

Vinotemp®

WINE-MATE Cooling Unit

Use & Care Manual

VINO1500HZD

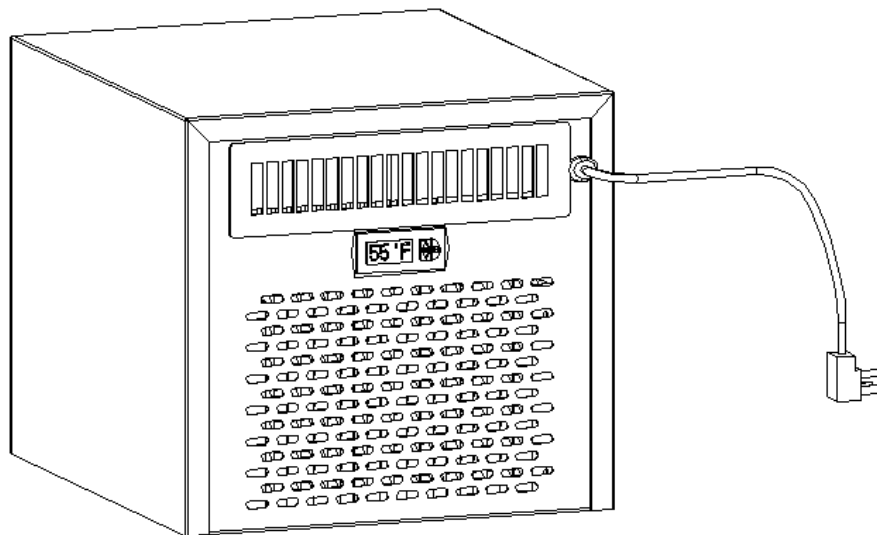
VINO2500HZD

VINO3500HZD

VINO4500HZD

VINO6500HZD

VINO8500HZD



Vinotemp International Corp.

www.vinotemp.com

www.winemate.com

READ AND SAVE THESE INSTRUCTIONS

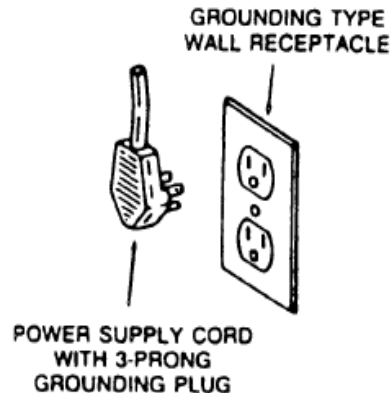
Important Safety Information

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.
- **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.*



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.

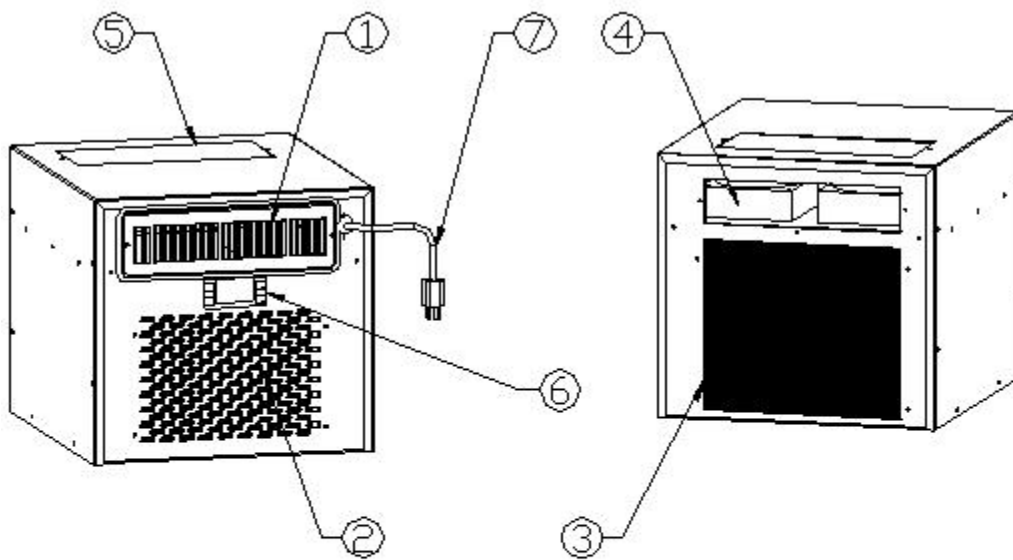
- **DO NOT PLUG IN UNTIL 24 HOURS AFTER DELIVERY.**
- **DO NOT USE A GROUND FAULT INTERRUPTER (GFI).**
- **A DEDICATED 20 OR 30 AMP CIRCUIT IS REQUIRED (1500-4500HZD OR 6500-8500HZD).**

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Features and Specifications

- HZD cooling unit is designed and used to provide a stable temperature between 50~65 °F for suitable space at a normal environment.
- The refrigerated space will maintain humidity of 50~70% RH even when the environment becomes dry and humid.
- These temperatures and humidities are optimized for long term storage of wine, fur and tobacco.
- Horizontal cold-air supply is optimized for use in the wide cabinets or wine rooms.
- Self-contained ready for use and easy for installation



