient-air to work properly. The ambient-air intake and hot-air exhaust must not be short-circulated. Both of them must remain unobstructed 36" clearance all around. The area into which the hot air is exhausted must be well ventilated. If it is not, heat generated by the unit will build up and the unit will not operate properly.
- Additionally, cold-air supply from the front grille must remain unobstructed 36" clearance.
- The ambient temperatures shall not be above and below what are specified.

#### 2. WM-1500~2500HZD cabinet installation

- Cut a rectangular inside opening with the 1/4" clearance inwards to the width and height of the cooling unit. By not going through, leave 1/2" lip inside at the wall to place the gaskets (see Fig 2.1).
- If top exhaust installation, cut another rectangular opening at the top of the cabinet to the length and width of the top exhaust.
- Install 2 pieces of 1/4" ID wood thread inserts at the ceiling (see Fig.2.1 & 2.2).
- Place the gaskets (1/2" foam tape) on the mounting lip sides (see Fig 2.3).
- If top exhaust installation, place another gaskets along the top exhaust at the top of the cooling unit (see Fig.2.4).
- Move the cooling unit towards the mounting sides and push to press the gaskets (see Fig 2.5).
- Use 2 brackets and ¼" screws with 7/16" wrench to secure the cooling unit (see Fig 2.6).
- Install the cabinet grille on the cabinet exterior wall (see Fig. 2.7).
- Plug the cooling unit in the cabinet receptacle.
- Plug the wine cabinet.

