



*Installation & Operation Manual  
Reach-in, Freezers & Refrigerators*

Please read this manual completely before installing or operating this unit!



BASR1  
BASF1

BASR2  
BASF2

BASR3  
BASF3

Blue Air reserves the right to make product modification at any time. Specifications and Designs are subject to change without notice.

IMPORTANT SAFETY INSTRUCTION ( SAVE THESE INSTRUCTIONS )  
Visit our website at [www.blueairinc.com](http://www.blueairinc.com)

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## ***Service Contact***



*Blue Air Refrigeration has a Nationwide Service Network  
to provide timely services to our customer's needs.  
Please call or fax us at the following numbers.*

**Blue Air Refrigeration Nationwide Service Network**  
**Toll Free, 1-866-677-8500**  
**TEL, (310) 808-0102**  
**Fax, (310) 808-0242/0262**

# Specifications

RODUCT		SOLID DOOR FREEZER			SOLID DOOR REFRIGERATOR		
MODEL		BASF1	BASF2	BASF3	BASR1	BASR2	BASR3
Capacity(Cu, Ft)		23	49	72	23	49	72
Exterior Dimension (including castors) (in)	(W)	27 1/2	55 1/4	78.0	27 1/2	55 1/4	78.0
	(D)	31 1/4			31 1/4		
	(H)	83 1/2			83 1/2		
Swing Doors		1	2	3	1	2	3
Shelves		4EA	8EA	12EA	4EA	8EA	12EA
Compressor		1/2HP	3/4HP	1.1HP	3/8HP	3/8HP	1/2HP
Power Voltage		115V	115V	115/208-230V	115V		
Plug In- Installation		NEMA 5-15P		NEMA14-20P	NEMA 5-15P		
Amps		8.5A	9.5A	9.0A	7.5A	7.5A	10.0A
Range of Temperature		Below 0° F			32~40° F		
Refrigerant		R404a			R134a		
Net Weight(1b)		293	463	616	286	432	602

- Specifications and Designs are subject to change without notice.
- The name plate (including Serial No.) is located on the upper left side of the cabinet interior.

## Installation

1. This unit is intended for indoor use only.
2. Electrical Connection
  - 1) The unit should be plugged into a 115 V  $\pm$  10% (BASF1, BASF2, BASR1, BASR2, BASR3 models) or 115V/208 -230V(BASF3 model) 60Hz, grounded wall receptacle.
  - 2) Do not plug other electrical units into the same wall receptacle where this unit is plugged into.
  - 3) Do not use an extension cord.
  - 4) Compressor warranties are void if the compressor burns out due to low voltage.
3. Check points for selecting location
  - 1) The minimum clearance between the back of the cabinet and wall should be at least 7 inches.
  - 2) Keep the unit away from sunlight and other heat generating equipment.
  - 3) The unit should be properly leveled to provide adequate drainage.
4. Installing castors
  - 1) Install castors in the weld nut in the bottom of the unit.
  - 2) Make sure that castors with brakes must be installed in front.
5. Install shelves using shelf clips provided in the accessory pack.

## Maintenance

### ■ CLEANING

1. The interior surface of the cabinet should be periodically cleaned with a solution of warm water and baking soda. This solution will help to remove any odors from spillage that has occurred. The exterior of the cabinet should also be cleaned frequently with a stainless steel cleaner, glass cleaner or mild soap solution. Do not use chlorinated cleaners on the stainless steel surface.
2. The drain pan next to the condensing unit should be checked once in every 2 weeks and emptied it when necessary.
3. The door Gaskets should be periodically cleaned with a mild soap solution to extend their life.
4. The shelving can be cleaned in a sink with a mild soap solution and soft bristled brush.
5. Condenser Coil

Before cleaning the condenser coil, unplug the unit from the power. Periodically cleaning the condenser coil will help the heat exchange of the refrigeration system and increase the efficiency. Remove the bottom grill from the cabinet to clean the condenser coil. It is located behind the grill. Use a soft bristled brush to remove any dirt particles that are on the fins of the condenser coil. After then, Use the vacuum cleaner or compressed air to remove the loosened particles. Put the bottom grill back and plug in the unit to outlet. Failure to clean the condenser coil can lead to performance loss and compressor failure. .

