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General Information

Case Description: This Booklet specifically covers the Following models: Mobile Produce MPC



Description: Mobile Produce Case model series are Multi-deck, spot merchandisers designed for non-critical temperature applications such as: Non Hazardous Produce. They are available as self-contained models as well as a remote option. Each self-contained model will have it's own condensing unit, factory installed beneath the display area of the case ready for operation when electrical service is connected.

Shipping Damage: All equipment should be thoroughly examined for shipping damage before and during unloading. This equipment has been carefully inspected at our factory and the carrier has assumed responsibility for safe arrival. If damaged, either apparent or concealed, claim must be made to the carrier.

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. The carrier will supply necessary claim forms.

Concealed Loss or Damage: When loss or damage is not apparent until after all equipment is uncrated, a claim for concealed damage is made. Make request in writing to carrier for inspection within 15 days, and retain all packaging. The carrier will supply inspection report and required claim forms.

Location/Store Conditions: The refrigerated merchandisers have been designed for use only in air conditioned stores where temperature and humidity are maintained either 75°F ambient and 55% RH. DO NOT allow air conditioning, electric fans, ovens, open doors or windows (etc.) to create air currents around the merchandiser, as this will impair its correct operation.

Shortages: Check your shipment for any possible shortages of material. If a shortage should exist and is found to be the responsibility of Hussmann Chino, notify Hussmann Chino. If such a shortage involves the carrier, notify the carrier immediately, and request an inspection. Hussmann Chino will acknowledge shortages within ten days from receipt of equipment.

Hussmann Chino Product Control: The serial number and shipping date of all equipment has been 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, in order to provide the customer with the correct parts.

Keep this booklet with the case at all times for future reference.

HUSSMANN® Chino A publication of HUSSMANN® Chino 13770 Ramona Avenue • Chino, California 91710 (909) 628-8942 FAX (909) 590-4910

(800) 395-9229



This equipment is to be installed to comply with the applicable NEC, Federal, State, and Local Plumbing and Construction Code having jurisdiction.

Installation

Location

The Mobile Produce Case display has been designed for use only in air conditioned stores where temperature and humidity are maintained either 75°F ambient and 55% RH.

When selecting the location for placement of this case, avoid the following conditions:

Do not Push, Pull, Adjust or Manipulate the Mobile Produce Case by any glass component.

Doing so will result in:

- •Severe damage to such components
- Glass or Acrylic breakage
- •Serious injury



Case Refrigeration

Operation

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 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.

Controls and Adjustments

Refrigeration Controls				Defrost	Controls		
Model	Product Application	Discharge Air Temperature	Defrost Frequency Cycle	Type of Defrost	Termination Temperature	Fail-safe Time (Minutes)	
Mobile	Non-Critical	29°F to 33°F	20 minutes	Off Time	52°F Evap	20	
Produce	Temp		every 4 hours Temp				

1. The Safe-NET III Controller controls refrigeration temperature. This is factory installed in the control panel. Adjust this control knob to maintain the discharge air temperature shown. Measure discharge air temperatures at the center of the honeycomb. The defrost setting is factory set as shown above.

Condensate Pan Setup

Setup:

There is one condensate evaporator pan or

condensate pan, once water levels are high

then trigger the heater to raise temperature therefore evaporating the water into the case airstream.



