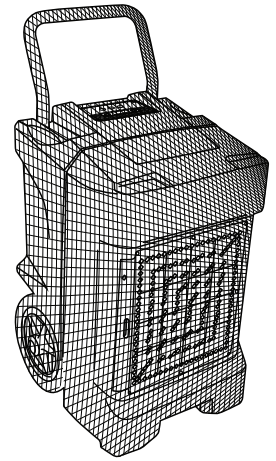


# VANTAGE LGR 2200

## COMMERCIAL DEHUMIDIFIER



### LIMITED MANUFACTURER'S WARRANTY

The manufacturer warrants that goods sold to the original user shall be free from defects in material and workmanship as follows:

1-year parts and labor on the entire unit. 5-year parts and labor on sealed system (compressor, evaporator, and condenser).

DAY 1-15: A unit that fails within the first 15 days after the sale to an end-user may be eligible to be replaced with a new unit at the sole discretion of the manufacturer. All transportation costs will be covered for the customer.

DAY 15-YEAR 1: A unit that fails between 15 and 365 days after sale will have parts and labor charges covered under warranty, but transportation charges are to be paid by the customer. Transportation costs include travel charges by repair personnel, or shipping charges to move the unit to and from a repair location.

The manufacturer will not be responsible for:

1. Useful filter life / replacement filters.
2. Damage due to failure to perform normal maintenance as outlined in the Instruction Manual.
3. Failure to start due to voltage conditions, blown fuses, open circuit breakers, or any other damages due to the inadequacy or interruption of electrical services.
4. Damage or repairs needed as a consequence of any misapplication, abuse, neglect, unauthorized alteration, improper servicing, or operation, including operation outside the voltage and frequency limitations as stated on the unit rating plate.
5. Damage as a result of flooding (immersion), fires, lightning, freezing of residual water, corrosive environment, or other conditions beyond the control of the manufacturer.
6. Reimbursement for warrantable replacement parts not supplied by the manufacturer.
7. Shipping damage, or damage as a result of abuse in transporting the unit.

The manufacturer does not warrant that the goods sold are merchantable or fit for any particular purpose, and makes no warranties other than as stated in this section.

All other warranties, guaranties, or representations, express or implied, by operation of law or otherwise, are expressly disclaimed.

If circumstance warrants, the manufacturer may opt to refund the purchase price of such goods. Where applicable, as indicated above, the manufacturer will pay return transportation charges on returned goods not exceeding the transportation charges applicable to ship from original destination unless the returned goods are free from defect and conform to specifications. Be sure to review this instruction booklet. Returned goods which are found by the manufacturer to be free from defect and to conform to specifications shall be held for Purchaser's shipping instructions, which shall be furnished promptly upon request.

The manufacturer's liability shall in no event extend beyond replacement, repair or refund of the purchase price and shall not be liable under any circumstances for special, contingent, incidental or consequential damages, nor for losses, damages, or expenses directly or indirectly arising from the use of the goods, including without limitation, warehousing, labor, handling and service charges, die, equipment, or machine breakage, nor for costs, lost profits or loss of good will. The use of substitute parts and/or filters in this product voids all warranties and performance claims. The remedies set forth herein are exclusive.

Any replacement parts supplied under warranty will be warranted for the balance of the product's warranty.

Establishing the proof of purchase date for warranty purposes is the responsibility of the end-use customer, failing which, the effective date will be based upon the date of manufacture plus thirty (30) days. Retain your bill of sale as proof of purchase.

For warranty information and assistance contact B-Air® at 877.800.2247 or email [warranty@b-air.com](mailto:warranty@b-air.com)



