

SECTION 2. INSTALLATION

2-1. INTRODUCTION

This section provides the installation for the Henny Penny Blast Chiller/Freezer.



Installation of this unit should be performed only by a qualified service technician.



Do not puncture the unit with any objects such as drills or screws, or component damage or electrical shock could result.

2-2. UNPACKING

The Henny Penny Blast Chiller/Freezer has been tested, inspected, and expertly packed to ensure arrival at its destination in the best possible condition. The rack supports are secured inside the unit with cardboard, and the slides for the racks are packed inside the unit. The cabinet rests on a wooden skid and is then packed inside a heavy cardboard carton with sufficient padding to withstand normal shipping treatment.



To avoid damage to the components, <u>do not</u> lay the unit on its side. If the unit has been on its side, the unit must be in an upright position for at least an hour before power is applied to the unit.

Check all components for signs of being loose or damaged, and make sure the system has refrigerant.



Any shipping damage should be noted in the presence of the delivery agent and signed prior to his or her departure.

To remove the Henny Penny Blast Chiller/Freezer from the carton, you should:

- 1. Carefully cut banding straps.
- 2. Lift the carton off the unit.
- 3. Lift the unit off the skid.



2-2. UNPACKING (Continued)

2-3. ELECTRICAL



Electrical Box Location



The BCF-24 weighs about 250 lbs (112.5 kg), the BCF-65 about 340 lbs (153 kg), and the BCF/BCM-110 about 364 lbs (165 kg). Care should be taken when lifting unit to prevent personal injury.

- 4. Open door and remove packing from racks and the horizontal slides from the inside of the unit.
- 5. Peel off any protective covering from the exterior of the cabinet.
- 6. Install the slides onto the vertical racks.
- 7. Your blast chiller/freezer is now ready for operation.

The blast chiller/freezer is available as a 208, 230, or 200 VAC, 50 or 60 Hz, single phase unit, both for domestic and international use. The data plate, located on the left side of the unit, will specify the correct electrical supply. The BCF-24 and 65 are shipped with a 6 foot, 7 inch (2 m) cord and plug, and requires a grounded receptacle with a separate electrical line protected by a fuse or circuit breaker of the proper rating. The NEMA number for the plug is NEMA 6-20P.



This unit must be adequately and safely grounded. Refer to local electrical codes for correct grounding procedures. If unit is not adequately grounded, electrical shock could result.

To avoid electrical shock, this appliance must be equipped with an external circuit breaker which will disconnect all ungrounded (unearthed) conductors.

Refer to the table below for electrical ratings:

	U					
Model No.	Volts	Watts	Amps	Freq.	Phase	
BCF-24	208-240	2300	4.3	60	1	
	230	1800	9	50	1	
	200	1800	11	50	1	
BCF-65	208-240	3000	7	60	1	
	230	2900	13	50	1	
	200	2500	12	50	1	
BCF-110	208-240	4600	17	60	3	
and	400	3100	9	50	3	
BCM-110	200	3800	17	50/60	3	

2-4. LOCATION

The BCF-24, BCF-65, and BCF/BCM-110 should be placed in an area where the doors can be opened, for loading and unloading, without interruption.

For proper operation, and the door to seal properly, the cabinet must be level, and can be leveled by means of the adjustable legs.

For maximum efficiency, if the air temperature of the premises is more than 100° F (38° C), the room should have adequate ventilation, taking into account for the heat emitted by the unit.

Minimum clearances around the unit, especially from sources of heat, are shown in the diagrams below:





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A

7 1/2 in (190 mm)

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2-4. LOCATION (Continued)



BCF/BCM-110

The models BCF-110 and BCR-110 require a 1 inch (25 mm) drain line.

2-5. REFRIGERANT INFORMATION

	Refrigerant Type	Amount of Refrig.	Design P High	Pressure Low
BCF-65	R404A	3.3 lbs (1.5 kg)	345 psig (23.8 bar)	190psig (13.1 bar)
BCF-24	R404A	2.4 lbs (1.1 kg)	335 psig (23.1 bar)	195 psig (13.4 bar)
BCF-110 BCM-11	R404A	3.3 lbs (1.5 kg)	425 psig (29.3 bar)	174 psig (12.0 bar)

2-6. COMPRESSOR SIZE

BCF-24

.75 Horsepower

BCF-65

1.5 Horsepower

BCF/BCM-110

2.5 Horsepower



2-7. REVERSING DOOR INSTRUCTIONS







STEP 2

2-7. REVERSING DOOR INSTRUCTIONS (Continued)



STEP 4

2-8. OPERATION CHECKLIST



Using a container 4 inches (100 mm) deep, filled with hot water, insert the Frigiprobe into the water and start the unit in the chilling mode. Refer to the graph at left.

- The water temperature is probably below 145°F (63°C), so phase 1 won't be seen. The unit goes directly to phase 2.
- In phase 2, check that the compressor is regulating the air temperature limitation at around -4°F (-20°C). Use P02 information to read the air temperature, page 3-10.
- In phase 3, check that the compressor is regulating the air temperature limitation at around 32°F (0°C). Use P02 information to read the air temperature, page 3-10.
- In phase 4, check that the compressor is regulating the air temperature limitation at around 37°F (3°C). Read the air temperature directly from the display.

2-9. REFRIGERATION CAPACITIES & FAN SPEED

BCF-24

1000 W (3410 Btu/hr) at -4°F (-20°C) evaporation temperature 350 W (1190 Btu/hr) at -40°F (-40°C) evaporation temperature 2950 RPM evaporator fan

BCF-65

1150~W~(3930~Btu/hr) at -4°F (-20°C) evaporation temperature 400 W (1370~Btu/hr) at -40°F (-40°C) evaporation temperature 2950 RPM evaporator fan

BCF/BCM-110

3500 W (11900 Btu/hr) at -4°F (-20°C) evaporation temperature 1000 W (3400 Btu/hr) at -4°F (-40°C) evaporation temperature 2950 RPM evaporator fan