Safenet III Programmed Parameters

Parameter	Description	Value	Min	Max
1	Freezer Cut-in warm	40°F	-40°C (-40°F)	40°C (104°F)
2	Freezer Cut-out warm	33°F	-40°C (-40°F)	40°C (104°F)
3	Freezer Cut-in cold	35°F	-40°C (-40°F)	40°C (104°F)
1	Freezer Cut-out cold	28°F	-40°C (-40°E)	40°C (104°E)
5	Compressor ON time delay at Controller Power Lin	0 min 20 coo		50 min 50 coo
5			0 Sec	09 min 09 Sec
6	Compressor Minimum (ON) time	1 min 0 sec	0 sec	30 min 59 sec
7	Compressor Minimum (OFF) time	2 min 0 sec	0 sec	59 min 59 sec
8	Potentiometer off position	10°	5°	57°
9	Potentiometer on position	15°	9°	61°
10	On-Off logical function	1	0=disable (or 1=enable
11		1	0=Celsius or	1=Fahrenheit
12	Sonsor failure mode	2		
12		3	0-Relays	
	(compressor and fan relay		2=Relays	all CLOSE
	failure mode)		3=Dut	<u>y cycle</u>
13	Compressor On Time if Sensor failed	0 hour 45 min	1 min	59 hour 59 min
14	Compressor Off Time if Sensor failed	0 hour 6 min	1 min	59 hour 59 min
15	Defrost Function	1	0=di	sable
10			1-Svetor	a run timo
			1-Syster	i i unite
			2=Compres	sor run time
16	Defrost Method	2	1=El	ectric
			2=Off	-cycle
			3=rever	se cvcle
17	Time to first defrost(Initial frost build time)	2 hour 0 min	10 min	71 hour 59 min
18	Time to subsequent defrost	4 hour 0 min	10 min	71 hour 50 min
10	Defrect duration Time (failedfa)		1. min	A hour 50 min
19	Defrost duration Time (failsafe)			4 nour 59 min
20	Defrost Termination temperature	52°F	-40°C (-40°F)	40°C (104°F)
21	Drip time	0 min 0 sec	0 sec	59 min 59 sec
22	Defrost Cycle at power on	0	0=disable of	or 1=enable
23	Evaporator Temp. Sensor	1	0=disable	or 1=enable
24	Defrost Termination Method	1	0=di	sable
			1=Evan	Sensor
			2=Contro	or Sensor
			3=Digital Sv	vitch (close)
25	Temperature Initiated Defrost Function	0	0=disable	or 1=enable
26	Temperature Initiated Defrost (T = Tspace-Tevap.)	2°F	0°C (0°F)	40°C (72°F)
27	Temperature Initiated Defrost Time Delay	3 min 0 sec	0 sec	59 min 59 sec
28	Temperature Initiated Defrost Time Delay	59 min 0 sec	0 sec	59 min 59 sec
20	After Defrect		0.000	
			0 dia akta	
29	Temperature Alarm Enable	1	U=disable (or T=enable
30	High Temperature Alarm - Warm	46°⊢	_40°C (-40°F)	40°C (104°F)
31	Low Temperature Alarm - Warm	24°F	-40°C (-40°F)	40°C (104°F)
32	High Temperature Alarm - Cold	38°F	-40°C (-40°F)	40°C (104°F)
33	Low Temperature Alarm - Cold	22°F	-40°C (-40°F)	40°C (104°F)
34	Temperature Alarm Differential	4°F	1°C (2°F)	10°C (18°F)
35	Temperature Alarm Time delay	0 hour 20 min	0 min	4 hour 50 min
			0 min	4 11001 39 11111
30				
37	Li emperature Alarm Delay after Defrost	U NOUR 50 MIN		17 nour 59 min
38	Buzzer Function	1	0=disable	or 1=enable
39	Buzzer Period	24.9 sec	0.2 sec	24.9 sec
40	Led Alarm Function	1	0=disable	or 1=enable
41	I ed Alarm Period	2.0 sec	0.4 sec	24.8 sec
12	Defrost Display Lock	1	0-display tor	perature read
42	(dianta, indiantian during definent)			
	(uispiay indication during derrost)		I = IOCK THE DIS	piay on temp.
			2=disp	lay DF
43	Sensor Fault Monitoring Time	1 min 0 sec	5 sec	59 min 59 sec
44	Display Temperature Offset	0°F	-40°C (-72°F)	40°C (72°F)
45	Display Unlock Time	0 hour 45 min	0 min	1 hour 59 min
46	Show Parameter Code Number	1	0=disable (or 1=enable
/7	Parameter Code Number			
+/		3		<u>33</u>
40				
49	Maximum Compressor Run Time	2 hour 0 min	0 min	17 nour 59 min
50	Defrost Heater Duty Cycle Function	0	0=disable	or 1=enable
51	Heater On Time	1 min 0 sec	5 sec	59 min 59 sec
52	Heater Off Time	0 min 30 sec	0 sec	59 min 59 sec

