

Bulletin No. H-IM-RRC-MOHAVE

June 2018

Part Number 49920401

Replaces H-IM-RRC-MOHAVE (02/18)

Mohave Remote Refrigeration Control

- Installation
- Start Up
- Troubleshooting
- Operation

For Technical Support please call 800-321-1881

For Replacement parts, visit InterLink™ Commercial Refrigeration Parts at heatcraftrpd.com

RRC normally connects to all DHCP IP internet connections.

If your site is Static IP, Mohave, or is highly secure, IT

personnel may be required to be on site.

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General

Read this guide and any instruction(s) packaged with separate kit(s)/component prior to installation. Guide to be left in the possession of owner with clear explanation of device functions. Retain installation guide for future reference. This guide provides instructions for installing, wiring and configuring the Wireless Remote Refrigeration Control (RRC) to the Mohave Hot Gas Defrost system.

Safety Information



The following instructions are written as a guide to qualified service personnel for proper installation, adjustment, and operation of this RRC system. Read instructions thoroughly prior to attempting system installation and/or modifications. Failure to follow the outlined instructions can result in improper installation and/or modifications, possibly resulting in fire, electrical shock, property damage, personal injury or death.



Before beginning any modification, be sure main disconnect switch is in the "off" position. Failure to do so can cause electrical shock resulting in property damage, personal injury or death. Tag disconnect with an appropriate warning tag. **NOTE:** There may be more than one power source.



✓!\ CAUTION

Static sensitive components. Discharge any static electrical charge by touching the bare metal inside the control box prior to carrying out any work. Never unplug cables, printed circuit board terminal blocks, or power plugs while power is applied to the unit.



WARNING

Devices not provided by Heatcraft shall NOT be connected to the Mohave controller WITHOUT written factory approval

Inspection

Responsibility should be assigned to a dependable individual at the job site to receive material. Each shipment should be carefully checked against the bill of lading. The shipping receipt should not be signed until all items listed on the bill of lading have been accounted for. Check carefully for concealed damage. Any shortage or damages should be reported to the delivering carrier. Damaged material becomes the delivering carrier's responsibility, and should not be returned to the manufacturer unless prior approval is given to do so. When uncrating, care should be taken to prevent damage.

Heavy equipment should be left on its shipping base until it has been moved to the final location. Check the serial tag information with invoice. Report any discrepancies to your Heatcraft Refrigeration Products Sales Representative.

SELLER makes no warranty, express or implied, of fitness for any particular purpose, or of any nature whatsoever, with respect to products manufactured or sold by seller hereunder, except as specifically set forth above and on the face hereof. It is expressly understood and agreed that SELLER shall not be liable to buyer, or any customer of buyer, for direct or indirect, special, incidental, consequential or penal damages, or for any expenses incurred by reason of the use or misuse by buyer or third parties of said products. To the extent said products may be considered "consumer products," as defined in Sec. 101 of the Magnuson-Moss Warranty - Federal Trade Commission Improvement Act, SELLER makes no warranty of any kind, express or implied, to "consumers," except as specifically set forth below and on the face hereof.

Warranty Statement

Seller warrants to its direct purchasers that products, including Service Parts, manufactured by SELLER shall be of a merchantable quality, free of defects in material or workmanship, under normal use and service for a period of one (1) year from date of original installation, or eighteen (18) months from date of shipment by SELLER, whichever first occurs. Any product covered by this order found to Seller's satisfaction to be defective upon examination at Seller's factory will at SELLER's option, be repaired or replaced and returned to Buyer via lowest common carrier, or SELLER may at its option grant Buyer a credit for the purchase price of the defective article. Upon return of a defective product to SELLER's plant, freight prepaid, by Buyer, correction of such defect by repair



or replacement, and return freight via lowest common carrier, shall constitute full performance by SELLER of its obligations hereunder.

