



178MC34HC

School Milk Cooler

Models:

- #178MC34HC 34" Commercial School Milk Cooler
- #178MC49HC 49" Commercial School Milk Cooler
- #178MC58HC 58" Commercial School Milk Cooler

Note:

Please read the manual thoroughly prior to equipment set-up, operation, and maintenance.

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Safety

Warning

DANGER – RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. TO BE REPAIRED ONLY BY TRAINED SERVICE PERSONNEL. DO NOT PUNCTURE REFRIGERANT TUBING.

PELIGRO – RIESGO DE INCENDIO O EXPLOSION. REFRIGERANTE INFLAMABLE UTILIZADO. PARASER REPARADO SOLAMENTE POR PERSONAL DE SERVICIO CALIFICADO. NO PINCHAR LA TUBERÍA REFRIGERANTE.

DANGER – RISQUE DE FEU OU D'EXPLOSION. LE FRIGORIGÈNE EST INFLAMMABLE. CONFIER LES RÉPARATIONS À UN TECHNICIEN SPÉCIALISÉ. NE PAS PERFORER LA TUBULURE CONTENANT LE FRIGORIGÈNE.

CAUTION – RISK OF FIRE OR EXPLOSION. FLAMMABLE REFRIGERANT USED. CONSULT REPAIR MANUAL/ OWNER'S GUIDE BEFORE ATTEMPTING TO SERVICE THIS PRODUCT. ALL SAFETY PRECAUTIONS MUST BE FOLLOWED.

ATENCIÓN – RIESGO DE INCENDIO O EXPLOSIÓN. REFRIGERANTE INFLAMABLE UTILIZADO. CONSULTE EL MANUAL DE REPARACIÓN / GUÍA DEL PROPIETARIO ANTES DE INTENTAR DAR SERVICIO A ESTE PRODUCTO. DEBEN CUMPLIR CON TODAS LAS PRECAUCIONES DE SEGURIDAD.

ATTENTION – RISQUE DE FEU OU D'EXPLOSION. LE FRIGORIGÈNE EST INFLAMMABLE. CONSULTER LE MANUEL DU PROPRIÉTAIRE/GUIDE DE RÉPARATION AVANT DE TENTER UNE RÉPARATION. TOUTES LE MESURES DE SÉCURITÉ DOIVENT ÊTRE RESPECTÉES.

CAUTION – RISK OF FIRE OR EXPLOSION DUE TO PUNCTURE OF REFRIGERANT TUBING; FOLLOW HANDLING INSTRUCTIONS CAREFULLY. FLAMMABLE REFRIGERANT USED.

ATENCIÓN – RIESGO DE INCENDIO O EXPLOSIÓN DEBIDO A LA PERFORACION DE LA TUBERÍA REFRIGERANTE; SIGA LAS INSTRUCCIONES DE MANIPULACIÓN CON CUIDADO. REFRIGERANTE INFLAMABLE UTILIZADO.

ATTENTION – RISQUE DE FEU OU D'EXPLOSION SI LA TUBULURE CONTENANT LE FRIGORIGÈNE EST PERFORÉE; SUIVRE LES INSTRUCTIONS DE MANUTENTION AVEC SOIN. LE FRIGORIGÈNE EST INFLAMMABLE.

CAUTION – RISK OF FIRE OR EXPLOSION DUE TO FLAMMABLE REFRIGERANT USED. FOLLOW HANDLING INSTRUCTIONS CAREFULLY IN COMPLIANCE WITH LOCAL GOVERNMENT REGULATIONS.

ATENCIÓN – RIESGO DE INCENDIO O EXPLOSIÓN DEBIDO A REFRIGERANTE INFLAMABLE UTILIZADO. SIGA LAS INSTRUCCIONES DE MANIPULACIÓN CON CUIDADO CONFORME A LAS REGLAS DE LAMUNICIPALIDAD.

ATTENTION – RISQUE DE FEU OU D'EXPLOSION SI LE FRIGORIGÈNE EST INFLAMMABLE. SUIVRE LES INSTRUCTIONS DE MANUTENTION AVEC SOIN CONFORMÉMENT AUX RÈGLEMENTATION GOUVERNEMENTALE LOCAUX.

Safety

This unit is intended for use in a temperature-controlled environment less than 75 degrees Fahrenheit and 60% relative humidity. Malfunction due to improper conditions is not covered under warranty.