**B-AIR.COM**

DESIGNED & ENGINEERED  
IN CALIFORNIA

550 S. Ayon Avenue  
Azusa, California 91702

Local: 626.385.3300  
Fax: 626.385.3307

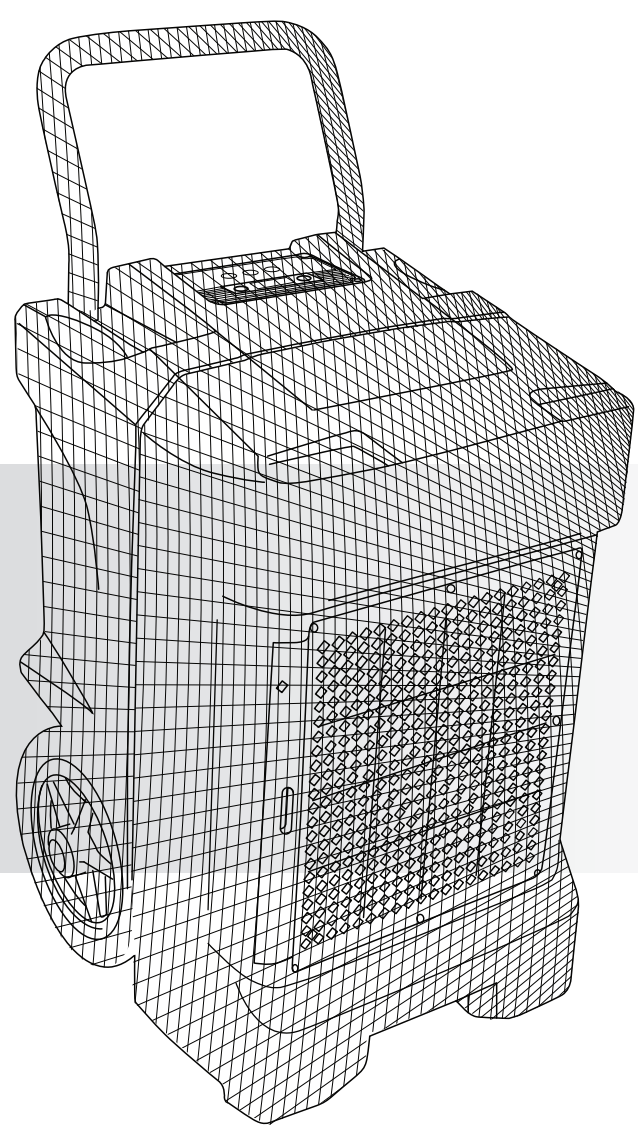
**877.800.BAIR**

WATER DAMAGE RESTORATION DIVISION



# VANTAGE LGR 2200

COMMERCIAL DEHUMIDIFIER



# VANTAGE LGR 2200

COMMERCIAL DEHUMIDIFIER

## GENERAL INFORMATION

# Packaging

Please **DO NOT** dispose of any packaging until you have checked the appliance is operational.

After removing the packaging ensure the contents are intact and complete. In the unlikely event of missing parts; contact B-Air®.

**DO NOT** leave children unattended with any of the packaging since it is a potential source of danger. Disposal of all packaging must be carried out responsibly & safely and in accordance with your local authority regulations.

ALWAYS recycle the packaging material when possible.

**When using any electrically powered product, basic safety precautions should always be followed.**

**PLEASE READ THE INSTRUCTIONS CAREFULLY AND IN FULL BEFORE USING THE PRODUCT.**



# Important Instructions

**WARNING - to reduce the risk of fire, electrical shock or injury to persons or property.**

- 1.** Always operate the product from a power source of the same voltage, frequency and rating as indicated on the product identification plate.
- 2.** Close supervision is necessary when any product is used by or near children the elderly or the infirm. Do not allow children to use the appliance as a toy.
- 3.** Do not operate this product with a damaged power cord plug. If the supply cord is damaged it must be replaced by qualified personnel or other similar qualified persons in order to avoid hazard.
- 4.** To reduce the risk of electric shock, do not expose the unit or flexible cord to moisture of any kind.
- 5.** Switch off and unplug from the power socket when not in use, before assembling or before cleaning.
- 6.** Do not place objects on the product or allow objects to obstruct the inlet or outlet openings, or operate in close proximity to walls or curtains, etc.
- 7.** The use of attachments or accessories not recommended or sold by the product distributor may cause injury to persons or damage to property.
- 8.** This product is intended for normal light commercial use only.
- 9.** Do not attempt to dismantle the appliance.
- 10.** Do not operate the appliance on a metal surface.
- 11.** Do not use the appliance in artificially hot or humid conditions or allow to be used in a hazardous environment.
- 12.** Do not clean the appliance with organic solvent.
- 13.** This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
- 14.** Children should not be left unsupervised with the appliance.
- 15.** This instruction manual is an integral part of the appliance and should be stored for safe keeping and must always accompany the appliance in the event of ownership transfer or for reference to by a service engineer.