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

Fig. 1.1 FEATURE DESCRIPTIONS

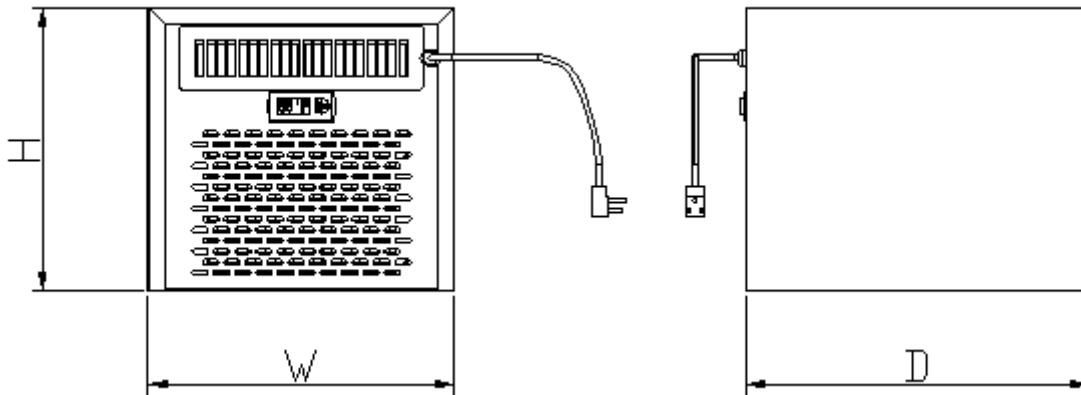


Fig. 1.2 DIMENSIONS



The dimension and capacity are specified as follows:

MODEL	CFM	CAPACITY cu ft (55°F/75°F)	DIMENSIONS W"XD"XH"	ELECTRICAL	WEIGHT (lb)
VINO-1500HZD	120	90	14.25X16X13.25	115V/60HZ/4A	50
VINO-2500HZD	180	200	14.25X16X13.25	115V/60HZ/5A	55
VINO-3500HZD	250	650	14.25X21.25 X19.75	115V/60Hz/6A	75
VINO-4500HZD	250	1000	14.25X21.25 X19.75	115V/60Hz/9A	75
VINO-6500HZD	500	1500	17X28 X22	115V/60Hz/14A	110
VINO-8500HZD	500	2000	17X28 X22	115V/60Hz/16A	110

NOTES:

- See the voltage, frequency and current specified on the label at the cooling unit.
- Capacity is determined under the cabinet and ambient temperatures of 55°F and 75°F with R11 interior and R19 exterior insulations. Any lower cabinet and higher ambient temperatures will reduce the capacity.

Installation Instruction

 WARNING	
	<p>Always check wiring harness connections before initiating any test procedures.</p> <p>Disconnect electric power from the appliance before performing any maintenance or repairs.</p> <p>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.</p> <p>Resistance checks should be made on components with the electric power off and the connector block disconnected.</p>

Select a place to mount the unit where the exhaust airflow is unobstructed for a minimum of 6 inch. The area into which the unit exhausts must be well ventilated. If it is not, heat exhausted by the unit will build up and the unit will not operate properly. The ambient temperatures shall not be higher than 78°F for a VINO-1500HZD unit and 95°F for the other units or lower than 50 °F. Additionally, cold supply air from the front grille must remain unobstructed. The unit shall be mounted near the ceiling with equal distance from each side of the cabinet or room.

The cooling unit produces cooling supplied into the cabinet, and it also generates heat that must be exhausted outside the cabinet. So the cold supply side and hot exhaust side must be separated and sealed. Foam tape may be used to seal them. The cooling unit must intake adequate fresh ambient-air to work properly. The ambient-air intake and warm-air exhaust must not be short-circulated. A piece of wood may be used to separate them.

NOTES:

- 1) **DO NOT INSTALL ANY DUCTS ONTO THE SUPPLY, RETURN, INTAKE AND EXHAUST.**
- 2) **MOUNTING BRACKETS, SCREWS, GASKETS AND OTHER SEAL MATERIALS ARE NOT INCLUDED.**

1. VINO1500-2500HZD 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 & 2.2).
- If top exhaust, cut another rectangular opening at the top of the cabinet to the length and width of the top exhaust.
- Make 2 holes at the ceiling to install the 1/4 inside diameter wood thread inserts (see Fig.2.1 & 2.4).
- Place the gaskets (1/2" foam tape) on the mounting lip sides (see Fig 2.2).

- If top exhaust, place another gaskets along the top exhaust at the top of the cooling unit (see Fig.2.3).
- Move the cooling unit towards the mounting sides and push to press the gaskets (see Fig 2.5).
- Fasten the 2 brackets and use 7/16" wrench to tighten the two ¼" screws (see Fig 2.6).
- Attach the exhaust and fresh air grille from the rear side of the cellar (see Fig 2.7).
- Plug the cooling unit in receptacle.
- Plug the wine cellar.