SELLER shall have no liability for expenses incurred for repairs made by Buyer except by prior, written authorization. Every claim on account of breach of warranty shall be made to SELLER in writing within the warranty period specified above; otherwise such claim shall be deemed waived. Seller shall have no warranty obligation whatsoever if its products have been subjected to alteration, misuse, negligence, free chemicals in system, corrosive atmosphere, accident, or if operation is contrary to SELLER's or manufacturer's recommendations, or if the serial number has been altered, defaced, or removed.

Seller makes no express warranties except as noted above. All implied warranties are limited to the duration of the Express Warranty. Liability for incidental and consequential damages is excluded. The forgoing is in lieu of all other warranties, express

or implied, notwithstanding the provisions of the uniform commercial code, the Magnuson-Moss Warranty - Federal Trade Commission Improvement Act, or any other statutory or common law, federal or state.

The following conditions should be adhered to when installing this unit to maintain the manufacturer's warranty:

- (a) The power supply to the unit must meet the following conditions:
 - A. Single phase must be within +10% or -5% of nameplate ratings.
 - B. Phase imbalance cannot exceed 2%.
- All control and safety switch circuits must be properly connected according to the wiring diagram.
- (c) The factory installed wiring must not be changed without written factory approval.
- (d) All equipment is installed in accordance with local, state and national electrical code specified minimum clearances.

Getting Started:

- 1. Mohave RRC Network Communication Flow
- 2. Antenna Installation
- 3. ConnectPort X4 (Gateway kit) Hardware Installation
- 4. Field Retrofit (Modem Kit) Hardware Installation and Antenna Mounting for Factory installed equipment
- 5. Final configuration and connectivity

For further information on topics discussed in this I & O manual, visit Heatcraft's support page at heatcraftrpd.com.

To verify firmware version on the Hot Gas Defrost Board, Press the CLEAR/TEST Button ONCE, this will return the LED display to the default display. With the system in the OFF mode press the MONITOR button repeatedly to scroll to VERS Display, after a few seconds the Software version will be displayed. Record the displayed number on the provided Data Sheet (Table 5).

Mohave RRC Network Communication Flow:

The Mohave Wireless Remote Refrigeration Control (RRC) can process input parameters and monitor output activities of up to ten (10) Mohave Hot Gas systems with a single Gateway. The system (via the Heatcraft WWR Cloud) allows for continuous monitoring and is also capable of sending commands directly to the Mohave Hot Gas Defrost Control Board from any computer, tablet or mobile device.

The Cloud interface is uniquely designed for service engineers, operation managers and facility owners. Operators can monitor conditions to ensure that standard operating procedures are in place while maintaining control, via the Cloud, to optimize system performance based on real-time application data. The remote troubleshooting functionality, allows for quick and accurate system diagnoses and corrective action planning, resulting in resource allocation and administrative efficiencies that save time and money.

NOTE: Firmware updates with new features and bug fixes for the Mohave Hot Gas Defrost (HGD) Printed Circuit Board (PCB) are made available from time to time. Specific to RRC retrofit installations, the installer must verify the current firmware version on the Mohave HGD PCB (Firmware to be HotGas 2.05 for Rev E boards or later). If other than the stated firmware/board combination is identified, the installer shall contact Heatcraft's Field Service Department at (800) 321-1881 for assistance. Mohave HGD PCB require firmware HotGas 205.hex to enable proper RRC range of operations.