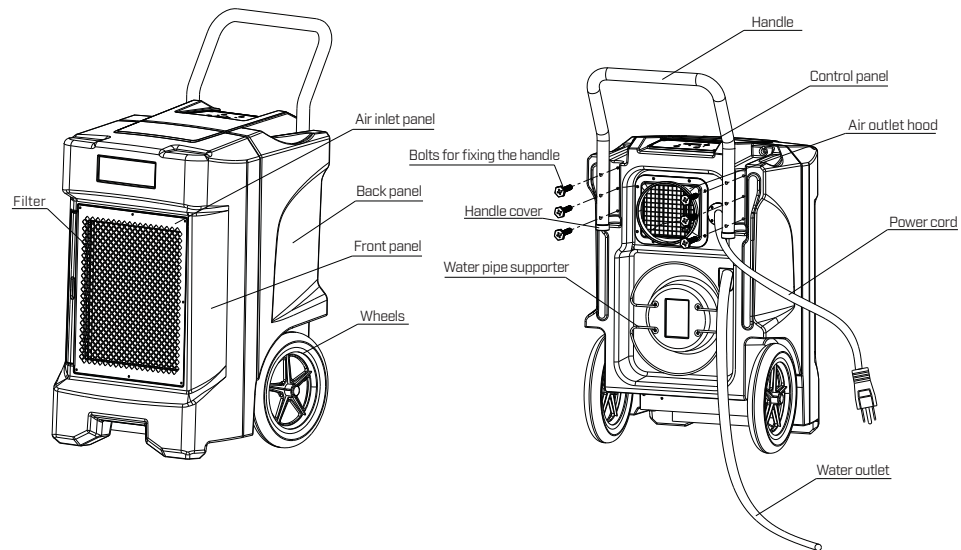
**READ AND SAVE THESE INSTRUCTIONS**



# VANTAGE LGR 2200

## COMMERCIAL DEHUMIDIFIER

### Product Identification



**NOTE:** Please install the handle by yourself (six bolts are for your installation).



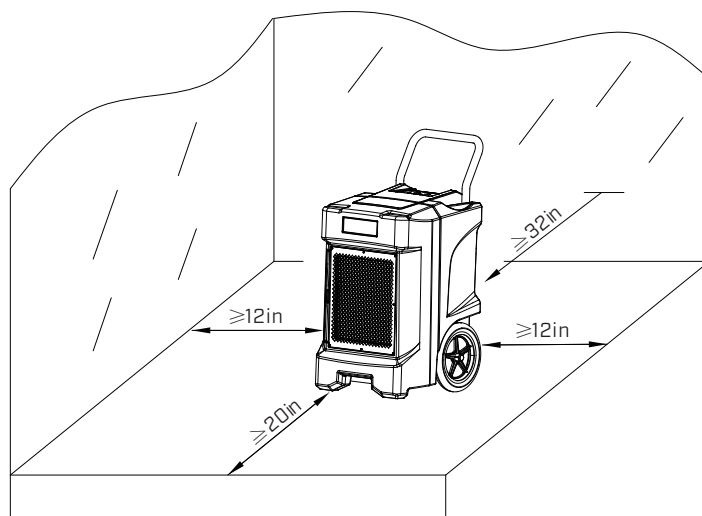
**DO NOT OBSTRUCT THE AIR INLET OR OUTLET.**

# Setting Up Instructions



## IMPORTANT

Place dehumidifier in the upright position. When transporting a dehumidifier to site, allow the dehumidifier to stand for 30 minutes before switching ON. This is necessary to allow the refrigerant system to stabilize and avoid system damage.



### Setting Up the Dehumidifier

Operate the dehumidifier in an enclosed area, as this creates a drying chamber. Close all doors, windows or areas that open to external areas, to maximize the dehumidifier's water removal efficiency. Keep traffic through the drying chamber to minimum. Place the dehumidifier in the center of the room away from walls and furnishings. DO NOT allow the airflows to be obstructed.

### Drainage

The dehumidifier pump connects to a plastic drainage hose. The hose is stored on the back of the appliance. Uncoil the entire hose ensuring there are no kinks or restrictions and place the unattached end to a water vessel or run to outdoors.