## 6. Replacement of the light

Use the lights that are same specification with the lights installed in the unit for replacing. Using wrong one may not work.

## 7. Wait at least 6 minutes after unplugging the unit before plugging it in again.

8. The air suction filter is in the filter bracket which is located in the top of BASF and BASR models. The filter should be checked monthly and cleaned with a soft brush when necessary. If the filter is clogged, it would take more time to open the door again.

## Alarm Function for Cleaning Condenser

- ❑ This function is to remind customer of the condenser cleaning time in every 6 months.

Dust piled up on the condenser pin can cause poor refrigeration function and compressor overloaded or failure. So please clean periodically.

- \* Reminder of cleaning time : When buzzer sound continues for 1 hour, “CL” on the display blinks.

- \* Releasing alarm : Press “Mode” & “Verify” buttons at the same time for 5 seconds, Then buzzer stops and “CL” disappears and show up current temperature.

- ❑ In case no compulsive action is taken to release the alarm. like absence.

- \* Buzzer : will stop automatically after 1 hour of continuous alarm sound.

- \* Display : will keep blinking “CL” until the compulsive release.

## Operation

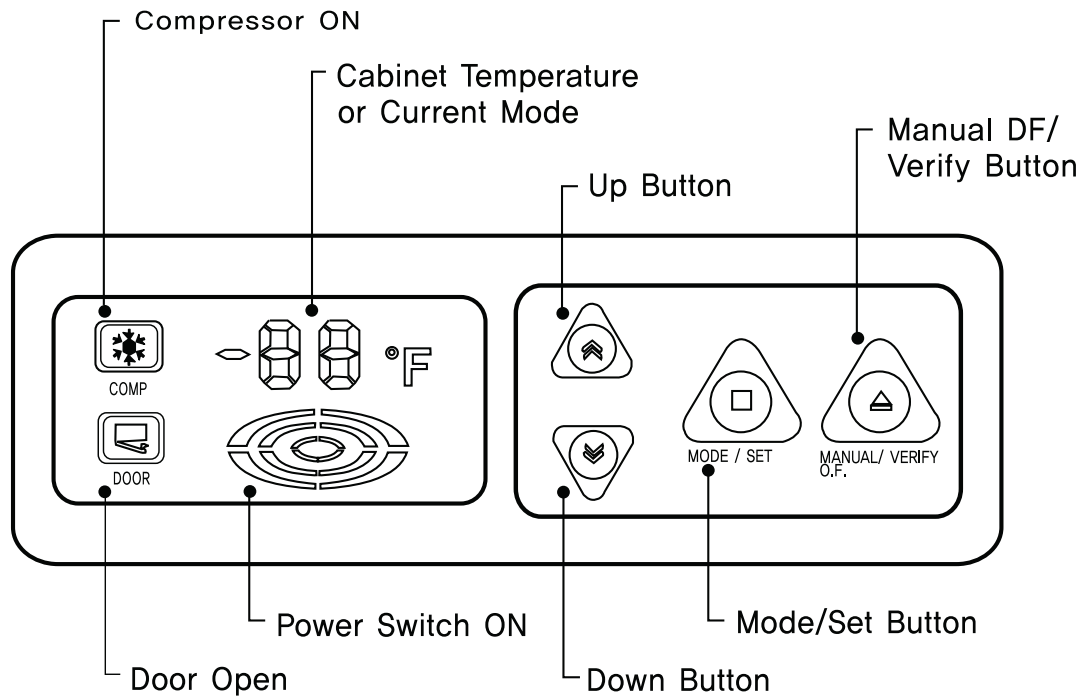
### A. BASIC OPERATION

- 1) If you plug and turn on the power switch, the display panel will be lighted for 2 seconds followed by a beeping sound. then, cabinet temperature will be displayed.
- 2) If cabinet temperature is higher than 15° F (BASF1,BASF2&BASF3 models), or 68° F(BASR1, BASR2 and BASR3 models) the panel displays [Hi] and lower than -50° F(BASF1, BASF2 and BASF3 models) or 14° F(BASR1, BASR2 and BASR3 models)the panel displays[Lo].
- 3) The power switch is located in the right side of top grille.
- 4) Compressor operation and defrost function are controlled by electronic controller.
- 5) The light inside the cabinet turns on when door is opened.
- 6) Open Door Alarm
  - ① If door is opened, “door open” warning sign will turn on.
  - ② If door remains open more than 30 seconds, the sound alarm beeps 2 times, if remains open more than 60 seconds, the sound alarm beeps 5 times and if remains open more than 5 minutes, the sound alarm will beep continuously.

# Operation

## B. ELECTRONIC CONTROLLER

### 1. DISPLAY PANEL



### 2. ELECTRONIC CONTROLLER SETTING MODE

Display	Description
