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Owner's Manual

LOW TEMPERATURE FREEZERS

uncrating & inspecting

The manufacturer IS NOT responsible for transit damage. The consignee is responsible for determining the condition of the shipment as received and is responsible for filing any claim for damage against the carrier. If damage is noted, the following procedure should be followed:

Apparent Loss or Damage

If a visual inspection shows loss or damage upon receipt of this shipment, loss or damage must be noted on the carrier's Delivery Receipt and signed by the carrier's agent. Failure to do this may result in the carrier's refusal to honor the claim.

The carrier will furnish you with necessary forms for filing a claim.

Concealed Loss or Damage

If loss or damage is not discovered until the shipment is unpacked, a concealed damage claim is entered. Make immediate written request to the carrier for inspection. You must make this request for inspection within fifteen days of delivery date. Keep the container and all the packing material. The carrier will furnish you with an inspection report and necessary forms for filing concealed loss or damage claim, since such loss or damage is the carrier's responsibility.

installation requirements

1. Installation of Unit

   The unit should be installed on a solid floor away from direct sunlight or heating vents in a dry room that is maintained between 59°F and 90°F. Make sure the selected spot allows ample room for the lid or door to swing open and that there is 6″ clearance on all sides for ventilation. Once these items have been checked out, move unit into the installed position and LEVEL THE CABINET with provided adjustments and/or enclosed shims. Failure to do so may cause loss of gasket seal, frosting, or door misalignments.

2. Electrical Supply

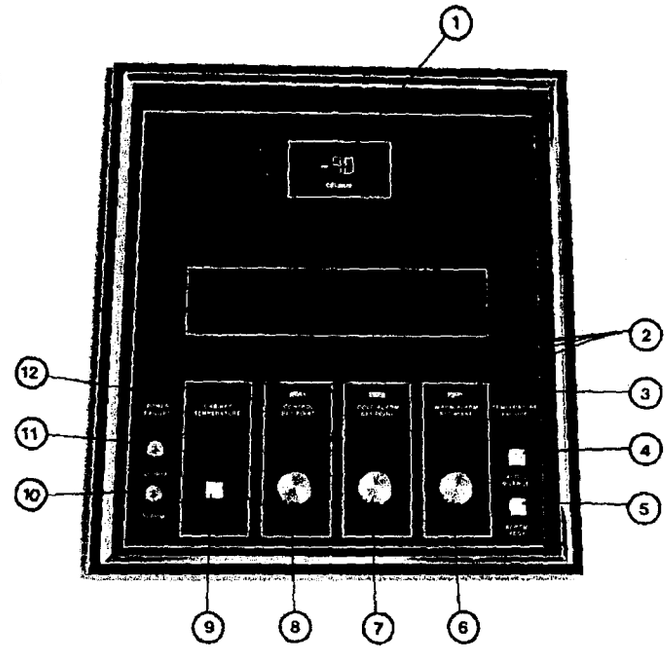
   A properly sized separate circuit should be used that provides voltage within ± 10% of the voltage specified on the product serial plate. If larger variations are noted or anticipated, a voltage stabilizer (part no. 5575) should be used to prevent motor burnout.

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operation

Now that your product has been installed and leveled, take time and note the features on the control panel, as they will differ depending on the model and optional equipment purchased. (See control panel illustrated below.)

(1) LED Temperature Display
(2) Visual Indicator Lights for Display Modes
(3) Temperature Deviation Alarm Light
(4) Temporary Audio Alarm Silence Button
(5) Alarm Test Button (Heats Temperature Probe to Warm Alarm Setpoint when Depressed)
(6) Warm Alarm Setpoint Adjustment Knob
(7) Cold Alarm Setpoint Adjustment Knob
(8) Cabinet Temperature Setpoint Adjustment Knob
(9) Scan Button for Changing Digital Display Modes
(10) Switch for Cabinet Alarm System
(11) Switch for Cabinet Power
(12) Power Indicator Light



Prior to plugging the unit into an electrical outlet, the key operated power switch (11) and alarm switch (10) should be in the OFF position.

FOR MODELS WITHOUT AN ALARM SYSTEM

1. Plug in product.

2. Turn the key operated power switch (11) to the ON position. The compressor should now start and the digital temperature display (1) and the visual indicator light (2) above "cabinet temperature" will be illuminated. The temperature display (1) will show "00" until the cabinet temperature pulls down to 0°C at which time the actual cabinet temperature will be displayed.

3. Depress the scan button (9) until the visual indicator light (2) above "control set point" is illuminated. Depress and turn the "control set point" knob (8) until the temperature display (1) shows the desired operating temperature.

4. Depress the scan button (9) again until the visual indicator light (2) above "cabinet temperature" is illuminated. Your freezer should be operated in this display mode in order to monitor actual cabinet temperature.

5. The controls are now set. When the unit pulls down to the set point temperature, the cabinet is ready for use.

FOR MODELS WITH AN ALARM SYSTEM

Follow steps 1 thru 3 previously described.

