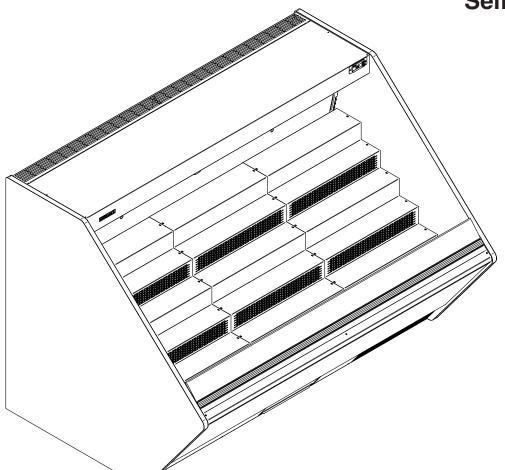
HUSSMANN®





MPCETNM6S Mobile Produce Case Self Contained



Installation & Operation Manual

IMPORTANT Keep in store for future reference!

P/N 3086855_C October 2019

Spanish 3087332

MANUAL- I/O MPCETNM6S



IMPORTANT KEEP IN STORE FOR FUTURE REFERENCE Quality that sets industry standards!

> 12999 St. Charles Rock Road • Bridgeton, MO 63044-2483 U.S. & Canada 1-800-922-1919 • Mexico 1-800-890-2900 *www.hussmann.com* © 2019 Hussmann Corporation

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WARRANTY

ANSI Z535.5 DEFINITIONS



• **DANGER** – Indicate[s] a hazardous situation which, if not avoided, will result in death or serious injury.



• WARNING – Indicate[s] a hazardous situation which, if not avoided, could result in death or serious injury.



• **CAUTION** – Indicate[s] a hazardous situation which, if not avoided, could result in minor or moderate injury.

• **NOTICE** – *Not related to personal injury* – Indicates[s] situations, which if not avoided, could result in damage to equipment.



This warning does not mean that Hussmann products will cause cancer or reproductive harm, or is in violation of any product-safety standards or requirements. As clarified by the California State government, Proposition 65 can be considered more of a 'right to know' law than a pure product safety law. When used as designed, Hussmann believes that our products are not harmful. We provide the Proposition 65 warning to stay in compliance with California State law. It is your responsibility to provide accurate Proposition 65 warning labels to your customers when necessary. For more information on Proposition 65, please visit the California State government website.

REVISION HISTORY

REVISION C

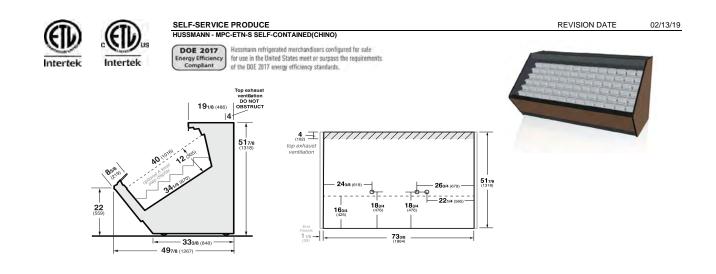
Updated parts list and technical data

REVISION B

Page vi updated; Page 5-7 changed HP, Page 5-4 Parts list; 1-4; Page 2-1, 3-5 and 3-7

ORIGINAL ISSUE — MARCH 2019

INSTALLATION



REFRIGERATION	DATA:			
CASE LENGTHS	CASE USAGE*	CONVENTIONAL CAPACITY ** (BTU/HR/FT)	DISCHARGE AIR * (°F)	VELOCITY (FT/MIN)
6'	SS PRODUCE	980	31~33	275~325
	CASE LENGTHS		CASE LENGTHS CASE USAGE* CONVENTIONAL CASE USAGE* (BTU/HR/FT)	CASE LENGTHS CASE USAGE* CONVENTIONAL CAPACITY ** (BTU/HR/FT) DISCHARGE AIR * (°F)

*APPROVED FOR NON-CRITICAL TEMP PRODUCE ONLY *RONT DISCHARGE AIR MEASURED INSIDE AIR CURTAIN HONEYCOMB **REFRIGERATION NOTES:

1) CAPACITY FOR REFERENCE ONLY

2) USE DEW POINT FOR HIGH GLIDE REFRIGERANTS. CARE SHOULD BE TAKEN TO USE THE DEW POINT IN P/T TABLES FOR MEASURING AND ADJUSTING SUPERHEAT. 3) RATING CONDITION IS NSF TYPE I, 75°F/55% RH

REFRIGERATION DATA CONTINUED:

CONTROLLER	R / AIR SEN	ISOR SET	TTINGS	DEEDOGT	FAILSAFE	DEFROST FRE-	TERM.	DRIP	DEFROST	
USAGE		SET POINT (°F)	DIFFER- ENTIAL (°F)		TIME (MIN)		TEMP (°F) AIR	TIME (MIN)	WATER (LBS/DAY/FT)	
	MEAT	20	4	OFF TIME						
SELF-CONTAINED	DELI	25	4		30	6	50	NA	3.8	
	PRODUCE	30	4							
4) DEFROST IS BASED ON TERMINATION TEMP, WHICH UNDER NORMAL CIRCUMSTANCES,										

END PANEL WIDTH KEY										
# OF END PNLS	END PNL WIDTH (IN.)	TOTAL ADDED LENGTH (IN.)								
1	1.125	1.125								
2	1.125	2.25								

IS SHORTER THAN FAILSAFE TIME.

ELECTRICAL DATA:

STANDARD FANS, HEATERS, LED LIGHTS (115 VOLT)

				_ /() _ /(0) _ /						
EVAPORATOR FANS							CANOPY	CONVENIENCE OUTLETS (OPTIONAL)		
	# OF EVAP FANS	BLADE DIA. (IN.)	BLADE PITCH (°)	AMPS	WATTS	AMPS	WATTS	# OUTLETS	VOLTS	AMPS
6'	4	6.7	15	0.5	32	0.1	15	N/A	N/A	N/A

CONDENSING UNIT AND EVAPORATIVE PANS

			CONDE	NSING UNI	г		EVAF	PORATIVE	PAN	EST. REFG.	
CASE LENGTH	NON	I. HP	REFRIG.	Hz/Ph	Volts	RLA	VOLTS	AMPS	WATTS	CHRG. 404A (OZ)	NEMA PLUG
6'	3/4		R-404A R-404A	60 / 1 60 / 1	208/230 115	6.8 15.0	240 120	6.3 12.5	1500 1500	55	L14-30P L5-30P
	OPTIONAL HIGH OUTPUT LED LIGHTS (11										
CASE LENGTH	HO LED OBTIONAL			AL NOSE LED	MAX. H.O.	LED LOAD					
	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS					
6'	N/A	N/A	N/A	N/A	N/A	N/A	t				

INSTALLATION

UL LISTING

These merchandisers are manufactured to meet ANSI/ UL 471 standard requirements for safety. Proper installation is required to maintain the listing.