# 10" 12.5" 13.5" 14.5" GASKET LIP

#### HOLES FOR THREAD INSERT, 16,75" TO REAR WALL OUTSIDE

Fig. 2.1 CABINET CUTOUT & GASKET LIP

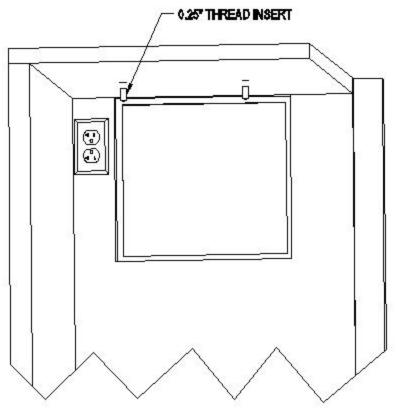


Fig. 2.2 THREAD INSERT

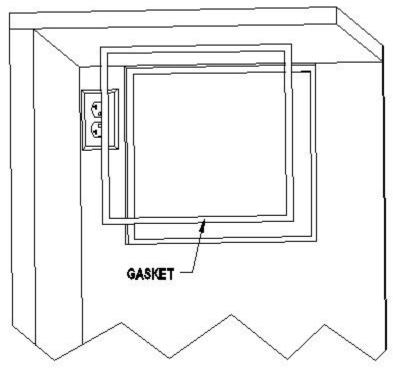


Fig. 2.3 REAR GASKET

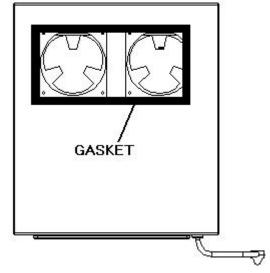


Fig. 2.4 TOP EXHAUST GASKET

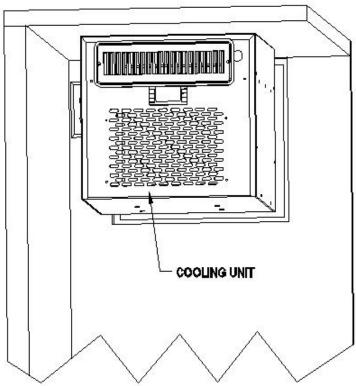


Fig. 2.5 COOLING UNIT MOUNTING

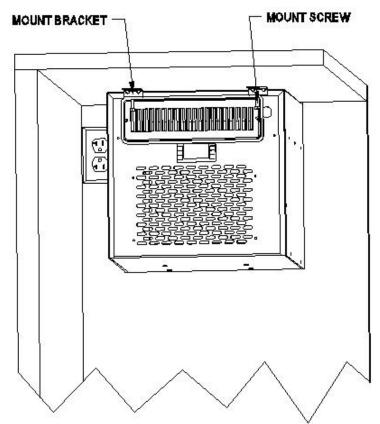


Fig. 2.6 SECURING BRACKET & SCREW

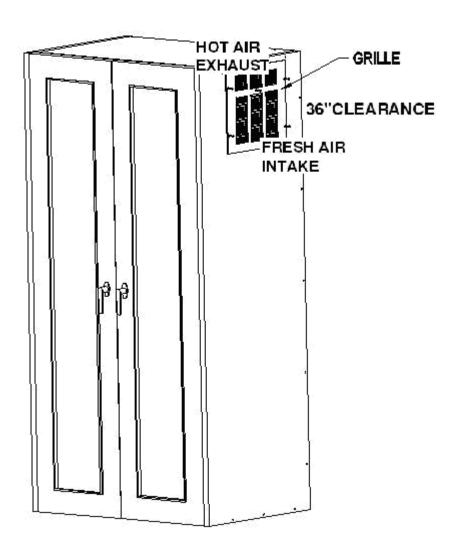


Fig. 2.7 CABINET GRILLE

#### 3. WM-3500~8500HZD through-wall installation

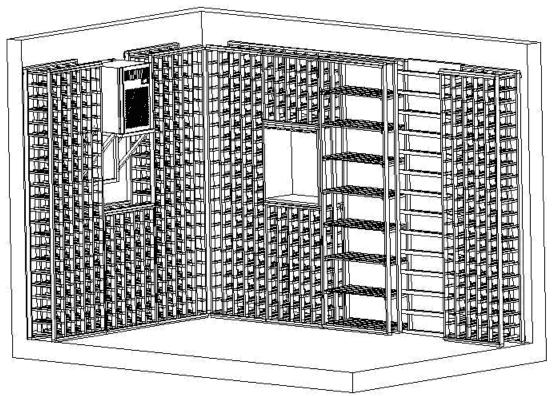


Fig. 2.8 THROUGH- WALL INSTALLATION

- The cooling unit shall be mounted near the ceiling with equal distance from each side of the room.
- Cut a rectangular opening at the wine room wall as illustrated. The dimensions of the opening shall be 1/4" larger than the width and height of the cooling unit.
- If top exhaust installation, cut another rectangular opening at the top of the room to the length and width of the top exhaust.
- Construct a shelf as shown. The shelf must be capable of supporting the weight of the cooling unit and preventing it from moving.
- Place the cooling unit on the shelf with the back of the unit flush with the outside of the wall.
- Seal the clearance between the cooling unit and opening with a high quality weather stripping, polyurethane spray foam, or foam tape. Cover the seal with molding and attach the molding to the wall not the unit.
- If top exhaust installation, place another gaskets along the top exhaust at the top of the cooling unit.
- Install a wall grille on the room exterior wall.
- Plug the unit into a properly grounded and dedicated outlet of adequate capacity.

NOTE: The cooling unit can be installed with the front of the unit flush with the inside of the wall. Construct a shelf outside the room accordingly.

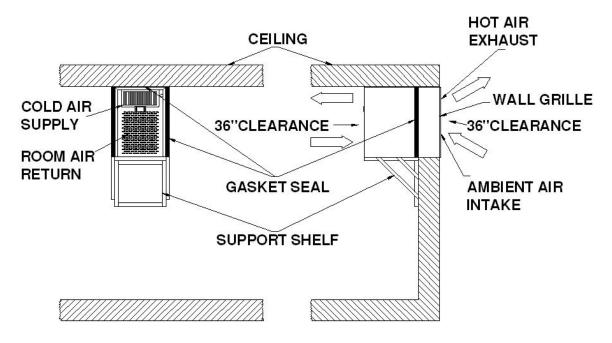


Fig. 2.9 THROUGH-WALL INSTALLATION (OUTSIDE WALL FLUSH)

