HUSSMANN



Low, Medium & Ambient Temperature

Lockers with Control Kiosk





Outdoor Locker Assembly

Indoor Locker Assembly

IMPORTANT

See separate instructions (PN 3139727) for Field Software Commissioning.

SMART EXCHANGE

Installation & Operation Manual

Shipped With Data Sheets

P/N 3110238_B March 2021 Spanish P/N 3110240

French P/N 3131231

Manual - I/O Smart Exchange



BEFORE YOU BEGIN

Read the safety information completely and carefully.



The precautions and use of the procedures described herein are intended to use the locker assembly correctly and safely. Please be sure to comply with the precautions described in this manual to protect you and others from possible harm. The definitions below detail and clarify the magnitude and urgency of potential harm, damage and problems arising from misuse of the locker assembly. Relative to their potential danger, the definitions are divided into four parts as defined by ANSI Z535 Series.

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 the locker assembly.

REVISION HISTORY

REVISION B

 Revised instructions for the outdoor canopy frame, cameras and lighting assembly; Added definitions of terminology and updated throughout the manual; Added Appendix

REVISION A

1.....Original issue.

DEFINITIONS OF TERMINOLOGY

The definitions below are a description of the terminology used throughout this installation and operation manual.

- Refrigerated module: refers to refrigerated ambient, medium and low temperature lockers with a refrigeration system
- Locker: refers to the small, metal compartment(s) located in dry or refrigerated modules
- Locker assembly: refers to dry ambient, refrigerated ambient, medium temperature and/or low temperature modules assembled together in a lineup
- Kiosk or control kiosk: refers to the electronic component module

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A CAUTION



This manual was written in accordance with originally perscribed components that is subject to change. Hussmann reserves the right to change all or parts of the locker assembly for future stores such as, but not limited to, controllers, refrigeration and electrical specifications and requirements.



Personal Protection Equipment (PPE)

Only qualified personnel should install and service the locker assembly and / or components. Personal Protection Equipment (PPE) is required whenever servicing any components of the locker assembly. Wear safety glasses, gloves, protective boots or shoes, long pants, and a long-sleeve shirt when working with the locker assembly. Observe all precautions on tags, stickers, labels and literature attached to the locker assembly.











Contractors shall strictly adhere to specifications provided by the Engineer of Record (EOR), as well as US Environmental Protection Agency regulations, OSHA regulations, and all other federal, state and local codes. This work should only be done by qualified, licensed contractors. There are numerous hazards, not limited to, but including: burns due to high temperatures, high pressures, toxic substances, electrical arcs and shocks, very heavy weights with specific lift points and structural constraints, food and product damage or contamination, public safety, noise, and possible environmental damage.

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 controllers, electrical panels, condensers, lights, fans, and heaters.



Proper Field Wiring and Grounding Required! Failure to follow code could result in death or serious injury. All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE, SHOCK and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state electrical codes.



Be sure to place the locker assembly on solid ground and take measures to prevent it from tipping over. If the ground is not solid or the place is not appropriate, it may lead to damage to the locker assembly and personnel injury.



The locker assembly shall not be installed in a place where flammable or volatile materials are stored. Otherwise, it may cause an explosion or fire. It shall not be installed in areas with acid or corrosive gases. Otherwise, it will cause leakage or electric shock due to reduced insulation class arising from the corrosion of electrical products.

A WARNING



Please use a junction box with a ground wire to prevent electric shock. If the power supply is not grounded, contact an electrician, otherwise it may cause electric shock.



Do not connect the grounding wire to the grounding wire of gas pipe, water pipe, lightning conductor and telephone; otherwise, it will lead to electric shock.



Please strictly observe the rated voltage frequency on the label of this product; otherwise it will cause fire or electric shock.



Do not store volatile or flammable materials in or on top of this device; otherwise it may cause explosion or fire.



Do not insert metal objects such as nails or wires into the vents or gaps in the device; otherwise, it may result in electric shock or injury due to actuation of the drive components.



Before performing any repair or maintenance, be sure to disconnect the power at the main disconnect, otherwise it may lead to electric shock or personnel injury



Do not touch electrical parts (power plug, etc.) or operate the switch with wet hands, otherwise it will cause electric shock.



It is forbidden to pour water directly onto or inside of the locker assembly or to place a container containing liquid on the locker assembly. Liquid spills will reduce the degree of insulation and cause electric leakage or electric shock.



Please do not knot, tamper, crush or destroy the power cord (if used or supplied).



Users are not allowed to disassemble, repair or modify this product. Otherwise, it may result in fire or personal injury and void the warranty.



Before moving this product, disconnect the power supply, and be sure not to damage the wiring, the power cord, or wire whip. Otherwise it may cause electric shock or fire.



Dust accumulation or poor connection will cause heating or fire.



If the product is unused for a long time in an unsupervised area, please ensure that children cannot approach the product when doors are not closed completely and locked (Otherwise, children may climb and be trapped in the cabinet).



The product disassembles and scrap shall be conducted by professionals. If it is placed without management, it may trap children.



The power supply conforming to the specification on the serial plate of this product may serves as a separate dedicated power supply (equipped with an isolator).



Do not preserve non-airtight acidic or alkaline samples. It will corrode the box inner walls and electrical components.



When powering off or restarting the device after power is turned off, you need to check the product conditions. Changes in the settings may damage the saved items.



When the overheating alarm is caused by poor heat dissipation of the product, please first transfer the items in the cabinet to other suitable containers for storage, and then inform the professional maintenance service personnel.



When moving the product, be careful not to tip the device over to prevent damage or personal injury.



When this product has an emergency failure, please do not repair without authorization, and promptly notify the professional maintenance technicians.



When the product is not used for a long time, disconnect the power supply to prevent electric shock, leakage or fire caused by aging insulation.

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REFRIGERATION Refrigeration
Standalone Operation

Thank you for purchasing the Smart Exchange Food Locker!

Before you begin, please read the installation instructions completely and carefully.

Hussmann Corporation shall not provide any safety guarantee for the use, purpose and method beyond this instruction manual. The content within this instruction manual is expected to be complete and correct. If you find any errors or omissions, please contact our business department or distributor.

No individual or organization may reproduce any part of this instruction manual in any form without the prior written consent of Hussmann. This product is equipped with components including a variety of security and alarm functions, a remote alarm system and automatic temperature recording devices.

The lockers are manufactured to protect products in the cabinet. Please contact your local sales representative or visit www.hussmann.com for more information. Hussmann is responsible for product failure from meeting the requirements of fixed conditions, and shall not be responsible for sample and reagent losses restored in product.

For questions about camera kit installation instructions contact the Hussmann Support Center (800)-592-2060.

For camera operation and specifications, see instruction manual from the camera manufacturer.

ENVIRONMENTAL CONCERNS

Hussmann recommends responsible handling of refrigerants that contain Hydrogen, Fluorine and Carbon (HFCs). Only certified technicians may handle these refrigerants. All technicians must be aware and follow the requirements set forth by the Federal Clean Air Act (Section 608) for any service procedure being performed that involves refrigerant.

Additionally, some states have other requirements that must be adhered to for responsible management of refrigerants.

SERVICING

Component parts shall be replaced with like components. Service is to be performed by factory authroized service personnel, so as to minimize the risk of possible ignition due to incorrect parts or improper service. Contact your Hussmann representative to arrange servicing.



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.

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INSTALLATION

SPECIAL INSTALLATION REQUIREMENTS

Consult with the appropriate structural design professional for special installation requirements in your area for conditions not covered by this design. See below.

- Sites where an active fault could cause the ground to rupture at the surface
- Sites defined as Site Class F in ASCE 7-16, Chapter 20 (poor or liquefiable soil). These sites require a site response analysis to be performed by a Geotechnical Engineer in order to determine the Sds value, per ASCE 7-16 Section 11.4.7
- Sites where the refrigerated modules are installed above ground level
- Mountaintop sites in Hawaii where the effective design wind speed (per ASCE 7-16 Figure 26.5-2B) exceeds 180 mph
- Sites in Florida or Southeast Louisiana where the locker assembly has an unobstructed view of an ocean or large lake and / or wind speeds right on the coast/beach can exceed the rated capacity of the locker assembly's anchorage
- Sites where both Kzt > 1.5 and V > 145 mph per ASCE 7-16, Section 26.8. This would be sites where the locker assembly will be sitting on the top of, or face of, any terrain feature (hill, ridge, escarpment, etc.) with a slope greater than 1:10 in any of the following regions. For reference, 1:10 slope is about the maximum possible for pushing wheelchairs or riding bicycles.
- Florida south of Orlando
- Within 50 miles of the Gulf of Mexico
- North Carolina or South Carolina within 10 miles of the ocean
- Installations in hurricane zones

UL LISTING

The refrigerated modules are safety listed with UL-471 and sanitation listed to NSF-7. The control kiosk is safety certified to UL-60950-1 & UL-60950-22. Proper installation is required to maintain this listing.

FEDERAL / STATE REGULATION

Locker assemblies at the time manufactured, meet all federal and state/ provincial regulations. Proper installation is required to ensure these standards are maintained. A key must be used to remove the louver panel or kiosk panel See the serial plate.

SERIAL PLATE LOCATION

Serial plates are located for each module behind the top panel just above the locker cabinets. The serial plate contains information about the specific model and its operating parameters. A key is needed to remove the front louvre panel to access the serial plate.



Figure 1-1 Serial Plate Location

LOCKER ASSEMBLY LOCATION

Locker assemblies are designed for temporarily holding products in both indoor and outdoor environments.

NOTICE

A 4-inch unobstructed space between the rear of the locker assembly and the nearest structure must be maintained for proper air circulation. While locker assemblies are designed to work in the harshest conditions, below is a list of things to consider when choosing outdoor placement location:

- Exposure to sunlight
- Exposure to strong wind currents
- Exposure to rapid temperature changes
- Exposure to areas inclined to flooding

PRODUCT TEMPERATURE

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



Locker assembly must operate for 24 hours before loading product.

Regularly check temperatures. Do not break the cold chain.

Keep products in cooler or freezer before loading into the locker assembly.

Medium temperature refrigerated modules are designed for ONLY loading pre-chilled products. Low temperature refrigerated modules are designed for ONLY loading frozen products.



QR CODE

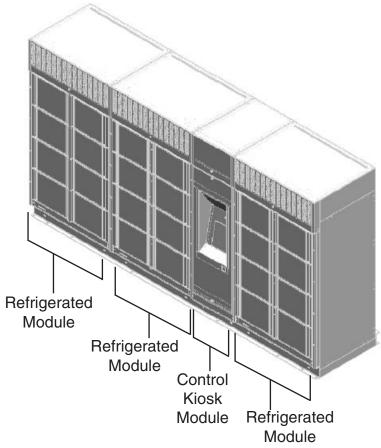
Refrigerated modules have a QR code near the serial plate, which is located above locker cabinets of each module. Once you scan the QR code, all of the information about that the locker assembly will be at your fingertips. Links to installation manuals and data sheets, as well as a link for ordering replacement parts from Hussmann's Performance Parts Website.

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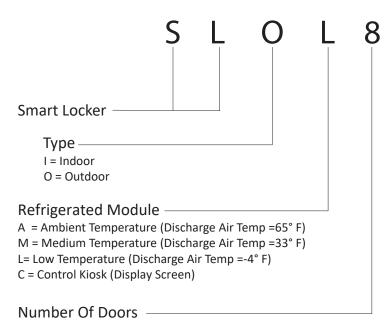
REFRIGERATED MODULE NAMING CONVENTION

Smart Exchange locker assembly follow the naming convention listed below.

Model numbers are listed on the serial plate for each module.



SMART EXCHANGE MODEL KEY



SITE PREPARATION

The locker assembly has a modular design based on customer requirements. Suitable site requirements must be met for the refrigerated modules to perform properly. A stable and firm base for the locker assembly to be secured to is the most important requirement when selecting location. Hussmann recommends a concrete slab of at least 6" thick and extending beyond the outer edges of the refrigerated module no less than 12" reinforced with ½" steel rebar according to local building codes.

The illustration below is an example of the plan view used to locate and place the anchor bolts in their proper locations.

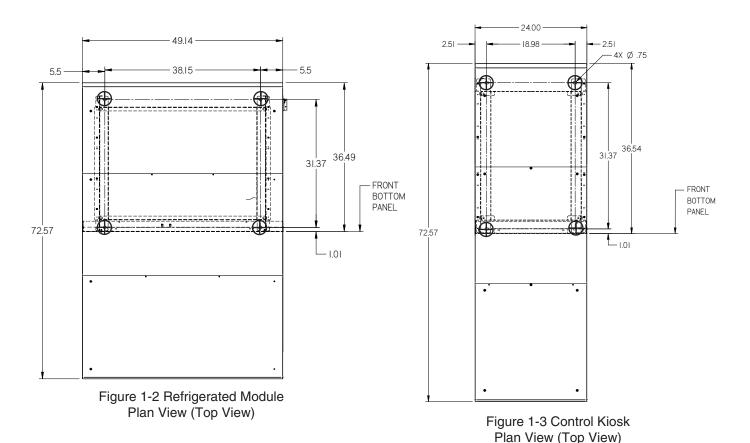
Using blueprints, measure off and markbolt hole locations of the locker assembly footprint. Walk the area, noticing any dips or mounds, use a string level and a transit. If no new conrete has been laid, holes in the concrete can be drilled and 5/8" anchors can be used to secure the locker assembly in place.

NOTICE

Always comply with your local government's building codes.

Modules may be configured differently. Consult Hussmann for specific requirements.

Anchor Bolt Locations shown with $= \bigoplus$



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SHIPPING DAMAGE

Control kiosk and refrigerated modules should be thoroughly examined for shipping damage before and during unloading.

Refrigerated modules have 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 refrigerated modules are uncrated, retain all packing materials and submit a written request to the carrier for inspection, within 15 days.

SHIPPING SKID

Each refrigerated module and control kiosk (module) is shipped on a skid to protect the base and to make positioning easier.

Do not remove the shipping skid until the refrigerated modules are near the final location. The shipping skid is fastened to the refrigerated module's base with bolts. Remove the bolts in order to remove the skid. Once the skid is removed, modules must be lifted — NOT PUSHED— to reposition.

UNLOADING FROM TRUCK / TRAILER

Unless specifically arranged otherwise, it is the customer's responsibility to arrange the off-loading, unpacking, and moving of the locker assembly to the final site location. Improper handling may cause damage when unloading. A forklift is recommended. Pallet jacks can also be helpful in moving a refrigerated module to its permanent location.