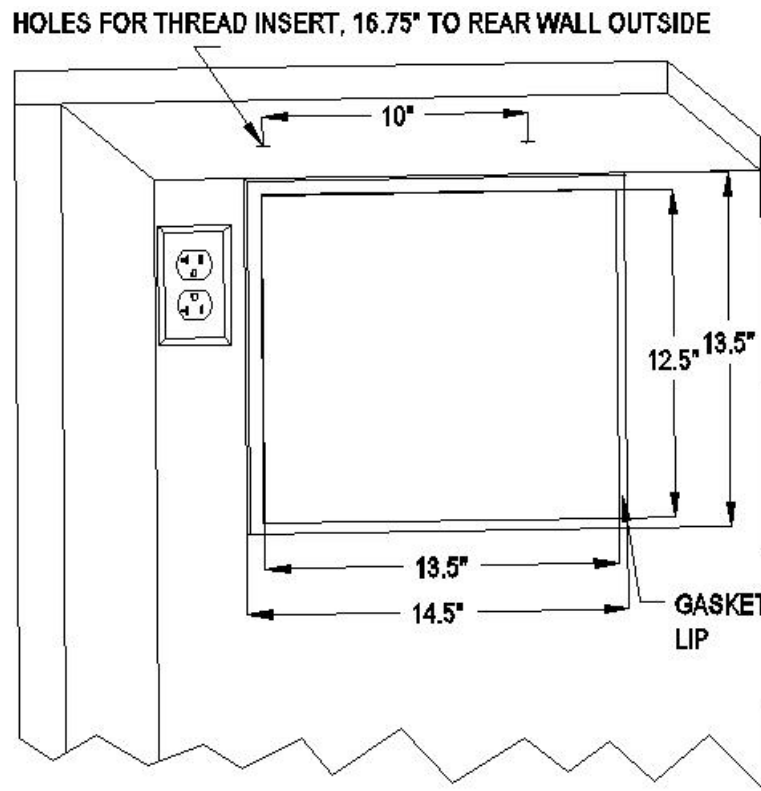


Fig. 2.1 CABINET CUTOUT & GASKET LIP

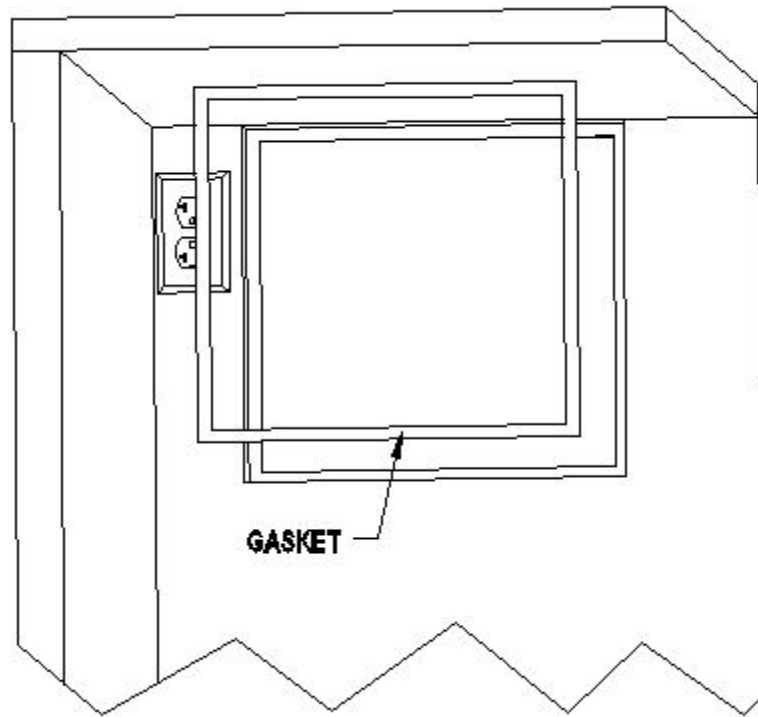


Fig. 2.2 GASKET

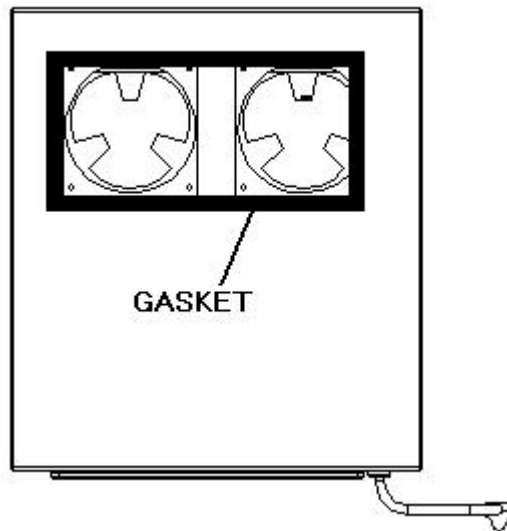


Fig. 2.3 TOP EXHAUST GASKET

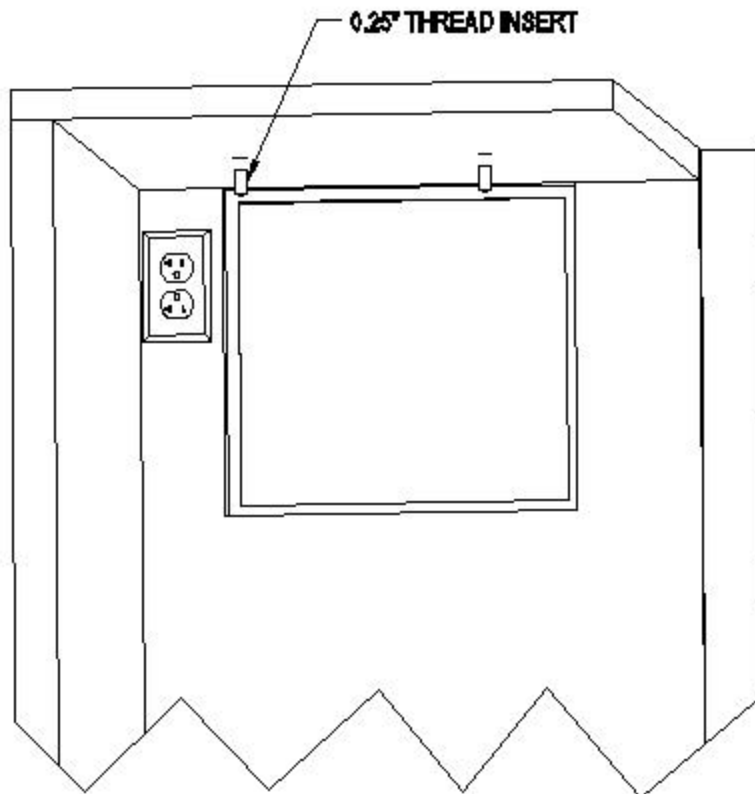


Fig. 2.4 THREAD INSERT

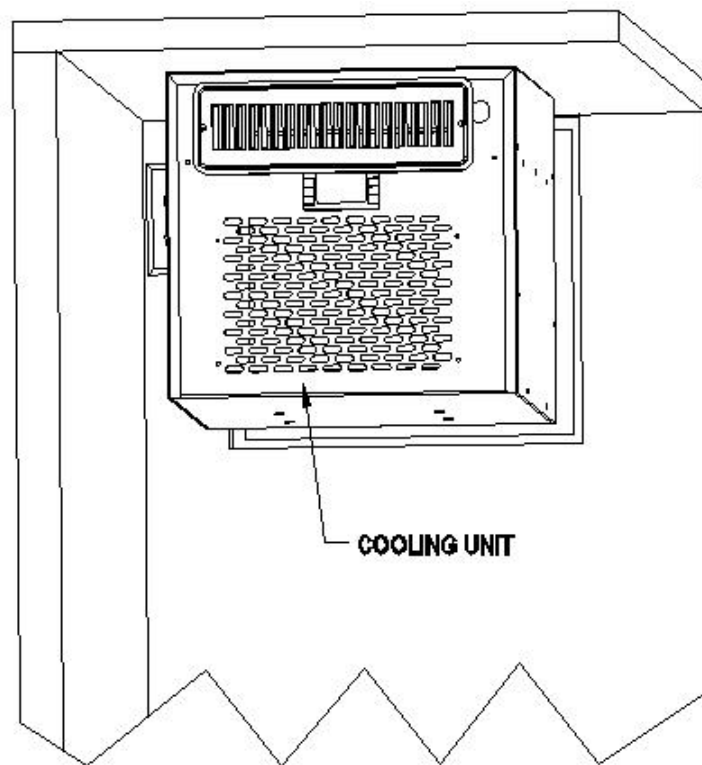


Fig. 2.5 COOLING UNIT

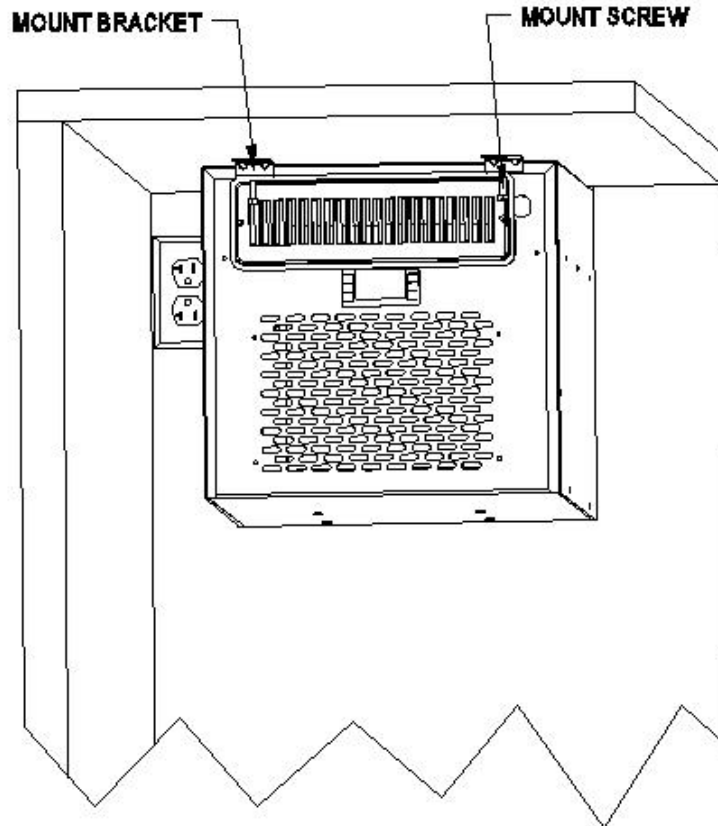


Fig. 2.6 FASTENING BRACKET & SCREW

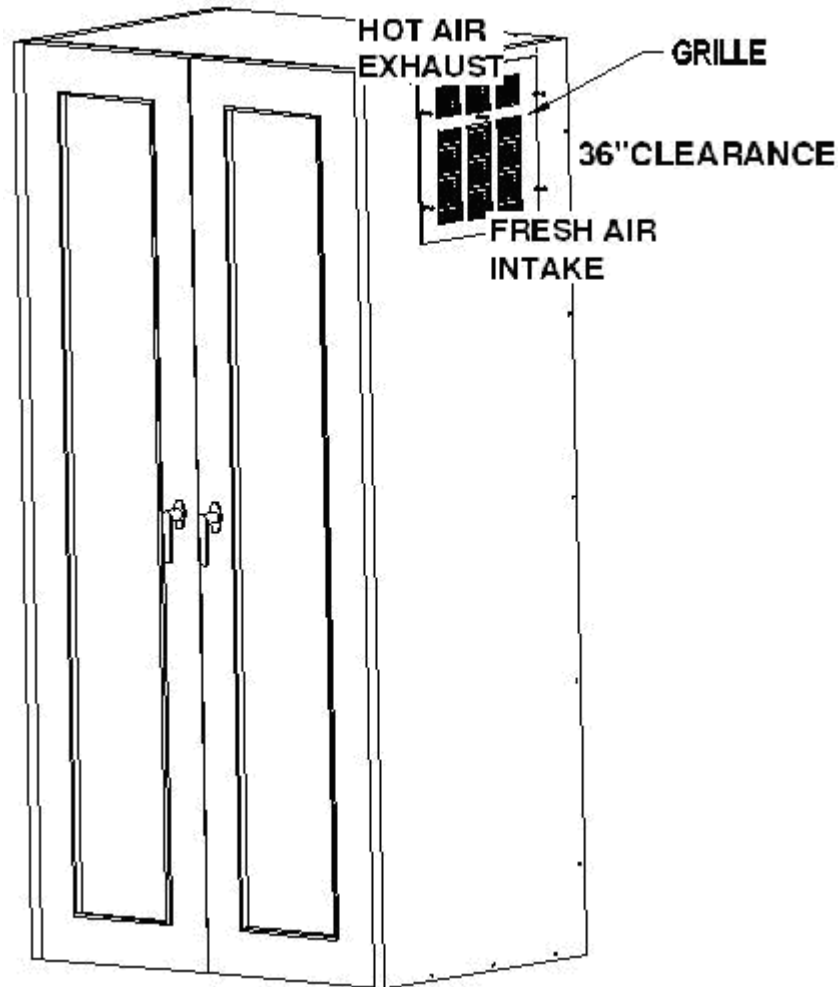


Fig. 2.7 CABINET GRILLE

2. VINO3500-8500HZD THROUGH WALL INSTALLATION