Wiring Color Code

STANDARD CASE WIRE COLOR CODE CODIGO DE COLORES DE LOS ALAMBRES PARA LAS VITIMAS ESTANDAR CODE COULER FOUR FLS DE BOTTIER NORMALISE								
COLOR DESCRIPTION	DESCRIPCION	DESCRIPTION.						
GROUND	TIERRA MASA	MASSE						
ANTI-SWEAT	ANTICONDENSACION	ANTI-SUNTEMENT						
LIGHTS	LUCES	ECLAIRAGE						
RECEPTACLES	ENCHUFES	PRISE DE COURANT						
T-STAT/SOLENOID 200VAC	TERMOSTATO/SOLENOIDE (230VAC)	SOUPAPE A SOLENCIO (230 VAC)						
T STAT/SOLENOD 115V//C	TERMOSTATO/SOLENOIDE (115VAC)	SOUPAPE A SOLENOID (115 VAC)						
T-STAT/SOLENOID 24VAC	TERMOSTATO/SOLENOIDE (24VAC)	SOUPAPE A SOLENOID (24 VAC)						
FAN MOTORS	VENTILADORES	VENTILATEUR						
BLUE CONDENSING UNIT	UNIDAD DE CONDENSACIÓN	UNITE DE CONDENSATION						

USE COPPER CONDUCTORS ONLY UTILISEZ LES CONDUCTEURS DE CUIVRE SEULEMENT UTILICE LOS CONDUCTORES DE COBRE SOLAMENTE 430-01-0338 R101003

CASE MUST BE GROUNDED

NOTE: Refer to label affixed to case to determine the actual configuration as checked in the "TYPE INSTALLED" boxes.

Field Wiring and Serial Plate Amperage

Field Wiring must be sized for component amperes printed on the serial plate. Actual ampere draw may be less than specified. Field wiring from the refrigeration control panel to the merchandisers is required for refrigeration thermostats. Case amperes are listed on the wiring diagram, but always check the serial plate.



Wiring Diagram Index

Model	Description	Size	Diagram #
Mobile Produce	MPC-3X6-SC	2Case	3012746850
Mobile Produce	MPC-6X6-SC	4Case	3014685850

Specification Sheets

Model	Description	Size
Mobile Produce	MPC-3X6-SC and MPC-6X6-SC	2Case and 4Case
Mobile Produce	MPC-3X6-R and MPC-6X6-R	2Case and 4Case



Wiring Diagram



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Wiring Diagram



REFRIGERATION DATA:

		CAPACI (BTU/H	TY *** R/FT)	TEMPERAT	URE (°F)	VELOCITY
CASE LENGTHS	CASE USAGE*	RATI CONDI	NG TION	EVAPORATOR	DISCHARGE AIR ** (°F)	(FT/MIN)
		NSF 7	AHRI 1200	NSF 7	NSF 7	NSF 7
3X6	NON-	890	890	VARIABLE, CU	34~36	130~180
6X6	CRITICAL	890 890		BASED	34~36	130~180

CASE LENGTHS	EST. REFG.	20°F G 6° F	
	(LBS)	GPM	PSI
3X6	1.8	N/A	N/A
6X6	3.7	N/A	N/A

10

*APROVED FOR NON-CRITICAL TEMP PRODUCE ONLY. **DISCHARGE AIR MEASURED AT UPPER SECTION OUTLETS. ***REFRIGERATION NOTES:

1) AHRI 1200 RATING POINT FOR ENERGY CONSUMPTION COMPARISON 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. ADJUST EVAPORATOR PRESSURE AS NEEDED TO MAINTAIN THE

DISCHARGE AIR TEMPERATURE SHOWN. 3) RATING CONDITION IS NSF TYPE I, 75°F/55% RH

REEDIGERATION DATA CONTINUED:

AEI RIGERATION DATA CONTINUED.									
ELEC. THERM SENSOR S	ELEC. THERMOSTAT / AIR SENSOR SETTINGS		DEFROST	тіме	DEFROST	TERM. TEMP	DRIP	DEFROST	
USAGE	CUT IN (°F)	CUT OUT (°F)	TYPE	(MIN)	FREQUENCY (#/DAY)	(°F) COIL ONLY	TIME	WATER (LBS/DAY/FT)	
PRODUCE	35	28	OFF TIME	30	6	55	N/A	1.0	

ELECTRICAL DATA:

	EVAPORATOR FANS		CAN LIGHT	CANOPY OPTIONAL LED MAX. LED LIGHTS LED SHELF LIGHTS (W/ ALL OF			MAX. LED LOAD (W/ ALL OPTIONS) ANTI-SWEAT HEATERS (ON FAN CIRCUIT)			CONVENIENCE OUTLETS (OPTIONAL)			PLUG				
CASE LENGTH	# OF EVAP FANS	BLADE DIA. (IN.)	BLADE PITCH (°)	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	AMPS	WATTS	# OUTLETS	VOLTS	AMPS	TYPE
3X6	1	6.7	25	0.12	8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L5-30P
6X6	2	6.7	25	0.24	16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	L5-30P

ELECTRICAL DATA CONTINUED:

CASE LENGTH	CONDE VOL	ENSING UN TS/PHASE	т	DRAIN EVAP PAN 120V 1 PHASE 240V 1 PHASE			
	115/1	240 / 1	ЦD	AMDE	WATTE		
	AMPS	AMPS		AMPS	WAIIS		
3X6	9.2	N/A	1/2	8.33	1000		
6X6	15	N/A	3/4	8.33	1000		



SELF-SERVICE NON-CRITICAL TEMP PRODUCE REMOTE

HUSSMANN - MPC (CHINO)

Intertek

Energy Efficiency Compliant

DOE 2017

Hussmann refrigerated merchandisers configured for sale for use in the United States meet or surpass the requirements of the DOE 2017 energy efficiency standards.



MPC 3x6, MPC 6x6-Side B Self-Service Produce Display





REFRIGERATION DATA:

CASE LENGTHS		CAPACI (BTU/H	TY *** R/FT)	т	EMPERA	VELOCITY		
	CASE USAGE*	RATING CONDITION		EVAPORATOR		DISCHARGE AIR ** (°F)	(FT/MIN)	
		NSF 7	AHRI 1200	NSF 7	AHRI 1200	NSF 7	NSF 7	
	NON-			Ì				

	EST. REFG. CHRG. (LBS)	20°F GLYCOL 6° RISE	
LENGINS		GPM	PSI
3X6	1.8	N/A	N/A

REVISION DATE 01/19/17

Spec Sheet



case(s) according to local construction and health codes.

Safe-NET III™ TEMPERATURE AND DEFROST CONTROLLER

SAFE-NET III™ USER INSTRUCTIONS

Your refrigerated case uses a Hussmann Safe-NET III™ temperature and defrost controller to precisely maintain the temperature and prevent frost buildup on the cooling coil. LEDs indicate when the compressor or refrigeration is on, when the case is in a defrost cycle, if the temperature is outside the desired range, or if there is a sensor failure.

An adjustment knob allows the temperature to be set within the configured range and can power off the controller and compressor. Your controller has been custom-configured to provide the best temperature and defrost control for your chilled or frozen food.

The front of the controller has an adjustment knob and status LEDs. The back of the controller has connections for sensors and switched equipment.