UNLOADING INDOOR REFRIGERATED MODULES

Indoor refrigerated modules can be tilted over on the compressor side in order to move the refrigerated modules into the store if shipped with a tilt-rider kit. The refrigeration system can not be started until after 24 hours after it has been tilted over on its' side. Damage to the refrigeration system may result if the refrigerated modules are started up sooner.

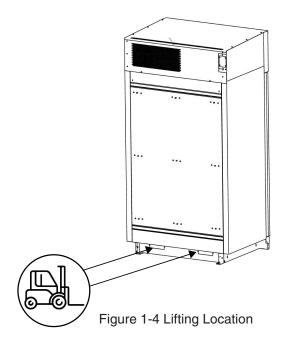
Do not start refrigeration until 24 hours after condensing units were righted after being tilted or tipped over.

A WARNING

Use extreme caution when lifting or moving refrigerated modules. Tall objects may be prone to tip over. Always remain at a safe distance to avoid severe injury or death.

- 1. Unstrap and remove packaging from the separately shipped items for the canopy.
- 2. Lift each refrigerated and control kiosk module from the back side. Position the forks under base at the center until forklift carriage is flush against the module's base.

It may be necessary to cut or partially remove the shipping skid in order to access the base of each module.



3.Once the forks are completely underneath, the refrigerated module can be slowly lifted. Make sure the module remains stable througout the lifting process.

When moving the refrigerated modules, keep distance between it and the ground to a minimum. It may also be helpful to secure the refrigerated module to the forks via rope or straps.

4. The refrigerated module may be moved at its end to help position to the final location. Start removing the shipping skid at bolt hole locations around the locker assembly.

REFRIGERATED MODULE LEVELING

Line the refrigerated moduled and control kiosk up in the order needed (only place in level locations that are solidly supported).

Using a 4 ft. level, ensure level from front to back and back to front. Level modules by all four corners. Place shims underneath the base as needed in order to adjust and make the refrigerated module or control kiosk level.

A WARNING

Proper Field Wiring and Grounding Required! Failure to follow code could result in death or serious injury. All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state electrical codes.

MECHANICAL INSTALLATION

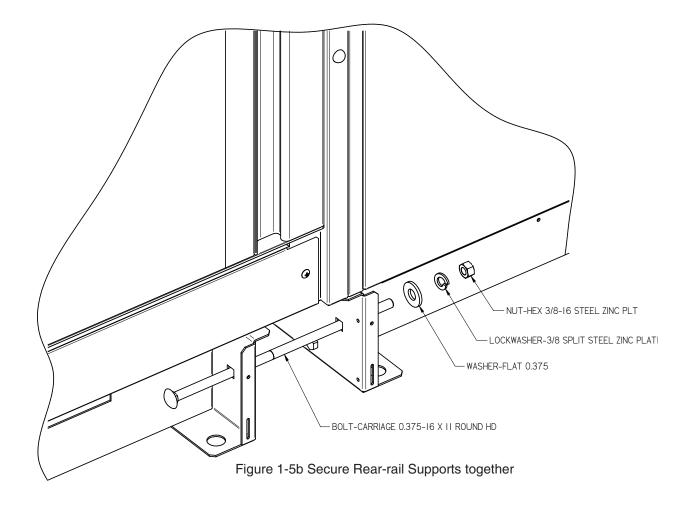
FIT & SECURE REFRIGERATED MODULES TOGETHER

Refrigerated modules or control kiosks are bolted together at rear-rail supports as shown below.

Use bolt, washer and nut to fasten and secure together at the rear of refrigerated modules.



Figure 1-5a Bolt, Washer, and Nut for Rear Base Bracket



INSTALL CONCRETE WEDGE ANCHORS

Front Concrete Anchors:

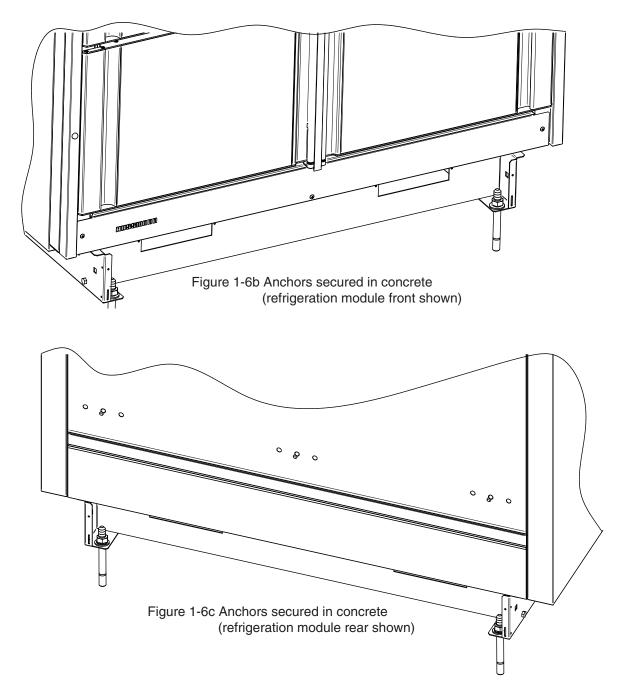
1. Drill 5/8" diameter holes in the concrete 5 inches deep. Holes may be drilled at an angle.

Rear Concrete Anchors:

2. Drive the 5/8" x 4 ½" anchor into the concrete and tighten the nut.



Figure 1-6a Concrete Wedge Anchor



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INSTALLING CANOPY FRAME ASSEMBLY (FOR OUTDOOR LOCKER ASSEMBLIES)

1. Assemble the canopy frame. Control kiosk canopy installation is similar. See Figure 1-7a below. The frame will be installed on the refrigerated module or control kiosk in the next step.

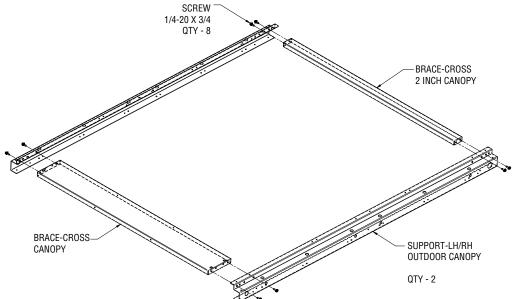


Figure 1-7a Top View of Canopy Frame Assembly (Kiosk Canopy Frame Assembly is similar.)

2. Fasten Canopy Frame Assembly to modules(s) as shown in Figure 1-7b.

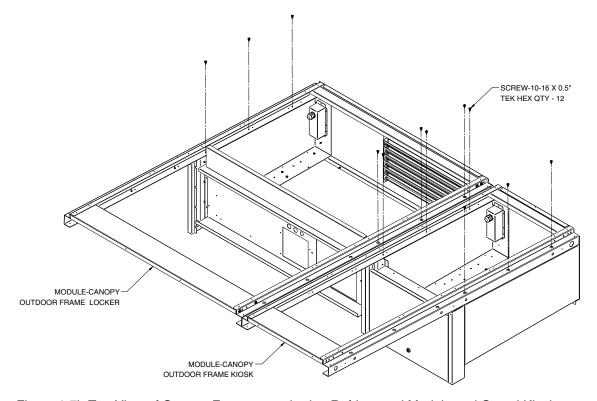


Figure 1-7b Top View of Canopy Frames attached to Refrigerated Module and Contol Kiosk

JOINING CANOPY MODULES TOGETHER

(refrigerated modules or control kiosk)

1. Fasten canopy supports together at the joining locations shown in Figure 1-8b.

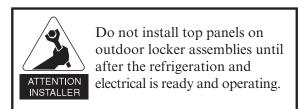




Figure 1-8a Attach Canopy Frames

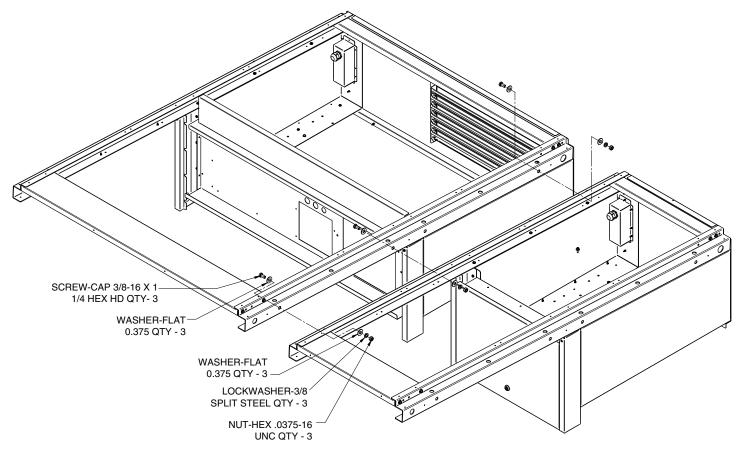
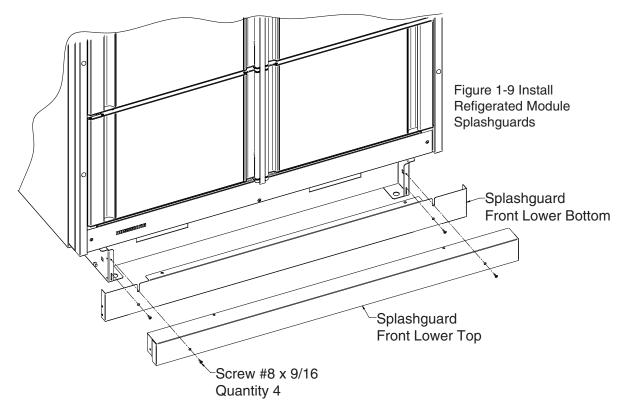


Figure 1-8b Attach Outdoor Canopy Frames - Refrigerated Module to Kiosk

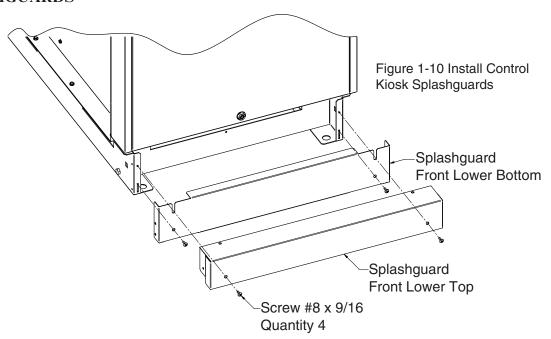
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INSTALL REFRIGERATED MODULE SPLASHGUARDS

1. Fasten with #8 sheet metal screws as shown in Figure 1-9 / 1-10.

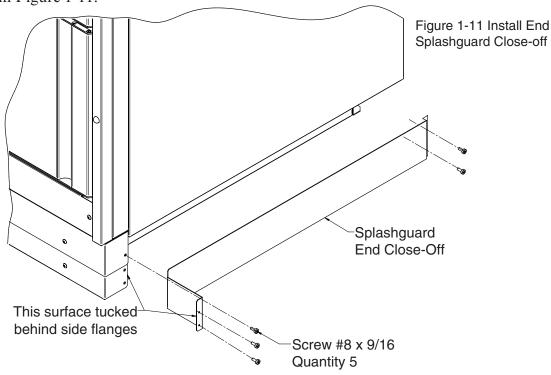


INSTALLING CONTROL KIOSK SPLASHGUARDS

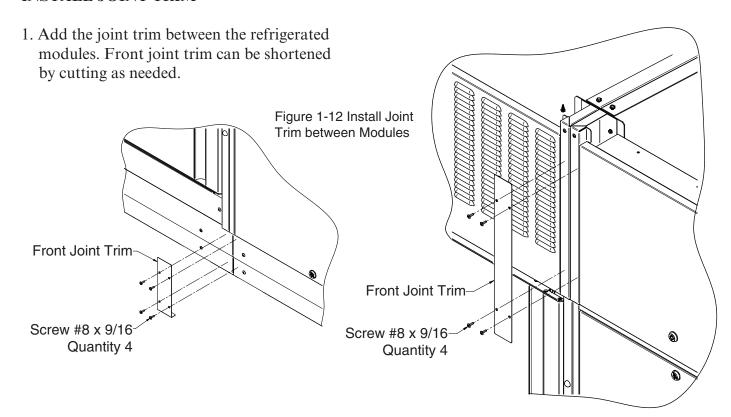


INSTALL END SPLASHGUARD CLOSE-OFF

1. Install side splashguard with four screws as shown in Figure 1-11.



INSTALL JOINT TRIM



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FIELD CONNECTIONS

ELECTRICAL

The locker assembly is electronically controlled by the CoreLink Controller. Refer to the serial plate or data sheets for electrical information. Field wiring is done at the junction box located at the rear of each refrigerated module.

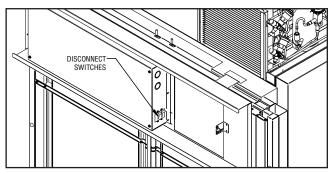
FIELD WIRING

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

It is the responsibility of the installing contractor(s) to make connections and ensure local codes are followed. See wiring diagram and circuit requirements for each refrigerated module before making any electrical connections.

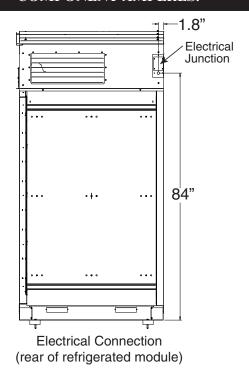
MAIN DISCONNECT SWITCH

Each refrigerated module is equipped with a dedicated main disconnect switch/breaker. The switch will interrupt power to the entire refrigerated module. The switch is located on the right side of the refrigerated module control panels (when facing them), and on the inside electrical panel behind the display screen of the kiosk. The image below shows the disconnect switches.



Disconnect Switches

ALWAYS CHECK THE SERIAL PLATE FOR COMPONENT AMPERES.



A WARNING

Proper Field Wiring and Grounding Required!
Failure to follow code could result in death or serious injury. All field wiring MUST be performed by qualified personnel. Improperly installed and grounded field wiring poses FIRE and ELECTROCUTION hazards. To avoid these hazards, you MUST follow requirements for field wiring installation and grounding as described in NEC and your local/state electrical codes.