- 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 unit.
- If top exhaust, cut another rectangular opening at the top of the cabinet 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 unit.
- Place the unit on the shelf with the back of unit flush with the outside of the wall.
- Attach the wall grille to the outside wall with screws.
- Seal the area between the cooling unit and opening with a high quality weather stripping or polyurethane spray foam and cover with molding.
- If top exhaust, place another gaskets along the top exhaust at the top of the cooling unit (see Fig.2.9).

- Attach the molding to the wall not the unit.
- Plug the unit into a properly grounded and dedicated outlet of adequate capacity.

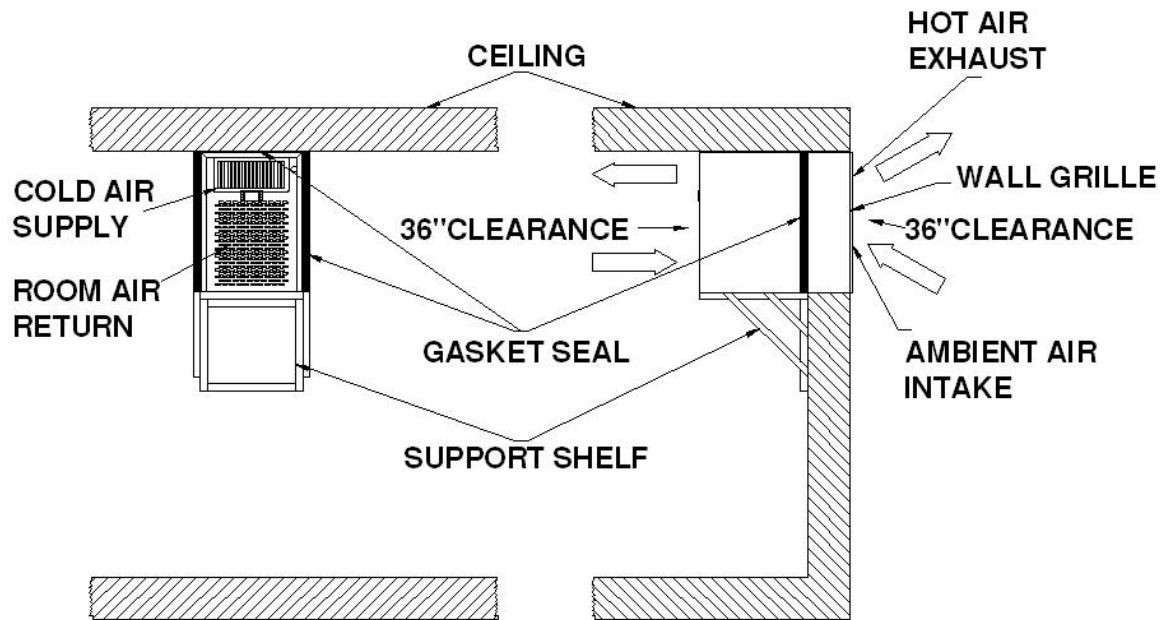


Fig. 2.8 THROUGH WALL INSTALLATION

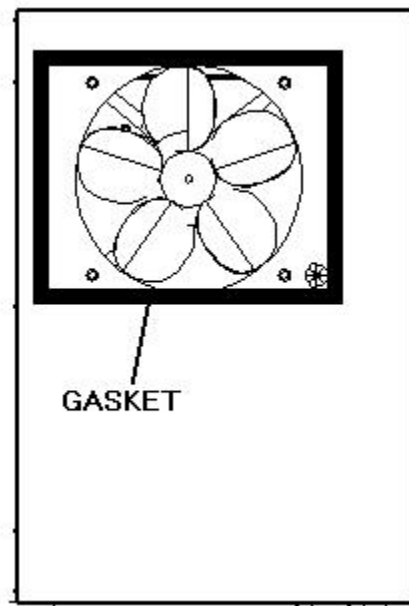


Fig. 2.9 TOP EXHAUST GASKET

3. 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 R11 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 enclosure shall be sealed to prevent air and moisture leakage into the room. Concrete, rock, and brick are not insulation or vapor barriers.