IMPORTANT – Please Read Before Installation:

- If the unit has recently been transported on its side, please let the unit stand upright for a minimum of 24 hours before plugging it in.
- Make sure that the unit has reached the desired temperature before loading the unit with products. This unit is meant for keeping cold products cold, not chilling warm products.
- Make sure that there is proper ventilation around the unit in the area where it will operate.
- Make sure all accessories are installed (i.e., shelves, shelf clips, casters) before plugging the unit in.
- Do not attempt to remove or repair any component of the unit. Consult an authorized service technician for servicing/repair.
- Do not sit/stand inside the unit.
- Please read through the manual in its entirety.
- This unit is designed to perform in a temperature-controlled environment at 60% relative humidity. The unit should be located away from doors, air ducts, and fans that could disrupt airflow and negatively impact performance.

Cabinet Location Guidelines

- Install the unit on strong and leveled surfaces.
 - If the surface is uneven, the unit may be noisy.
 - The unit may malfunction if the surface is uneven.
- Install the unit in an indoor, well-ventilated area.
 - For best performance, please maintain clearance of 4" on the back of the unit.
 - Do not use outdoors. For indoor use only.
 - Avoid direct sunlight.
- Avoid installation in a high humidity and/or dusty area.
 - Humidity above 60% can cause the unit to rust, collect condensation, and may decrease efficiency.
 - Dust collected on the condenser coil will cause the unit to malfunction.
 - Malfunctions due to temperatures above 75 degrees Fahrenheit, humidity above 60%, or improperly maintained condenser coil will void the warranty.
- Select a location away from heat and moisture-generating equipment.
 - Ambient temperatures above 75 degrees Fahrenheit may cause the compressor to malfunction.
 - The unit should not be used in areas over 90 degrees Fahrenheit.
 - Malfunctions due to ambient temperatures above 75 degrees Fahrenheit will void the warranty.
 - Do not install the unit inside a closet or alcove

Inspection

Please read this manual thoroughly prior to equipment set-up, operation and maintenance.

When the equipment is received, all items should be carefully checked against the bill of landing to insure all crates and cartons have been received. All units should be inspected for concealed damage by uncrating the units immediately. If any damage is found, it should be reported to the carrier at once, and a claim should be filed with the carrier. This equipment has been inspected and tested in the Avantco Refrigeration facility and has been crated in accordance with transportation rules and guidelines. Manufacturer is not responsible for freight loss or damage.

Installation

General

Take care when removing the skid so that it will not damage the cooler's finish.

Location

The self-contained refrigeration system located at the bottom of the cabinet requires free air access for proper operation. The back of the cabinet may be positioned against a wall, however, there must be a minimum of four inches of clearance between the sides and a wall. It is necessary to properly level the cooler to provide adequate drainage and efficient functioning of the unit.

Electrical

Check the proposed outlet to be used to ensure that the voltage, phase, and current carrying capacity of the circuit from the electrical panel correspond to the requirements of the cabinet. Plug into a standard 120-volt outlet. NEVER use an extension cord to power any unit. All wiring between the electrical panel and the unit must be done in accordance with the National Electric Code and all state and local codes. Refer to the Serial Tag for all pertinent electrical information.

General Operation

The milk coolers are cooled entirely by cold wall because of copper coils completely encircling the perimeter of the storage compartment. During the refrigeration process, heat is removed through the evaporator tubing and expelled through the condensing unit. It is important that the flow of air through the side louvers is not restricted to ensure the condensing unit operates properly. Under normal operating conditions, any frost that might accumulate on the walls during the "on" cycle of the condensing unit may melt during the "off" cycle. Drains are installed in all milk coolers to accommodate melting frost. Coolers need to be installed over a floor drain as there is no catch pan for melting frost.

Adjusting the Temperature

Your new milk cooler is already factory-set to run at optimum temperatures for food safety and should require no adjustments.

Refrigerators are set to cycle between a minimum temperature of 33 degrees Fahrenheit and a maximum temperature of 40 degrees Fahrenheit.

Adjusting the temperature changes the minimum temperature your unit will run at. Your unit will not run constantly at this setting. To change it, follow these instructions:

DIGITAL CONTROL UNITS

- Hold “SET” for 1 second The display will flash the current minimum temperature.
- Use the arrow buttons to adjust the minimum temperature you want it to run at.
- Press “SET” again to save your settings.