St	Temperature Setting Mode
di	Temperature Differential Setting Mode
th	Cabinet Temperature Verification Mode
dt	Defrost Frequency Setting Mode
tb	Turbo Freeze Mode (Applies to BASF1, BASF2 and BASF3)
dF	Forced Defrost Mode

# Operation

## 3.CONTROL MODE

### 1) How to set Cabinet Temperature.

- ① To enter this mode, press [MODE/SET] and [UP or DOWN] until [St] is displayed.
  - ② Then press [MODE/SET] to see current temperature set point.
  - ③ To change the set point, press [UP or DOWN] until the desired temperature is displayed.
  - ④ At the end of the sequence, press [MODE/SET] to set the temperature,
  - ⑤ To display the cabinet temperature again, press [UP or DOWN] until [th] is displayed and then press [VERIFY].
- ❖ The temperature set point is the value for the average cabinet.  
temperature is adjustable from -22° F to 8° F (BASF1, BASF2 and BASF3 models)  
or 25° F ~ 50° F (BASR1, BASR2 and BASR3 models)
  - ❖ The default temperature set point is -0° F (BASF1, BASF2 and BASF3 models)  
and 36° F (BASR1, BASR2 and BASR3 models)

### 2) How to set Temperature Differential - For service technician Only!

- ① To enter this mode, press [MODE/SET] and [UP or DOWN] until [di] is displayed.
  - ② Then press [MODE/SET] to see current temperature differential.
  - ③ To change the set point, press [UP or DOWN] until the desired value is displayed.
  - ④ At the end of the sequence, press [MODE/SET] to set the value.
  - ⑤ To display the cabinet temperature again, press [UP or DOWN] until [th] is displayed and then press [VERIFY].
- ❖ The default temperature differential set point is 10° F.
  - ❖ According to the default setting, the compressor turns on AT - 4° F and turns off at -14° F (BASF1, BASF2, BASF3 models), the compressor turns on at 31° F and turns off at 41° F (BASR1, BASR2 and BASR3, models)
  - ❖ Compressor ON/OFF : temperature set point  $\pm$  (temperature differential/2)

### 3) How to Verify Cabinet Temperature.

- ① To enter this mode, press [MODE/SET] and [UP or DOWN] until [th] is displayed,
- ② Then press [VERIFY] to see current cabinet temperature.

## Operation

### 4) How to run Turbo Freeze (Applies to BASF1, BASF2 and BASF3 )

- ① To enter this mode, press [MODE/SET] and [UP or DOWN] until [tb] is displayed.
- ② Then press [MODE/SET] for 2 seconds to start turbo freeze.