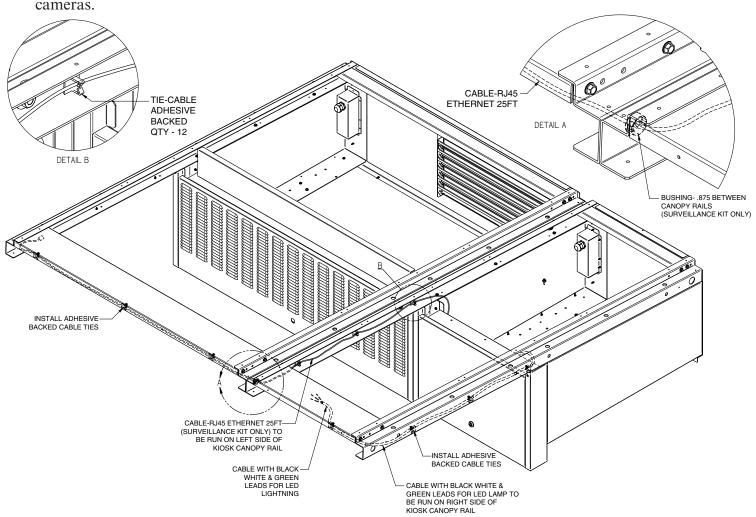
ETHERNET

Connectivity to the Internet is provided by the customer building or using a 4G cellular card. Please see Steps in this Section to connect Ethernet to control kiosk via the Sophos device.

For software and software component remote troubleshooting, call 1-866-386-9398.

ELECTRICAL WIRING ROUTES OUTDOOR REFRIGERATED MODULE & KIOSK

1. Route leads for LED lighting and security cameras.

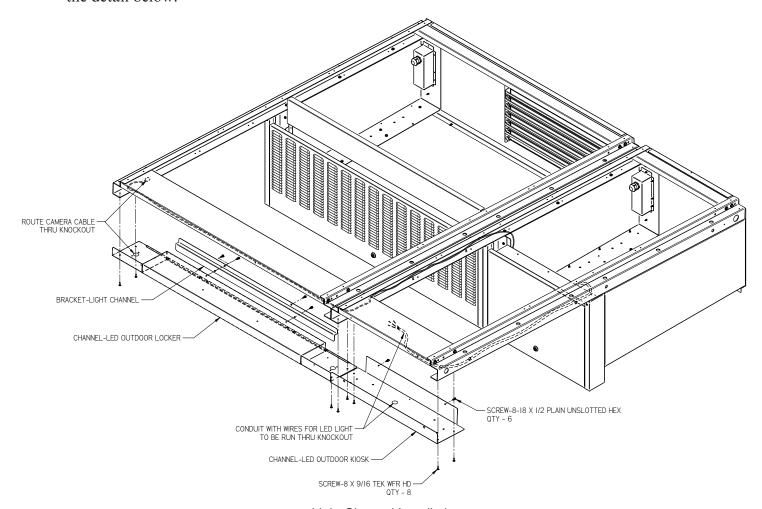


Field Module Wiring (Canopy)

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LED LIGHT CHANNEL INSTALLATION

1. Fasten light channel to canopy as shown in the detail below.



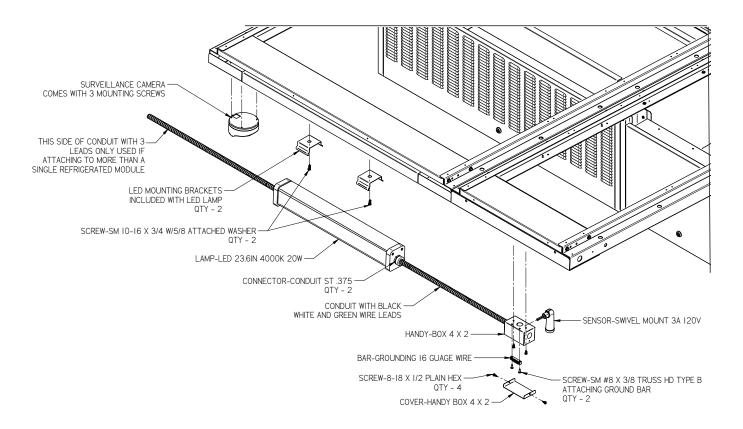
Light Channel Installation

INSTALLING LIGHTING

- One overhead LED fixture per refrigerated or kiosk module; no interior lighting.
- Conduit runs between each LED fixture and module to a handy box at control kiosk canopy, then back to kiosk electrical box.
- Handy box has a dusk-to-dawn sensor that must be installed.

Removing Security Camera enclosure:

- 1. Loosen the enclosure screws in (3) places using the bit accessory.
- 2. Hold both sides of the enclosure to remove it.
- 3. Remove the packing from the inside of the dome cover.

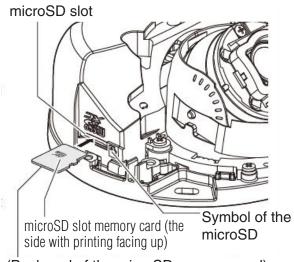


LED Lighting and Camera Installation

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Inserting a microSD memory card

- 1. Insert the microSD memory card into the microSD slot with the printed side facing up.
- 2. Insert the card into the end of the slot and confirm that a clicking sound is made.
- 3. Ensure that the cards back end does not protrude over the surface of the slot.



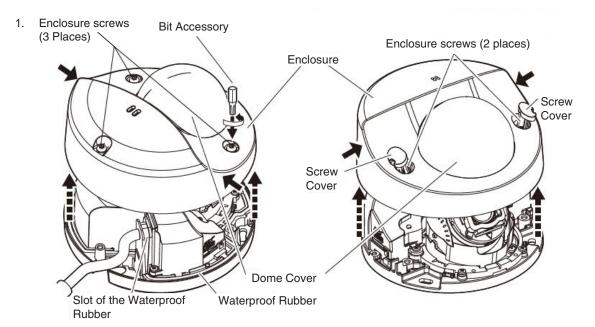
(Back end of the microSD memory card)

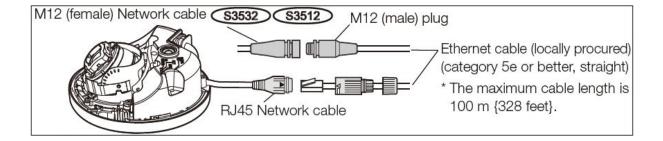
SECURITY CAMERA INSTALLATION

- A USB card must be inserted into each camera to obtain an IPS address.
- 1 Ethernet cable runs back to the kiosk per camera.
- Take the outside cover off to adjust the camera's field of view.

Removing the enclosure:

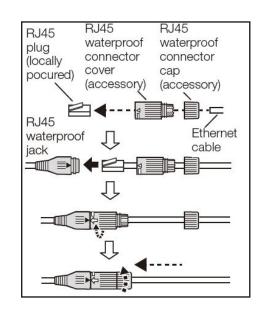
- 1. Loosen the enclosure screws in (3) places using the bit accessory.
- 2. Hold both sides of the enclosure to remove it.
- 3. Remove the packing from the inside of the dome cover.





Making the connection:

- 1. Pass Ethernet cable through the RJ45 connector cap (accessory) and then through the RJ45 connector cover (accessory). Next, use a specialized tool (locally procured) to crimp the RJ45 plug (locally procured) to the end of the Ethernet cable. Take care not to remove rubber parts from inside the RJ45 connector cover.
- 2. Insert the RJ45 plug into the RJ45 jack that is connected to the camera.
- 3. Connect the RJ45 connector cover to the RJ45 jack, and then rotate the RJ45 connector cover until the "⟨¬" marks align.
- 4. Connect the RJ45 connector cap to the RJ45 connector cover, and rotate the RJ45 connector cap until there is no gap between it and the RJ45 connector cover.

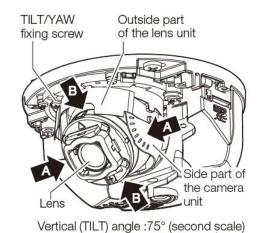


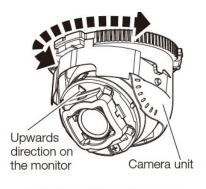
P/N 3110238_B 2-7

Adjusting the camera's angle of view

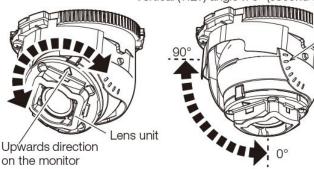
1. Adjust the horizontal (PAN) angle by pinching the side parts of the camera (A).

- 2. Adjust the azimuth (YAW) angle and vertical (TILT) angle.
 - a. Loosen the TILT/YAW fixing screw
 - b. Adjust the azimuth (YAW) angle and vertical (TILT) angle by pinching the outside parts of the lens (B)
 - c. Fix each part by tightening the TILT/YAW fixing screw.





Horizontal (PAN)angle: ±45°



Azimuth(YAW) angle: ±90°

Vertical (TILT) angle: 0° to 90°

REFRIGERATION STARTUP



The refrigeration can be started up at this time. Please refer to the Refrigeration Section (Sec. 4) of this manual before starting up the condensing units of the locker assembly.

It is recommended to allow each refrigeration module to run to its control temperature cutout setpoint before proceeding with canopy installation. This will allow installing contractor to more easily address any refrigeration issues. See separate Technical Data Sheet (TDS) for refrigerant settings and defrost requirements. Bring each refrigerated module down to it's corresponding operating temperature listed on the data sheet.

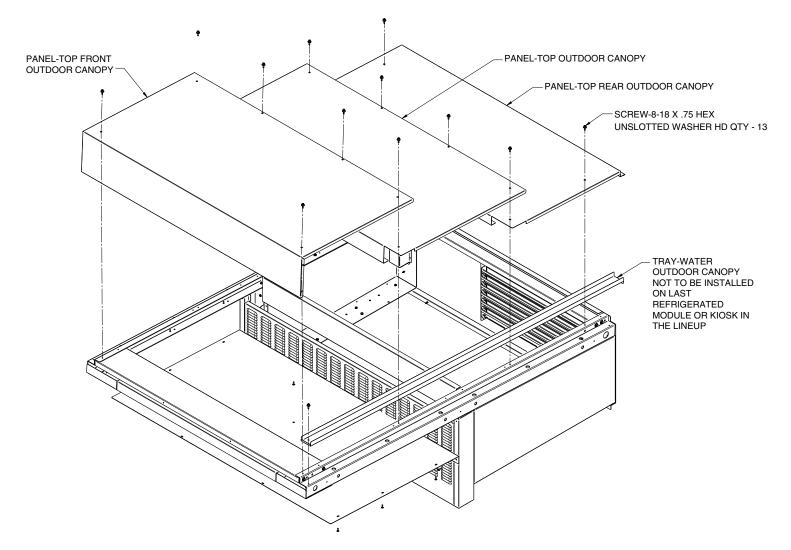
Each refrigerated module has its own evaporator coil and pre-set adjustable thermostatic expansion valve (TXV). Evaporator super heat must be checked on each refrigeration system during startup. The TXV has been factory set to provide the recommended performance settings as specified on merchandiser data sheets. Only a certified technician should adjust these valves.

INSTALL TOP PANELS AND WATER TRAY(S)

1. Use #8 washer head screws (included in kit) to fasten the top panels and water tray.



Do not install top panels on outdoor locker assemblies until after the refrigeration and electrical is ready and operating.



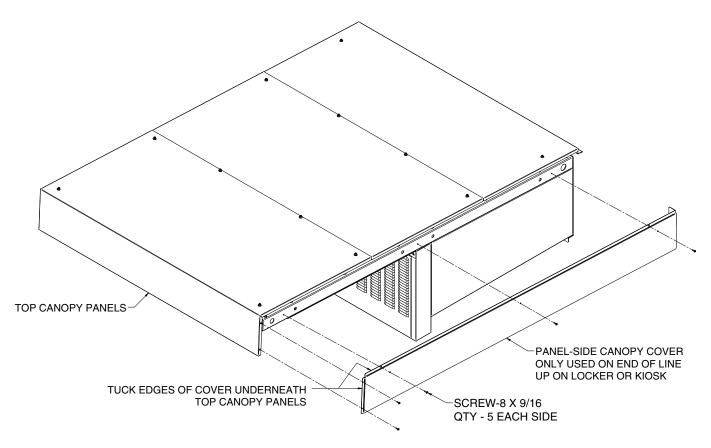
Top Panel and Water Tray installation

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INSTALLING CANOPY SIDE PANEL COVER

Side panels need to be installed at the ends of module lineup(s). They can be fitted to either a refrigerated module or a control kiosk.

1. Use #8 washer head screws (included in kit) to fasten the side panel as shown below.



Side Canopy Cover Panel

CONTROL KIOSK FIELD CONNECTIONS

Attach building ethernet cable to Sophos device port, located in the control kiosk. Attach keyboard cord to computer USB.

FIELD CONNECTION CHECKLIST (for

locker assembly using building's Internet)

1. Plug building CAT5 CAT6 cable to the WAN port to the Sophos device,



2. Power device or wait until Sophos looks for the cloud server and locks the signal. The leds will flash one by one until they all lock on a steady green for Power, System, Router, Internet and Tunnel as the below. If you see a flashing green or red means, there is no internet available.



3. Check that there is internet by pressing the Windows button with the provided keyboard and go to Internet explorer or browser and look for msn.com or yahoo.com.



4. If there is no internet at the browser but the leds are locked green means that the IT team has not opened the correct ports in the IP tunnel. It needs to be troubleshoot from the internet responsible.

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5. If internet is present at the browser, all leds are locked but the kiosk is not working, call Mighty Oaks for troubleshooting.

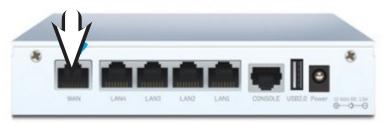
Field Connection checklist for using 3G 4G router

1. Ensure that 4G router is turned on, has enabled SIM card, all antennas are connected and has good signal. See below sample



(Only used for optional Cell Communication Kit.)

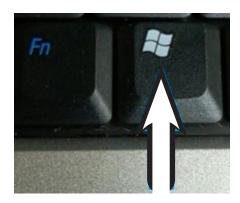
2. Plug CAT5 CAT6 cable from 4G router to the WAN port to the Sophos device (if not plugged from the factory already)



3. Power device or wait until Sophos looks for the cloud server and locks the signal. The leds will flash one by one until they all lock on a steady green for Power, System, Router, Internet and Tunnel as the below. If you see a flashing green or red means, there is no internet available.



4. Check that there is internet by pressing the Windows button with the provided keyboard and go to Internet explorer or browser and look for msn.com or yahoo.com.



- 5. If there is no internet at the browser but the leds are locked green means that the IT team has not opened the correct ports in the IP tunnel. It needs to be troubleshoot from the internet responsible.
- 6. If internet is present at the browser, all leds are locked but the kiosk is not working, call Mighty Oaks for troubleshooting.

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ELECTRONIC CONTROLLER

NOTE: See separate instructions (part number 3139727) for field software commissioning.