Doors shall be of a minimum size, insulated to at least R11 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 enclosure by more than 25 °F. No enclosure 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 enclosure 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 enclosure. Symptoms of this condition are; 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 enclosure. Please be aware that moisture can pass through solid concrete, paint and wood. Often a newly constructed room 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.

4. Electrical Cord

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 VINO1500-4500HZD, 115 V, 20 A or equivalent for VINO6500-8500HZD and not greater than 15ft in length.

Temperature Control & Humidity Adjustment

1. 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

2. Use of the controller



Fig. 3.1 Temperature Controller

1) Keys

SET: To display target set point; in programming mode it selects a parameter or confirm an operation.

❄️(DEF): To start a manual defrost.

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

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

⏻: 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) Display

During normal operating conditions, the display shows the value measured by the air regulation probe. In case of active alarm, the temperature flashes alternately to the code alarm.

2.1 LED Functions

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

3) Alarm Signals

3.1 Code Description

MESSAGE	CAUSE	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

3.2 Alarm Recovery



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.

4) Temperature Set-Point








4.1 How to see the 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 or wait for 5 seconds to display the probe value again.

4.2 How to change the set-point

1. Press the **SET** key for more than 3 seconds until the “°C” or “°F” LED starts blinking and the set-point will be displayed.
2. To change the set value, press the up/down keys / within 10 sec.
3. To store the new set-point value, press the **SET** key again or wait 10 sec.

5) Parameter Programming

1. Press the **SET** +  keys for 3 sec until the “°C” or “°F” LED starts blinking, then release the keys.
2. Press again the **SET** +  keys for more than 7sec until the **Pr2** label will be displayed, then release the keys. The first parameter **Hy** will be displayed.
3. Press up/down keys / to select the required parameter within 10 sec.
4. Press the “**SET**” key to display its value.
5. Use up/down keys / to change its value within 10 sec.
6. Press “**SET**” to store the new value.
7. **To exit:** Press **SET** +  or wait 15sec without pressing a key.

PARAMETER	DESCRIPTION	VALUE
Set	set-point (°)	55
Hy	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
US	maximum set-point (°)	65
LS	minimum set-point (°)	50
idF	defrost cycle interval time (hour)	24
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)	120
FnC	fan operating mode	C-n: on with compressor & off during defrost
Fon	fan on with compressor (min)	0
FoF	fan off with compressor (min)	15

Note:

- The parameter **Fon** is used to adjust the humidity in the wine cabinet. The higher **Fon** is, the higher relative humidity will be.
- The parameter **FnC = C-y** (on with compressor and on during defrost) with **idF = 8** and **MdF = 20** can be used to defrost more efficiently in case there is excessive frost.
- The unit turns on at set-point plus regulation differential **Hy** after anti-short cycle **AC** has elapsed and turns off at set-point.

7) Manual Defrost

Press the DEF key for more than 2 seconds and a manual defrost will start.

Care Guide

1. Coil Cleaning

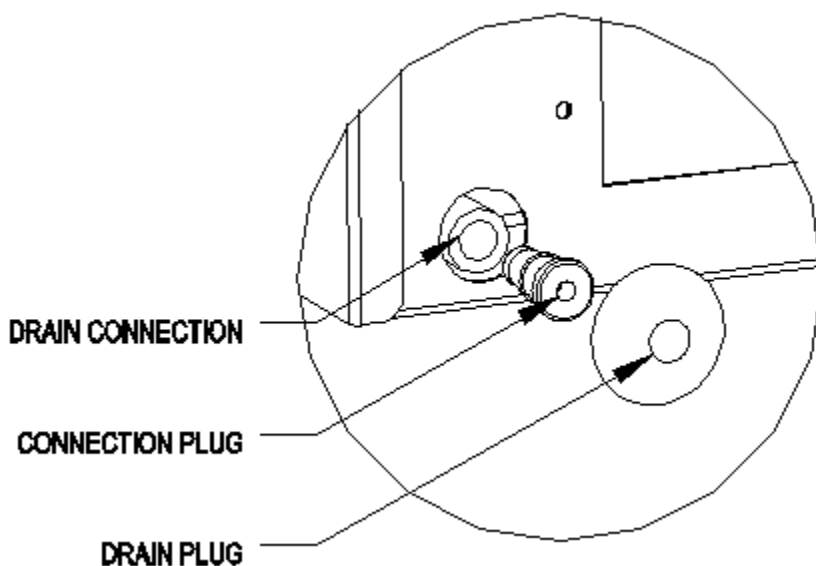
- Clean the condenser coil regularly. Coil may need to be cleaned at least every 6 months.
- Coil is on the ambient air intake side of the cooling unit.
- Unplug the unit or disconnect power.
- Use a condenser brush or a vacuum cleaner with an extended attachment to clean the coil when it is dusty or dirty.
- Plug the cooling unit or reconnect power.

2. Moisture Removing

- Remove the extra condensate if it is accumulated in the wine cellar at high humidity condition.

3. Drain Line

VINO1500-2500HZD units don't require a drain line. But VINO3500-8500HZD 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.