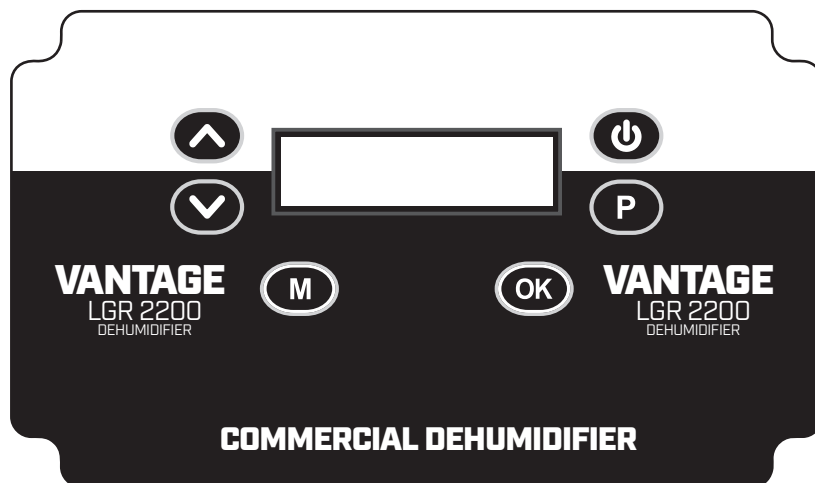
Ensure that water which runs to outdoors does NOT create a slip hazard.







Water vessels MUST be checked regularly where used.

**VANTAGE LGR 2200**

COMMERCIAL DEHUMIDIFIER

# Control Panel



-  — **ON/OFF Key**
-  — **PURGE Key**
-  — **UP & DOWN Key**
-  — **UP & DOWN Key**
-  — **OK Key**
-  — **MENU Key**

## Function Keys



### ON/OFF

Press once to turn the unit ON or OFF.



### PURGE

Press the PURGE key to empty water from the pump reservoir. During normal operation the pump purges automatically when the reservoir is full. Press "PURGE" key before moving the aching to avoid water spillage. The pump will close automatically after 40 seconds continuous drainage.



### MENU

Press the MENU key, the LCD will display "Humid" - "Timer" - "TempU" - Langu" - "R". Press OK key to select sub menu.



### UP & DOWN



Press the UP & DOWN keys to set or adjust humidity in the range between 26% and 90%. When the environmental humidity is below 26% "CO" will be displayed.

The UP & DOWN keys are also used to adjust time.



### OK

Press the OK key to confirm the operation.



# Control Panel Operation

## Operation in General Use

1. Press the ON/OFF key to switch the dehumidifier ON. The unit will start working.
2. Press ON/OFF key again to switch the unit OFF. The water pump will work automatically for 40 seconds to empty water from the pump reservoir.



## IMPORTANT

**DO NOT** switch the power **OFF** by disconnecting at the main socket outlet. To avoid water spillage, **DO NOT** move the dehumidifier for at least three minutes after turning the power **OFF**.

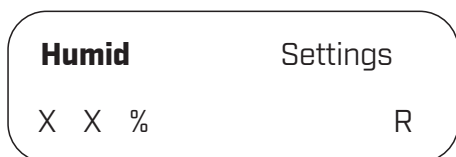
## Humidity Setting

The factory setting is "CO" mode. The humidity can be set in the following manner.

1. Press the MENU key. The screen will display:



2. Press the MENU key again and select "Humid."
3. Press "OK" key and the screen will display:



4. Press the UP & DOWN key to set relative humidity between 26% and 90%.
5. Press OK key to confirm the setting.
6. Press MENU key to select "R" and press the OK key or wait 10 seconds to turn back automatically. If you need to return to acquiescent "CO" mode, set relative humidity below 26%.



# Control Panel Operation

## Timer

1. Press the FUNCTION key. The screen will display: Humid, Time, Load, Langu

Humid	<b>Timer</b>
TempU	Langu R

2. Press the FUNCTION key & select Timer
3. Press the ENTER key & the screen will display:

<b>T. On</b>	T. Off
T. I/O	R

4. Press the FUNCTION key & select clock.
5. Press the ENTER key & the screen will display:

<b>Timer</b>	On
00:00	Off R

6. Press the UP & DOWN keys, select from 00 to 24.
7. Press the ENTER key to confirm.
8. The cursor turns to the next position automatically.
9. Press the UP & DOWN key to select minutes from 0 to 59.
10. Press the ENTER key to confirm the number.
11. The cursor turn to the next position automatically.
12. Repeat process until the clock is completely set.
13. Once finished, move the cursor to 'R' and press the ENTER key to return to normal operating mode. The screen will display wet time only.