FEDERAL / STATE REGULATION

These merchandisers at the time they are manufactured, meet all federal and state/ provincial regulations. Proper installation is required to ensure these standards are maintained. Near the serial plate, each merchandiser carries a label identifying the environment for which the merchandiser was designed for use.

ANSI/NSF-7 Type I – Display Refrigerator / Freezer Intended for 75°F (24°C) / 55%RH Ambient Application

ANSI/NSF-7 Type II – Display Refrigerator / Freezer Intended for 80°F / 55%RH Ambient Application

ANSI/NSF-7 – Display Refrigerator Intended for Bulk Produce

HUSSMANN PRODUCT CONTROL

The serial number and shipping date of all equipment is recorded in Hussmann's files for warranty and replacement part purposes. All correspondence pertaining to warranty or parts ordering must include the serial number of each piece of equipment involved. This is to ensure the customer is provided with the correct parts.

> Recommended operating ambient temperature is between 65°F (18°C) to 75°F (24°C). Maximum relative humidity is 55%.

SHIPPING DAMAGE

All equipment should be thoroughly examined for shipping damage before and during unloading. This equipment has been carefully inspected at our factory. Any claim for loss or damage must be made to the carrier. The carrier will provide any necessary inspection reports and/or claim forms.

Apparent Loss or Damage

If there is an obvious loss or damage, it must be noted on the freight bill or express receipt and signed by the carrier's agent; otherwise, carrier may refuse claim.

Concealed Loss or Damage

When loss or damage is not apparent until after equipment is uncrated, retain all packing materials and submit a written response to the carrier for inspection within 15 days.

LOCATION

These merchandisers are designed for displaying products in air conditioned stores where temperature is maintained at or below the ANSI / NSF-7 specified level and relative humidity is maintained at or below 55%.

Placing refrigerated merchandisers in direct sunlight, near hot tables or near other heat sources could impair their efficiency. Like other merchandisers, these merchandisers are sensitive to air disturbances. Air currents passing around merchandisers will seriously impair their operation. Do NOT allow air conditioning, electric fans, open doors or windows, etc. to create air currents around the merchandiser.

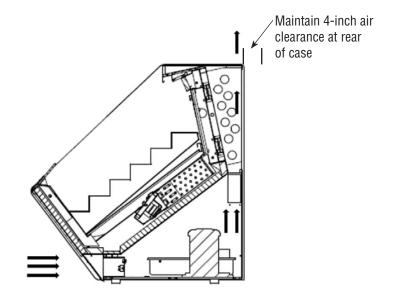
1-2 **INSTALLATION**

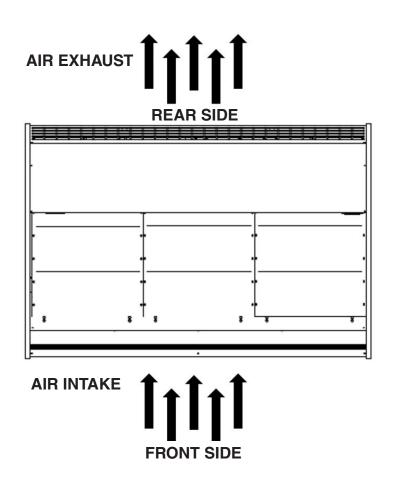
SELF CONTAINED (LOCATION)

Product should always be maintained at proper temperature. This means that from the time the product is received, through storage, preparation and display, the temperature of the product must be controlled to maximize the life of the product.

BE SURE TO POSITION SELF CONTAINED MERCHANDISERS PROPERLY.

SELF CONTAINED models have vented base panels to allow air circulation through the condensing unit. Allow for a minimum 4 in. clearance from walls, merchandisers, and any other large objects near the merchandiser's vented base panels (for self contained models). Blocking or restricting air flow will adversely affect performance and may damage the refrigeration system.





P/N 3086855_C

UNLOADING

Unloading from Trailer:

Lever Bar (also known as a Mule, Johnson Bar, J-bar, Lever Dolly, or Pry Lever)

Move the merchandiser as close as possible to its permanent location and remove all packaging. Check for damage before discarding packaging. Remove all separately packed accessories such as kits and shelves.

Improper handling may cause damage to the merchandiser when unloading. To avoid damage:

- 1. Do not drag the merchandiser out of the trailer. Use a Johnson bar (mule).
- 2. Use a forklift or dolly to remove the merchandiser from the trailer.

Do not walk or put heavy objects on case. Do not place objects atop the unit.



Do NOT stand or walk on top of merchandiser. Do not store items or flammable materials atop the unit.

EXTERIOR LOADING

Do NOT walk on top of merchandisers or damage to the merchandisers and serious personal injury could occur.

MERCHANDISERS ARE NOT STRUCTURALLY DESIGNED TO SUPPORT EXTERNAL LOADING such as the weight of a person. Do not place heavy objects on the merchandiser.

SHIPPING SKID

Each merchandiser is shipped on a skid to protect the merchandiser's base, and to make positioning the case easier.

Remove the top of the crate and detach walls from each other. Lift crate from the skid. Unscrew the case from the skid. The fixture can now be lifted off the crate skid. *Lift only at base of skid!* Remove any braces and/or skids attached (blanket wrapped merchandiser may have skids).

DO NOT LAY MERCHANDISER OVER ON THE FLOOR TO REMOVE SKID.

Once the skid is removed, the merchandiser must be lifted —NOT PUSHED— to reposition. To remove the skid, remove screws attaching skid to the merchandiser.

Check floor where cases are to be set to see if it is a level area. Determine the highest part of the floor.



Do NOT remove shipping crate until the merchandiser is positioned for installation.

1-4 INSTALLATION

MERCHANDISER LEVELING

BE SURE TO POSITION MERCHANDISERS PROPERLY. Level the merchandiser by all four corners. Merchandiser(s) must be installed level to ensure proper operation of the refrigeration system, and to ensure proper drainage of defrost water.

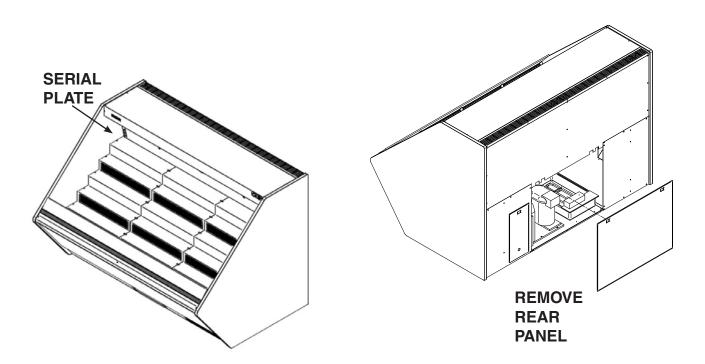
SERIAL PLATE LOCATION

The serial plate is located on the inside of the merchandiser's display area as shown below.

REFRIGERATION UNIT ACCESS

The rear panel may be removed by lifting the panel straight upward and over the tabs on which it is hanging.

