Isotemp General Purpose and Flammable Materials Storage Refrigeration

Catalog No.
GP Freezer Model 148, 148HK

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Safety Information

Alert Signals

Warning
Warnings alert you to a possibility of

Your satisfaction and safety are important to Fisher Scientific and a complete understanding of this unit is necessary to attain these objectives.

As the ultimate user of this apparatus, it is your responsi-

Unpacking

Save all packing material if apparatus is received dam-

Responsibility for its safe delivery was assumed by the carrier upon acceptance of the shipment; therefore, claims for loss or damage sustained in transit must be

Performance Characteristics

Temperature Ranges

151: 3° to 13°C (37° to 55°F)
152: 3° to 13°C (37° to 55°F)
148: -20° to -10°C (-4° to 14°F)
149: -20° to -10°C (-4° to 14°F)

Temperature Stability

@ 4 °C ±4 °C
@ -20 °C ±4 °C

Electrical Requirements

Models 148, 149, 152:
115 Volts ±10%, 60 Hz, 3.5 Amps

Models 148HK, 149HK, 152HK:
220 Volts +/-10%, 50Hz, 3.5 Amps

Installation

Selecting a Location

Choose a location for the refrigerator that will provide at least four inches of clearance between the cabinet and any adjacent vertical surface at the sides and four inches at the rear. Twelve inches of clearance is required above the top surface of the refrigerated cabinet. Appropriate electrical power must be available. Locate the refrigerator within eight feet of the power outlet so that no extension cord is required.

Leveling the Unit

Warning
For personal safety this unit must be properly grounded.

unit running, check that the line voltage is within ±10% of that specified on the data plate.

The power cord of this instrument is equipped with a three prong (grounding) plug (NEMA 5-15P). This plug mates with a standard three prong (grounding) wall receptacle (NEMA 5-15R) to minimize the potential of an electrical shock hazard. The customer should have the wall receptacle and circuit checked by a qualified electrician to verify the receptacle is properly grounded and is connected to a minimum 15 amp service.

Caution

WARNING: DO NOT under any circumstances cut or remove the third (ground) prong from the power cord. DO

Operation

Initial Start-Up

Turn power on and verify that the condenser fan is running. This model has a condenser fan located on the condensing unit on top of the cabinet.

Temperature Control

To adjust the interior temperature down, simply turn the thermostat knob clockwise. For operation above an altitude of 3000 ft., have the thermostat adjusted by a technician.

Warning
If the unit is tilted in excess of 30 degrees, do not apply electrical power for a minimum of 12 hours.

Condensate Disposal

The condensate drain is at the center rear of the interior

Aluminum Alloys are susceptible to corrosion when exposed to but not limited to most inorganic acids, bases and salts with a pH outside of their passive range of pH 4 to 9 [illegible]

ty of aluminum alloys with mixtures of organic compounds cannot always be predicted from their compatibility with [illegible]

Troubleshooting

This table is intended to assist in resolving user-correctable Refrigerator problems by relating symptoms to their likely causes. If service beyond the scope of this table is required, contact your nearest Fisher Scientific Service Office.

Symptom	Probable Cause	Action
Does Not Run	Unit Unplugged	Plug in Unit
	Blown fuse or tripped circuit breaker	Check fuse or circuit breaker at breaker box
Runs Continuously	Frost buildup on refrigeration coils	Defrost unit
Clicking Sound	The compressor is equipped with a thermal protector. This protector shuts off the compressor when it becomes too hot. A clicking sound occurring about every 30 seconds indicates this protector is working	Unplug unit for 1 hr. Plug in and try running again. If the unit doesn't
Insufficient Cooling	Thermostat set too high	Reduce thermostat setting
	Unit frosted	Defrost unit

Maintenance

Warning

Cabinet Cleaning

The cabinet interior should be cleaned frequently. Any

Warranty

Laboratory instruments and equipment manufactured by Fisher Scientific Company L.L.C. – Laboratory Equipment Division (hereinafter called "the Company") are warranted only as stated below.

[redacted]

correct by repair, by replacement, or by credit to the purchaser, any defect of materials or workmanship which

[redacted]