❖ The turbo freeze mode is chosen then, the compressor will start running continuously for 120 minutes.

### 5) How to stop Turbo Freeze (Applies to BASF1, BASF2 and BASF3 )

- ① During turbo freeze, press [MODE/SET] for 2 seconds to stop turbo freeze.
- ② The [tb] will flash 5 times and then return to normal display mode.

### 6) How to set Defrost Frequency.

- ① To enter this mode, press [MODE/SET] and [UP or DOWN] until [dt] is displayed.
- ② Then press [MODE/SET] to see current defrost frequency.
- ③ To change the defrost frequency, press [UP or DOWN] until the desired value is displayed.
- ④ At the end of the sequence, press [MODE/SET] to set the value.
- ⑤ To display the cabinet temperature again, press [UP or DOWN] until [th] is displayed and then press [VERIFY].

❖ The unit is preset at the factory to defrost every 6 hours (4 defrosts per day).

❖ The defrost frequency can be changed from 4 hours to 12 hours.

❖ During defrosting, [dF] is displayed instead of the cabinet temperature.

### 7) How to run Forced Defrost. - For service technician Only!

- ① To enter this mode, press [MODE/SET] and [UP or DOWN] until [dF] is displayed.
- ② Then press [MANUAL DF] for 2 seconds to start forced defrost.

### 8) How to stop Forced Defrost. - For service technician Only!

- ① During forced defrost, press [MANUAL DF] for 2 seconds to stop forced defrost.
- ② The [dF] will flash 5 times and then return to normal display mode.



## Troubleshooting

<b>Problem</b>	<b>Possible Cause</b>	<b>Remedy</b>
<b>Compressor will not start</b>	Power connection failure.	Check power cord and plug it in.
	Power switch is in off position.	Change it to on position.
<b>The unit does not refrigerate well</b>	Temperature set point is too high.	Correct temperature set point.
	The door is opened too frequently.	
	Loading of too much warm or moist product.	
	Not enough ventilation.	Move the unit to a well ventilated place with at least 7 inches of clearance on all sides.
	Condenser is clogged.	Clean it.
<b>Condensation on cabinet exterior</b>	High moisture air can produce dews during the rainy season.	Wipe with cloth.

# **WARRANTY CERTIFICATE**

## **Warranty Valid Only In the USA**

This warranty is subject to all of the terms and conditions listed below. On-line warranty registration or Warranty card furnished with this unit must be properly executed and returned to BLUE AIR immediately after installation. Failure to complete on-line registration or, to return the warranty registration card to provided location will automatically void all warranties.

## **Standard Warranty**

### ***One(1) Year Parts & Labor Warranty: (On Selected Products – Chest Freezers)***

BLUE AIR warrants to the original purchaser of the BLUE AIR unit sold and all parts thereof to be free from defects in material or workmanship, under normal use and service for a period of one (1) year from the date of sale by Distributor or Dealer, or fifteen (15) months from date of shipment by Blue Air, whichever occurs first. Unit lamps are **NOT** included in the warranty. Our obligation under this warranty shall be limited to repairing or replacing F.O.B. factory any of such products that prove to be defective and which our examination shall disclose to our satisfaction to be defective.

### ***Two(2) Years Parts & Labor Warranty: (On Selected Products – K Series refrigeration equipments)***

BLUE AIR warrants to the original purchaser of the BLUE AIR unit sold and all parts thereof to be free from defects in material or workmanship, under normal use and service for a period of one (2) year from the date of sale by Distributor or Dealer, or fifteen (27) months from date of shipment by Blue Air, whichever occurs first. Unit lamps are **NOT** included in the warranty. Our obligation under this warranty shall be limited to repairing or replacing F.O.B. factory any of such products that prove to be defective and which our examination shall disclose to our satisfaction to be defective.

