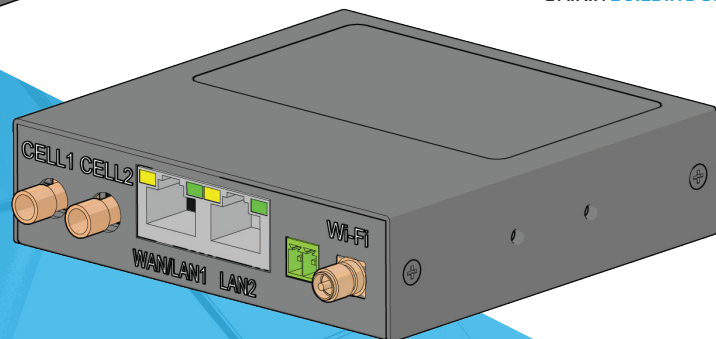
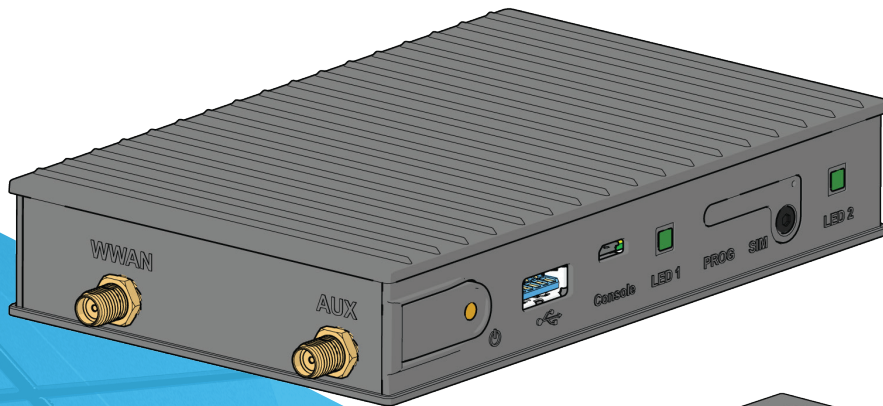


SITELINE®

BUILDING CONTROLS FOR DEDICATED EQUIPMENT



MODELS: AGZ-D, AGZ-E, AMZ, AWS, AWV, WCC, WDC, WMC, WME GEN 1, WME-C, WSC, DAH, DFSA, DPS, DPSA, MPS, RAH, RDS, RDT, RFS, RPS, SWT, AND SWP

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Safety Information

This manual provides installation, operation, and maintenance information for Daikin Applied SiteLine Building Controls used with MicroTech, MicroTech II, MicroTech III, MicroTech 4, and MicroTech E controllers.

NOTICE

Installation and maintenance are to be performed only by licensed, if required by local codes and regulations, or qualified personnel who are familiar with local codes and regulations and are experienced with this type of equipment.

DANGER

LOCKOUT/TAGOUT all power sources prior to service, pressurizing, depressurizing, or powering down the unit. Failure to follow this warning exactly can result in serious injury or death. Disconnect electrical power before servicing the equipment. More than one disconnect may be required to deenergize the unit. Be sure to read and understand the installation, operation, and service instructions within this manual.

WARNING

Electric shock hazard. Improper handling of this equipment can cause personal injury or equipment damage. This equipment must be properly grounded. Connections to and service of the MicroTech control panel must be performed only by personnel that are knowledgeable in the operation of the equipment being controlled.

CAUTION

Static sensitive components. A static discharge while handling electronic circuit boards can cause damage to the components. Discharge any static electrical charge by touching the bare metal inside the control panel before performing any service work. Never unplug any cables, circuit board terminal blocks, or power plugs while power is applied to the panel.

NOTICE

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with this instruction manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his or her own expense. Daikin disclaims any liability resulting from any interference or for the correction thereof.

Hazard Identification

The following symbols and labels are used throughout this manual to indicate immediate or potential hazards. It is the owner and installer's responsibility to read and comply with all safety information and instructions accompanying these symbols. Failure to heed safety information increases the risk of property damage and/or product damage, serious personal injury or death. Improper installation, operation and maintenance can void the warranty.

DANGER

Danger indicates a hazardous situation, which will result in death or serious injury if not avoided.

WARNING

Warning indicates a potentially hazardous situations, which can result in property damage, personal injury, or death if not avoided.

CAUTION

Caution indicates a potentially hazardous situations, which can result in minor injury or equipment damage if not avoided.

NOTICE

Notice indicates practices not related to physical injury.

Introduction

Revision History

Literature Number	Release Date	Action
IM 1398	April 2025	Initial Release
IM 1398-1	September 2025	Added PLC Software and CFast Swap Procedure to Appedndix

Reference Documents

Literature Number	Title	Source
OM 1341	Operation Manual	www.daikinapplied.com

Limited Warranty

Consult your local Daikin Representative for warranty details. To find your local Daikin Representative, go to www.DaikinApplied.com.