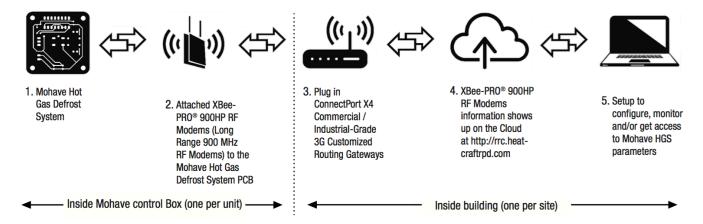


Figure 1: Mohave RRC Network Communication flow diagram

Table 1: Needed tools for installing Field Retrofit and/or Gateway Hardware							
Neede	d Tools	Tools that might be needed					
Tools	Use	Tools	Use				
	Precision Slotted Screwdriver		Adjustable Wrench				
	Phillips Screwdriver	N. C.	Wire Stripper/ Crimper				
	3/8, 5/16, 1/2 Nut Driver		Slotted Screwdriver				
3	5/16 Wrench		Multimeter				
T	Drill & 17/64 Drill Bit		Marker				



Antenna Installation

Safety Considerations: Before any work is undertaken, it is imperative to observe all precautions as stated in this manual, on tags, and/or labels, together with any other safety measures that may apply.

Codes And Standards: It is the responsibility of the installer to follow all national codes, standards and local ordinances, in addition to instructions laid out in this manual. The installation must comply with regulations of the local building, refrigeration, electrical, and other codes. Where local codes are not applicable, the installation must comply with the national codes and any and all authorities having jurisdiction.

NOTE: Survey the site before beginning any work and anticipate any hazardous condition(s) especially those listed below:

Safeguard that no power lines are in proximity to antennas, mast, cables etc., locate equipment a safe distance so as to avoid any contact with electrical lines even if mast and/or antennas are sloping or dipping.



✓!\ WARNING:

Electrical shock can cause personal injury or death. Avoid touching or holding any part of equipment when in contact with electric lines. Ensure that there is no possibility that equipment or personnel can come in contact (directly or indirectly) with power lines.



WARNING: ASSUME ALL OVERHEAD LINES ARE POWER LINES:

The horizontal distance between mast / antenna combination to the nearest power line shall be minimum twice the total length of mast/antenna combination. This will ensure that the rig will not come in contact with power lines even if rig is sloping or dipping during installation or thereafter.



!\ CAUTION:

- 1. Avoid falling, use safety procedures and safety gears when working at elevations above ground.
- 2. Don't work alone.
- 3. Use appropriate and approved safety equipment and /or safety gears for the task.
- 4. Ensure that all mast/antenna combination is securely grounded and cables connected to antennas are equipped with lightning protectors. Refer to the National Electrical Code for surge protection and grounding details.



Table 2: ConnectPort® X4 (Gateway Kit #59661801) Hardware - One per site							
HRP Part #	Contents of the Kit	Description	Qty/ Kit				
28920901		Antenna (900 MHZ 3dbi) w/ Bracket & U- Bolts & Nuts	1				
28920401		Lightning Protector	1				
28920601		ConnectPort X4 (Router & Accessories in box). Included antenna NOT Used	1				
28920501		LMR 400 Cable (100 ft coax cable)	1				
22595502		Wire 10 AWG Standard, 100 ft L Ground	1				
49920401	N/A	Instructions - installation	1				

Connectport X4 (Gateway Kit) Hardware Installation:

STEP 1: Find suitable location on roof or wall for antenna/mast installation. Preferred location for the main antenna/mast installation is that which has a clear line-of-sight to each Mohave unit being monitored. If such configuration is not possible, line-of-sight to as many Mohave units as possible will suffice as long as there exists line-of-sight from any of the previously configured to the hidden unit(s).

STEP 2: Install antenna/mast combination as per Figure 2

STEP 3: Connect lightning Protector, cable and 10 AWG ground wire per Figure 3.

Mounting instructions:

- Attach mounting bracket to mast as shown using two (2)
 U-bolts included
- Remove antenna mounting bolts and washer from antenna base (keep)
- Insert antenna into mounting hole (bracket) and secure with washer and nut previously removed. Do not over tighten.