Always remember to calculate the differential if you change the minimum temperature setting. The cabinet temperature will fluctuate up to +7 degrees over your set minimum temperature as the compressor runs and shuts off. Setting the temperature too high will result in unsafe maximum temperatures and possible health code violations.

RUNNING A MANUAL DEFROST CYCLE

Units are pre-programmed to run automatic defrost cycles at preset intervals. However, if you would like to run a manual defrost cycle at any time, please follow the steps below:

1. Press the defrost button (snowflake symbol and down arrow) for approximately 3 seconds.
2. Repeat to stop the defrost cycle.

NOTE: Ensure a drain is accessible for the unit to catch water from defrost cycle.

Safety / Warning

Please pay close attention to the safety notices in this section. Disregarding these notices may lead to serious injury and/or damage to the unit.

ATTENTION

- To minimize shock and fire hazards, be sure not to overload outlet. Please designate one outlet for your unit.
- Do not use extension cords.
- Do not put your hands under the unit while it is being moved.
- When the unit is not in use for a long period of time, please unplug the unit from the outlet.
- After unplugging the unit, wait at least 10 minutes before plugging it back in. Failure to do so could cause damage to the compressor.

UNPLUG CORD

- To minimize shock and fire hazards, please do not plug or unplug the cord with wet hands.
- During maintenance and cleaning, please unplug the unit.

PROPER GROUNDING REQUIRED

To minimize shock and fire hazards, make sure that the unit is properly grounded.

WARNING

- Do not attempt to remove or repair any component unless instructed by factory.
- Make sure that the unit is not resting on or against the electrical cord and plug.
- To minimize personal injury, do not hang on the doors.
- Do not store any flammable and explosive gas or liquids inside the unit.
- Do not attempt to alter or tamper with the electrical cord.

Operation / Maintenance

WARNING

DISCONNECT THE POWER CORD BEFORE CLEANING ANY PARTS OF THE UNIT.

NOTE: We strongly recommend that any servicing be performed by an authorized service technician.

Loading Product

- Make sure there is at least four inches of clearance from the evaporator.
- Ensure all shelves are sitting level and properly secured before loading products.
- Do not store flammable and explosive gas or liquids inside the unit.

Cleaning the Condenser Coil

- For efficient operation, keep the condenser surface free of dust, dirt, and lint.
- We recommend cleaning the condenser coil at least once per month.

Cleaning the Interior of the Unit

- When cleaning the cabinet interior, use a solvent of warm water and mild soap.
- Do not use steel wool, caustic soap, abrasive cleaners, or bleach that may damage the interior finish.
- Wash door gaskets on a regular basis, preferably weekly. Simply remove the door gasket from the frame of the door, soak in warm water and soap for thirty (30) minutes, dry it with a soft cloth, and replace it.
- Check door gaskets for proper seal after they are replaced.

Condenser Coil Cleaning Instructions:

A dusty condenser may lead to high energy consumption, less cooling effectiveness, and compressor damage.

The condenser coil is located at the bottom behind the panel.

1. Disconnect the electrical power from the unit.
2. Remove the front cover and base cover with a screwdriver.
3. Using a soft brush and/or vacuum, remove the dirt, lint, etc. from the finned condenser coil in a vertical direction.
4. Clean the condenser with a commercial condenser coil cleaner, available from any kitchen equipment retailer. Ex. Nobel Chemical Tech Line
5. After cleaning, straighten any bent condenser fins with a fin comb.
6. When finished, be sure to reinstall the front cover and base cover.
7. Reconnect the electrical power to the unit.

Troubleshooting

Problem	Possible Solution
Unit Will not Turn on	<ul style="list-style-type: none"> • Check if the unit is plugged into a proper outlet with power • Check if controller's LED screen lights up • Call service agency
Unit not Getting to Set Temperature	<ul style="list-style-type: none"> • Check that unit is turned on and compressor is running • Check door seals for rips, tears, cuts, etc. • Check air flow inside cabinet of unit • Call service agency
Unit not Holding Set Temperature	Check if drain tube is connected to a floor drain, unit does drain excess frost and water from inside cabinet to floor.
Controller Showing E0 Error	Call service agency
Low Refrigerant Levels	Contact a service technician to check refrigerant levels
Door is Slightly Ajar	Make sure door is completely closed
Condensation is Collecting on the Cabinet and/or Floor	<p>Gasket is not sealing properly Clean, repair, or replace the gasket as necessary</p> <p>Relative humidity is above 60% Move unit to area below relative humidity or lower humidity level</p>