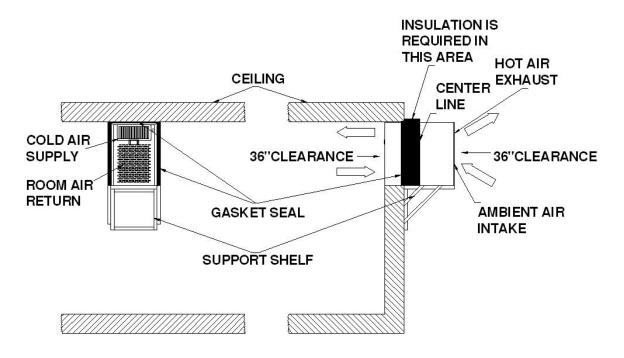


Fig. 2.10 THROUGH-WALL INSTALLATION (INSIDE WALL FLUSH)

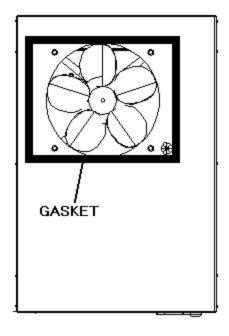


Fig. 2.11 TOP EXHAUST GASKET

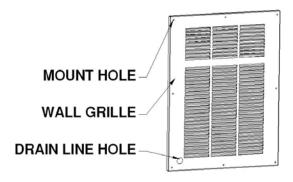


Fig. 2.12 WALL GRILLE

#### 4. Cellar Construction

This is only a guide and shall be considered as minimum requirements.

All interior walls and floors shall have a vapor barrier and a minimum of R13 insulation. All exterior walls and ceiling shall have a vapor barrier and a minimum of R19 insulation. The vapor barrier shall be installed on the warm side of the insulation. All joints, door frames, electrical outlets or switches and any pipes or vents that go through the cellar shall be sealed to prevent air and moisture leakage into the cellar. Concrete, rock, and brick are not insulation or vapor barriers.

Doors shall be of a minimum size, insulated to at least R13 and tightly sealed with high quality weather stripping. Be sure to seal the bottom of the door and fill gap between the door's frame and wall before installing the cap molding. In order to maintain 55 °F in the wine cellar, the ambient temperature surrounding the enclosure shall not exceed the temperature of the cellar by more than 25 °F. No cellar wall shall receive direct sun or strong wind.

Lighting shall be of low wattage, with a timer to insure lights are not left on when the cellar is not occupied.

The cooling system will not be able to maintain the proper temperature if fresh moisture-laden air is constantly being introduced to the cellar. Symptoms of this condition are; cooling unit runs all the time with only a slight reduction in temperature and/or water overflows from the unit. Because of the temperature difference between the inside and outside, very small cracks can allow large amounts of outside air to enter into the cellar. Please be aware that moisture can pass through solid concrete, paint and wood. Often a newly constructed cellar contains fresh wood, paint, concrete and other building materials. These materials contain large amounts of moisture. When placed into operation in this type of environment, the system will work harder to remove this extra moisture resulting in increased "run" time.

## **Temperature and Humidity**

#### 1. The controller



Fig. 3.1 TEMPERATURE CONTROLLER

#### 1) Keys

**SET:** To display set-point; in programming mode it selects a parameter or confirms an operation.

To start a manual defrost.

♠: To see the maximum stored temperature; in programming mode it browses the parameter codes or increases the displayed value.

▼: To see the minimum stored temperature; in programming mode it browses the parameter codes or decreases the displayed value.

**①**: To turn on/off the power to the unit.

△+♥: To lock/unlock the keypad.

**SET+** ♥: To enter in the programming mode. **SET+** ♠: To return to the temperature display.

## 2) Lock and unlock the keys

To lock the keys, press up + down keys △+♥ until POF is displayed; to unlock the keys, press up + down keys △+♥ until PON is displayed.