### ***Three (3) Years Parts and Labor Warranty: (On Selected Products – All refrigeration equipment except Chest Freezers & K Series refrigeration equipments)***

BLUE AIR warrants to the original purchaser the BLUE AIR unit sold and all parts thereof to be free from defects in material or workmanship, under normal use and service for a period of one and two years from the date of sale or twenty one (39) months from date of shipment by Blue Air, whichever occurs first. Unit lamps are NOT included in the warranty. Our obligation under this warranty shall be limited to repairing or replacing F.O.B. factory any of such products that prove to be defective and which our examination shall disclose to our satisfaction to be defective.

- A) Any part returned to the company under the terms of this warranty must be accompanied by the record of the cabinet model number, serial number, return authorization number and such return shall be on the basis of TRANSPORTATION CHARGES PREPAID.
- B) Improper operation due to low voltage condition, inadequate wiring and accident damages are not manufacturing defects and are strictly the responsibility of the purchaser.
- C) Condenser coils must be cleaned at regular intervals. Failure to do so may cause the compressor to malfunction and will void the warranty. This contract does not apply outside the limits of the U.S.A. nor does it to any part which has been subject of misuse, neglect, alteration, accident or to any damage caused by transportation, flood, fire, or the acts of God. This contract is not effective unless the BLUE AIR Warranty Card, furnished with each unit, is properly filled out and mailed back to BLUE AIR within twelve (12) days from the date of installation. The term "Original Purchaser" as used herein shall be deemed to refer to that person, firm, association, or company for whom the refrigeration unit refers to herein is originally installed.

## **Extended Warranty**

One (1) year extended warranty for parts & labor is available for purchase at the time of purchasing equipment from our dealers.

## **Five-Year Compressor Warranty**

BLUE AIR warrants the hermetically sealed compressor for an 60 months, for the **STAINLESS STEEL REACH-INS, PREP TABLES, PIZZA PREP UNDERCOUNTERS, CHEFBASES, UNDERBAR REFRIGERATION EQUIPMENT, GLASS DOOR REACH-INS, GLASS DOOR COOLER, CHEST FREEZERS/COOLERS and COUNTER TOP REFRIGERATION EQUIPMENT.** Not to exceed sixty three(63) months from the date of shipment from Blue Air warehouse, provided upon receipt of the compressor manufacturer examination shows the sealed compressor to be defective. Lack of maintenance will result in a voided warranty. This extended warranty does not apply for any electrical controls, accumulator or wiring harnesses which are covered by the standard warranty.

## **Warranty Claims**

All labor claims or parts must include copy of original invoice submitted directly to Blue Air. All claims must included: a copy of original invoice (Customer Name, address, model name, and Date of Sale) Customer Name, Phone Number, Model & Serial No of unit, date of sale, Distributors or Dealers name and brief description of complaint. On all compressor warranties the compressor model tag must be returned to Blue Air along with the above information. All claims must be reported to Blue Air within one (1) year of occurrence. All compressors have five (5) years warranty coverage. This warranty will not be effective unless the warranty card is returned or registered ([www.blueairinc.com](http://www.blueairinc.com)) to Blue Air within 12 days of installation. Confirm receipt of warranty registration by contacting Blue Air directly (1-866-677-8500)

## **Non Warranty Claims**

Blue Air's warranty service is limited to labor of repairing merchandise and/or parts replaced. This warranty does not authorize any person(s) to assume any obligation or liability other than what the warranty permits. This warranty will be void if such action occurs. Any attempt to repair BLUE AIR products without an official job number issued by BLUE AIR will not be covered by warranty and the services will not be compensated. This warranty does not apply to any part, which has been subject to misuse, neglect, alteration, accident, or to any visible or concealed damage caused by transportation, flood, fire, acts of God, etc.

**Concealed Damage Example**

Styrofoam may hide any hidden dents on the shipment that may not be completely visible. You must inspect all corners and grills thoroughly. If the carrier stacks any contents on the units this can cause glass on the glass door units to break from the inside. All units are checked for any damages before they are released.