**In the event that date requires modifying; use the cursor to reset.**

**The new data will not become active until the ENTER key is pressed.**



# Control Panel Operation

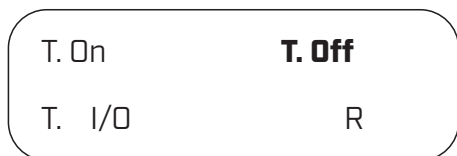
## Timer ON Setting

**Ensure the clock is correct before setting the timer.**

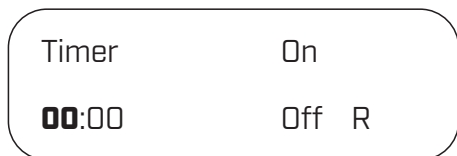
1. Press the FUNCTION key & the screen displays:



2. Press the FUNCTION key & select Timer.
3. Press the ENTER key & the screen will display:



4. Press the FUNCTION key & select T on.
5. Press the ENTER key & the screen will display:



6. Press the UP & DOWN keys, select from 00 to 24.
7. Press the ENTER key to confirm this number.
8. Press the FUNCTION key again & select minute position.
9. Press the UP & DOWN keys & select from 00 to 59.
10. Press ENTER key to confirm this number.
11. Press the FUNCTION key again & "Off" is displayed.
12. Press the ENTER key & 'On' is activated.
13. After setting is completed press the FUNCTION key again & move the cursor to "R" and press the ENTER key. The display will return to normal.

**To cancel the time display move the curse to the 'On' potion and press enter, turning it to 'Off.' The function only performs once.**



# Control Panel Operation

## Timer OFF Setting

Set the timer OFF in the same manner as time ON.

## Cycle timer setting

The screen displays:

On	00:00	Off
Off	00:00	R

After setting the cycle times the dehumidifier will turn ON/OFF at the selected times.

**Pressing 'ON/OFF' during the Cycle timer operation will not automatically cancel the program.**

**The dehumidifier will not function if the timer ON and timer OFF times are the same.**

**To cancel the time display, press the ENTER key to change OFF to ON.**

## Temperature Unit Exchanging:

1. Press the M key & screen displays:

Humid	Timer
<b>Tempu</b>	Langu R

2. Press the M key again & select "Tempu" flicker.
3. Press the OK key & screen displays:

Tempu	Setting
°C ON	°F OFF R

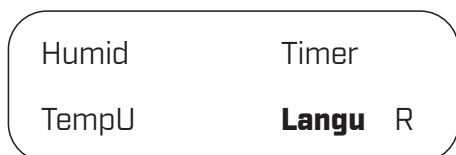
4. Press M key again to exchange between C° and °F.
5. Press OK key to confirm.



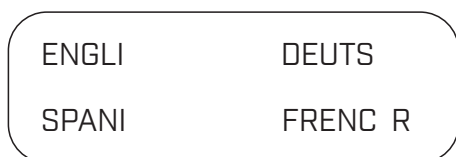
# Control Panel Operation

## Language Choosing

1. Press the M key & the screen displays:



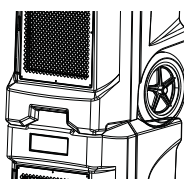
2. Press the M key again & select “Langu” flicker.
3. Press the OK key & the screen displays:



4. Press the M key again & select your required language.
5. Press OK key to confirm.

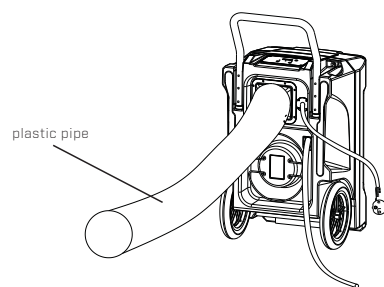
## Stack Function

For convenient freight, two units of this machine should be stacked, and the slot of the wheel can help to stable and safe transportation.