A WARNING

IMPORTANT!

Disconnect electrical power before beginning any service on electrical or electronic components. DO NOT work around live electrical circuits. Make sure the machine is switched off before working on electrical connections. All operations must be carried out by qualified personnel.

Check that the supply voltage is correct before connecting devices. Never use power that differs from that indicated in the manual. Power supplies other than those specified can seriously damage the refrigeration system or other components and parts.

Separate the cables of the analogue inputs from those of the digital input and the serial line cables from the power cables (resistive as well as inductive), in order to prevent malfunction due to electromagnetic interference. All system components should be obtained from Hussmann to ensure system compatibility and reliability.

Make connections as short as possible, and do not wind them around electrically connected parts. When connecting loads, follow connection diagrams carefully.

Never connect the secondary of the supply transformer to the earth.

The low voltage connections must have reinforced insulation.

When using the digital inputs of the CoreLink Controller use another transformer in order to prevent the digital inputs from malfunctioning or being damaged.

To avoid causing static discharge, do not touch the electronic components on the boards. DO NOT use the same secondary of the controllers power. Doing so can result in damage to the controller.

DO NOT exceed the maximum current capacity of the onboard controller relays. Always verify the capacity of the output used.

DO NOT plug in accessory devices that are not approved by Hussmann.

DO NOT exceed the maximum current capacity of the onboard controller relays.

Always verify the capacity of the output used.

DO NOT plug in accessory devices that are not approved by Hussmann.

GND is Common(-), not earth ground. Do not earth ground this device.

Hussmann is not responsible for misuse or device. Hussmann is not held responsible for deviation from this manual and its intended use. If you have any questions, contact your Hussmann representative for details.

In case of failure or faulty operation, send the controller back to the distributor with a detailed description of the fault.

The controller should not be used for purposes different from those described in this manual. It cannot be used as a safety device.

ELECTRONIC CONTROLLER

Self-contained refrigerated modules are controlled by a CoreLink Electronic Controller, for refrigeration, defrost, anti-sweat heaters, low ambient cabinet heaters and fans. The controller is factory programmed with the required parameters to operate the locker assembly and maintain required product temperature. There is no need to adjust the controller, however, it is recommended that the program be checked at start-up. Refer to the refrigerated module data sheet for discharge air setpoint, defrost cycle and other information. Please see CoreLink Manual and additional product literature for reference.

INTERNAL WEB SERVER

The CoreLink controller features a userfriendly interface that can be accessed via web browser. There are two methods for accessing CoreLink.

The wireless connection kit directly at the CoreLink hosted by Web UI on a connected smart device, or users can access CoreLink though the maintenance login using the kiosk computer.

For explanation of wireless connection in the control kiosk, refer to:

Field Software Setup Instructions, part number 3139727.

DATA LOGGING

The control application has internal logging for each sensor along with critical operation data. Data is available for local download. On board data logging allows user to review performance data from the past week. User can see MIN/MAX/AVERAGE data along with saving data sets and exporting data sets for review.

FACTORY RESTORE

The CoreLink application has a configuration file with the complete and optimized default settings.

Anytime a user wants to default to factory settings they can simply access the controller user interface and perform a factory restore.

STANDALONE OPERATION

Controllers are configured from the factory to run as standalone controllers. Field network integrations can be done to provide additional capabilities to the controller.

In the case of network failure of BAS managing additional controller functions, the controller will default to standalone settings and regulate refrigerated modules until connection is restored.

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How to connect to CoreLink Controller

Wireless Connection

Components Required

The following items are required for first time connection:

Wireless Access Point

- ➤ One Wireless Connection Kit PN 3053767
- ➤ One Computing Device
 - Smartphone / Mobile
 - Tablet
 - Laptop

Connect the CoreLink with Wireless Access Point

Step 1

Connect your wireless router connection kit to the CoreLink USB port.

Step 2

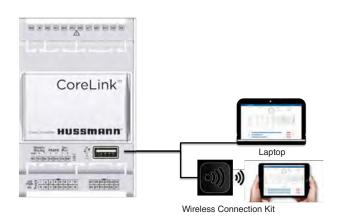
Wait until the router boots up (about 30 seconds). Next, open your laptop/tablet/phone wireless network connection panel and use the default Wi-Fi Network/SSID Name and Network Key/Password noted below. These are also printed on the wireless connection kit.

Wireless Network Name/SSID:

HSM_CORELINK_AP

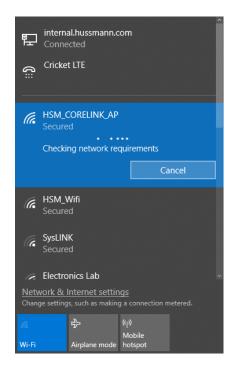
Network Key / Password:

HussmannCL1234



ATTENTION CONTRACTOR!

This device must not leave the store.



Step 3

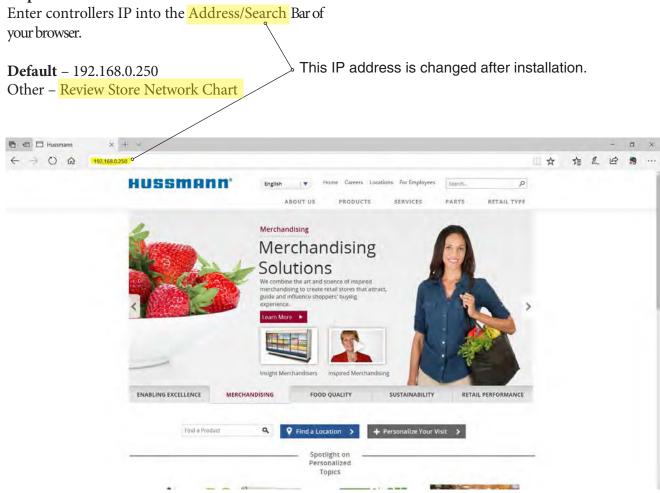
Launch a web browser

- Safari
- Google Chrome
- Mozilla Firefox
- Microsoft Edge
- Opera
- Internet Explorer (Not Recommended)

Note: Clear cache to see latest Web UI Version. If your browswer is still not working, please try the other browsers before reporting an issue.

Login to the controller is done through the kiosk. Contact Mighty Oaks for the IP address. Please see separate Field Software Setup Instructions, part number 3139727.

Step 4



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Step 5

The controller login page will apear. Enter log in information as noted below.



SW version >= 2.4.0	All Previous Versions
Level 1 User Name: user	Level 1 User Name: Hussmann1
Password: Hussmann	Password: Hussmann
Level 2	Level 2
User Name: service	User Name: Hussmann2
Password: Hussmann1234	Password: Corelink1234
Level 3	Level 3
User Name: commission	User Name: Hussmann3
Password: Corelink4321	Password: Corelink4321
Admin	Admin
Not Available	User Name: admin
	Password: Hussmann

Direct Wired Connection

- One RJ-45 Ethernet to USB adaptor (Details Below)
- ➤ One RJ-45 Ethernet Cable
- ➤ A laptop with an RJ-45 Ethernet port

USB to Ethernet Adaptors

Approved RJ-45 Ethernet to USB adaptor

Best Option (Amazon Prime)

AmazonBasics USB 2.0 to 10/100 Ethernet LAN Network Adapter Model: **AE2233X2**

Found Locally (Best Buy)

Insignia - USB 2.0-to-Ethernet Adapter – White Model: **NS-PU98505 | NS-PU98505-C**

Others

Plugable USB 2.0 to 10/100 Ethernet LAN Network Adapter

Model: USB2-E100

Belkin USB 2.0 Ethernet Adapter LAN Network Adaptor

Model: F4U047bt

Note: Adaptors in the list above have been approved for use with CoreLink. Some adapter versions may not work with the locaker assembly. The use of other adapters is at the user's own risk.



Model: AE2233x2



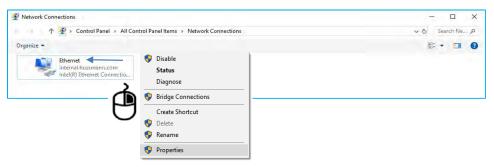
Model: NS-PU98505 | NS-PU98505-C

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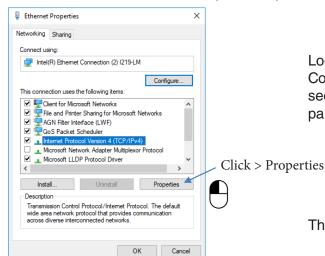
Connecting to CoreLink - Direct Wired Connection

Step 1 - Connect laptop with RJ-45 ethernet cable/USB adaptor to CoreLink

Step 2 - Change laptop network settings – open laptop network settings, right click **Ethernet**, select **Properties**.



Step 3 - Select Internet Protocol Version 4 (TCP/IPv4)



Login to the controller is done through the kiosk. Contact Mighty Oaks for the IP address. Please see separate Field Software Setup Instructions, part number 3139727.

This IP address is changed after installation.

Step 4 - Enter IP address and subnet mask **Internet Protocol Version 4 (TCP/IPv4) Properties**

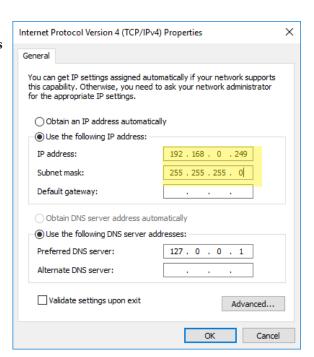
IP Address: 192.168.0.249 Subnet mask: 255.255.255.0

The laptop computer now has a static IP assigned that is compatible with the CoreLink Network. Click > OK

Note: Changes to your ethernet port settings might affect normal connection to the internet with your personal laptop.

To revert ethernet settings, repeat Steps 1-4. Select > **Obtain IP address automatically** button on the general tab of the dialog box shown in the illustration at right.

Click > OK



Successful Connection to CoreLink

Step 5

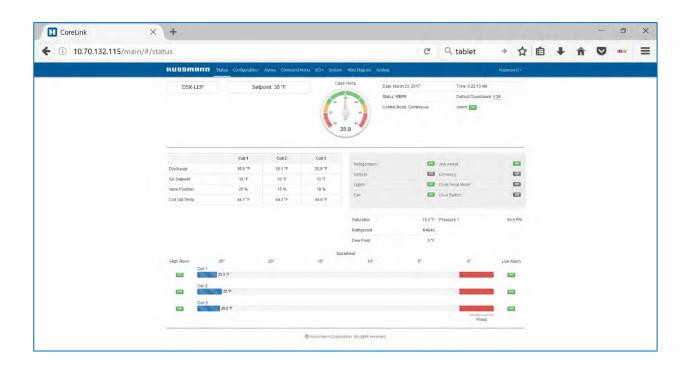
If connection is established to the CoreLink Controller a Hussmann launch screen should appear. Username and password case sensitive.

See Page 3-5 for username / password combinations.

Congratulations, you are now connected to Corelink



After logging in, the CoreLink Dashboard is displayed.



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

CoreLink™ Case Controller

P/N 3110238_B 3-9

How to connect to CoreLink Controller

Custom Store Network

When visiting a store site, the technician might notice the USB to Ethernet adaptors installed and connected to RJ-45 ethernet cable at the CoreLink Controllers. The store likely has a custom CoreLink Controller network with all refrigeration module connected directly to an ethernet switch or multiple ethernet switches. To access these controllers, please consult the refrigeration service contractor, or Hussmann Representative.

Technicians will need to obtain details of the network setup. Some networks may only be accessed through direct wire connection and others may have Wi-Fi available onsite. Username and password will be needed to make connection to this network much like the access point instructions above.

Technicians will also need to know the IP addressed assigned to each circuit. In this scenario each CoreLink Controller will have a unique IP address assigned. Technicians will only be able to gain access to the internal Web UI with the correct provided IP address.

Once connected to the network the technician will be able to access any of the controllers connected to the network.

FIXING COMMON CONNECTION ISSUES

Clearing Cache

If the Web UI has been revised, you may need to clear your browser's cache in order for the Web UI to work correctly and see new updates. See steps in chart to clear cache.

If the CoreLink login screen does not appear after typing in the web address, first check that hardwire connections or wireless connection are correct.

Web browsers are updated on a continuous basis. Information presented below is subject to change. When in doubt, search the internet for up-to-date instructions for how to clear history for the web browser you are using.

WEB Browser	Clearing Web History Cache
Google Chrome (Android)	 Open Chrome. On your browser toolbar, tap "More". Tap History, and then tap Clear Browsing Data Under "Clear Browsing Data," select the checkboxes for cookies and site data and cached images and files. Use the menu at the top to select the amount of data that you want to delete.
Firefox (Mozilla)	Click the menu botton, choose History, and then Clear Recent History Select how much history you want to clear. Click the drop-down menu next to Time Range to clear to choose how much of your history Firefox will clear Finally, click the Clear Now button.
Safari (Apple/Mac)	 Click Safari in the upper lefthand side of your screen. In the menu that appears, click Preferences. In the window that appears, click the Privacy Tab. Click the button Remove All Website Data Click Remove Now in the pop up window that appears.
Microsoft Edge (Not Recommended)	Open the Settings Menu. In the top righthand corner you'll see three dots in the horizontal line, Locate Clearing Browsing Data Choosing What to Clear Restart the browser
Internet Explorer (Not Recommended)	Select Tools > Internet Options. Click the General tab and then the Delete button. Make sure to uncheck Preserve Favorites website data and check both Temporary Internet Files and Cookies, then click delete.
Safari Apple iPhone	1. Launch the Settings App from the home screen of your iPhone or iPad. 2. Scroll down and tap on Safari. 3. Now scroll all the way to the bottom and tap on Advanced 4. Tap on Website Data. 5. Scroll to the bottom again and tap on Remove All Website data. 6. Confirm one more time you'd like to delete all data.
Chrome (Android Phone)	1. Open Chrome browser and tap the Menu button 2. Tap "Settings" in the menu that appears. 3. Tap "Privacy" in the Advanced Section 4. Scroll down and tap "Clear Browsing Data". 5. Ensure that "Cache" and "Cookies, site data" are checked and then tap "Clear".