## 3) Display

During normal operating conditions, the display shows the value measured by the air temperature probe. In case of active alarm, the temperature flashes alternately to the code alarm. The LED functions are listed as follows.

LED	MODE	FUNCTION		
*	ON	Compressor enabled		
*	Flashing	Anti-short cycle enabled		
*	ON	Defrost cycle enabled		
*	ON	Fan enabled		
*	Flashing	Fan delay after defrost enabled		
(1)	ON	Alarm occurring		
°C/°F	ON	Temperature measuring unit		
°C/°F	Flashing	Programming mode		

#### 4) Alarm Signals

The alarm codes are described as follows.

MESSAGE	CAUSE	JSE FUNCTION	
P1	Temperature probe faulty	Compressor switching to Con and CoF	
HA	High temperature alarm	Probe temperature ALU higher than the setting temperature; Outputs unchanged	
LA	Low temperature alarm	Probe temperature ALL lower than the setting temperature; Outputs unchanged	
CA	External alarm All outputs off		

Probe alarms P1", start a few seconds after the fault in the related probe; they automatically stop a few seconds after the probe restarts normal operation. Check connections before replacing the probe. Temperature alarms "HA", "LA" automatically stops as soon as the temperature returns to normal value. Alarm "CA" (with i1F=PAL) recovers only by switching off and on the instrument.

#### 2. Temperature Setting

- Set the temperature at 55 °F for the optimum aging of wine
- On initial start-up, the time required to reach the desired temperature will vary, depending on the quantity of bottles, temperature setting and surrounding temperature.
- Allow 24 hours to stabilize the temperature for each new temperature setting operation

#### 3. How to see temperature set-point

- 1) Press and immediately release the **SET** key, the display will show the set-point value.
- 2) Press again and immediately release the **SET** key to display the probe value.

#### 4. How to change the set-point

- 1) Press and hold the **SET** key until the "°C" or "°F" LED starts flashing and the set-point is displayed.
- Press the up/down keys △/♥ to change the set-point value within 10 sec.
- 3) Press the **SET** key again to store the new set-point value.

**NOTE**: The unit turns on at set-point **Set** plus regulation differential **Hy** after antishort cycle **AC** has elapsed; the unit turns off at set-point **Set**.

#### 5. Manual Defrost

Press and hold the defrost key until defrost starts. The defrost indicator will be on.

#### 6. Parameter Programming

- 1) Press and hold the **SET** +♥ keys until the "°C" or "°F" LED starts flashing, then release the keys.
- 2) Press and hold again the **SET** + weys until the **Pr2** label is displayed, then release the keys. The first parameter **Hy** will be displayed.
- 3) Press up/down keys △/♥ to scroll to the required parameter within 10 sec.
- 4) Press the "**SET**" key to display its value.
- 5) Use up/down keys → v to change its value within 10 sec.
- 6) Press "SET" to store the new value and the display will flash 3 times.
- 7) To exit: Press SET + A or wait 15sec without pressing a key.

PARAMETER	DESCRIPTION	DEFAULT VALUE	
Set	set-point (°)	55	
Ну	temperature regulation differential (°)	4	
AC	anti-short cycle delay (min)	10	
Con	compress on with probe faulty (min)	15	
CoF	compress off with probe faulty (min)	30	
CF	temperature unit (°F/ °C)	F: Fahrenheit	
rES	display resolution	in: integer	
dLy	temperature display delay (min)	1	
ot	probe calibration (°)	0	
LS	minimum set-point (°)	50	
US	maximum set-point (°)	65	
idF	defrost cycle interval time (hour)	12	
MdF	defrost cycle endurance time (min)	30	
ALC	temperature alarm type	rE: relative to set-point	
ALU	high temperature alarm (°)	10	
ALL	low temperature alarm (°)	10	
AFH	alarm recovery differential (°)	5	
ALd	temperature alarm delay (min)	60	
dAO	temperature alarm delay on startup (hr)	23	
SAA	heater set-point (°)	40	
SHy	heater regulation differential (°)	4	
FSU	fan action	Std	
FnC	fan operating mode	C-n: on with compressor & off during defrost	
Fon	fan on with compressor off (min)	0	
FoF	fan off with compressor off (min)	15	

**NOTE**: Depending on the controller, not all parameters are used.

#### 7. How to calibrate the air probe

If the actual cellar temperature differs from the setting temperature, set parameter **ot** = actual cellar temperature minus set-point.