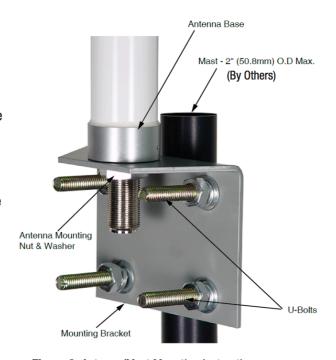


Figure 2: Antenna/Mast Mounting Instructions



- STEP 4: Run Coax Cable (LMR 400) to ConnectPort X4 (Gateway) inside building. Run ground wire to an appropriate earth ground connection.
- STEP 5: Locate ConnectPort X4 Router and accessories (Gateway Kit) box **included indoor antenna NOT USED.**
- STEP 6: Identify a suitable location with access to internet power and connection within building for the Gateway. Connect all accessories to Gateway per Figure 4. Ethernet port and power receptacle shall be provided by others.

NOTE:

If the required ConnectPort X4 Gateway configuration will be accomplished via the internet, the provided crossover shielded Cat5e Ethernet Cable shall be used. If however said configuration will be done via a Local Area Network, a straight-through, shielded Cat5e Ethernet Cable will be needed (not provided). For shielded Cat5e Ethernet Cable, a maximum run length of 295 feet (90 meters) is recommended.

STEP 7: Connect Power, Ethernet and Antenna to the ConnectPort X4 (Gateway) Figure 4.

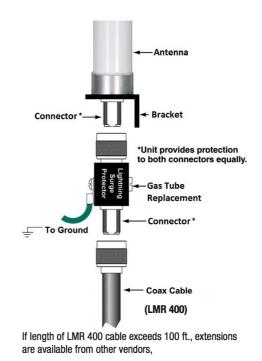


Figure 3: Antenna, Lightning Protector and LMR 400 coax Cable Connections

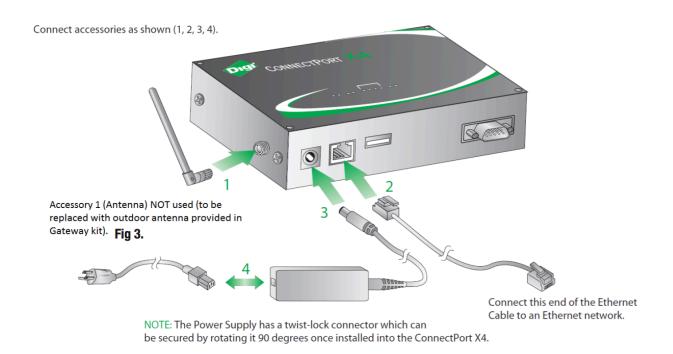


Figure 4: Gateway wiring - located in building and connected to external Antenna via LMR 400 Coax Cable



Device Cloud connectivity and Device Discovery operation:

STEP 8: Follow the below requirements

X4 Gateway - Local Network Connectivity

- 1. The X4 Gateway will receive its IP address settings via DHCP by default.
 - a. If DHCP is not available on the network, the device will assign itself a link-local address.

X4 Gateway - Required Open Ports for Device Cloud Connectivity

When using a firewall to filter outbound traffic, the X4 Gateway requires these network ports to be open for proper operation:

- 2. UDP port 53, for DNS
- 3. UDP port 123, for NTP
- 4. TCP port 3199, for Device Cloud

Network Considerations and Required Open Ports for Device Discovery Connectivity

The device that is intended to be found with Device Discovery must be reachable by a multicast packet from the PC you are searching from. The most straightforward way to ensure this is to scan from the same subnet. When using a firewall to filter outbound traffic on your PC, the Device Discovery tool requires these network ports to be open for proper operation:

5. UDP port 2362

Please be advised that the devices are communicating on TCP Port 3297 & 3299.

Additionally, there needs to be a firewall exception set up for the following:

- my.idigi.com
- devicecloud.digi.com
- my.devicecloud.com

Once the Gateway is set up, a team member of the Facilities Group will need to call the Heatcraft Field Service Department at (800) 321-1881 with the following information:

Gateway Part Number and MAC Address.
 You may need to enlist a member of your IT department to decipher some of the above information.