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REFRIGERATION

REFRIGERATION

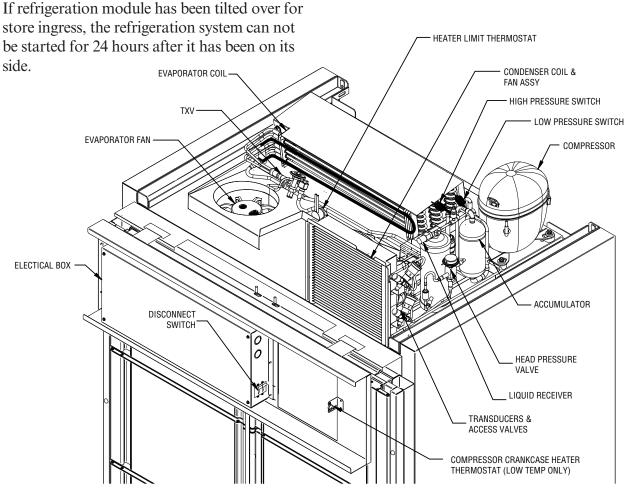
These self-contained refrigerated modules have air-cooled condensers. The evaporator coil is connected to a dedicated condensing unit assembly located on top of the refrigerated module behind the keyed ventilation panel. Each self-contained refrigerated module is equipped with its own condensing unit. The refrigeration systems are factory charged and sealed and may use R404A, R448A, R134a or R513a refrigerant depending on the application. Each refrigerated module has one electronic controller. All models have compressors. The systems employ expansion valves and distributors for refrigerant flow control. Refer to the refrigerated module serial plate for refrigerant charge information.

CONDENSING UNIT ACCESS

Condensing units are located on top of the lockers. The condensing units have an electrical control box located behind the top ventilation panel. The electronic control box and condenser close-off panel can be removed and hung from hooks on the raceway to access the condensing unit compartment. Additionally, the top canopy or each refrigerated module is removable for improved condensing unit access.

A WARNING

Opening condensing unit electrical box exposes personnel to electrical hazard and should only be performed only by a qualified service technician.



SEQUENCE OF OPERATION

The refrigerated modules have a rear-mounted electrical junction box for wire connections in the field. Refrigerated modules and control kiosks are single point connection per module. There are control connections that must be made in the field from each CoreLink controller to the kiosk and from each Wago door lock controller to the primary Wago PLC in the kiosk. See Section 2 of this manual for more information.

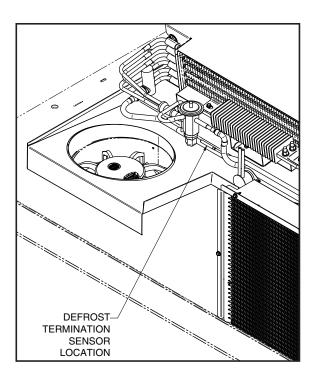
Compressor

Temperature is controlled by cycling the compressor ON and OFF based on the discharge air temperature. Discharge air sensor is located behind an access panel in refrigerated module #1 of each module (top left compartment). (Do not splice sensor wiring when replacing sensors.) Compressor has a 30-second delay at each startup to prevent excessive startup current.

The discharge air temperature for low temperature modules is factory set for -10°F, 33°F for the medium temperature module(s) and 65°F for outdoor ambient refrigerated module(s). Each setpoint also includes a differential temperature setpoint that defines the compressor (or heater) cut-in and cut-out points. Indoor ambient modules are not typically refrigerated.

DEFROST

Defrosts are time initiated and are programmed with the correct number of defrosts per day and the correct termination setting (temperature for low temperature modules and time for medium and ambient modules). The start time for defrost is programmed into the CoreLink controllers as well. (Do not splice wiring when replacig sensors.) The defrost termination sensor is located between the evaporaor fan and evaporator coil.



LOW AMBIENT HEATING MODE

Outdoor medium and ambient temperature refrigerated modules also include low ambient heaters for temperature control during periods of low ambient weather. Refrigerated module modules will be cooled down to the LOWER WARM SWITCH/LINE TRIGGER setpoint in CoreLink.

Heaters will then engage and manage to the same discharge air setpoint and differential as in cooling mode. Heater output is pulsed to prevent overheating the elements. Due to this pulsation, you may not see an amp drawing immediately when checking heater amp draw. Heater will cycle ON OFF in a manner like compressor operation in cooling mode until refrigerated module reaches the UPPER COOL SWITCH/LINE TRIGGER setting in CoreLink, at which point cooling mode will reengage.

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EVAPORATOR FANS

Evaporator fan is controlled via CoreLink output and are configured to run in specific modes depending on the application. For low temperature modules, evaporator fans will run on during refrigeration and off during defrost and defrost drip (ON REFRIG/OFF DEFROST). For medium and ambient temperature modules, evaporator fans will run continuously. Evaporator fan is in top section of the refrigerated module and can be accessed for replacement from inside locker compartment #1 with a removable panel in the top ceiling.

CONDENSER AND WINTER HOLD BACK

Condenser fan is controlled via CoreLink output and is configured to run whenever the refrigeration output is engaged. Condenser fans on low temperature modules are wired to include the use of the Hussmann Fan Speed Selector controller. Use of a FSS chip runs condenser fans on low temperature modules at 1550 rpm.

Additional chips are available in increase fan speed is required due to unique installation requirements. Medium and ambient condenser fans do not use FSS controllers, fans will operation at default speed of 1300 RPM.

Outdoor low and medium temperature modules include winter holdback valves to maintain a minimum condensing pressure during low ambient periods. These valves are Sporlan LAC-4 valves with settings of 210 psig (for R404A and R448A models) and 100 psig (for R134a and R513 modules). Outdoor ambient and all indoor modules do not incorporate winter control valves.

DRAIN TRAP HEATER

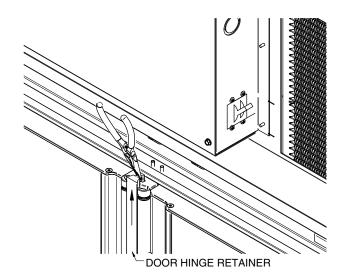
Low temperature refrigerated modules include wire heaters to heat evaporator pans and drain traps. Heater is controlled via CoreLink relay and is activated during defrost and defrost drip cycles.

CRANKCASE HEATER

Compressors are equipped with crankcase heaters that operate when the compressor is OFF. Low temperature modules also include a control thermostat that only allows the crankcase heater to operate with ambient temperatures are lower than 75°F.

ANTI-SWEAT HEATERS

Refrigerated modules incorporate an AS heater wire loop installed behind metal plates on each door mullion. This heater is controlled via Core-Link controller and uses a Frame Temperature Sensor located in the center mullion between the top two doors.



CoreLink will cycle AS Heaters between a minimum and maximum temperature as defined in the CoreLink AS Heater control configuration settings tab. Due to this pulsation, you may not see an amp draw immediately when checking AS heater amp draw. Additionally, should the Frame Temperature Sensor fail, heaters will default to 100% operation. Sensor will need to be replaced as soon as possible.

ADDITIONAL SAFETIES

CoreLink incorporates additional safeties to protect the refrigerated modules from critical failures. These safeties may or may not be implemented depending on the model of the refrigerated module. The following safeties protect the compressor in the event of a refrigerant loss, fan failures or condenser blockages.

COMPRESSOR DISCHARGE SAFETY

The controller will alarm and disable the compressor output until the discharge pressure raises above its cut out threshold. Please note, it is the digital pressure switch that controls this function. Discharge pressure transducer is only used for troubleshooting purposes.

COMPRESSOR SUCTION SAFETY

The controller will disable the compressor output when the safety switch is activated. Compressor will resume operation when the safety switch is deactivated.

If five switch activations occur within 20 minutes, a suction pressure lockout will commence, which requires service intervention to reset. Please note suction pressure transducer is only used for troubleshooting purposes.

COMPRESSOR RUN TIME SAFETIES

Additional run time safeties are incorporated to protect compressors. If used, the parameters for these safeties are set within CoreLink. This will only allow the compressor to run a maximum time span and then switch off for a defined time span.

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Hussmann Self-Contained Refrigeration 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	Confirm there is NO damage or concealed damage.	
3	Level the locker assembly, side to side and front to rear.	
4	Remove all shipping brackets/compressor straps/bolts etc.	
5	Refrigeration must be run on a dedicated electrical circuit without the use of an extension cord.	
6	Ensure that the proper electrical requirements for the locker assembly 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 locker assembly.	
11	Verify there are no external air disturbances. Heat and air registers, fans, and doors etc.	
	owner/operator that merchandiser must operate at temperature for 24 hrs prwith product.	ior to

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.

STARTING REFRIGERATED MODULES

Turn the disconnect switch to the on position The refrigerated module will start automatically within 4 minutes. The controller will power on, fans will operate, and compressor will start. The refrigerated module will begin to cool down.

Once the refrigerated module is running, listen for any unusual sounds or events. Examples include: evaporator fan blade interference, condenser fan blade interference, etc. Compressor should run continuously at startup. Use an amperage meter to check the current to compressor. Check each fan to ensure it is running.

STARTUP AND OPERATION

See the refrigerated module's Technical Data Sheet for refrigeration settings and defrost requirements. Bring refrigerated module(s) down to the operating temperatures listed on the data sheet.

Excessive ambient conditions may cause condensation and therefore sweating of the doors. Facility operators should monitor doors and floor conditions to ensure safety of persons.

12 HOURS AFTER STARTUP CHECKLIST

Check temperature of each refrigerated module

Check for any CoreLink alarms

Check for defrost water in the condensate collection pan

Verify the fans are running.

Check compressor and defrost heater amperage and validate with refrigerated module's serial plate.

Check locker door operation.

Check that all access plate and panel covers have been properly replaced.

Inspect for any water accumulation due to incorrect or unsealed penetrations where electrical or other lines pass though insulated walls of the evaporator section.

Check data logs for proper defrost timing and operation.

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STOCKING

Product should not be placed in lockers until all refrigeration controls have been verified and locker cabinets are at proper operating conditions.

Discharge air slots (at rear of each compartment) and return air slots (underside of each horizontal door mullion must remain open at all times. Do not allow products or packages to block this air flow slots. Do not use unapproved accessories that could hamper air system performance. Keep doors closed as much as possible to prevent coil frosting and high locker temperatures.

MAXIMUM LOCKER VOLUMES

Do not exceed 100 lbs per locker. Exceeding the maximum weight load limits may cause damage to the shelf or shelves, damage to the lockers, product damage and potentially create a hazardous condition for customers and staff.

WASTE OUTLET AND WATER SEAL

Water gravity drains from the internal evaporator pan via an integral drain trap. Condensate removal is via evaporation using the compressor discharge loop in the condensate collection pan. Care should be taken at start up to prime the integral trap to prevent air infiltration during initial run down.

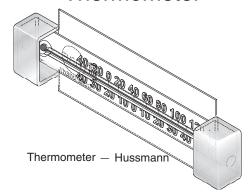
INSTALLING FDA/NSF REQUIRED THERMOMETER

ONE THERMOMETER IS REQUIRED FOR EACH LOCKER DOOR COMPARTMENT PER NSF.

Locker thermometers are to be installed in the interior top portion of the locker cabinet. These thermometers are necessary for food safety.

This thermometer may not be required or provided in other countries. Check for local code requirements.

This is an NSF-7 & US FDA Food Code Required Thermometer



Hussmann Corporation • 12999 St. Charles Rock Road • Bridgeton, MO U.S. & Canada 1-800-922-1919 Mexico 1-800-890-2900 www.hussm © 2013 • Hussmann Corporation



Regularly check locker compartment temperatures! Do not break the cold chain. Keep refrigerated products in cooler of freezer before loading into locker. Medium temperature refrigerated modules are designed for loading only pre-chilled products. Low temperature refrigerated modules are designed for loading only frozen products.

4-8

NOTES:

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USING THE LOCKERS

ADDING / REMOVING USERS TO CUSTOMER CARE PORTAL

The customer care portal allows users to view and manage orders, customers, locker databases and historical data.

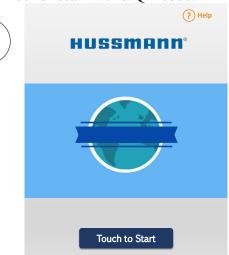
It also provides user-level management for locker operations including opening a single door, opening all doors, restarting the application, etc.

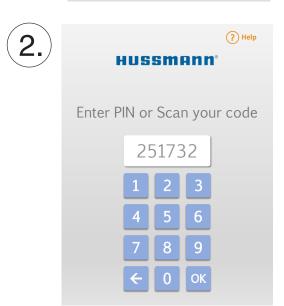
In order to request user access to operators or contractors please have your system administrator or account owner contact the number below:

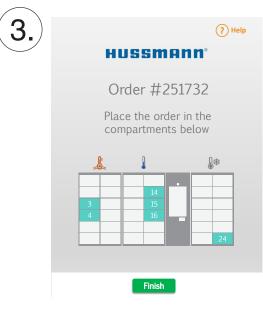
- 1. Call Mighty Oaks at (866) 386-9398 Option 1
- 2. Request User access to the account belonging to your organization. Please provide user details:
 - a. Valid e-mail address
 - b. First Name and Last Name
 - c. Phone (optional)
- 3. A notification will be sent with your new user name and password.
- 4. Login to your domain organization. *yourdomainproduction.mightyoaks.com*

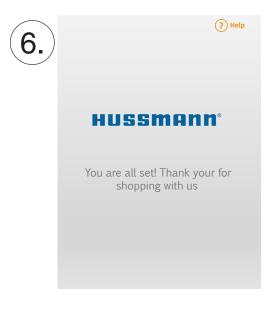
PLACING ORDERS

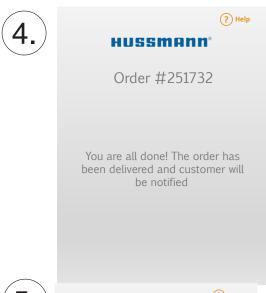
Start with the kiosk home screen, and enter the PIN number or scan with a QR code.