Screws will have to be removed from either end of the panel. The panel is installed by reversing the above procedure. Ensure lower front panel is flat against the floor when installed to prevent air circulation problems.



Hussmann Self-Contained Refrigeration Equipment Start Up Check List

Please note that failure to follow this start-up document may void your factory warranty

Step	Startup Activity	Check
1	Locate, read and maintain install/operation manual in a safe place for future reference.	
2	Examine unit. Confirm there is NO damage or concealed damage.	
3	Level the unit, side to side and front to rear.	
4	Remove all shipping brackets/compressor straps/bolts etc.	
5	Unit must be run on a dedicated electrical circuit without the use of an extension cord.	
6	Ensure that the proper electrical requirements for the equipment are supplied.	
7	Verify field electrical connections are tight.	
8	Verify all electrical wiring is secured and clear of any sharp edges or hot lines.	
9	Verify the condensate drain line is properly trapped and pitched.	
10	Verify all required clearances on the sides and back of unit.	
11	Verify there are no air disturbances external to the unit. Heat and air registers, fans, and doors etc.	
Advise	owner/operator that merchandiser must operate at temperature for 24 hrs prio with product.	or to loading

Form HSCW01 Rev. 30MAY12 P/N 0525209_B

LEGAL DISCLAIMER:

Hussmann shall not be liable for any repair or replacements made without the written consent of Hussmann, or when the product is installed or operated in a manner contrary to the printed instructions covering installation and service which accompanied such product.

1-6 INSTALLATION

NOTES:

ELECTRICAL / REFRIGERATION

MERCHANDISER ELECTRICAL DATA

Refer to the technical data sheets and merchandiser serial plate for electrical information.

FIELD WIRING

Field wiring must be sized for component amperes stamped on the serial plate. Actual ampere draw may be less than specified.

ALWAYS CHECK THE SERIAL PLATE FOR COMPONENT AMPERES

ELECTRICAL CONNECTIONS

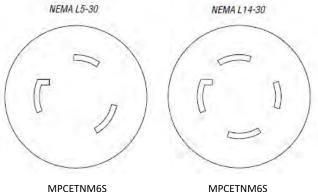
All wiring must be in compliance with NEC and local codes.

ELECTRICAL OUTLET

Before the merchandiser is connected to any wall circuit, use a voltmeter to check that the outlet is at 100% of the rated voltage. The wall circuit must be dedicated for the merchandiser. Failure to do so voids the warranty. Do not use an extension cord. Never plug in more than one merchandiser per electrical circuit.

- Always use a dedicated circuit with the amperage stated on the unit.
- Plug into an outlet designed for the plug.
- Do not overload the circuit
- Do not use long or thin extension cords. Never use adapters.
- If in doubt, call an electrician.

Self-contained models have factory-installed power cords attached at the electrical box.



MPCETNM6S VOLTAGE: 125V / 60 Hz CONDENSING UNIT: M6KP-0075-CAA-212 USED WITH KIT #UQ34 MPCETNM6S VOLTAGE: 125V/250V / 60 Hz CONDENSING UNIT: M6GP-H074-CAV-212 USED WITH KIT #US75

REFRIGERATION (Self Contained Models)

Each self contained model is equipped with its own condensing unit and control panel located beneath the display area. The correct type of refrigerant will be stamped on each merchandiser's serial plate. The merchandiser refrigeration piping is leak tested. The unit is charged with refrigerant, and shipped from the factory with all service valves open.

2-2 ELECTRICAL / REFRIGERATION

WATER OUTLET AND WATER SEAL

The condensate water outlet is located in the center of the merchandiser. The outlet has a factory installed, external water seal.

For self contained models, this water seal drains into the condensate evaporator pan located beneath the merchandiser.

For installation or maintenance of the P-TRAP, use only adhesive compatible with ABS fittings.



NOTE: All lower base panels must be in place when the refrigerator is operating. If not, airflow from the condenser will be directed over the evaporator pan and defrost water in the pan may overflow.



Product will be degraded and may spoil if allowed to sit in a non-refrigerated area.

WARNING

Refrigeration lines are under pressure. Refrigerant must be recovered before attempting any connection or repair.



— LOCK OUT / TAG OUT — To avoid serious injury or death from electrical shock, always disconnect the electrical power at the main disconnect when servicing or replacing any electrical component. This includes, but is not limited to, such items as doors, lights, fans, heaters, and thermostats.

A WARNING

Merchandiser must be grounded. Do not remove the power supply cord ground.

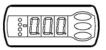
Risk of Electric Shock. If cord or plug becomes damaged, replace only with a cord and plug of the same type.

START UP / OPERATION

Operation

Display

The values will be shown with three digits, and with a setting you can determine whether the temperature are to be shown in °C or in °F.



Light-emitting diodes (LED) on front panel

HACCP = HACCP function is active The other LED's on the front panel will light up when the belonging relay is activated.

Refrigeration
E Defrost
Fan running

The light-emitting diodes will flash when there is an alarm.

In this situation you can download the error code to the display and cancel/sign for the alarm by giving the top knob a brief push.

The Buttons

When you want to change a setting, the upper and the lower buttons will give you a higher or lower value depending on the button you are pushing. But before you change the value, you must have access to the menu. You obtain this by pushing the upper button for a couple of seconds - you will then enter the column with parameter codes. Find the parameter code you want to change and push the middle buttons until value for the parameter is shown. When you have changed the value, save the new value by once more pushing the middle button.

Reprinted with permission from the controller manufacturer.

Examples

Set menu

1. Push the upper button until a parameter r01 is shown

2. Push the upper or the lower button and find that parameter you want to change

3. Push the middle button until the parameter value is shown

4. Push the upper or the lower button and select the new value

5. Push the middle button again to freeze the value.

Cutout alarm relay / receipt alarm/see alarm code

• Push short the upper button

If there are several alarm codes they are found in a rolling stack. Push the uppermost or lowermost button to scan the rolling stack.

Set temperature

1. Push the middle button until the temperature value is shown

2. Push the upper or the lower button and select the new value

3. Push the middle button again to conclude the setting.

Reading the temperature at defrost sensor • Push short the lower button

Manual start or stop of a defrost

- Push the lower button for four seconds.
- (Though not for application 4).

3-2 START UP / OPERATION

Defrost

During defrost a -d- is shown in the display. This view will continue up till 15 min. after the cooling has resumed.

However the view of -d- will be discontinued if: -The temperature is suitable within the 15 minutes -The regulation is stopped with "Main Switch" -A high temperature alarm appears

Alarms

The controller can give alarm in different situations. When there is an alarm all the light-emitting diodes (LED) will flash on the controller front panel, and the alarm relay will cut in.

Upper alarm limit

Here you set when the alarm for high temperature is to start. The limit value is set in °C (absolute value). The limit value will be raised during night operation. The value is the same as the one set for night setback, but will only be raised if the value is positive.