**No claims can be made against this warranty for lost product.**

**What Is Not Covered By This Warranty**

**Spoilage of Product** - No claims can be made against this warranty for any spoilage of products, such as food, loss of sales, or consequential damages. BLUE AIR is not responsible for the repair or replacement of any parts that BLUE AIR determines have been subjected after the date of manufacture to alteration, neglect, abuse, misuse, accidents, damage during transit or installation, fire, flood, or acts of God.

**Warranty Is Non Transferable** - This warranty is not assignable and applies only to the original purchaser/user to whom delivered. Any such assignment or transfer will void this warranty and all other warranties implied.

**Improper Usage** - BLUEAIR is not liable in any way for parts or labor coverage for component failure or other damages resulting from improper usage or installation or failure to clean and/or maintain product as mentioned in the warranty packet provided with the unit.

**Outside U.S. (Including Alaska)** - This warranty does not apply to, and BLUE AIR is not responsible for, any warranty claims made on products sold or used outside the United States.

**Improper Electrical Connections** - BLUE AIR is not responsible for the repair or replacement of failed or damaged components resulting from electrical power failure, the use of extension cords, low voltage, or voltage interference to the unit.

**No Implied Warranty of Merchantability or Fitness for a Particular Purpose** - There are no other warranties, expressed, implied or statutory, except parts and labor warranty and compressor warranty as described above. These warranties are exclusive and in lieu of all other warranties, including implied warranty and merchantability or fitness for a particular purpose. There are no warranties, which extend beyond this mentioned description.

**Remote Condensers** - BLUE AIR warrants the original purchaser of the remote cabinet one year parts and labor coverage for all cabinet parts thereof to be free from defects in material or workmanship, under proper use and maintenance service, as specified by BLUE AIR. This warranty is limited to the cabinet only. BLUE AIR is not liable for remote condensing units.

**BLUE AIR Commercial Refrigeration Inc.**  
223 W. Rosecrans Ave, Gardena, CA 90248  
Phone: (866-677-8500), (310-808-0102),  
Fax:(310) 808-0242  
Email: info@blueairinc.com

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Cut along dotted line and mail it back to : BLUE AIR Customer Service Dept. 223 W. Rosecrans Ave. Gardena, CA 90248



**Warranty Registration Card**

Blue Air Commercial Refrigeration Inc.  
223 W. Rosecrans Ave. Gardena, CA 90248  
Tel, 310-808-0102, Fax, 310-808-0242

**Customer Name** \_\_\_\_\_

**Business Name** \_\_\_\_\_

**Telephone:** ( ) \_\_\_\_\_

**Telephone:** ( ) \_\_\_\_\_

**Address (Customer)**

**Address (Business or Installation Site)**

\_\_\_\_\_  
Street

\_\_\_\_\_  
Street

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
Zip

\_\_\_\_\_  
City

\_\_\_\_\_  
State

\_\_\_\_\_  
Zip

**Place of Purchase** \_\_\_\_\_

**Date Purchased** \_\_\_\_\_ **Date Installed** \_\_\_\_\_

**Model Name** \_\_\_\_\_

**Product Serial No.** \_\_\_\_\_

**Extended Warranty Option**

Additional 1 Year Parts & Labor extended Warranty available  
If you are interested, please contact Blue Air Customer Service Dept.

Yes, I would like the extended warranty. /  No, I would not like the extended warranty.

**Signature of Business Owner** \_\_\_\_\_

**Date** \_\_\_\_\_

※ The Warranty becomes void if the attached warranty card is not filled out and returned to Blue Air within 15 days from the purchase date.

## **BLUE AIR**

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223 W. Rosecrans Ave. Gardena, CA 90248

TEL, (310) 808-0102

Fax, (310) 808-0242/0262

Toll Free, 1-866-677-8500

Visit our website at [www.blueairinc.com](http://www.blueairinc.com)