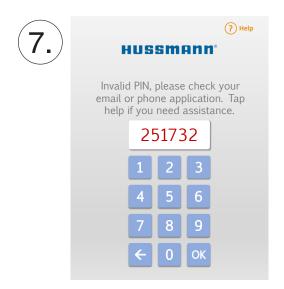


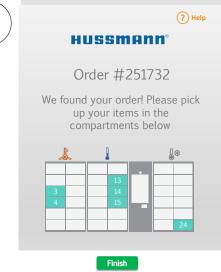


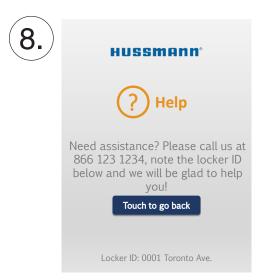












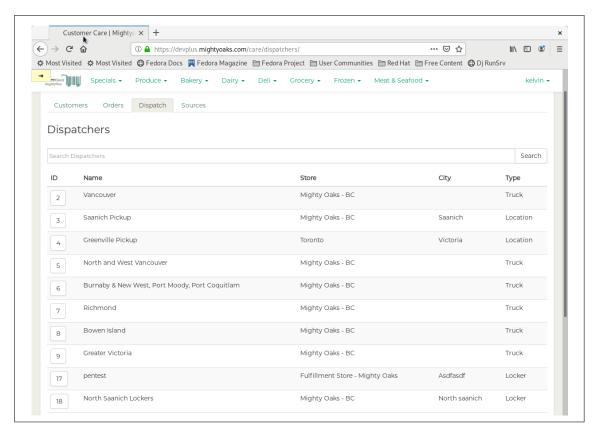
P/N 3110238_B 5-3

HUSSMANN SMART EXCHANGE LOCKER RESERVATION PROCESS

Login to Customer Care Portal below URL, which can be whitelisted. There are 2 levels of user permission, Admin and User.



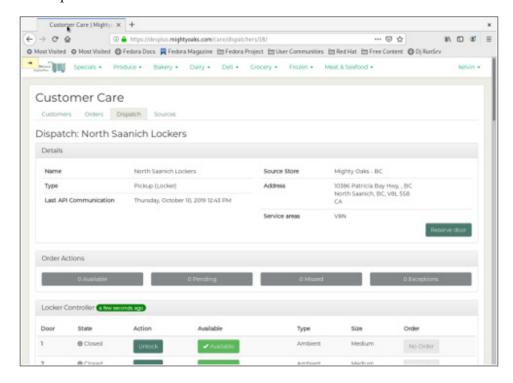
Click on Dispatch as shown below: The page will display the locker list. You can use the search tool to search lockers based on Locker ID. The additional fields are details about the different locker ID's.



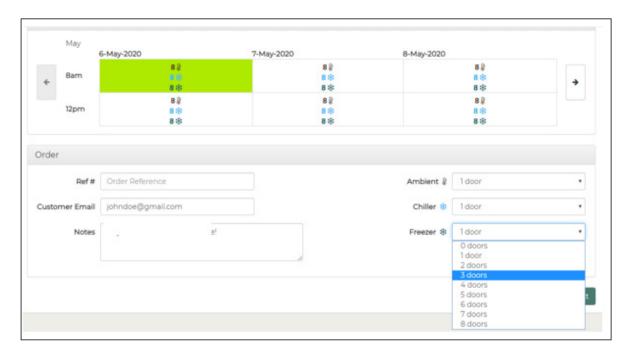
NOTICE

These instructions are intended to show the most up to date information for the date this manual was posted. The information contained in this manual is subject to change without notice and will vary for customer specific requests. Please contact your Hussmann Commercial Representative if you have questions.

Every dispatch will display the entire list and status of the locker at a glance. Click, "Reserve Door" to start the reservation process on the locker.

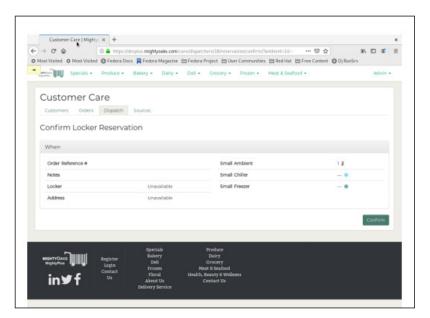


After clicking "Reserve Door", the below details will appear denoting the available doors per temperature zone including a predetermined pickup window. At this step, select the appropriate number of doors and include any internal (i.e. e-commerce order) reference @ the Ref# field, and attach the email for customer notifications.

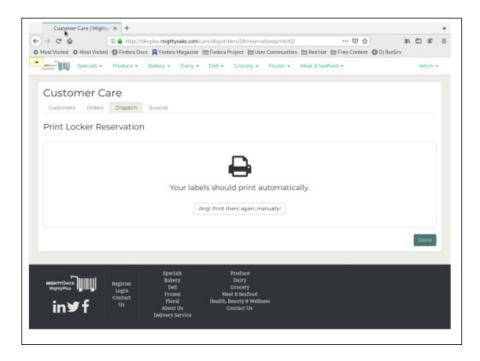


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Confirm that the reservation has been completed by clicking "Confirm".



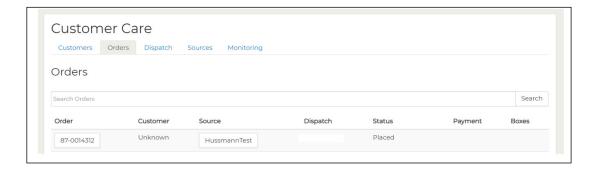
After clicking confirm, the print label should pop up. There is the option to print a receipt of label associated with this order. This step is optional and can be setup at any time. Click Done to complete the reservation process.



Here is a sample of the print confirmation from the reservation process. It can be connected to any printer in the network.



Once reservation has been completed, the order is available at the Orders Tab Status: "Placed". Click on the order # to display the details of that order as well as the randomly generated PINs, which are allocated for driver and customer.



As a default, the Smart Exchange Locker does not stand or manage any notifications including PIN/QR to the end customer or driver, but it is capable of handling this task via email and SMS if the retailer chooses to do so.

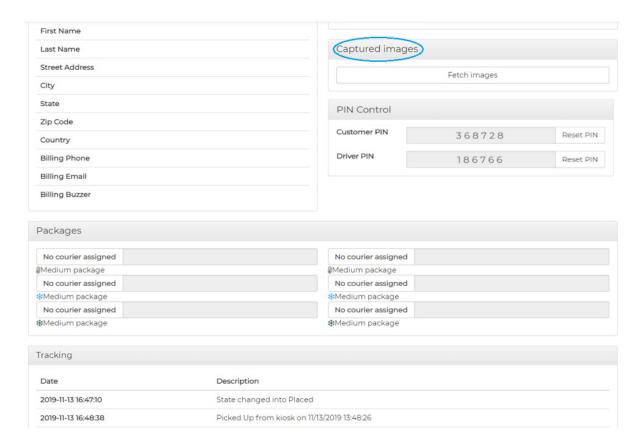
P/N 3110238_B 5-7

Below are the screen shots of the customer email notification. This notification is sent once order is ready for pickup. The email provides information about the location for pickup as well as a QR code/PIN for scanning. Locker pickup cycle will be completed after customer picks up order.



ADDITIONAL RESOURCES

The below image features the details of the order(s) placed including PIN details, customer information, tracking information for the reservations and captured images feature below will download the image taken every time the locker user enters a valid PIN at the terminal for proof purposes.



5-8







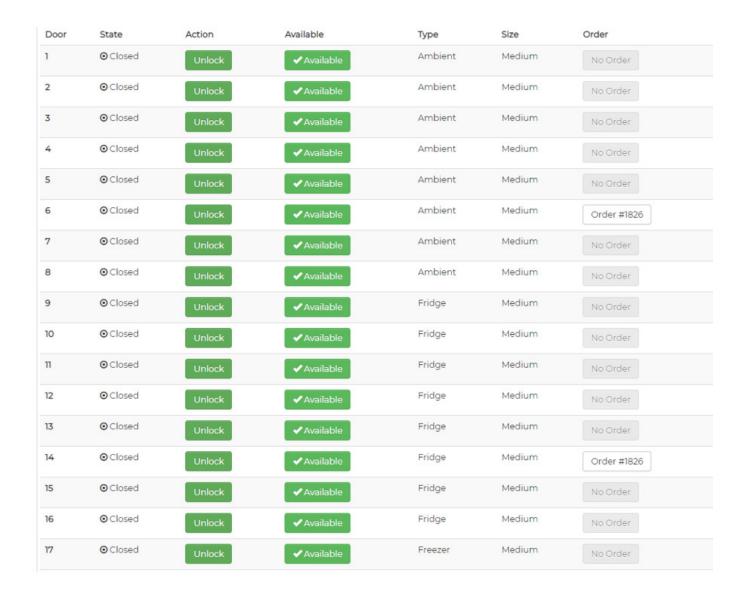
PIN Control		
Customer PIN		Reset PIN
Driver PIN	222	Reset PIN

Tracking		
Date	Description	
2020-04-30 15:08:48	State changed into Placed	
2020-04-30 15:56:04	Loaded into kiosk on 04/30/2020 12:55:25	

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From the locker management tool, the user account has the capability to remotely view and manipulate the doors on the locker.

- Door: Door number. The Smart Exchange is modular. It is typical to increase the number of doors by adding a
 module.
- State: Door is Open or Closed.
- Action: Unlock the door mechanical lock and will reengage automatically after a period. Note the doors self-ajar feature do not require pushing the door shut after opening.
- Available: Show the status of the door to be able to accept reservations. Often this is used to disable a door due to maintenance (spillage) or door malfunction.
- Type: Three temperatures Ambient, Fridge and Freezer
- Size: Only Medium size available at this time.
- Order: Displays any order associated or being occupied at this time inside the door.



5-10

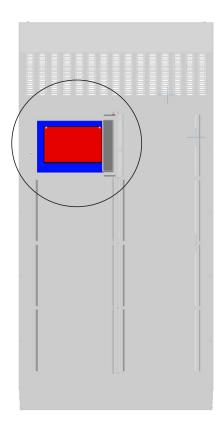
NOTES:

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MAINTENANCE

BACK PANEL ACCESS

Each door has a back panel access for cleaning.



CARE AND CLEANING

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

Interior Surfaces

The interior surfaces may be cleaned with most domestic detergents, ammonia-based cleaners and sanitizing solutions with no harm to the surface.

Exterior Surfaces

The exterior surfaces should be cleaned with a mild detergent and warm water to protect and maintain their attractive finish. Never use abrasive cleansers or scouring pads.

Do Not:

- Use abrasive cleansers and scouring pads, as these will mar the finish.
- Use ammonia-based cleaners on acrylic parts.
- Use solvent, oil or acidic based cleaners on any interior surfaces.
- Use steam or high-water pressure hoses to wash the interior. These will destroy the lockers' sealing causing leaks and poor performance.

Do:

- Remove the product and all loose debris.
- Store product in a refrigerated area such as a freezer. Remove only as much product as can be taken to the freezer in a timely manner.
- First turn off refrigeration, then disconnect electrical power.
- Thoroughly clean all surfaces with soap and hot water.

- Clean and disinfect locker compartments frequently. To disinfect, use Environmental Protection Agency List N disinfectants, diluted household bleach solutions prepared according to the manufacturer's label for disinfection, or alcohol solutions with at least 70% alcohol, and are appropriate for the surface. Allow the compartments to dry before resuming operation.
- After cleaning is completed, turn on power and refrigerant to the merchandiser.
- Verify that merchandiser is working properly.

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.

Clean frequently to avoid build-up of hard, stubborn stains. A stainless-steel cleaning solution may be used periodically to minimize scratching and remove stains. Rinse and wipe dry immediately after cleaning. Never use hydrochloric acid (muriatic acid) on stainless steel.

CLEANING COILS

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.

Do NOT use chlorine or ammonia-based cleaners to clean aluminum coils.

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 adjust as necessary. To maintain product integrity, move all product to a cooler until the locker assembly has returned to normal operating temperatures.

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.

CLEANING CONDENSATE CATCH PAN

A condensate pan is located in the top behind the condensing coil. The condensate pan catches defrost water and allows it to evaporate.

This pan should be cleaned periodically by vacuuming it out or with soap and water. This pan should be inspected and cleaned on the same cycle as the condensing coils.

A WARNING

Condensate is evaporated from this pan using heat from the compressor discharge lines that pass through the pan. Extreme care should be taken in cleaning and servicing the condensate pan to not damage these refrigerant lines.

SERVICE

REFRIGERATED MODULE COMPONENT

ACCESS (Outdoor Locker)

STEPS:

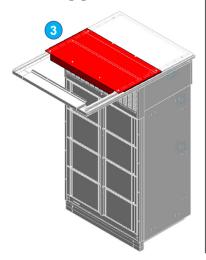
1. Remove front exterior panel.



2. Remove interior top panel.



3. Remove middle exterior top panel.



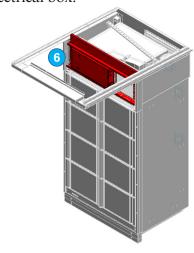
4. Remove rear exterior top panel.



5. Remove rear exterior top panel.



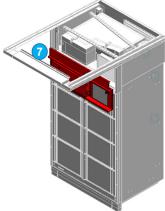
6. Remove electrical box.



LOCKER COMPONENT ACCESS

(Outdoor Locker)

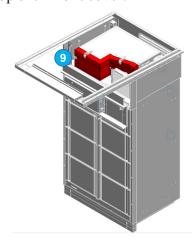
7. Place electrical box frame in door cut-outs for servicing.



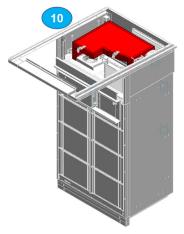
8. Remove top shell tie-down brackets.



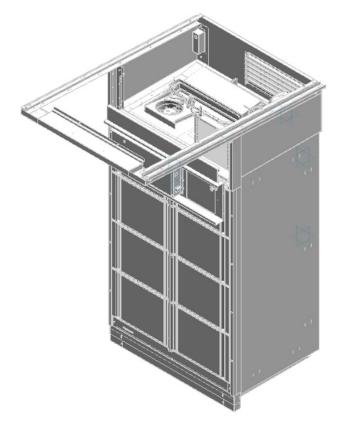
9. Remove top shell front cover.



10. Remove top shell.



Refrigeration system is now open for servicing.



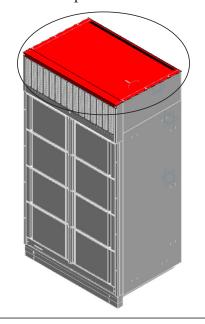
P/N 3110238_B 7-3

LOCKER COMPONENT ACCESS

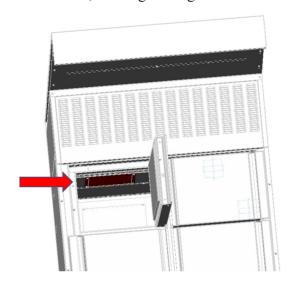
(Indoor Locker)

STEPS:

1. Remove front exterior panel.



2. Follow Step 5-10 of outdoor component access instructions, starting on Page 7-1.



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 re-installed correctly.