NOTE:

RRC normally connects to all DHCP IP internet connections. If your site is Static IP, Mohave, or is highly secure, IT personnel may be required to be on site.



ble 3: Field Retrofit Kit #59661701 -	One per Mohave unit		
HRP Part #	Contents of the Kit	Description	Qty/ Kit
28920801		XBee-PRO® 900HP RF Modems w/ RS0485 Connector	1
22531101		Non-Locking power cord	1
28920701		LMR 400 Cable (8 ft)	1
28920901	Antenna (900 MHZ 3dbi) w/ Bracket, U-Bolts and Nuts NOT Used		1
28920401		Lightning Protector	1
22531001		Transformer 100-240VAC in /24VDC out	1
2254611		DIN Rail 3" L	1
1303132	(#10 -16" X 3/4" Sheet Metal Screw	6
1007698	Push-in T		1
1007697	Ty-rap		5
2251140	251140 7/8" Snap Bushing		1
23300801	0801		4
5422C		5/16"18 Flange "WHIZ-LOCK" Nut	4
2251806,22527017, 22527521, 22591401,22595501	Wire 10 and 18 AWG Standard, Various length and end treatments		lot
49920401	N/A	Instructions - installation	1
23306701	(())))))	ground screw	1



Field Retrofit (Modem Kit) Hardware Installation and Antenna Mounting for Factory installed equipment:

Follow all steps in Table 4 to correctly install Field Retrofit (Modem Kit) Hardware (Steps 1 thru 44). Follow steps 1 thru 13, 16 and 35 to correctly install supplied antenna kit for factory installed option.

Table 4:	Field Retrofit Hardware Installation:
1	Use a Slotted screw driver to open both electrical panels of the Mohave Unit.
2	Prior to RRC equipment installation (field retrofit), unit to be placed in service mode and allow unit to cycle through pump down, before de-energizing the disconnect switch.
3	Use a 3/8" nut driver to remove two #10 screws from Filler Panel (left side top and bottom) to facilitate antenna bracket installation (Keep).
4	Locate and remove antenna box from kit: 1. Locate antenna mounting bracket inside box 2. Use mounting bracket as a template to locate the required 4 bolt holes in filler panel 3. Align mounting bracket, use a level to check for plumb condition 4. Mark and drill 19/64" bolt holes (4) 5. Affix mounting bracket with (provided) HEX nuts in back of filler panel (1/2" driver required). 6. Discard U-bolts, only required for gateway antenna installation
5	Antenna mounting: 1. Remove antenna mounting nut and lock washer from antenna base (keep) 2. Insert antenna into mounting bracket and secure with washer and mounting nut. 3. Do not over tighten
6	Locate the supplied Coaxial Lightning and Surge Protector 1. Connect the type N Male Connector end of the lightening protector to the antenna's type N Female Bulkhead Connector 2. Hand tighten or use a strap wrench to tighten to a torque of minimum 15.00 lb-in (1.70 N-m)
7	Locate the supplied Coaxial LMR 400 cable 1. Connect the type N Male Connector end of the LMR 400 cable to lightening protector's type N Female Bulkhead Connector 2. Hand tighten or use a strap wrench to tighten to a torque of minimum 15.00 lb-in (1.70 N-m)



	Continuea	
8		Locate supplied 70" long, 10 AWG green, ground wire with ring terminal to strip end.
9		The installed lightening protector must be connected to the building protective ground or to one or more approved grounding rods. Refer to National Electric Code for grounding details. Grounding the antenna: 1. Remove the small (Phillips head) screw and grounding terminal of the lightening protector (keep)
10		Crimp the strip end of the green 10 AWG grounding wire to the earlier removed ring grounding terminal (in step 9).
11		Reattach screw, grounding terminal and grounding wire to lightening protector and strap wire and cable together with the provided ty-raps.
12		Ty-rap cable and 10AWG grounding wire approximately every 12" - 18"
13	The state of the s	Run LMR 400 cable and 10 AWG grounding wire together and create a drip loop at the base of unit prior to wire pair entering control box.