Security Statement

Product security starts with robust practices in development of interconnected systems. Daikin uses globally recognized standards, regulations, and laws, such as ISA 62443, to provide a secure solution.

General Information

This manual contains the information needed to install and configure the SiteLine Building Controls for Dedicated Equipment on MicroTech II Water Cooled Chiller models: WMC (Magnitude®), WSC, WDC and WCC; MicroTech III and MicroTech 4 Air Cooled Chiller models: AGZ, AWV, AWS, and AMZ (Pathfinder® and Trailblazer®); MicroTech E Water Cooled Chiller model: WME (Magnitude) Gen 1; MicroTech Water Cooled Chiller model: WME-C (Magnitude); Packaged Rooftop models: DPS (Rebel®), DFSA, DPSSA (Rebel Applied™), MPS (Maverick® II), RPS, RPR, RDT, and RFS (RoofPak®), Outdoor Air Handling Unit models: DAH (Rebel), RDS and RAH (RoofPak); and Pre-2025 Self-Contained Air Conditioning Systems models: SWP and SWT. For installation Technical Support, please contact the Daikin Applied Controls Support Group at CTLTechSupport@daikinapplied.com or (800) 432-1342.

NOTICE

MicroTech II Chiller models WCC, WDC, WMC and WSC must have the latest version of HMI Touchscreen hardware, which uses either an Axiomtek or a Siemens touchscreen PC. Update kits are available through Daikin Applied Service offices.

Product Description

SiteLine for Dedicated Equipment is a Software-as-a-Service (SaaS) solution that offers facility and equipment management, monitoring, control, analysis, and decision-making via a secure, cloud-communicating SiteLine Gateway or Software Gateway, that captures, analyzes, and delivers building and equipment information and third-party content (e.g., weather, utility, and CRM data), to a user device (smart phone, tablet, etc.) via cellular or local area network (LAN) connection.

The user can view unit statuses, modes, temperatures, pressures and setpoints, and adjust modes, schedules, and temperature setpoints. Messages and alarms can be viewed, acknowledged, and cleared. User accounts are role-based, and user interaction, including setpoint changes and clearing of alarms, is logged for later reporting. System updates can be delivered automatically from the cloud. Built-in trending tools provide easy access to unit performance history.

For most equipment, the data exchange and cloud connection are accomplished using a SiteLine Gateway. For the WME-C chiller model, data exchange is provided through technology embedded in the chiller unit PC. This solution, subsequently referred to as Software Gateway within this document, requires a SiteLine Modem to provide the cloud connection.

SiteLine Gateway Kit Primary Components



CAUTION

Extreme temperature hazard can cause damage to components. The SiteLine Gateway hardware is designed to operate in ambient temperatures from -40 deg F to 176 degrees F (-40 deg C to 80 degrees C) and in relative humidity from 10 to 90% (non-condensing).

SiteLine Gateway

The SiteLine Gateway is a factory-tested and commissioned device, which analyzes and delivers data to the cloud via cellular or local area network (LAN) connection. The SiteLine Gateway implements security, including data delivery via secure HTTPS using SSL, and whitelisting protection. If ordered from the factory, the SiteLine Gateway and associated hardware will already be installed.

For installation in retrofit applications, see document section titled, [“Field-Installed SiteLine Gateway on Chillers”](#) or [“Field-Installed SiteLine Gateway on AAH”](#).

Power Supply

A DC Power Supply is provided to power the SiteLine Gateway. In the case of a unit ordered with SiteLine the power supply will be factory installed in the unit control panel. For installation of the power supply in retrofit applications, see document section titled, [“Installing Power Supply”](#) on page 10.

Antenna

The provided cellular antenna must be field-mounted, regardless of whether the SiteLine solution was ordered factory installed or for retrofit installation. The antenna has a magnetic base, which is suitable for directly mounting to the unit control panel or frame.

SiteLine Modem Kit Primary Components (WME-C Chiller Model)



CAUTION

Extreme temperature hazard can cause damage to components. The SiteLine Modem hardware is designed to operate in ambient temperatures from -40 deg F to 176 degrees F (-40 deg C to 80 degrees C) and in relative humidity from 10 to 90% (non-condensing).

SiteLine Modem

The SiteLine Modem is used to provide the cloud connection on the WME-C chiller model. These models have an embedded Software Gateway that provides data transfer functionality. If ordered from the factory, the SiteLine Modem and associated hardware will already be installed.

For installation in retrofit applications, see document section titled, [“Field-Installed SiteLine Modem on Chillers”](#) on page 18.

Power Supply

For most applications, the SiteLine Modem can be powered using 24VDC available within the unit control panel. A power cable is included for this purpose. In cases where the modem must be located remotely, a 110VAC to 24VDC plug-in power supply is provided to power the SiteLine Modem.

Antennas

Multiple direct-connect antennas are included with the SiteLine Modem. These are suitable for installation in temperature- and humidity-controlled environments. Two of these are used for cellular communication, and one is used for wireless configuration of the modem. The two cellular antennas are stamped with a “4G” logo.