Fan Access:

- 1. Disconnect power to the locker assembly.
- 2. Remove evaporator fan access panel.
- 3. Remove plug clip and disconnect fan from wiring harness.
- 5. Remove screws holding fan motor/bracket assembly to plenum and remove assembly.
- 6. Replace fan motor/bracket assembly and reinstall screws.
- 7. Reconnect fan to wiring harness and replace plug clip.
- 8. Turn on power.

9. Verify that motors are working, and blades are turning in the correct direction.

A WARNING

Before Beginning Any Service or Repair:

Verify that all repair parts are identical models to the ones they are replacing. Do not substitute parts such as motors, switches, relays, heaters, compressors, power supplies or solenoids.

Use only Hussmann approved parts approved through the Hussmann Performance Parts Website:

https://parts.hussmann.com/

REPLACING ELECTRIC DEFROST HEATERS

for SLOL and SLIL models

Electric defrost requires a heater on the front and rear of the coil as shown in Figure 7-1. The heaters are held in place by the coil brackets and/or wire clips. To replace heater do the following steps:

Front and Rear Defrost Heaters

- 1. Disconnect power to the locker assembly.
- 2. Remove evaporator section panels
- 3. Remove heater.
- 4. Install new heater, clips and make electrical connections.
- 5. Replace the coil cover.
- 6. Turn on power.
- 7. Verify heater is operating properly.

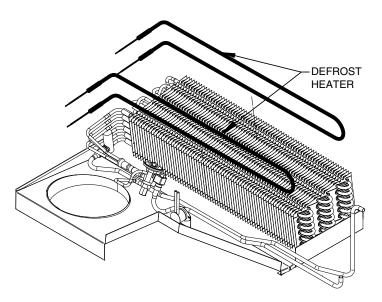


Figure 7-1 Front & Rear Defrost Heaters

REPLACING DRAIN PAN HEATER

Remove Drain Pan Heater

- 1. Disconnect power.
- 2. Pull heater out from integrated trap
- 3. Install new heater on evaporator pan surface and through the drain trap.
- 4. Reconnect power.
- 5. Verify that heater is working correctly.

REPLACING ELECTRIC COMPARTMENT HEATERS

for models SLOM, SLOA.

Outdoor medium temperature and ambient temperature refrigerated modules require a heater in front of the coil as shown. These heaters are held down to the evaporator pan with screws.

- 1. Disconnect power to the locker assembly.
- 2. Remove evaporator section panels
- 3. Remove heater.
- 4. Install new heater and make electrical connections.
- 5. Replace the coil cover.
- 6. Turn on power.
- 7. Verify heater is operating properly.

REPLACING DOOR GASKETS

Replace door gaskets with like gaskets if they become worn, or do not work correctly.



Figure 7-2 Door Gasket

CORELINK SETPOINT FOR REFRIGERATED MODULES

(AMBIENT TEMPERATURE)

APPENDIX

FACTORY SETTINGS

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File Name: SLOA8_R513a Date: 7/22/2020

CoreLink

System	840.0
railliy iylodel	35048
Parite	180
IP Address	IBD
Туре	Locker
Temperature	°F
Pressure	PSI
Refrigerant	R513A
Valve Drive	None
Number of Zones	1 Zone
Door Type	Locker
Refrigeration	
Control Mode	
Control Mode	Standard
Set Point	65
Deadband	10
Temperature Sensors	
Control Mix	Coil 1
Control Temp Mode	Distributed
Compressor Safeties	
Max Run Time Comp 1	0
Locker	
Locker Upper Cool	75
Lower Warm	55
Locker Seasonal Swtich	Enable
Heater Output 1 Duty Cycle	50
Compressor	
Primary Comp Protection	
Primary Protection	Switch
Primary Lockout Time	20
Count Threshold	5
Primary Restart Delay	15
Num of Primary Lockout Restarts	1
Secondary Compressor Protection	
Secondary Protection	None
Compressor Suction Protection	
Suction Pressure Swtich	Enable
Suction Failsafe Delay	300
Pressure Switch Time Delay	20
Alarm Count	5
Compressor Run Time Safeties	
Compressor Run Tme Mode 1	JJ0
Max Run Time Comp 1	0
Min Compressor ON Time Delay	0
Max Compressor OFF Time Delay	0
Failsafe Compressor ON Time	20
Failsafe Compressor OFF Time	5

Defrost	
Defrost Mode	None
Termination	
Termination Temp Sensor	
Term Temp Set Point	
Defrost Time Mode	
Defrost Interval	
Deforst Start Time	
Defrost Per Day	
Dual Temp Defrost Output	
Defrost Delay	
Min Defrost	
Max Defrost	1
Drip Time	-
Max Wait	
5000	
Evaporator Fan Settings	
Fan Mode	On Continous - On Defrost
Dual Temp Fan Mode	On Continous - On Defrost
Fan Operation After Defrost	Not Used
Condenser Fan Settings	
Fan Mode	On Refrig - Off Defost
Pressure Control Mode	Disable
Alarms	
High Temp	10
Low Temp	10
Alarm Hysteris	0
Alarm Delay	09
Dual Temp Mode	Off
Alarm Options	Relative
Frame Temp Alarm Settings	
Frame High Temp	90
Frame Low Temp	40
Hystersis	0
Delay	30
Anti-Sweat Control	
DASH Control Type	Standard Control
Dew SP	50
Dew Prop Band	18
Max Output	09
Min Output	0

	Switch	Open Open Open Open Open Open Open Open	Delay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DICO2 (Pin 21) DICO3 (Pin 22) DICO3 (Pin 24) DICO5 (Pin 26) DICO5 (Pin 26) DICO5 (Pin 26) DICO5 (Pin 28) RICO5 (Pin 45) ALCO5 (Pin 3) ALCO5 (Pin 3) ALCO5 (Pin 11) ACCO5 (Pin 15) ACCO5 (Pin 15)	Switch	Open Open Open Open Open Open Open Open	Delay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DICO3 (Pin 22) DICO4 (Pin 23) DICO5 (Pin 24) DICO5 (Pin 26) DICO5 (Pin 26) DICO5 (Pin 26) DICO5 (Pin 27) DICO5 (Pin 28) DICO5 (Pin 28) DICO5 (Pin 28) RLCO5 (Pin 43) RLCO5 (Pin 44) RLCO5 (Pin 44) RLCO5 (Pin 46) RLCO5 (Pin 46) RLCO5 (Pin 47) RLCO5 (Pin 48) ALCO5 (Pin 18) ALCO5 (Pin 11) ACCO5 (Pin 11) ACCO5 (Pin 15) AOCO5 (Pin 15)	Switch	Open Open Open Open Open Open Open Open	Delay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DICO4 (Pin 23) DICO5 (Pin 24) DICO5 (Pin 24) DICO6 (Pin 25) DICO8 (Pin 25) DICO8 (Pin 27) DICO9 (Pin 29) DICO1 (Pin 29) DICO1 (Pin 29) DICO1 (Pin 30) RLCO2 (Pin 43) RLCO3 (Pin 44) RLCO3 (Pin 46) RLCO3 (Pin 47) ALCO3 (Pin 47) ALCO3 (Pin 10) ALCO3 (Pin 11) ALCO4 (Pin 10) ALCO5 (Pin 11) ALCO5 (Pin 11) ALCO5 (Pin 11) ALCO5 (Pin 11) ALCO6 (Pin 12) AOCCO3 (Pin 15) AOCCO3 (Pin 15)	Switch	Open Open Open Open Open Open Close Close Close Close Close Close Close	Delay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DICOS (Pin 24) DICOS (Pin 25) DICOS (Pin 26) DICOS (Pin 28) RICOS (Pin 43) RICOS (Pin 45) RICOS (Pin 45) RICOS (Pin 46) RICOS (Pin 10) ALCOS (Pin 11) ACOCOS (Pin 11) ACOCOS (Pin 11)	Switch	Open Open Open Open Open Close Close Close Close Close Close	Delay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DICOG (Pin 25) DICOT (Pin 26) DICOG (Pin 29) DICOG (Pin 29) DICOG (Pin 29) DICOJ (Pin 29) DICOJ (Pin 42) RLCOJ (Pin 43) RLCOJ (Pin 44) RLCOJ (Pin 45) RLCOJ (Pin 46) RLCOJ (Pin 46) RLCOJ (Pin 46) RLCOJ (Pin 46) RLCOJ (Pin 10) ALCOJ (Pin 3) ALCOJ (Pin 3) ALCOJ (Pin 10) ACOCOJ (Pin 10) ACOCOJ (Pin 10) ACOCOJ (Pin 10) ACOCOJ (Pin 10)	Switch	Open Open Open Open Close Close Close Close Close Close Close Close Close	Delay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DICO7 (Pin 26) DICO8 (Pin 27) DICO9 (Pin 28) DIC10 (Pin 29) DIC11 (Pin 30) RLC01 (Pin 42) RLC02 (Pin 43) RLC03 (Pin 45) RLC03 (Pin 45) RLC05 (Pin 45) RLC05 (Pin 45) RLC05 (Pin 45) RLC06 (Pin 46) RLC06 (Pin 10) ALC01 (Pin 2) ALC02 (Pin 3) ALC03 (Pin 11) ALC03 (Pin 11) ALC04 (Pin 10) ACC03 (Pin 11) ACC03 (Pin 11) ACC03 (Pin 11) ACC03 (Pin 15) ACC03 (Pin 15)	Switch	Open Open Close	Delay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DICO8 (Pin 27) DICO9 (Pin 28) DIC10 (Pin 29) RLC01 (Pin 43) RLC02 (Pin 44) RLC02 (Pin 44) RLC03 (Pin 44) RLC03 (Pin 45) RLC03 (Pin 46) RLC03 (Pin 47) ALC03 (Pin 10) ALC03 (Pin 11)	Switch	Open Close	Delay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DICO9 (Pin 28) DIC10 (Pin 29) DIC11 (Pin 30) RLC01 (Pin 44) RLC02 (Pin 44) RLC03 (Pin 44) RLC03 (Pin 46) RLC03 (Pin 46) RLC03 (Pin 47) ALC03 (Pin 10) ALC03 (Pin 11) ALC04 (Pin 10) ALC03 (Pin 11) ALC05 (Pin 11) ALC06 (Pin 11) ALC06 (Pin 12) ACC03 (Pin 12) ACC03 (Pin 14) ACC03 (Pin 14) ACC03 (Pin 15) ACC03 (Pin 15)	Switch	Close Close Close Close Close Close Close Close Close	Delay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DIC10 (Pin 29)	Switch	Close Close Close Close Close Close Close Close Close	Delay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
DIC11 (Pin 30)		Polarity Close Close Close Close Close Close	Delay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
RLC01 (Pin 42) RLC02 (Pin 43) RLC03 (Pin 44) RLC03 (Pin 46) RLC05 (Pin 49) RLC06 (Pin 62) RLC06 (Pin 7) ALC01 (Pin 2) ALC01 (Pin 3) ALC07 (Pin 3) ALC07 (Pin 3) ALC07 (Pin 3) ALC07 (Pin 10) ALC07 (Pin 10) ALC06 (Pin 11) ALC06 (Pin 11) ALC06 (Pin 12) ACC03 (Pin 15) ACC03 (Pin 15)		Polarity Close Close Close Close	Delay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
RLC01 (Pin 42) RLC02 (Pin 43) RLC03 (Pin 44) RLC03 (Pin 46) RLC05 (Pin 46) RLC06 (Pin 46) RLC07 (Pin 50) RLC07 (Pin 50) RLC07 (Pin 50) RLC08 (Pin 10) ALC08 (Pin 11)		Close Close Close Close	Delay 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
RLCO1 (Pin 42) RLCO2 (Pin 43) RLCO3 (Pin 45) RLCO3 (Pin 45) RLCO5 (Pin 46) RLCO5 (Pin 70) RLCO5 (Pin 71) RLCO5 (Pin 71) ALCO1 (Pin 7) ALCO2 (Pin 10) ALCO2 (Pin 11) ALCO2 (Pin 11) ALCO3 (Pin 11)	Not Used	Close Close Close	0 0 0 0 0 0
RLC02 (Pin 43) RLC03 (Pin 44) RLC03 (Pin 46) RLC06 (Pin 49) RLC06 (Pin 50) RLC07 (Pin 50) RLC08 (Pin 51) ALC08 (Pin 51) ALC08 (Pin 10) ALC08 (Pin 11) ALC08 (Pin 11) ACC01 (Pin 7) ACC01 (Pin 7) ACC03 (Pin 8) ACC03 (Pin 8) ACC03 (Pin 8) ACC03 (Pin 8) ACC03 (Pin 15)		Close	0 0 0 0 0
RLC03 (Pin 44) RLC04 (Pin 45) RLC05 (Pin 49) RLC06 (Pin 51) RLC06 (Pin 51) RLC08 (Pin 51) ALC01 (Pin 2) ALC02 (Pin 3) ALC03 (Pin 10) ALC03 (Pin 11) ALC05 (Pin 11) ALC06 (Pin 11) ALC06 (Pin 12) AC070 (Pin 8)	Cond Fan	Close	0 0 0
RLC04 (Pin 45) RLC05 (Pin 46) RLC05 (Pin 49) RLC07 (Pin 50) RLC01 (Pin 2) ALC01 (Pin 3) ALC02 (Pin 3) ALC03 (Pin 10) ALC03 (Pin 11) ALC06 (Pin 11) ALC06 (Pin 12) AC07 (Pin 12) AC07 (Pin 11) ALC06 (Pin 12) AC07 (Pin 11)	Evap Fan	Close	0 0 0 0
RLCO5 (Pin 46) RLCO6 (Pin 49) RLCO7 (Pin 50) RLCO8 (Pin 51) ALCO2 (Pin 3) ALCO3 (Pin 10) ALCO3 (Pin 11) ALCO6 (Pin 11) ALCO6 (Pin 12) ACO6 (Pin 15) ACO6 (Pin 15)	Not Used	2000	0 0
RLCO6 (Pin 49) RLCO7 (Pin 50) RLCO8 (Pin 51) RLCO8 (Pin 51) ALCO1 (Pin 3) ALCO3 (Pin 4) ALCO3 (Pin 10) ALCO5 (Pin 11) ALCO6 (Pin 12) ACO6 (Pin 15) ACO6 (Pin 15)	Not Used	Open	0 0
RLCO7 (Pin 50) RLC08 (Pin 51) ALC01 (Pin 3) ALC02 (Pin 3) ALC03 (Pin 4) ALC05 (Pin 10) ALC05 (Pin 11) ALC06 (Pin 11) ALC06 (Pin 12) AC07 (Pin 12) AC07 (Pin 15) AC07 (Pin 16) AC07 (Pin 16) AC07 (Pin 16) AC07 (Pin 16)	Refrigeration 1	Close	0
ALCO8 (Pin 51) ALCO1 (Pin 2) ALCO2 (Pin 3) ALCO3 (Pin 10) ALCO3 (Pin 11) ALCO5 (Pin 11) ALCO5 (Pin 11) ALCO5 (Pin 11) ACCO3 (Pin 12) ACCO3 (Pin 15) ACCO3 (Pin 15)	Not Used	Open	0
ALCO1 (Pin 2) ALCO2 (Pin 3) ALCO3 (Pin 4) ALCO3 (Pin 10) ALCO5 (Pin 11) ALCO5 (Pin 11) ALCO5 (Pin 12) ACCO1 (Pin 7) ACCO1 (Pin 7) ACCO3 (Pin 8) ACCO3 (Pin 8) ACCO3 (Pin 8)	Not Used	Open	
ALCO1 (Pin 2) ALCO2 (Pin 3) ALCO3 (Pin 4) ALCO4 (Pin 10) ALCO5 (Pin 11) ALCO5 (Pin 12) ACC01 (Pin 7) ACC02 (Pin 8) ACC03 (Pin 8) ACC03 (Pin 8)			
ALCO1 (Pin 2)	Configuration	Offset	Туре
ALCO2 (Pin 3) ALCO3 (Pin 4) ALCO3 (Pin 10) ALCO5 (Pin 11) ALCO6 (Pin 12) ACO6 (Pin 15) ACO6 (Pin 15)	Discharge Air 1	0	CPC
ALC03 (Pin 4) ALC04 (Pin 10) ALC04 (Pin 11) ALC06 (Pin 12) ALC06 (Pin 12) AOC01 (Pin 7) AOC03 (Pin 8) AOC03 (Pin 8) AOC03 (Pin 15) AOC04 (Pin 16)	Defrost Terminate 1	0	CPC
ALCO4 (Pin 10) ALCO5 (Pin 11) ALCO6 (Pin 12) ALCO6 (Pin 12) AOCO1 (Pin 7) AOCO2 (Pin 8) AOCO3 (Pin 15) AOCO3 (Pin 15)	Comp Disch Press 1	0	05V
ALCOS (Pin 11) ALCO6 (Pin 12) ACOG (Pin 12) ACOG (Pin 8) ACCO3 (Pin 8) ACCO3 (Pin 15) ACCO3 (Pin 15) ACCO4 (Pin 16)	Condenser Outlet Sensor	0	CPC
ALCO6 (Pin 12) AOCO1 (Pin 7) AOCO2 (Pin 8) AOCO3 (Pin 15) AOCO4 (Pin 16)	Frame Temp	0	CPC
AOC01 (Pin 7) AOC02 (Pin 8) AOC03 (Pin 15) AOC04 (Pin 16)	Compressor Suction Pressure	0	05V
AOC01 (Pin 7) AOC02 (Pin 8) AOC03 (Pin 15) AOC04 (Pin 16)	a citouristic	1	
AOC02 (Pin 8) AOC03 (Pin 15) AOC04 (Pin 16)		010V	
AOCO3 (Pin 15) AOCO4 (Pin 16)		010V	
AOCO4 (Pin 16)	Not Used		
Desko Velice & And Act Al	Not Used		
VO so A south to cultury of Almost and Almos			
riobe value at 4111A 01 0V	0		
Probe Value at 20mA or 5V	200		
HSVD30			
	0		
Probe Value at 20mA or 5V	500		