The Safe-NET III controller includes the following features and connections.

Adjustment knob:

Adjusts the temperature set point.

Turn adjustment knob to OFF to turn off refrigeration system. Unplug merchandiser from power before servicing the unit.



Controller LEDs:

- Compressor Powered On LED (green):
 Lights while the compressor is running or the refrigeration valve is open.
- Defrost Cycle LED (yellow): Lights while the refrigeration coil is defrosting.
- Temperature or Sensor Alarm (red): Lights if the temperature is too warm or too cold. Flashes if a sensor fails.

- Rear connections
- Case temperature sensor;
 - Typically senses the temperature of the air in the case.

Used by the controller to determine when to power on or power off the compressor or refrigeration.

- Evaporator temperature sensor:
 - Senses the temperature of the refrigeration coil. Terminates a defrost cycle when refrigeration coil ice melts.
- Compressor or refrigeration relay:
 - Switches on the compressor or refrigeration valve for cooling.

\land WARNING

The optional evaporator fan remains ON when the adjustment knob is in the OFF position.

DISPLAY

The display includes three red LEDs and two digits for temperature, defrost status, and error codes.

The three display LEDs are red, and their behavior matches the LEDs on the controller.



START-UP

1. Plug in the merchandiser.

The OFF Position does not disconnect line voltage to the case, refrigeration unit, fan, or heater.

- 2. Wait for the self check to complete. During the self check, each LED flashes for one second, then all LEDs turn on for two seconds. If the LEDs do not flash, make sure the adjustment knob is not in the Off position.
 - After the self check, all LEDs turn off until the compressor starts. There may be a delay before the compressor starts. If the red Temperature or Sensor Alarm LED stays on after the self check.
 - The green Compressor Powered On LED turns on when the compressor starts.

NOTE: Do NOT load product until AFTER merchandiser operates for 24 hours and reaches desired operating temperature.

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



- Apply power to the merchandiser. Wait for the self check to complete. During the self check, each LED flashes for one second and then all LEDs turn on for two seconds If the LEDs do not flash, make sure the adjustment knob is not in the "OFF" position.
- 1A.The merchandiser temperature displays at startup. The initial defrost starts two hours later. The display will show the temperature at the start of defrost. This reading will remain displayed during defrost and until it times out, even though the refrigeration mode has been initiated. (The green LED will be lit.)
- 2. The compressor will start after a 30 second delay once power is applied.
- 3. The compressor will continue to run until it reaches its cut-out temperature (Pulldown).
- 4. The refrigeration cycle will continue for the next subsequent scheduled (5-hours) or demand defrost.
- 5. The above process will repeat (steps 3 and 4) until the power is interrupted.
- 6. If power stops, the process will start over at step 1, and the time to subsequent defrost will reset.

TEMPERATURE ADJUSTMENT

Rotate the adjustment knob counter clockwise for a warmer set point or clockwise for a colder set point.

• While the temperature is being adjusted, the optional display shows the set point (cut out value). A few seconds after the temperature is set, the display reverts to showing the sensed temperature in the merchandiser.

ALARMS AND CODES

FLASHING TEMPERATURE OR SENSOR ALARM LED, E1 OR E2

If the Temperature or Sensor Alarm LED (red) on the controller and display is flashing, a temperature sensor has failed. The display shows E1 if the case sensor has failed or E2 if the evaporator sensor has failed.



If the merchandiser sensor fails, refrigeration will run continuously. Turn off, or repeat a duty cycle of a few minutes on and a few minutes off.

DEFROST TERMINATION SWITCH

Merchandisers may use a defrost termination switch, instead of an evaporator sensor to terminate a defrost cycle. The defrost termination switch is temperature activated and senses the completion of defrost.