## Pipe Function

As to a much wetter space, use a plastic pipe with diameter larger than 170mm, and tie the pipe to hood, it will be much faster and more effective to dry.

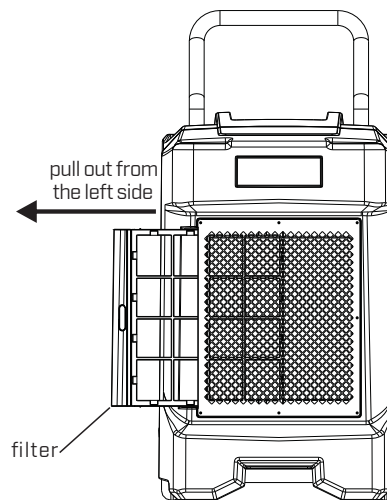


# Maintenance

## Cleaning the Air Filter

Ensure the dehumidifier is turned **OFF** and the plug removed from the power socket before maintenance is carried out.

The working performance of the dehumidifier will be greatly reduced if the filters become blocked.



1. Remove the filter as shown in the diagram above.
2. Vacuum any debris from the filter using the vacuum hose and nozzle attachment.
3. Using luke-warm water and mild detergent wash the filter and allow to dry.
4. Once dry, re-install the filter into the dehumidifier.

# Trouble Shooting

## Fault Codes

The problems as below are probably real faults. Please check the machine according to the tips.

PROBLEM	CAUSE	SOLUTION
<b>Unit does not operate</b>	No power to appliance	Connect plug to power socket and check the power
	Switch not turned on	Switch on
	E4 error is displayed	Try to manually drain the water
	Insufficient working time	Allow unit running more time
	Filter is blocked	Clean the filter
<b>No water or very little water</b>	Indoor temperature is too low	Increase the indoor temperature
	Drain hose tied or deflated	Check drain hose
<b>The dehumidifying effect is poor</b>	Doors or windows are open or the bad hermetic house	Seal up the room
<b>Water leakage</b>	Residual water has not ruled out clean or overbank of the unit	Manually drain the water after power is on
<b>Hot air is exhausted from the outlet</b>	The normal heat exchange	Normal phenomenon
<b>With the sound of flowing water or data voice</b>	Refrigerant flow sound or water pump working sound	Normal phenomenon
<b>All keys have no effect</b>	Keys are locked	Press the upper and down key for 2 seconds at the same time



## WARNING

DO NOT attempt to rectify faults using unqualified personnel.

# Trouble Shooting



## WARNING

In the event of a fault code, contact your service agent.

### CODE

### ERROR MESSAGE

### DISPLAY READING

### SOLUTION

E0	EEPROM error	Blinking display in the first line	Reset unit*
E1	Communication error	Blinking display in the first line	Reset unit
E2	Coil sensor error	Every 30 seconds flashing display for 2 seconds	The machine can still work, but will not detect refrigerant error
E3	Air-outlet sensor error	Every 30 seconds flashing display for 2 seconds	The machine can still work, but will not detect refrigerant error
E4	Humidity sensor error	Every 30 seconds flashing display for 2 seconds	Frequency reduction, reset unit
E5	Current protection for main control plate	Blinking display in the first line	Frequency reduction, reset unit
E6	Air-outlet temperature protection	Blinking display in the first line	Reset unit
E7	Over-current protection for compressor	Blinking display in the first line	Reset unit
E8	Water pump error	Blinking display in the first line	Reset unit
P0	IMP module error	Blinking display in the first line	Frequency reduction, reset unit
P1	Voltage too high or too low	Blinking display in the first line	Reset unit
P2	Compressor stall	Blinking display in the first line	Reset unit
P3	Refrigerant lack	Blinking display in the first line	Reset unit

Reset unit: Turn unit off, then turn it back on.



# Specifications

## MODEL

## BPA

Power Source	115V / 60Hz
Water Removal AHAM (80°F 60%RH)	130 pints/day
Water Removal Max (90°F 90%RH)	225 pints/day
Rated Current	8.5 amps
Low Side Design Pressure	240 psig
High Side Design Pressure	480 psig
Refrigerant	R410a / 26.8 oz.
Max Process Air	400 CFM
Drain Hose Length	30 ft
Dimensions (WxDxH)	21 x 20 x 32.25 inches
Net Weight	100 lbs.
Operating Range	32° - 115°F