rd Control

CORELINK SETPOINT FOR REFRIGERATED MODULES

APPENDIX

(MEDIUM TEMPERATURE)

File Name: SLOM8_R513a

CoreLink

Date: 7/22/2020 Model: XPG208D

FACTORY SETTINGS

Start Time

de Defrost

Compressor Run Time Safel
Compressor Run Tme Mod
Max Run Time Com Valve Temper Door Compressor Safeties
Max Run Time Cc Locker Uppe Locker Seasonal S Heater Output 1 Duty Primary Prote Primary Lockout Num of Primary Lockout Re Secondary Compressor Protect Compressor Suction Protection Suction Failsafe Delay
Pressure Switch Time Family P Control Temp Suction Pressure S Control Primary Restart Secondary Prot Min Compressor ON Time Max Compressor OFF Time Number of Lower Alarm Primary Comp Protection **Temperature Sensors** Refrigeration **Control Mode** Compressor Locker

S		
Name TBD	Defrost Mode 0	Off Cycl
IP Address TBD	Termination	
Type	Termination Temp Sensor	
Temperature °F	Term Temp Set Point	
Pressure PSI		Specific
Refrigerant R513A	Defrost Interval	
	Deforst Start Time	10:0
	Defrost Per Day	
	Dual Temp Defrost Output	Dis
geration	Defrost Delay	
rol Mode	Min Defrost	
Control Mode Standard	Max Defrost	
	Drip Time	
Deadband 5	Max Wait	
Control Mix Coil 1	Fans	
Dis	Evaporator Fan Settings	
	Fan Mode On	On Refrig
Max Run Time Comp 1 0		On Refrig
		Not
Locker Upper Cool		
Lower Warm 28	Condenser Fan Settings	
Locker Seasonal Swtich Enable	Fan Mode On I	On Refrig
	Pressure Control Mode	Dis
pressor	Alarms	
ary Comp Protection	High Temp	
Primary Protection Switch	Low Temp	
	Alarm Hysteris	
	Alarm Delay	
	Dual Temp Mode	
	Alarm Options	Rel
	Frame Temp Alarm Settings	
Secondary Protection None	Frame High Temp	0.
pressor Suction Protection	Frame Low Temp	,
Suction Pressure Swtich Enable	Hystersis	
ion Failsafe Delay 300	Delay	
Pressure Switch Time Delay 20		
	Anti-Sweat Control	
	DASH Control Type St	Standar
Compressor Run Tme Mode 1 Off	Dew SP	
	Dew Prop Band	
Min Compressor ON Time Delay 0	Max Output	
	Min Output	
Failsafe Compressor ON Time 20	· 	Ī
	T	

- Off Defost

			,	
	DIC01 (Pin 20)	Not Used	Open	
	DIC02 (Pin 21)	Not Used	Open	
	DIC03 (Pin 22)	Not Used	Open	
	DIC04 (Pin 23)	Not Used	Open	
	DIC05 (Pin 24)	Not Used	Open	
	DIC06 (Pin 25)	Not Used	Open	
	DIC07 (Pin 26)	Not Used	Open	
	DIC08 (Pin 27)	Not Used	Open	
	DIC09 (Pin 28)	Not Used	Open	
	DIC10 (Pin 29)	Comp Suction 1 Safety Switch	Close	
	DIC11 (Pin 30)	Comp Disch 1 Safety Switch	Close	
Digital Out		Configuration	Polarity	Delay
	RLC01 (Pin 42)	Not Used	Close	0
	RLC02 (Pin 43)	Cond Fan	Close	0
	RLC03 (Pin 44)	Evap Fan	Close	0
	RLC04 (Pin 45)	Not Used	Close	0
	RLC05 (Pin 46)	Not Used	Open	0
	RLC06 (Pin 49)	Refrigeration 1	Close	30
	RLC07 (Pin 50)	Not Used	Open	0
	RLC08 (Pin 51)	Not Used	Open	0
Analog Input		Configuration	Offset	Type
	ALC01 (Pin 2)	Discharge Air 1	0	CPC
	ALC02 (Pin 3)	Defrost Terminate 1	0	CPC
	ALC03 (Pin 4)	Comp Disch Press 1	0	05V
	ALC04 (Pin 10)	Condenser Outlet Sensor	0	CPC
	ALC05 (Pin 11)	Frame Temp	0	CPC
	ALC06 (Pin 12)	Compressor Suction Pressure	0	05V
Analog Output		Configuration	Type	
	AOC01 (Pin 7)	Heater 1	010V	
	AOC02 (Pin 8)	Anti-Sweat	010V	
	AOC03 (Pin 15)	Not Used		
	AOC04 (Pin 16)	Not Used		
HSVD20				
Probe ∿	Probe Value at 4mA or 0V	0		
Probe Va	Probe Value at 20mA or 5V	500		
HSVD30				
Probe ∿	Probe Value at 4mA or 0V	0		
Probe Va	Probe Value at 20mA or 5V	500		

On Defost

On Defost

CORELINK SETPOINT FOR REFRIGERATED MODULES

(LOW TEMPERATURE) FACTORY SETTINGS

APPENDIX

File Name: SLOL8_R448a

Date: 7/22/2020 Model: XPG208D

Part Number: 3130095 Note: Software changes do occur - Please validate parameters are up to date

Family Model	SLOL8
Name	TBD
IP Address	TBD
Туре	Locker
Temperature	٦,
Pressure	PSI
Refrigerant	R448A
Valve	None
Number of Zones	1 Zone
Door Type	Locker
Refrigeration	
Control Mode	
Control Mode	Standard
Set Point	-10
Deadband	8
Temperature Sensors	
Control Mix	Coil 1
Control Temp Mode	Distributed
Compressor Safeties	
Max Run Time Comp 1	0
Locker	
Locker Upper Cool	2
Lower Warm	-40
Locker Seasonal Swtich	Enable
Heater Output 1 Duty Cycle	40
Compressor	
Primary Comp Protection	
Primary Protection	Switch
Primary Lockout Time	20
Count Threshold	5
Primary Restart Delay	15
Num of Primary Lockout Restarts	1
Secondary Compressor Protection	
Secondary Protection	None
Compressor Suction Protection	
Suction Pressure Swtich	Enable
Suction Failsafe Delay	300
Pressure Switch Time Delay	20
Alarm Count	5
Compressor Run Time Safeties	
Compressor Run Tme Mode 1	0ff
Max Run Time Comp 1	0
Min Compressor ON Time Delay	0
Max Compressor OFF Time Delay	0
Failsafe Compressor ON Time	20
0	

Defrost Mode	i
בייייייייייייייייייייייייייייייייייייי	Elec
Termination	Temp
Termination Temp Sensor	Defrost Terminate
Term Temp Set Point	36
Defrost Time Mode	Specific Start Time
Defrost Interval	12
Deforst Start Time	10:00 AM
Defrost Per Day	2
Dual Temp Defrost Output	Disable
Defrost Delay	1
Min Defrost	15
Max Defrost	09
Drip Time	15
Max Wait	1
Fans	
Evaporator Fan Settings	
Fan Mode	On Refrig - Off Defost
Dual Temp Fan Mode	On Refrig - Off Defost
Fan Operation After Defrost	Not Used
Condoners Cottings	
Fan Mode	On Refrig - Off Defost
Pressure Control Mode	Disable
Alarms	
High Temp	15
Low Temp	10
Alarm Hysteris	0
Alarm Delay	09
Dual Temp Mode	JJO
Alarm Options	Relative
Frame Temp Alarm Settings	
Frame High Temp	90
Frame Low Temp	40
Hystersis	0
Delay	30
Anti-Sweat Control	
DASH Control Type	Standard Control
dS wad	50
Dew Prop Band	18
Max Output	100
Min Output	15

Digital in	Relay Configuration	Polarity	
DIC01 (Pin 20)		Open	
DIC02 (Pin 21)) Not Used	Open	
DIC03 (Pin 22)) Not Used	Open	
DIC04 (Pin 23)) Not Used	Open	
DIC05 (Pin 24)) Not Used	Open	
(57 uid) 900IO) Not Used	Open	
DICO7 (Pin 26)		Open	
(LZ uid) 800IO) Not Used	Open	
(87 Liu (Pin 28)) Not Used	Open	
(62 uid) DIC10	Comp Suction 1 Safety Switch	Closed	
DIC11 (Pin 30)	Comp Disch 1 Safety Switch	Closed	
Digital Out	Configuration	Polarity	Delay
RLC01 (Pin 42)) Not Used	Open	0
RLC02 (Pin 43)	Cond Fan	Close	0
81CO3 (Pin 44)	Evap Fan	Close	0
RLC04 (Pin 45)	Drain Pan Heater	Close	0
RLC05 (Pin 46)) Not Used	Open	0
RLC06 (Pin 49)) Refrigeration	Close	30
RLC07 (Pin 50)		Open	0
RLC08 (Pin 51)	Not Used	Open	0
Analog Input	Configuration	Offset	Type
ALC01 (Pin 2)	Discharge Air 1	0	CPC
ALC02 (Pin 3)		0	CPC
(4 UJ (Piu 4)	Comp Disch Press 1	0	05V
(DI UI) VICO 4 (DIU 10)	CO	0	CPC
ALC05 (Pin 11)	Frame Temp	0	CPC
ALC06 (Pin 12)	Compressor Suction Pressure	0	05V
Analog Output	8	Туре	
AOC01 (Pin 7)	Heater 1	010V	
AOC02 (Pin 8)	1	010V	
AOC03 (Pin 15)) Not Used		
AOC04 (Pin 16)	Not Used		
HSVD20			
Probe Value at 4mA or 0V	0		
Probe Value at 20mA or 5V	500		
HSVD30			
Probe Value at 4mA or 0V			
Probe Value at 20mA or 5V	500		

SENSOR REISTANCE AND PRESSURE

Sensor Resistance

NTC 10K Temperature Sensor

Femperature (°F)	Temperature Temperature (°C)	Resitance Ω
-40	-40	336,450
-30	-34	234,170
-20	-29	165,210
-10	-23	118,060
0	-18	85,399
10	-12	62,493
20	-7	46,235
30	-	34,565
40	4	26,100
20	10	19,899
09	16	15,311
70	21	11,883
80	27	9,299
90	32	7,334
100	38	5,828
110	43	4,664
120	49	3,758
130	54	3,048
140	09	2,488
150	99	2,042
160	71	1,686
170	77	1,400
180	82	1,169
190	88	981
200	93	827

Pressure Sensor

0-5V Pressure Sensor

0-650 PSI	0	56	25	78	104	130	156	182	208	234	260	286	312	338	364	390	416	442	468	494	520	546	572	298	624	650
0-500 PSI	0	20	40	09	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	200
0-300 PSI	0	12	24	36	48	09	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288	300
0-200 PSI	0	œ	16	24	32	40	48	26	64	72	80	88	96	104	112	120	128	136	144	152	160	168	176	184	192	200
0-150 PSI	0	9	12	18	24	30	36	42	48	54	09	99	72	78	84	90	96	102	108	114	120	126	132	138	144	150
Volts	0	0.2	0.4	9.0	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	5.6	2.8	3	3.2	3.4	3.6	3.8	4	4.2	4.4	4.6	4.8	2

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.

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