The limit value will also be raised in connection with reference displacement r39.

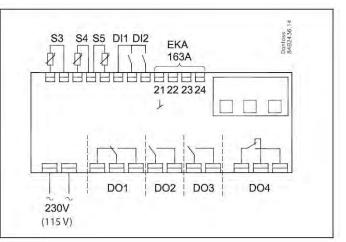
Lower alarm limit

Here you set when the alarm for low temperature is to start. The limit value is set in °C (absolute value). The limit value will also be raised in connection with reference displacement r39.

Signal to the alarm thermostat

Here you have to define the ratio between the sensors which the alarm thermostat has to use. S3, S4 or a combination of the two. With setting 0% only S3 is used. With 100% only S4 is used.

Connections



Power supply

230 V a.c.

Sensors

S3 and S4 are thermostat sensors.

A setting determines whether S3 or S4 or both of them are to be used.

S5 is a defrost sensor and is used if defrost has to be stopped based on temperature.

Digital On/Off signals

A cut-in input will activate a function. The possible functions are described in menus o02 and o37.

External display

Connection of display type EKA 163A (EKA 164A).

Relays

The general uses are mentioned here. See also page 6 where the different applications are shown.

DO1: Refrigeration. The relay will cut in when the controller demands refrigeration

DO2: Defrost. The relay will cut in when defrost is in progress

DO3: For either fans or refrigeration 2

Fans: The relay will cut in when the fans have to operate Refrigeration 2: The relay will cut in when refrigeration step 2 has to

be cut in

DO4: For either alarm, rail heat, light or hotgas defrost

Alarm: Cf. diagram. The relay is cut in during normal operation and cuts out in alarm situations and when the controller is dead (de-energised)

Rail heat: The relay cuts in when rail heat is to operate

Light: The relay cuts in when the light has to be switched on Hotgas defrost: See dia gram. The relay will cut out when defrost has to be done

Data communication

The controller is available in several versions where data communication can be carried out with one of the following systems: MOD-bus or LON-RS485.

If data communication is used, it is important that the installation of the data communication cable is performed correctly.

See separate literature No. RC8AC...

Electric noise

Cables for sensors, DI inputs and data communication **must** be kept separate from other electric cables:

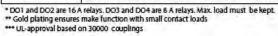
- Use separate cable trays
- Keep a distance between cables of at least 10 cm
- Long cables at the DI input should be avoided

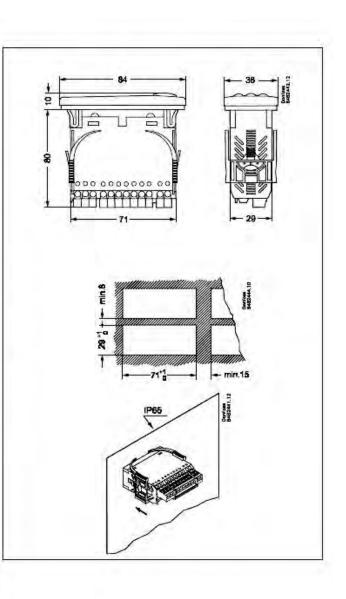


START UP / OPERATION 3-4

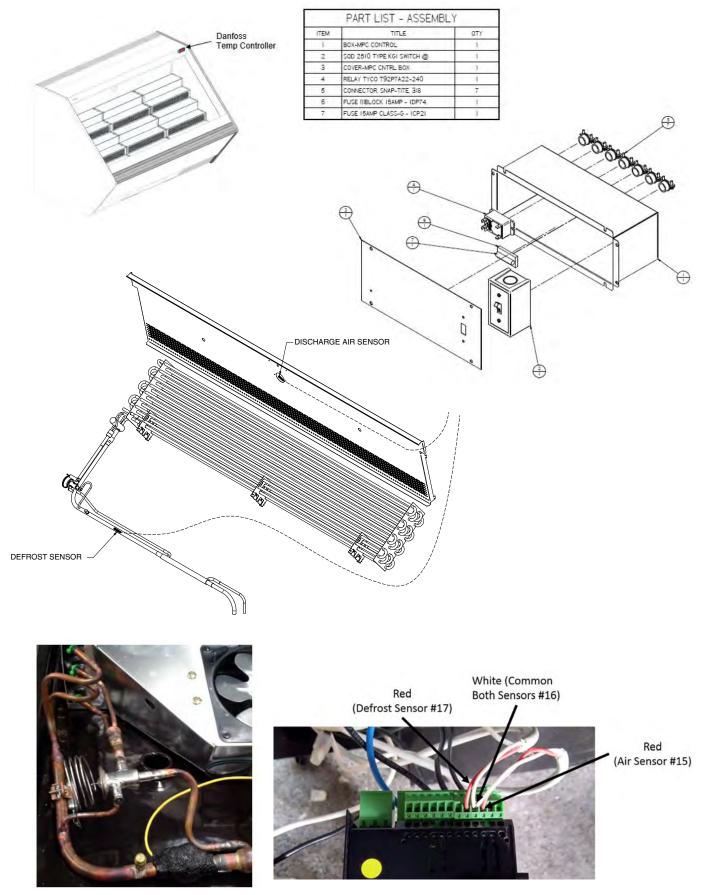
Data

Data	A CONTRACTOR OF A	the state of the s	-				
	115 V a.c. + 10/-15	5 % 2.5 VA, 50/60 H	Ηz				
Supply voltage	230 V a.c. +10/-15	230 V a.c. +10/-15 %. 2.5 VA, 50/60 Hz					
Sensors 3 pcs off either	Pt 1000 or PTC 1000 or NTC-M2020 (5000 ohm / 25°C)						
	Measuring range −60 to +99°C						
Accuracy	Controller	±1 K below -35°C ±0.5 K between -35 to +25°C ±1 K above +25°C					
	Pt 1000 sensor	±0.3 K at 0°C ±0.005 K per grad					
Display	LED, 3-digits						
External display	EKA 163A						
Digital inputs	Signal from contact functions Requirements to contacts: Gold plating Cable length must be max. 15 m Use auxiliary relays when the cable is longer						
Electrical con- nection cable	Max.1,5 mm ² mult	ti-core cable					
	Q	CE (250 V a.c.)	UL *** (240 V a.c.)				
	DO1. Refrigeration	10 (6) A	10 A Resistive 5FLA, 30LRA				
	DO2. Defrost	10 (6) A	10 A Resistive 5FLA, 30LRA				
Relays*	DO3. Fan	6 (3) A	6 A Resistive 3FLA, 18LRA 131 VA Pilot duty				
	DO4. Alarm	4 (1) A Min. 100 mA**	4 A Resistive 131 VA Pilot duty				
ine more	0 to +55°C, During operations -40 to +70°C, During transport						
Environments	20 - 80% Rh, not condensed						
· · · · · · · · · · · · · · · · · · ·	No shock influence / vibrations						
Density	IP 65 from front. Buttons and pack	ing are imbedded	in the front.				
Escapement reserve for the clock	4 hours						
Approvals	EU Low Voltage D marking complied LVD tested acc. EN EMC tested acc. El	1 with 160730-1 and EN 6	0730-2-9, A1, A2				





Control & Sensor Configuration



HUSSMANN CORPORATION • BRIDGETON, MO 63044-2483 U.S.A.