#### 8. How to adjust defrost cycle

In case there is excessive frost, the parameters **FnC** = C-y, **idF** = **4** and **MdF** = 20 can be used to avoid frost.

#### 9. How to adjust the humidity

The parameter **Fon** is used to adjust the humidity in the wine cellar. Higher **Fon** results in higher relative humidity. Use a separate hygrometer to monitor the humidity.

#### 10. How to set alarm call

- 1) Speech notice will be sent to your phones when the cellar temperature is **ALU** higher or **ALL** lower than the set-point **Set**.
- 2) In order to test the call function, set parameters Ald = 0 and dAO = 0. After testing, set Ald = 60 and dAO = 23.

#### 11. How to set low cellar temperature heater

The heater turns on at **SAA** minus **Shy**; the heater turns off at **SAA**. **NOTES:** 

- Use a forced air heater to warm up the wine cellar.
- If there is a thermostat on the heater, bypass it or set the thermostat at the highest level.

If the heater runs more than 10 A current, use a 120VAC coil contactor.

## **Care Guide**





#### **ELECTRIC SHOCK HAZARD**

Disconnect the electrical power before servicing any components. Failure to do so can result in death or electrical shock.

#### 1. Cleaning Condenser

- Clean the condenser regularly at least every 6 months.
- Condenser is located on the ambient air intake side of the cooling unit.
- Use a condenser brush or a vacuum cleaner with an extended attachment to clean the condenser.

#### 2. Removing Condensate

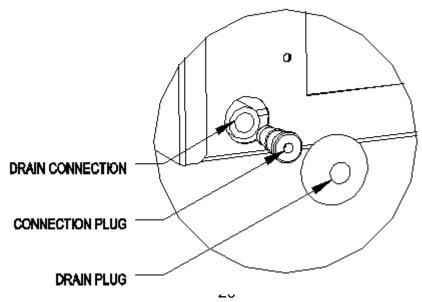
Remove the excessive condensate if it is accumulated on the cooling unit in high humidity conditions.

#### 3. Removing Unit

When you remove the cooling unit, beware water may come out of the unit.

### 4. Installing Drain Line

WM-3500~8500HZD units are equipped with an additional drain fitting. In case of extreme humidity there is a drain line needed, remove the drain plug on the bottom left at the rear, then remove the connection plug and fit a 0.375" OD drain tube into the drain connection. Install the cooling unit with the front higher than the



# **Troubleshooting**

This Troubleshooting Chart is not prepared to replace the training required for a professional refrigeration service person, not is it comprehensive

Complaint	Possible Causes	Response
1. Unit not running  2. Unit not	a. Power cord not plugged b. No power from supply c. Incorrect or loose wirings d. Low voltage e. Setting higher than ambient temperature f. Cut-in too high g. Defrost light blinking h. Compressor light blinking i. Defective controller a. Anti-short cycle	<ul> <li>a. Check power cord</li> <li>b. Check receptacle and fuses</li> <li>c. Check all wirings and connections</li> <li>d. Contact an authorized electrician</li> </ul>
starting , but temperature rising high		
3. Temperature fluctuating	a. Air probe	a. When using an air probe, the wine bottle temperature is mainly controlled by the average air temperature. If the set-point is 55°F with the differential 4F, the cooling unit turns on at 59°F of air temperature (It may be higher than 59°F if it is in anti-short cycle or defrost cycle) and turns off at 55°F of air temperature. The average air temperature is 57°F, and then the wine temperature is around 57+/-0.5°F. The air is light enough to change so quickly that it maintains relatively constant average temperature that would prevent wine bottle temperature from fluctuating.
4. Temperature high, unit stopping and starting normally	a. Temperature setting high	a. Lower the setting
5. Temperature high, unit stopping and starting with short running time	a. Air probe touching the evaporator coil, displaying temperature ok     b. Short circuit of air flow between cold-air supply and cellar-air return, displaying temperature ok	b. Deflect the supply air down
6. Temperature	c. Failed controller and probe a. Improper cellar insulation & seal	c. Call service for diagnosis a. Check insulation, gasket and door