4. Depress scan button (9) again until the visual indicator (2) located above "cold alarm set point" is illuminated. Set the cold alarm by depressing and turning the set point knob (7) until the desired temperature (1) alarm point is displayed. (A temperature difference of approximately 10°C is suggested between the desired operating temperature and the cold and warm alarm set points.)

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5. Depress scan button ⑨ again until the visual indicator ② located above the "warm alarm set points" is illuminated. Depress and turn the set point knob ⑥ until the desired temperature alarm point is displayed.

6. Depress scan button ⑨ until the visual indicator ② above "cabinet temperature" is illuminated. This is the normal operating position.

7. When the cabinet temperature becomes colder than the warm alarm set point previously set in step ⑤, turn the key operated alarm switch ⑩ to the ON position. The programming of your control panel is now complete and the cabinet is ready for use.

8. This control panel includes visual and audible alarms for "power failure" and "temperature failure". The "audio silence" button ④, will disengage the audible alarm when depressed. It will automatically reset if the alarm condition no longer exists. The visual alarm indicator light(s) will always remain illuminated during an alarm condition and can not be disengaged.

ALARM TESTING

1. Depress scan button until visual indicator ② over "warm alarm set point" is illuminated. Note alarm set point on temperature display.

2. Depress scan button until visual indicator ② over "cabinet temperature" is illuminated.

3. Now depress and hold the "alarm test" button and observe the temperature display. The temperature should start warming up and the alarm should go off at the warm alarm set point. (Depressing the alarm test button activates a heater attached to the temperature sensor which simulates cabinet warm up). Releasing test button will allow the temperature sensor to cool down and return to normal monitoring within a few minutes after test.

FOR PLASMA FREEZERS

These models are set to operate at a constant −30 °C and incorporate a fixed high temperature alarm which activates at −20 °C.

To operate:

1. Plug in unit.

2. Turn key operated power switch ⑪ to the "ON" position.

3. When the temperature display indicates −20 °C or colder, turn the key operated alarm switch to the "ON" position.

The unit is now ready for use.

For automatic defrost models, it is recommended that the defrost timer be set to initiate defrost cycles during minimum use period to reduce the possibility of temperature alarm condition.

recorders

If your freezer has a recorder, it will operate when the unit is connected to a power source. No alternate power source is required. This is a 60 day strip recorder with pressure sensitive paper. No ink or pen is required. Chart paper is provided, but is not factory installed in your recorder.

Chart Paper Loading

Refer to the numbered diagram while proceeding with the following instructions:

A. Turn power off before loading chart paper.

B. Open recorder by loosening thumbscrew (1).

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C. Unlatch paper retaining clips (2).

D. Open panel to chassis latch (3) RH side plate.

E. Remove supply (4) and take up roller (5). If paper is still attached to supply roller, carefully slide the paper from between the front panel and chart drive. Do not pull the paper backwards through the recorder because of the danger of snagging the pointer.

F. Insert the supply roller into the new roll of chart paper. The perforated end of the paper is nearest to the roller shoulder.

G. Unroll about a foot of paper. Slide the paper between the panel and side plate, sprocket hole first. Keep the paper taut, and close to the drive drum to prevent snagging the pointer.

H. Engage the supply roller shaft in both seating notches (6) and check to be sure that the paper sprocket holes engage the time drum sprockets.

I. Slide the sleeve all the way on the take up roller against the disc.

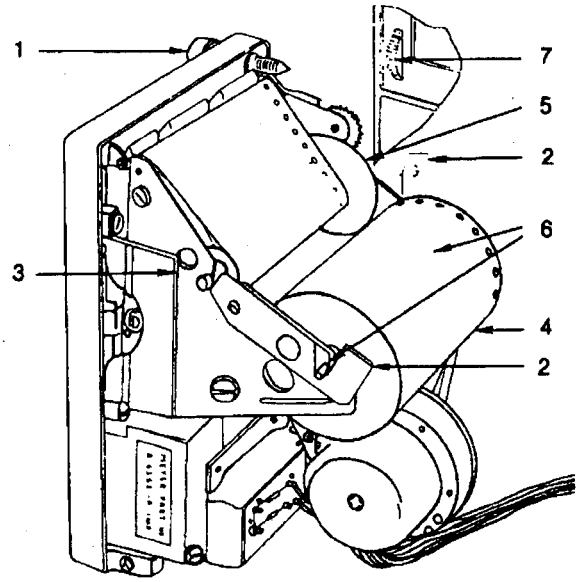
J. Butt paper against disc and tape the paper to the sleeve, printed side out. Wrap a few turns of the paper to be sure paper is started true.

K. Continue rolling paper and place roller shaft into notches. (Lower notch LH side).

L. Close clips (2), latch (3) and recorder front panel. Tighten the thumbscrew (1).

M. Advance paper with the chart advance wheel (7), to assure that paper moves through the recorder. Set to time.

N. A red tracer line appears as a warning on the last three feet of each roll of paper. There is approximately three days usage before the paper will run out.



SERIES 200 REROLL

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