MPCETNM6S

Model	Product Application	Discharge Air Temperature	Defrost Frequency (per day)	Type of Defrost	Temp. Termination	Failsafe Time (Minutes)
MPCETNM6S	Medium Temp. (Dairy, Deli)	27°F	6	Off-cycle	50°F	30

1. The controller controls refrigeration temperature. This is factory installed in the control panel. Adjust this control to maintain the discharge air temperature shown. Measure discharge air temperatures at the center of the discharge louver.

Defrosts are time initiated and temperature terminated for self contained. The defrost setting is factory set as shown above.

To ensure a thorough defrost, defrost must be terminated by the temperature termination setting — not by time.

START UP

Follow the controller start up procedures as detailed in Section 3 of this manual.

Each self contained merchandiser has its own evaporator coil and a pre-set thermostatic expansion valve (TEV). The TEV has been factory set at design conditions to provide the recommended performance.

TEV ADJUSTMENT

Expansion valves may be adjusted to fully feed the evaporator. Before attempting to adjust valves, make sure the evaporator is clear or only lightly covered with frost, and the merchandiser is within 10°F of its expected operating temperature.

Adjust the valve as follows:

a. Attach a probe to the suction line near the expansion valve bulb.

b. Obtain a pressure reading from the factory installed Schraeder valve. Convert the pressure reading to a saturated temperature for the refrigerant.

Temperature (b) minus Temperature (a) is the superheat. The valve should be adjusted so that the greatest difference between the two temperatures is 3°F to 5° F.

Make adjustments of no more than 1/2 turn of the valve stem at a time and wait for at least 15 minutes before rechecking the probe temperature and making further adjustments.

LOAD LIMITS

Each merchandiser has a load limit decal. Shelf life of perishables will be short if load limit is violated.

AT NO TIME SHOULD MERCHANDISERS BE STOCKED BEYOND THE LOAD LIMITS INDICATED.

SOLAR THERMOMETER

MPC models may have an optional solar thermometer. The thermometer is located in the top interior of the merchandiser.



Product will be degraded and may spoil if allowed to sit in a non-refrigerated area.

LOAD LIMIT

STOCKING

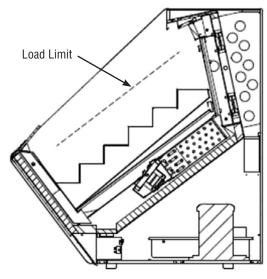
Product should NOT be placed inside the merchandisers until merchandisers are at proper operating temperature.

Allow merchandiser 24 hours to operate before loading product.

Proper rotation of product during stocking is necessary to prevent product loss. Always bring the oldest product to the top and set the newest to the bottom.

AIR DISCHARGE AND RETURN FLUES MUST REMAIN OPEN AND FREE OF OBSTRUCTION AT ALL TIMES to provide proper refrigeration and air curtain performance. Do not allow product, packages, signs, etc. to block these grilles. Do not use non-approved shelving, baskets, display racks, or any accessory that could hamper air curtain performance.

Do not allow product to be placed outside of the designated load limits in the illustration.



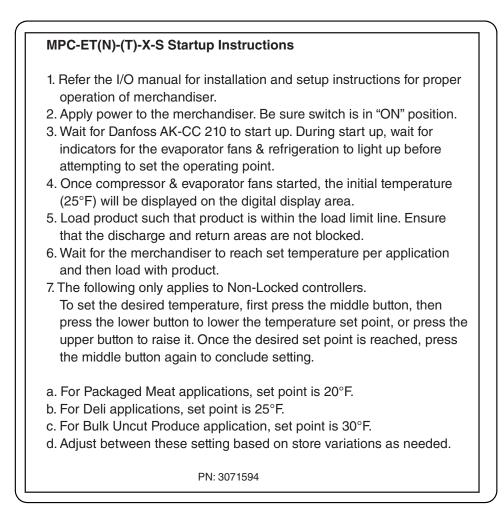
Load Limit Line

3-8 START UP / OPERATION

REFRIGERATION

Each self-contained model is equipped with its own condensing unit located beneath the display area. The unit will be charged per nameplate refrigerant and shipped from the factory with all service valves open, completely ready for operation when electrical power has been connected.

The self-contained refrigeration system which is thermostatically regulated. The thermostat in the case is set to a certain cut out point in which the case will refrigerate until that cut out point is reached and will cease to refrigerate the case by the thermostat.



MAINTENANCE

CARE AND CLEANING

Long life and satisfactory performance of any equipment is dependent upon the care it receives. To ensure long life, proper sanitation and minimum maintenance costs, these merchandisers should be thoroughly cleaned, all debris removed and the interiors washed down, weekly.

Exterior Surfaces

The exterior surfaces must be cleaned with a mild detergent and warm water to protect and maintain their attractive finish. NEVER USE ABRASIVE CLEANSERS OR SCOURING PADS.

Interior Surfaces

The interior surfaces may be cleaned with most domestic detergents, ammonia based cleaners and sanitizing solutions with no harm to the surface. Self contained models empty into a limited capacity evaporation pan, which will overflow if excess water is used in cleaning.

Do NOT Use:

•Abrasive cleansers and scouring pads, as these will mar the finish.

•Coarse paper towels on coated glass.

•Ammonia-based cleaners on acrylic parts.

•Solvent, oil or acidic based cleaners on any interior surfaces.

•Do not use high pressure water hoses.



Do:

•Remove the product and all loose debris to avoid clogging the waste outlet.

•Store product in a refrigerated area such as a cooler. Remove only as much product as can be taken to the cooler in a timely manner.

•Disconnect electrical power before cleaning.

•Thoroughly clean all surfaces with soap and hot water. **DO NOT USE STEAM OR HIGH WATER PRESSURE HOSES TO WASH THE INTERIOR.** THESE WILL DESTROY THE MERCHANDISERS' SEALING CAUSING LEAKS AND POOR PERFORMANCE.

•Take care to minimize direct contact between fan motors and cleaning or rinse water.
•Do NOT flood merchandiser with water.
NEVER INTRODUCE WATER FASTER THAN THE WASTE OUTLET CAN REMOVE IT.

SELF CONTAINED MODELS EMPTY INTO AN EVAPORATION PAN THAT WILL OVERFLOW IF TOO MUCH WATER IS INTRODUCED DURING CLEANING.

•Allow merchandisers to dry before resuming operation.

•After cleaning is completed, turn on power to the merchandiser.



Do NOT allow cleaning agent or cloth to contact food product.

Do NOT use HOT water on Cold glass Surfaces. This can cause the glass to shatter and could result in personal injury. Allow glass fronts, to warm before applying hot water.