high or not		opening
high or not	b. Cellar too large	b. Check for excessive size
cooling and	c. Ambient temperature too high	c. Check installation location
running	d. Exhaust restricted	d. Leave minimum 3 feet clearance for
continually		the hot air exhaust side and leave
		minimum 1 foot clearance for the
		fresh air intake side
	e. Malfunctioning fans	e. Check for both evaporator and
		condenser fans
	f. Evaporator or condenser airflow	f. Check for air restrictions, air short-
	a. District Consideration	circulation, grille directions
	<ul><li>g. Dirty Condenser</li><li>h. Iced evaporator</li></ul>	<ul><li>g. Clean condenser</li><li>h. Defrost and reset temperature</li></ul>
	i. Refrigeration system restriction	i. Call service
	j. Refrigerant leak	j. Call service
	k. Undercharge or overcharge	k. Call service
	I. Failed components	I. Check compressor windings, start
	,	relay and overload protector
7. Unit running	a. Improper cellar insulation & seal	a. Check insulation, gasket and door
too long		opening
100 1011.9	b. Cellar too large	b. Check for excessive size
	c. Ambient temperature higher >	c. Check for installation location
	90°F	de la compania del compania del compania de la compania del compania de la compania de la compania del c
	d. Exhaust restricted	d. Leave minimum 3 feet clearance for
		the hot air exhaust side and leave
		minimum 1 foot clearance for the fresh air intake side
	B'at Oak lands	e. Clean condenser
	e. Dirty Condenser f. Improper condenser air flow	f. Check for fan and air short
	f. Improper condenser air flow	circulation
8. Fan motor	a. Post-compressor fan running	a. Check fan running time FON
running but	mode	
compressor	<ul> <li>b. Incorrect or loose wirings</li> </ul>	b. Check all wirings and connections
not running	c. Failed components	c. Check start relay, start capacitor,
not running	al limital references to the	overload protector, compressor.
	d. Liquid refrigerant in the	d. Call service.
9. Compressor	compressor a. Fan blade stuck	a. Check for proper clearance
	b. Incorrect or loose wirings	b. Check all wirings
running but	c. Failed motors	c. Call service
fan not		
running	E 3 1	
10.Temperature	a. Failed components	a. Check compressor windings, start
high,	b. Improper condenser airflow	relay and overload protector. b. Check for condenser fan
compressor	c. Dirty condenser	c. Clean condenser
stopping	d. Overcharge of refrigerant	d. Call service for removing refrigerant
and starting	e. Discharge or suction pressure	e. Call service for information
but very	too high	
short		
running time		
11.Fan running	a. Post-compressor fan running	a. Reset FON
_	mode for humidity modulation	
too long	a. Low temperature setting	a. Raise the setting
12.Temperature	a. Low temperature setting	a. Ivaise the setting