14	C C	Locate the knock out stamping size that's appropriate to route both LMR cable and grounding wire. Knockout stamping is located on the side of the control box. 1. Use an appropriate tool and method to remove knockout
15	O C	From kit, locate and insert 7/8" Snap Bushing in opening before routing cable and grounding wire through opening.
16		Route ring terminal end of 10 AWG grounding wire together with RP-SMA Male Connector end of the LMR 400 cable through opening into control box.
17		Locate supplied Rectifier/Transformer (100-240VAC in / 24VDC out). Part Number:22531001
18		DIN Rail Part installation diagram: 1. Locate the supplied 3" DIN Rail. 2. Manipulate DIN rail to place in the appropriate location and use the supplied sheet metal screws (2) to affix. (Location to be determined by available space)
19		Place transformer in the appropriate location. Manipulate transformer clip on back to affix to rail. (Location to be determined by available space)
20		Locate supplied Controller Internet XBee RF Modem and RS485 Plug (keep). Manufacturer Part number (PN 28920801)
21		Place RF Modem in the appropriate location and use the supplied sheet metal screws (4) to affix Modem to control box panel. (Location to be determined by available space)



Iable 4. C	Continued	
22		Proximity of RF Modem and Rectifiers/Transformer may vary depending on available space in control box.
23		Locate supplied (1) 18 AWG Yellow wire, 84" with jumper terminal to strip end (PN22527521); and (1) 18 AWG Blue wire, 84" with jumper terminal to strip end (PN22527017)
24		Identify two Transformers, 208/230V-25V 100VA (typical for both 230V and 460V units) located in the unit's sub panel. Note wire polarity and color scheme.
25		From the primary voltage side of the Transformer to the right, remove both the Line (208-230V) and Common Quick Connects from Transformer Spade Connectors.
26		Connect both the Yellow and Blue 84" 18AWG wires to the transformer. 1. Connect Jumper terminal to the transformer Spade Connectors (maintain wire polarity scheme).
27		Reconnect existing Yellow and Blue (Line and Common) wires earlier removed in Step 25, to the Jumper terminals. Maintain polarity scheme
28		Thread the new 208-230V Line and Common wires (Yellow and Blue) through existing ty-rap in existing harness bundle. Follow existing harness to location in existing adjacent Control Panel.
29		Pull both Yellow and Blue wires (208-230V Line and Common) into the Control Panel.
30		Final routing of Yellow and Blue (208-230V Line and Common) wires to Rectifier/Transformer (100-240VAC in / 24VDC out). PN22531001



14510 11	Continued	
31		Connect two power wire (18 AWG Yellow and Blue) Strip ends to Rectifier/Transformer (BLU = L, YEL = N)
32	01	Locate supplied 6" long, 18 AWG green, ground wire with ring terminal to strip end. (PN22591401)
33		Connect ground wire (18 AWG Green) Strip ends to Rectifier/Transformer (GN = Ground)
34		Pair Rectifier /Transformer Ground (6", 18 AWG) from Step 33 with Antenna Ground (70", 10 AWG) from Step 16. 1. Connect both to a single location, ground to chassis
35	0-1-000 (2000)	Connect the RP-SMA Male Connector end of the LMR 400/CA400 Cable to the installed RF Modem. 1. Minimum Bend Radius 2 in (50 mm) 2. Hand tighten or use a 11/32 wrench to tighten to a torque of minimum 15.00 lb-in (1.70 N-m
36		Locate supplied Non-locking Power Cord /DC Power Supply.
37		Connect strip ends of Non-Locking power cord to rectifier/transformer [BLK/GRY = (+) and BLK = (-)].
38		Connect the Adaptor Plug end to the Controller Internet Xbee RF Modem. Bundle and ty-rap excess cord.
39		Locate one (1) supplied 30" long, 18/3 thermostat wire (BROWN or WHITE) (Consisting of three bare copper wires with jacket - (GREEN, RED, WHITE)