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	<ul style="list-style-type: none"> a. Power cord unplugged b. No power to unit c. Setting higher than ambient temperature d. Differential too high e. Defrost light blinking f. Compressor light blinking g. Incorrect or loose wirings h. Low voltage 	<ul style="list-style-type: none"> a. Check for power cord plug b. Check power at receptacle & fuses c. Lower temperature setting d. Decrease the value as to 4 °F e. Unit is under defrost mode f. Unit is under anti-short cycle delay g. Check all wirings and connections h. Contact an authorized electrician
2. Cabinet temperature high, unit stopping and starting with short running time	<ul style="list-style-type: none"> a. air sensor touching the evaporator coil, displaying temperature ok b. Short circuit of air flow between supply and return air c. Setting too high d. Failed temperature controller and thermistor 	<ul style="list-style-type: none"> a. Move the air sensor away from the evaporator b. Deflect the supply air down c. Lower setting d. Call service for diagnosis
3. Temperature high, compressor stopping and starting but very short running time	<ul style="list-style-type: none"> a. Incorrect voltage b. Failed thermistor c. Failed components d. Improper condenser airflow e. Dirty condenser f. Overcharge of refrigerant g. Discharge or suction pressure too high 	<ul style="list-style-type: none"> a. Check for voltage b. Check thermistor by placing it in ice water and measuring resistance c. Check compressor windings, start relay and overload protector. d. Check for condenser fan e. Clean condenser f. Call service for removing refrigerant g. Call service for OEM information
4. Temperature high or not cooling and running continually; "HA" alarm blinking and beeping	<ul style="list-style-type: none"> a. Improper room insulation & seal b. Room too large c. Ambient temperature too high d. Exhaust restricted e. Malfunctioning fans f. Improper evaporator or condenser airflow g. Dirty Condenser h. Iced evaporator i. Refrigeration system restriction j. Refrigerant leak k. Undercharge or overcharge 	<ul style="list-style-type: none"> a. Check for insulation, gasket and door opening b. Check for excessive size c. Check for installation location d. Leave minimum 3 feet clearance for the exhaust side and leave minimum 1 foot clearance for the fresh air intake side e. Check for both evaporator and condenser fans f. Check for air restrictions, air short-circulation, grille directions g. Clean condenser h. Defrost and reset temperature i. Call service for checking restrictions j. Call service for checking loss of refrigerant k. Call service to add or remove refrigerant

	l. Failed components	l. Check compressor windings, start relay and overload protector
5. Unit running too long	<ul style="list-style-type: none"> a. Improper room insulation & seal b. Exhaust restricted c. Room too large d. Ambient temperature higher > 90°F e. Dirty Condenser f. Improper condenser air flow 	<ul style="list-style-type: none"> a. Check for insulation, gasket and door opening b. Leave minimum 3 feet clearance for the exhaust side and leave minimum 1 foot clearance for the fresh air intake side c. Check for excessive size or increase setting d. Check for installation location or increase setting e. Clean condenser f. Check for fan and air short circulation
6. Fan motor running but compressor not running	<ul style="list-style-type: none"> a. Post-compressor fan running mode b. Incorrect power supply c. Incorrect or loose wirings d. Failed components e. Liquid refrigerant in the compressor 	<ul style="list-style-type: none"> a. Check for fan running time FON b. Check for proper voltage c. Check all wirings and connections d. Check start relay, start capacitor, overload protector, compressor. e. Call service for OEM information.
7. Compressor running but fan not running	<ul style="list-style-type: none"> a. Fan blade stuck b. Incorrect or loose wirings c. Failed motors 	<ul style="list-style-type: none"> a. Check for proper clearance b. Check all wirings c. Call service for checking open or shorted windings
8. Temperature fluctuating	<ul style="list-style-type: none"> a. Air sensor 	<ul style="list-style-type: none"> a. When using an air sensor, 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.
9. Fan running too long	<ul style="list-style-type: none"> a. Post-compressor fan running mode for humidity modulation 	<ul style="list-style-type: none"> a. Reset FON
10. Unit not starting ,	<ul style="list-style-type: none"> a. Anti-short cycle 	<ul style="list-style-type: none"> a. Reset AC

but temperature rising high		
11. Evaporator freezing up	<ul style="list-style-type: none"> a. Evaporator air flow restriction b. Not stopping due to air leak, high ambient temperature or low setting c. Bad thermostat or sensor d. Low ambient temperature e. Moisture in the system f. Refrigerant low or leaking g. Capillary tube blockage 	<ul style="list-style-type: none"> a. Check for fans & CFM b. Check for seal, door opening, ambient temperature and setting c. Check for thermostat and sensor d. Increase defrost cycle and change fan mode e. Works initially then stops; Call service. f. Call service to check for current and sealed system leakage g. Call service to check for capillary frost
12. Water leak	<ul style="list-style-type: none"> a. Air leak in wine cellar b. High humidity c. Evaporator air flow restriction or low refrigerant d. Water passages restricted e. Drip tray leak (Not water overflow but leak) 	<ul style="list-style-type: none"> a. Check for any air leak b. Use drain line c. Check air flow or air TD crossing evaporator d. Clean the drip tray e. Seal the leak using silicone sealant
13. Circuit tripping	<ul style="list-style-type: none"> a. Incorrect fuse or breaker b. Incorrect wirings c. Failed components 	<ul style="list-style-type: none"> a. Check for proper fuse or breaker b. Check for wirings and connections c. Call service
14. Noisy operation	<ul style="list-style-type: none"> a. Mounting area not firm b. Loose parts c. Compressor overloaded due to high ambient temperatures or airflow restriction d. Malfunctioning components 	<ul style="list-style-type: none"> a. Add support to improve installation b. Check fan blades, bearings, cabinet washers, tubing contact and loose screws. c. Check for airflow blockage d. Call service for checking internal loose, inadequate lubrication and incorrect wirings