low	. Low ambient tempera	ature b. Move to another location
	. Air probe fault	c. Change a new one
	. Temperature controlle	er fault d. Change a new one
13.Evaporator	. Evaporator air flow re	
freezing up	. Low temperature sett	ing b. Check for set-point
nccznig up	. Low ambient tempera	ture c. Change defrost cycle
	. Defective controller o	r probe d. Check for controller and probe
	. Not stopping due to a	air leak, high e. Check for seal, door opening,
	ambient temperature	
	air flow restriction of	or pull-down air flow
	cooling	
	Initially working the	
	moisture in the syster	
	. Refrigerant low or lea	
	. Capillary tube or expansion	ansion valve h. Call service
	blockage	
14.Water leak	. Air leak in the wine co	<u> </u>
	excessive condensate	
	. High humidity causin	g excessive b. Use drain line
	condensate	otriction Check cumply oir flow or oir TD
	. Evaporator air flow re	
	<ul><li>Water passages restr</li><li>Drip tray leak (No wa</li></ul>	
	but water leak)	der overnow e. Sear the leak using sincone searant
15.Excessive	. Air leak in the wine co	ellar causing a. Check for any air leak
	excessive condensate	
condensate	. High humidity causing	
in wine	condensate	is cooding in the
cellar	. Water passages restr	c. Clean the drip tray
16.Circuit	. Incorrect fuse or brea	
tripping	. Incorrect wirings	b. Check for wirings and connections
пірріпу	. Failed components	c. Call service
17.Noisy	. Mounting area not fir	m a. Add support to improve installation
operation	. Loose parts	b. Check fan blades, bearings,
oporation		washers, tubing contact and loose
		screws.
	<ul> <li>Compressor overloa</li> </ul>	
	high ambient temp	peratures or
	airflow restriction	
	<ol> <li>Defective componen</li> </ol>	
		loose, inadequate lubrication and
		incorrect wirings

# **Electrical Wiring Diagrams**

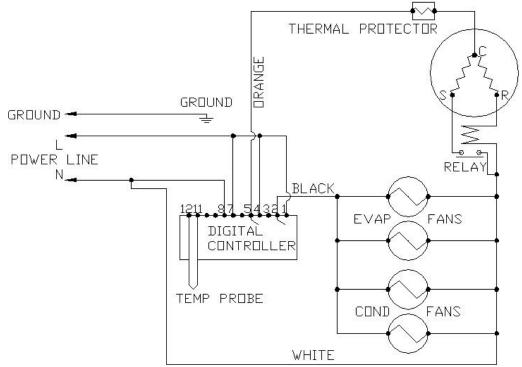


Fig. 6.1 WM-1500~2500HZD WIRING DIAGRAM

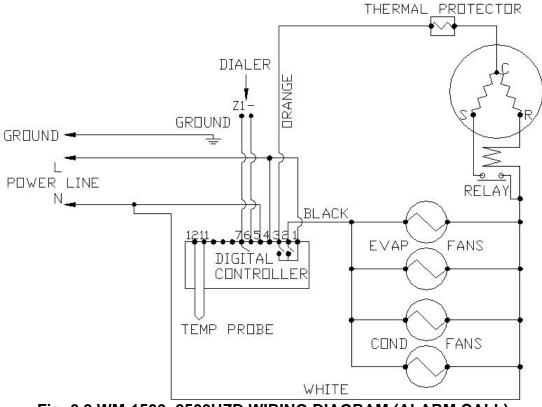


Fig. 6.2 WM-1500~2500HZD WIRING DIAGRAM (ALARM CALL)