REMOVING SCRATCHES FROM BUMPER

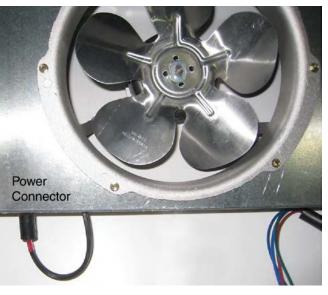
Most scratches and dings can be removed using the following procedure.

- 1. Use steel wool to smooth out the surface area of the bumper.
- 2. Clean area.
- 3. Apply vinyl or car wax and polish surface for a smooth glossy finish.

CLEANING UNDER FAN PLENUM

After cleaning be sure the plenum is properly lowered into position OR PRODUCT LOSS WILL RESULT due to improper refrigeration.

SHUT FANS OFF DURING CLEANING PROCESS.



CLEANING DISCHARGE AIR LOUVERS

Discharge air louvers should be cleaned every six months. Dirty louvers will cause merchandisers to perform poorly. The louvers may be cleaned with a vacuum cleaner. Soap and water may be used if all water is removed from the louvers cells before replacing. Be careful not to damage the louvers.

A WARNING

— LOCK OUT / TAG OUT — To avoid serious injury or death from electrical shock, always disconnect the electrical power at the main disconnect when servicing or replacing any electrical component. This includes, but is not limited to, such items as doors, lights, fans, heaters, and thermostats.

DO NOT FLOOD! Use only enough water necessary to clean

surface. Water must not drip down the case!

Never use ammonia based cleansers, abrasive cleansers, or scouring pads.

CLEANING STAINLESS STEEL SURFACES

Use non-abrasive cleaning materials, and always polish with grain of the steel. Use warm water or add a mild detergent to the water and apply with a cloth. Always wipe rails dry after wetting.

Use alkaline chlorinated or non-chlorine containing cleaners such as window cleaners and mild detergents. Do not use cleaners containing salts as this may cause pitting and rusting of the stainless steel finish. Do not use bleach.

CLEANING COILS

Condenser coils should be cleaned at least once per month. Additional cleaning may be needed depending on the operational environment. A dirty condenser blocks normal airflow through the coils.

Airflow blockage increases energy consumption and reduces the merchandiser's ability to maintain operating temperature.

To clean the coils, use a vacuum cleaner with a wand attachment and a soft (non-metallic) brush to remove dirt and debris. Do not bend coil fins. Always wear gloves and protective eye wear when cleaning near sharp coil fins and dust particles.







NEVER USE SHARP OBJECTS AROUND COILS. Use a soft brush or vacuum brush to clean debris from coils. Do not puncture coils! Do not bend fins. Contact an authorized service technician if a coil is punctured, cracked, or otherwise damaged.

ICE in or on the coil indicates the refrigeration and defrost cycle is not operating properly. Contact an authorized service technician to determine the cause of icing, and to make adjustments as necessary. To maintain product integrity, move all product to a cooler until the unit has returned to normal operating temperatures.

Evaporation Pan is Hot! and poses risk of bodily injury — Always Wear gloves and protective eye wear when servicing. Turn off evaporation pan heater, and allow pan to cool.

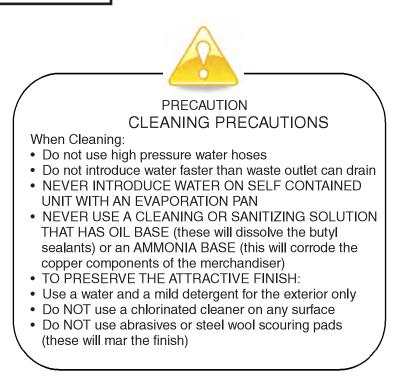
CLEANING EVAPORATION PAN (SELF CONTAINED ONLY)

The condensate water outlet for self contained models empties into a limited capacity evaporation pan.

Debris or dirt accumulation inside the condensate evaporation pan or on the heater coil will reduce the pan's evaporation capacity and cause premature heater failure. The evaporation pan waste water will overflow and spill onto the floor if the heater is not properly operating.

Remove accumulated debris from the evaporation pan. Wipe down heater coil with a cloth and warm water. Be sure to remove any dirt, debris or liquids from the heater coil.

Water introduced during cleaning will cause the evaporation pan to overflow.



Self-Contained Refrigeration Equipment Maintenance Check List

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	Confirm door switches function.	Х									
Verify that all the panels, shields and covers are in place. X	Verify unit doors and lids work and are sealed correctly.	Х									
	Verify that all the panels, shields and covers are in place.	х									

Technician Notes:

Form HSCW03 Rev-29 OCTOBER13

P/N 0525210_C

4-6 MAINTENANCE

NOTES:

SERVICE

REPLACING FAN MOTORS AND BLADES

Should it ever be necessary to service or replace the fan motors or blades be certain that the fan blades are reinstalled correctly. THE BLADES MUST BE INSTALLED WITH RAISED EMBOSSING (PART NUMBER ON PLASTIC BLADES) POSITIONED AS INDICATED ON THE PARTS LIST.

For access to these fans:

- 1. Remove product and place in a refrigerated area. Turn off power to the merchandiser.
- 2. Remove bottom display pans.
- 3. Disconnect fan from wiring harness.
- 4. Remove fan blade.
- 5. Lift fan plenum and remove screws holding bottom of motor to fan basket.
- 6. Replace fan motor and blade.
- 7. Lower fan plenum.
- 8. Reconnect fan to wiring harness.
- 9. Turn on power.
- 10. Verify that motor is working and blade is turning in the correct direction.

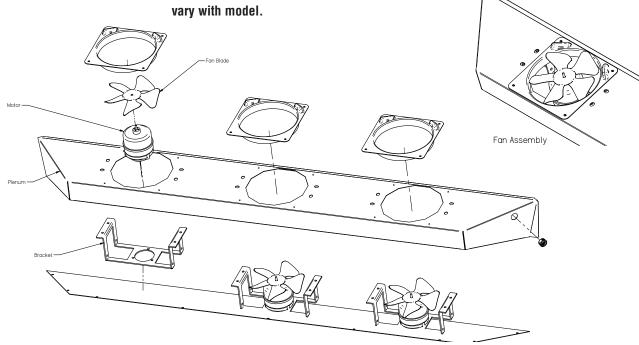
Note: Plenum length and number of fans will vary with model.

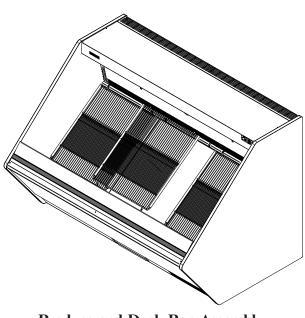
A WARNING

— LOCK OUT / TAG OUT — To avoid serious injury or death from electrical shock, always disconnect the electrical power at the main disconnect when servicing or replacing any electrical component. This includes, but is not limited to, such items as doors, lights, fans, heaters, and thermostats.