MANUAL DEFROST



Note: This procedure initiates a manual or forced defrost

1. Note location of knob setting



 Rotate knob fully counterclockwise until it stops (full warm- "OFF" position)



 After 10 seconds, but before 20 seconds, rotate knob fully clockwise until it stops (full cold position)

IMPORTANT: Return the control knob to its original setting (Step 1) once the manual defrost has been

initiated.



TEMPERATURE ADJUSTMENT

- 1. Rotate the adjustment knob counter clockwise for a warmer set point or clockwise for a colder set point.
- 2. While adjusting the temperature, the display shows the set point (cut out value). A few seconds

after the temperature is set, the controller reverts to the sensed temperature in the merchandiser.

3. To verify merchandiser settings, turn the dial to warm and cold as shown above. Output readings should be within one degree of the temperatures shown above.



Service

WARNING ! DISCONNECT THE ELECTRICAL POWER WHEN SERVICING OR REPLACING ANY ELEC-TRICAL COMPONENT.



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.



Condensor and Safenett III Access Panel



Removing the indicated panel will allow access to the follow components:

- A. Thermostat Display
- B. Safenet III Control
- C. Condensor Coil

Intake and Exhaust Vents

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





Service

Compressor Area

Compressor Areas change for size of case and for air flow specifications. Use the diagram below to locate and identify components. Layouts will vary. For further information contact the factory.



- A. Dual Pressure Control
- B. Condensor Fan Motor
- C. condenser coil
- D. receiver

- E. filter drier
- F. site glass
- G compressor



Case Cleaning

To insure long life, proper sanitation and minimum maintenance costs, the refrigerator should be thoroughly cleaned frequently. SHUT OFF FAN BEFORE CLEANING: It can be unplugged within the case, or shut off entire case at the source. The interior bottom may be wiped with any domestic soap or detergent based cleaners. Sanitizing solutions will not harm the interior bottom,

WARNING! DO NOT USE WATER HOSES! A self contained case empties into an evaporator pan that WILL OVERFLOW IF TOO MUCH WATER IS INTRODUCED during cleaning

- USE WATER AND A MILD DETERGENT FOR THE EXTERIOR ONLY
- Wipe interior with damp non abrasive cloth. Soap and hot water are not enough to kill bacteria; a sanitizing solution must be included with each cleaning process to eliminate bacteria.
- Clean any visible debris surrounding or on top of the drain location. The drain is located under the deck pans.
- DO NOT USE A CHLORINATED CLEANER ON ANY SUR-FACE.
- DO NOT USE ABRASIVES OR STEEL WOOL SCOURING PADS (these will mar the finish)

• DO NOT USE A CLEANING OR SANITIZING SOLUTION THAT HAS AN OIL BASE (these will dissolve the butyl sealants) or an AMMONIA BASE (this will corrode the copper components of the case)

Service

- Ensure front and rear intake panel vents remain clear and clean of any debris to ensure optimal case performance.
- To maintain good refrigeration performance, a refrigeration service person should be called periodically (at least twice a year) to clean the discharge honeycomb and remove any accumulated dirt from the condenser coil and condensate evaporator pan on self-contained models. POOR CIRCULATION OF AIR THROUGH THE CONDENSER COIL WILL RESULT IN POOR REFRIGERATION PERFORM-ANCE.
- Dirt accumulation inside the condensate evaporator pan will reduce the pan's capacity and affect the efficiency of the heater causing a burned out heater and an overflow of defrost water onto the store floor.

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.

Hussmann Specialty Products Service Department

IMPORTANT!

FPR PROMPT SERVICE WHEN CONTACTING HUSSMANN CORPORATION BE SURE TO HAVE CASE MODEL AND SERIAL NUMBER IN HAND

For any warranty or service issues not covered by this manual, for tech support, or for warranty service calls, please contact the Hussmann Specialty Products Service Department

If you have any questions concerning information on these instructions please contact:

Hussmann Technical Support	
Hussmann Service Call Center	800-922-1919
Hussmann Parts Department	
Hussmann Warranty	800-398-7402