Table 4: Continued

Locate RS485 Plug earlier secured: 40 1. Screw side up, connect **GREEN = G**; **WHITE = T-**; and **RED = T+** 41 Connect the wired RS485 plug into the appropriate port of the Installed RF Modem (plug is keyed). 42 Detailed connection of RS485 Plug and RF Modem Connect the stripped end thermostat wires (red, green, and white), between Xbee RF modem, (RS 485 molded plug) and HotGas Controller. 43 1. NOTE: T+ on Modem = B on HG Controller (RED); G on Modem = Com on HG Controller (GREEN); T- on Modem = A on HG Controller (WHITE). 44 Image illustrates detailed connection of the 18/3 thermostat wire from RF Modem to HotGas PCB.

Prior to re-energizing unit, go through the following check list:

- Check to ensure that all electrical and mechanical connections made are secure and correct.
- Check to ensure that there are no third party devices connected to the Mohave Controller.
- Check wiring against provided wiring diagram Figures 5 and 6

MARNING: Devices not provided by Heatcraft shall NOT be connected to the Mohave Controller without written Factory Approval.

NOTE: Very important information to gather and forward to Heatcraft's technical service personnel to aid with final configuration and connectivity (see table 5)

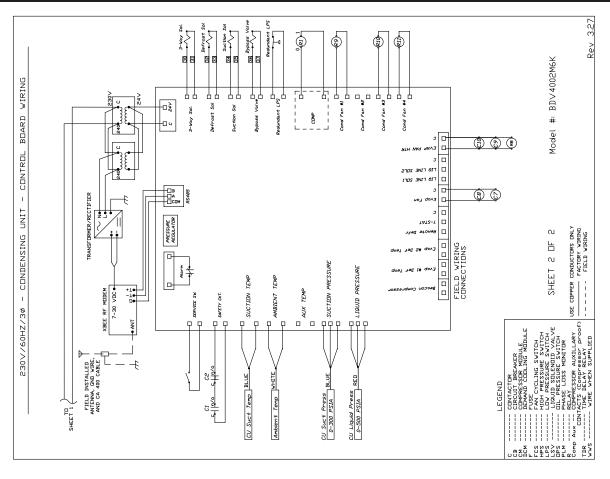
Final Configuration And Connectivity:

- The installed XBee-Pro 900 HP RF Modem's Serial Number (located on the side of Modem).
- The installed ConnectPort X4's Part Number and MAC Address (located on the underside of Gateway).
- Identify each Mohave unit by numbers and set the respective Modbus address, "MBAd" on the Hot Gas Defrost Board to match the assigned unit number.

Multiple Mohave control boards may be connected via Modbus RS-485, which allows monitor menu functions and system status to be viewed. This setting allows each board to be addressed uniquely (MBAd: 1 to 50).

NOTE: Contact Heatcraft's Field Service Department at (800) 321-1881 (8:00 AM - 8:00 PM EST)