- 11. Close air gaps under fan plenum. Warmer air moving into refrigerated air reduces effective cooling. If the plenum does not rest against the case bottom without gaps, apply foam tape to the bottom of the fan plenum to reduce improper air movement. Use silicone sealant to close other gaps.
- 12. Reinstall display pans. Bring merchandiser to operating temperature before restocking.

MPCETNM6S





Produce and Deck Pan Assembly

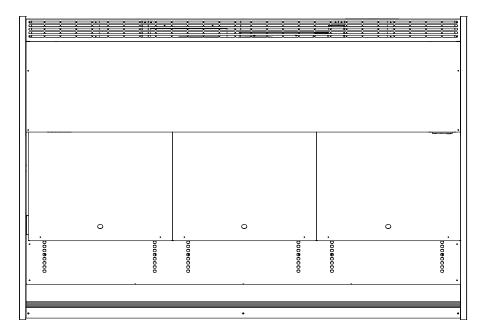
Gain access to coil fan assembly. Lift bottom case deck pan using illustrated finger/access hole to gain access to coil and fan assembly.

WARNING

— LOCK OUT / TAG OUT — To avoid serious injury or death from electrical shock, always disconnect the electrical power at the main disconnect when servicing or replacing any electrical component. This includes, but is not limited to, such items as doors, lights, fans, heaters, and thermostats.



FOR PROMPT SERVICE When contacting the factory regarding problems, be sure to have the Case Model and Serial Number handy. This information is on a plate located on the case itself.

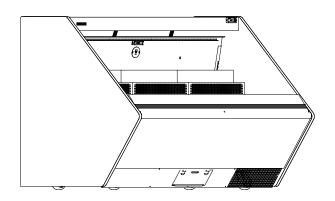


Tips and Troubleshooting

Before calling for service:

- Check power. Ensure reliable electrical power supply to the equipment
- Check shelf loading. Overstocking will adversely affect case performance.

If frost is collecting on fixture or product, verify that store Humidity Control is working properly, and that no outside doors/windows allow moisture into store.



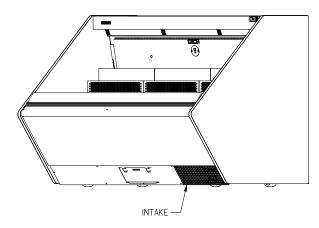
Removing the front panel will allow access to the following components:

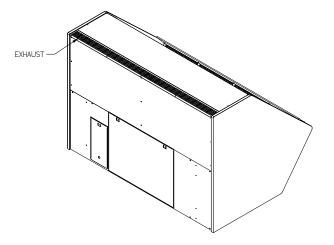
A. Case Switch

Case Controller is located near the top right of the merchandiser.

Intake and Exhaust Vents

Be sure to keep vents clear and free of buildup. DO NOT BLOCK case Bottom or Top panel vents (supplies critical intake airflow to compressor.)





REPLACEMENT PARTS LIST

Standard Parts

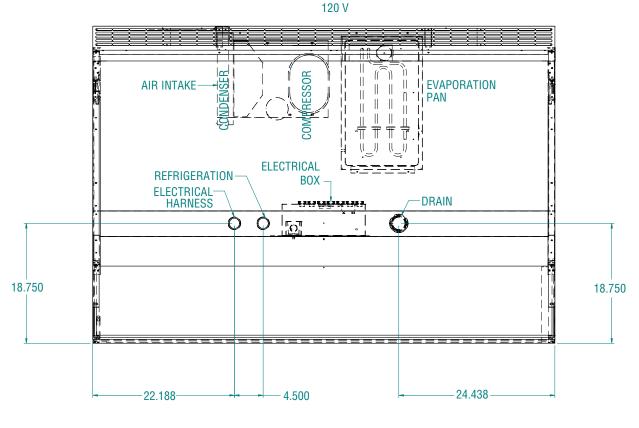
Description	Part Number	MPCETNM6S
Front Plexiglass	3071582	Х
Black End Trim	170301121	Х
Caster	2H16163800	Х
Drain Trap	185279	Х
Cover Drain	0301266	Х

Description	Part number	MPCETNM6S + kit US75 (220V option)	MPCETNM6S + kit UQ34 (120V option)
Distributor	2H01877505	Х	Х
Heat Exchanger	00008480	Х	Х
Evaporator	050033700	Х	Х
Plastic Collar Fan	0409510	Х	Х
Fan Blade	0428111	Х	Х
Evap Fan Motor	0477653000	Х	Х
Bracket Evap Fan Motor	0552827	Х	Х
Sight Glass (Sporlan SA-13S)	225010075	Х	Х
Drier (Sporlan C-163-S)	17S507	Х	Х
Condensing Unit Main Switch	E205705	Х	Х
Evap Pan 1500W-240V	1H95137550	Х	
Evap Pan 1500W-120V	1H95136550		Х
Relay T92P7A22-240	1804241	Х	
Relay T92P7A22-120	0459304		Х
Pre-programmed Controller MPC 220V	3090830	Х	
Pre-programmed Controller MPC 120V	3072023		Х
Power Cord L14-30P	0557599	Х	
Power Cord L5-30P	0557077		Х
Description	-	MPCETNM6S	MPCETNM6S
Refrigeration R404A	Part number	+ kit US75	+ kit UQ34
		(220V option)	(120V option)
TXV Valve	E205982	Х	Х
Condensing Unit (M6GP-H074-CAV-212)	3066464500	Х	
Condensing Unit (M6KP-0075-CAA-221)	3082672500		Х
Description		MPCETNM6S	MPCETNM6S
Refrigeration R448A	Part number	+ kit US75 + VI05	+ kit UQ34 + VI06
		(220V option)	(120V option)
Condensing Unit (M6GP-H090-CAV-212)	3082678500	Х	T
Condensing Unit (M6KP-0075-CAA-221)	3082672500		Х
TXV EGDE-1/3-C	3031930	Х	Х

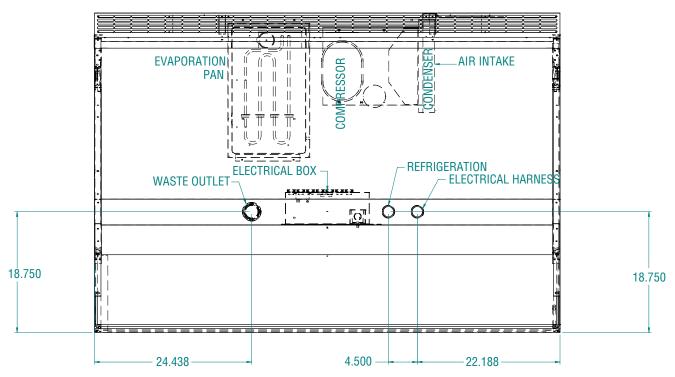
Sheet Metal / Replacement Painted Parts

Description	Part Number	MPCETNM6S
Air Deck Pan MPC	3071720	Х
Bracket MPC Wire Rack	3071600	Х
Display Assy-Step 6 Levels	3072850	Х