Wiring Diagram

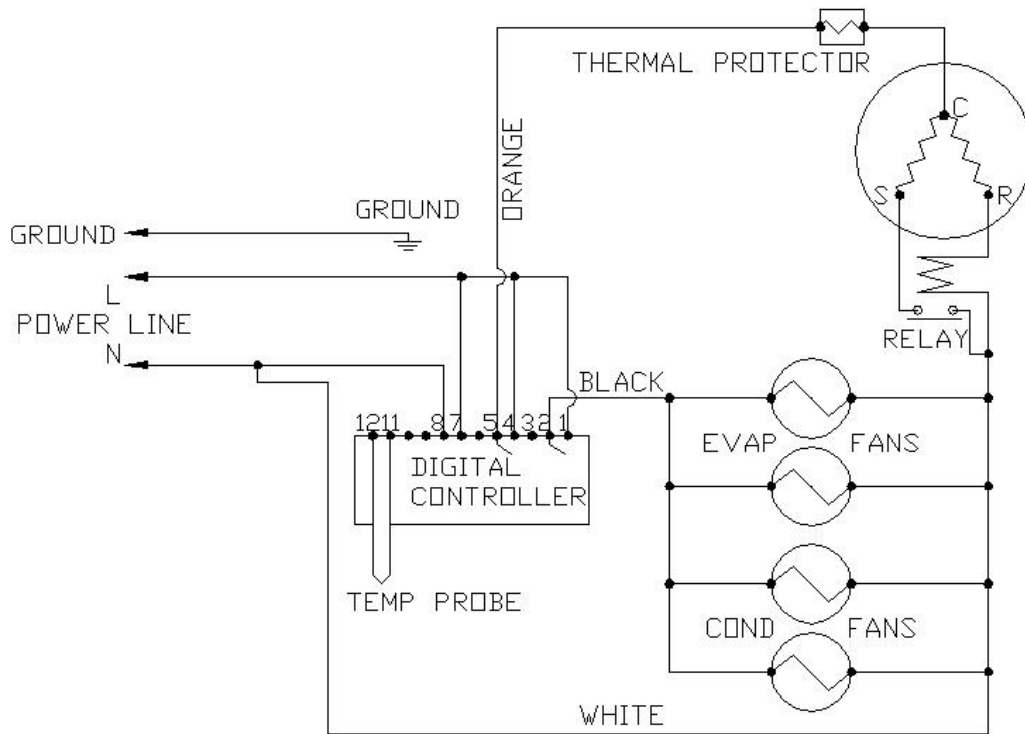


Fig. 6.1 VINO1500-2500HZD Wiring Diagram

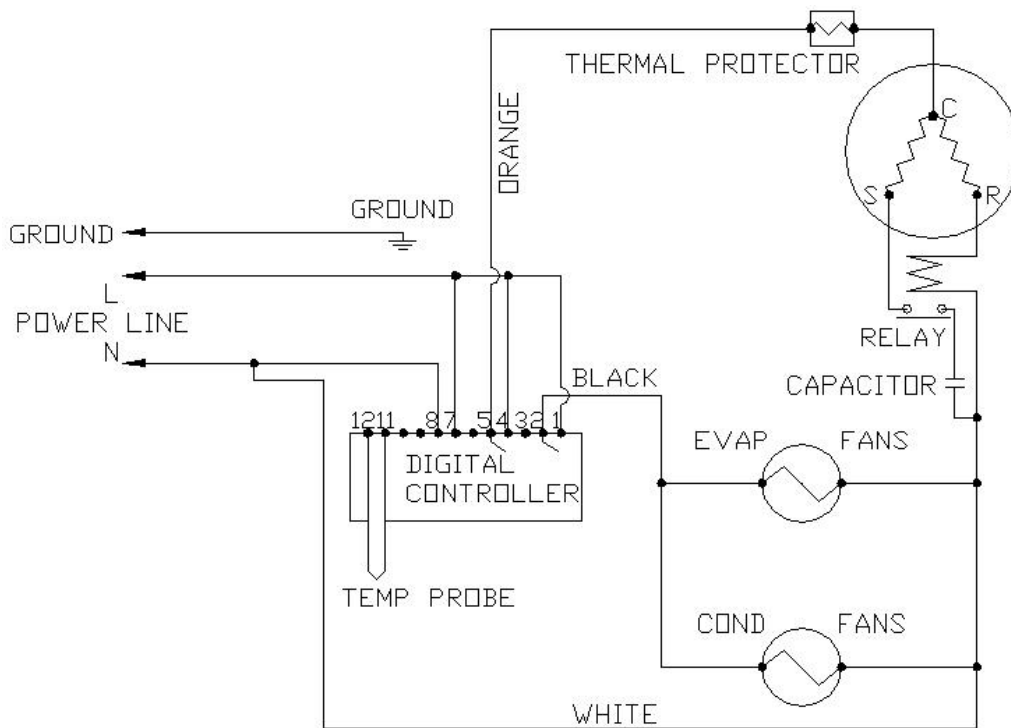


Fig. 6.3 VINO3500-8500HZD Wiring Diagram

Customer Support

If you still have problems, 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.**

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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.