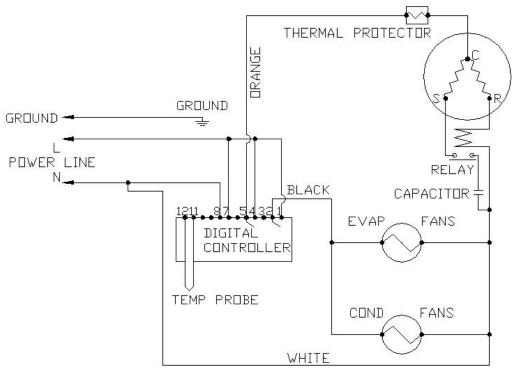


Fig. 6.3 WM-3500~8500HZD WIRING DIAGRAM

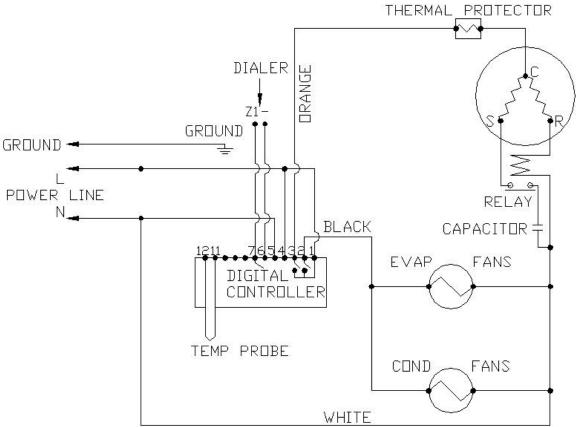


Fig. 6.4 WM-3500~8500HZD WIRING DIAGRAM (ALARM CALL)

# **Customer Support**

If you need further assistance, please contact us at:

Vinotemp International 17631 South Susana Road Rancho Dominguez, CA 90221

Tel: (310) 886-3332 Fax: (310) 886-3310

Email: info@vinotemp.com

## Warranty

## Thank you for choosing a Vinotemp cooling unit.

Please enter the complete model and serial numbers in the space provided:

Model		
Serial No.		

Attach your purchase receipt to this owner's manual.

#### 1. Limited Warranty

VINOTEMP warrants its products to be free from defects due to workmanship or materials under normal use and service, for twelve months after the initial sale. If the product is defective due to workmanship or materials, is removed within twelve months of the initial sale and is returned to VINOTEMP, in the original shipping carton, shipping prepaid, VINOTEMP will at its option, repair or replace the product free of charge. Additionally VINOTEMP warrants all parts to be free from defects for a period of sixty months after initial sale.

This warranty constitutes the entire warranty of the VINOTEMP with respect to its products and is in lieu of all other warranties, express or implied, including any of fitness for a particular purpose. In no event shall VINOTEMP be responsible for any consequential damages what is so ever. Any modification or unauthorized repair of VINOTEMP products shall void this warranty.

#### **Service under Warranty**

This service is provided to customers within the continental UNITED STATES only. VINOTEMP cooling units are warranted to produce the stated number of BTU/H. While every effort has been made to provide accurate guidelines, VINOTEMP can not warranty its units to cool a particular enclosure.

In case of failure, VINOTEMP cooling units must be repaired by the factory or its authorized agent. Repairs or modifications made by anyone else will void the warranty.

Shall a VINOTEMP cooling unit fail, contact the dealer for instructions, do not return the unit to the factory without authorization from VINOTEMP. If the unit requires repair, re-pack it in the original shipping carton and return it to the factory, shipping prepaid. VINOTEMP will not accept COD shipments. If the unit

is determined to be faulty and is within the twelve month warranty period VINOTEMP will, at its discretion, repair or replace the unit and return it free of charge to the original retail customer. If the unit is found to be in good working order, or beyond the initial twelve month period, it will be returned freight collect.

#### 2. Limitation of Implied Warranty

VINOTEMP'S SOLE LIABILITY FOR ANY DEFECTIVE PRODUCT IS LIMITED TO, AT OUR OPTION, REPAIRING OR REPLACING OF UNIT.

#### VINOTEMP SHALL NOT BE LIABLE FOR:

DAMAGE TO OTHER PROPERTY CAUSED BY ANY DEFECTS IN THE UNIT, DAMAGES BASED UPON INCONVENIENCE, LOSS OF USE OF THE UNIT, LOSS OF TIME OR COMMERCIAL LOSS, ANY OUTER DAMAGES, WHETHER INCIDENTAL, CONSEQUENTIAL OR OTHERWISE.

THIS WARRANTY IS EXCLUSIBE AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR INPLIED, INCLUDING BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

While great effort has been made to provide accurate guidelines VINOTEMP cannot warrant its units to properly cool a particular enclosure. Customers are cautioned that enclosure construction, unit location and many other factors can affect the operation and performance of the unit. There for suitability of the unit for a specific enclosure or application must be determined by the customer and cannot be warranted by VINOTEMP.