MPCETNM6S PLAN VIEWS



220 V

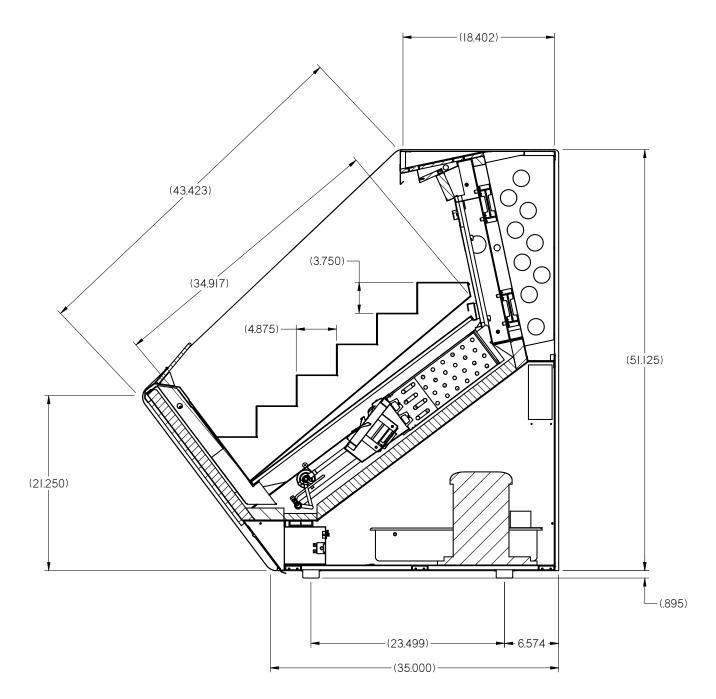


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5-6

MPCETNM6S CROSS SECTION

Dimensions shown as inches



DEFROST DATA

	MPCETNM6S	
Frequency (hr)	6	
Offtime Failsafe (minutes)	30	Note: This data is based on store temperature and
ransare (minaces)		humidity that does not exceed 75°F and 55% R.H. unless otherwise stated. Schedule defrost
Defrost Termination Temperature °F	50	at night while lights are off.

PHYSICAL DATA	MPCETNM6S		
Refrigerant Charge		120V	220V
Kemperant enaige	R404	R448	R448
	54.6 OZ	49 OZ	48 OZ
	1.55 KG	1.400 KG	1.36 KG

REFRIGERATION DATA

	MPCETNM6S
Condensing Unit (hp)	3/4
Condensing Unit Capacity (BTU/hr at std. Rating conditions)	4550

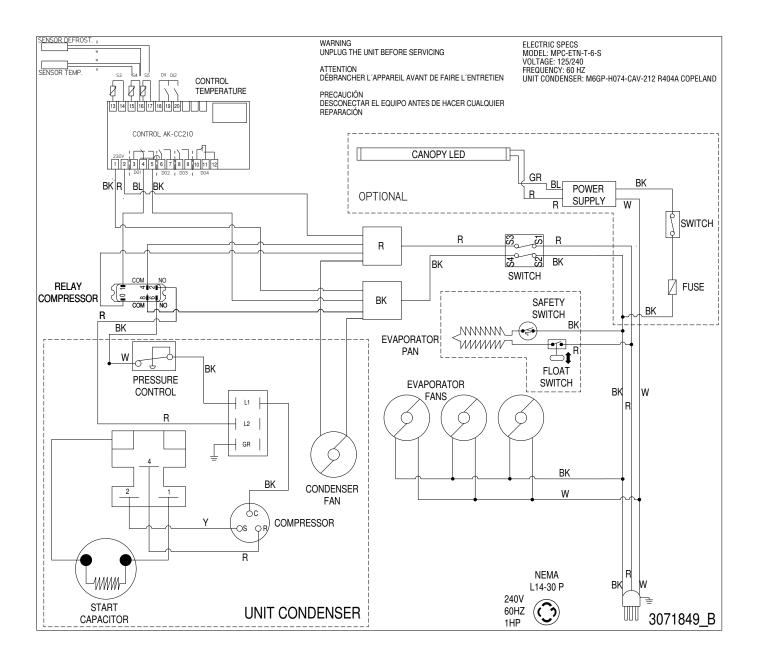
Model	Nominal HP	Refrigerant Type	Optional Kit	Volts	Nema Plug	Fuse Amp	Hz / Ph
	2/4	D 404-	US75	208/230	L14-30P	20.4	co/4
MPCETNM6S	3/4	R-404a	UQ34	115	L5-30P	30 Amps	60/1

ESTIMATED SHIPPING WEIGHT

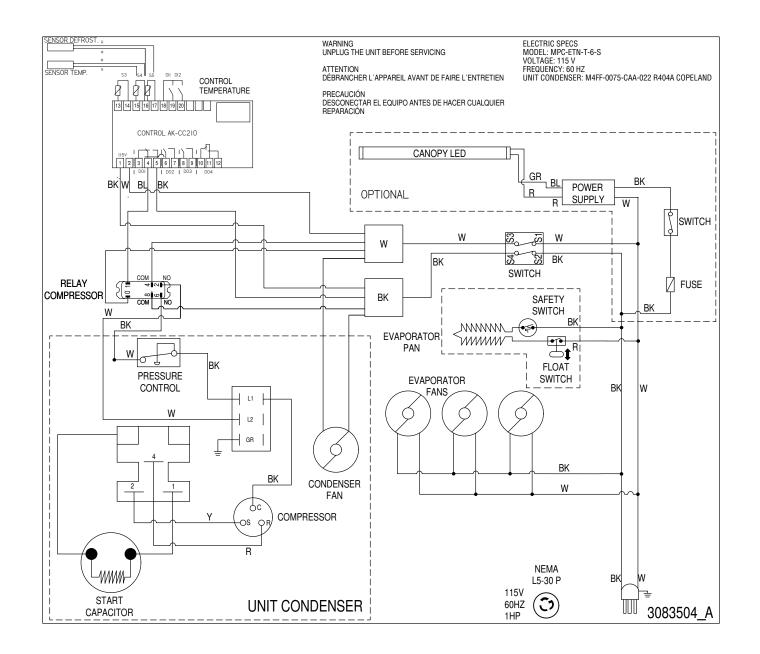
Case			(with shipping crate)
	MPCETNM6S	727 lb (330 kg)	853 lb (387 kg)

Actual weights will vary according to optional kits included.

WIRING DIAGRAM



5-10 SERVICE — TECHNICAL DATA



HUSSMANN

To obtain warranty information or other support, contact your Hussmann representative. Please include the model and serial number of the product.

Hussmann Corporation, Corporate Headquarters: Bridgeton, Missouri, U.S.A. 63044-2483 01 October 2012

Hussmann Corporation

12999 St. Charles Rock Road Bridgeton, MO 63044-2483 www.hussmann.com