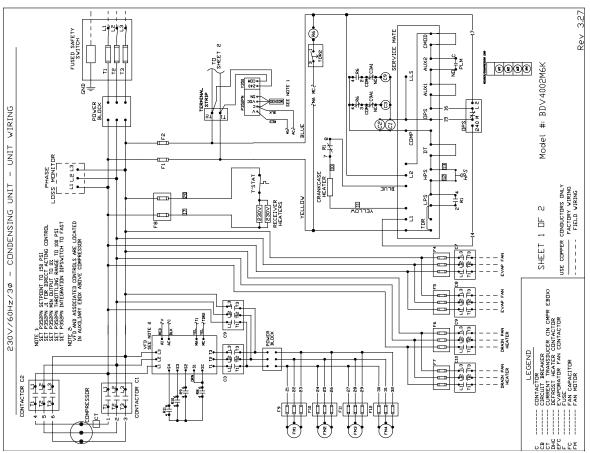
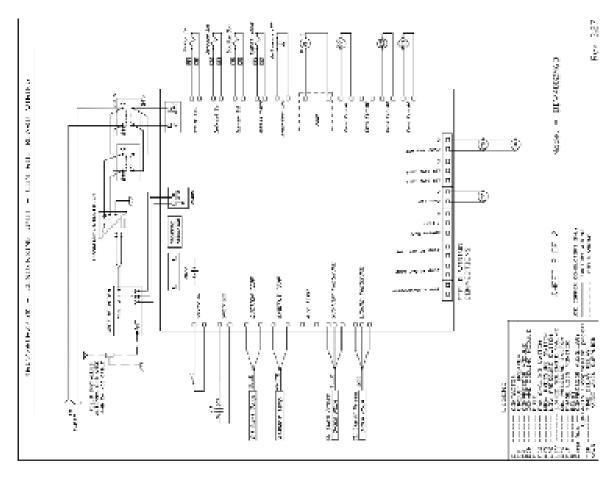


Figure 5: Typical 230 V/60HZ/3ph wiring diagram





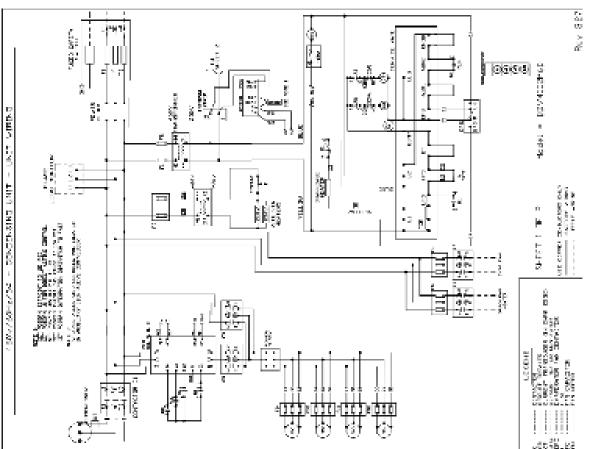


Figure 6: Typical 460 V/60HZ/3ph wiring diagram



	Table 5: Data	Sheet							
	Mohave Unit			Hot Gas Defrost Board (PCB)			(PCB)	XBee Rf Modem	Connect Port X4 (Gateway)
	Unit Tag (Customer Specific)	Unit Location (per Site plan)	Line-of-Sight to Gateway Antenna	Modbus Addr. (MBAd No.)	Firmware Version (FMWR V.)	Board PN (CUST PN)	Board Rev (CUST REV)	Serial No. (SN)	MAC Addr.
Sample Data	CLR-2 / CU-1	NE Roof	Υ	1	2.05	28910302	E	13A20040D66D55	00409D8D419F

VERY IMPORTANT INFORMATION TO GATHER AND FORWARD TO HEATCRAFT'S TECHNICAL SERVICE PERSONNEL TO AID WITH FINAL CONFIGURATION AND CONNECTIVITY:

- The installed XBee-Pro 900 HP RF Modem(s) Serial Number (located on the right side of Modem).
- The installed ConnectPort X4 MAC Address (located on the underside of Gateway).
- Identify each Mohave unit by numbers and set the respective Modbus address, "MBAd" on the HotGas Defrost Board to match the assigned unit number.

NOTE: Contact Heatcraft's Field Service Department at (800) 321-1881 (8:00 AM - 8:00 PM EST)



N I	
INI	NTDC

This guide is designed to provide only general information. If you need advice about a particular product application or installation, you should consult your Heatcraft representative. The applicable specification sheets, data sheets, handbooks, and instructions for Heatcraft products should be consulted for information about that product, including, without limitation, information regarding the design, installation, maintenance, care, warnings relating to, and proper uses of each product.

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