Installation

Material Shipped Loose

Factory-Installed SiteLine Gateway

If the equipment was ordered with SiteLine for Dedicated Equipment from the factory, it will ship with the SiteLine Gateway and power supply already installed and wired within the control enclosure. On chillers, the antenna is shipped inside the control enclosure. The coaxial cables from the antenna must be routed to the control enclosure once installed in the field.

For rooftop units, the antenna is preinstalled. See [“Installing Antenna” on page 10](#).

Field-Installed SiteLine Gateway Kit

The following components ship in field installed SiteLine Gateway kit:

- SiteLine Gateway
- DC Power Supply
- Magnetic-base antenna
- Ethernet patch cable
- Hardware packet

Factory-Installed SiteLine Modem (WME-C Chiller Model)

If the equipment was ordered with SiteLine for Dedicated Equipment from the factory, all hardware is shipped with the unit and must be installed in the field.

Field-Installed SiteLine Modem on Chillers

- SiteLine modem (with SIM card pre-installed)
- (3) Direct-connect antennas - (2) cellular, (1) Wi-Fi
- (2) Mounting flanges with screws
- (4) Installation screws for mounting flanges
- Ethernet patch cable
- 110VAC to 24VDC plug-in power supply
- Power cable
- Hook-and-loop squares

Necessary Tools and Supplies

NOTICE

Not all tools and supplies required for every installation

- Multimeter
- Cordless drill
- Drill bit set
- 7/8" step drill bit (suitable for drilling through metal)
- #2 Phillips screwdriver
- #2 slotted screwdriver
- Precision screwdriver set (slotted and Philips)
- Hex key set (SAE and Metric)
- Nut driver set
- Wire strippers
- Hammer
- Pliers
- Small framing square
- Torpedo level
- Silicone sealant
- Laptop computer
- Ethernet patch cable

Field-Installed SiteLine Gateway on Chillers



DANGER

Electric shock hazard. Can cause personal injury or equipment damage.

Prior to installing SiteLine hardware, power must be removed from the unit. This means removing power at the breaker panel serving the unit, and following proper lockout/tagout procedures at said breaker panel for the duration of the install. Power should not be reapplied until all electrical interconnections have been made and verified.

This equipment must be properly grounded. Connections and service to all equipment and hardware must be performed only by personnel knowledgeable in the operation of the equipment being controlled.



CAUTION

Static sensitive components. Can cause equipment damage.

Discharge any static electrical charge by touching the bare metal inside the control panel before performing any service work. Never unplug cables, circuit board terminal blocks, or power plugs while power is applied to the panel.



WARNING

Sharp edges on sheet metal and fasteners can cause personal injury. This equipment must be installed, operated, and serviced only by an experienced installation company and fully trained personnel.



CAUTION

To avoid damaging wires or components, verify clearance in and around the point of penetration prior to any drilling

During any drilling, ensure that resultant metal shavings are not allowed to contact unit electronics.

Subsequent to any drilling, remove all resulting metal shavings from the control enclosure.

NOTICE

For Cellular and Wi-Fi installations, do not power the M2M Gateway until the antennas have been installed and connected.

Installing SiteLine Gateway

Prior to installing any SiteLine components, power must be removed from the unit. Power must be removed at the breaker panel serving the unit, and proper lockout/tagout procedures should be followed for the duration of the install. After removing unit power at the breaker panel, the installer must verify the absence of power at the unit using a multimeter. Only if power has been verified absent, should the technician begin the install. The field install kit is shipped with the SiteLine Gateway shipped loose.

The SiteLine Gateway must be installed inside the unit control panel. The installation location will vary depending on the unit model and size of the control enclosure (see Figure 1 through Figure 5 for correct component locations on AGZ-D, AGZ-E and AWV models). On AWS models, locate SiteLine Gateway as space allows within control enclosure. Ensure adequate separation is maintained between low voltage and high voltage components and sources of high electromagnetic interference. Figure 6 and Figure 7 provide the typical layout of AWS small and large enclosures. On WMC, WSC, WDC, WCC and WME Gen 1 chillers, the gateway should be located within the unit control enclosure as space allows, ensuring that adequate separation is maintained between low voltage and high voltage components and sources of high Electromagnetic interference. Figure 8 shows a typical control panel for WMC chillers. Figure 9 shows a typical control panel for WSC, WDC, and WCC chillers. Figure 10 shows a typical control panel for WME Gen 1 chillers. For AMZ chillers, field verify component locations, ensuring adequate separation is maintained between low voltage and high voltage components and sources of high Electromagnetic interference. Figure 11 is provided for reference.

Begin by positioning the SiteLine Gateway on the backplane of the enclosure and marking the screw holes needed for the gateway's integrated mounting flange (Figure 12). Next, drill pilot holes, through the marks just created. When drilling, be careful to prevent any metal particles from entering or covering any electronic components. Remove any metal particles before proceeding with the installation. Finally, attach the SiteLine Gateway to the backplane using four of the sheet metal screws provided in the hardware packet.

Figure 1: Component Locations - AGZ D/E Small Panel

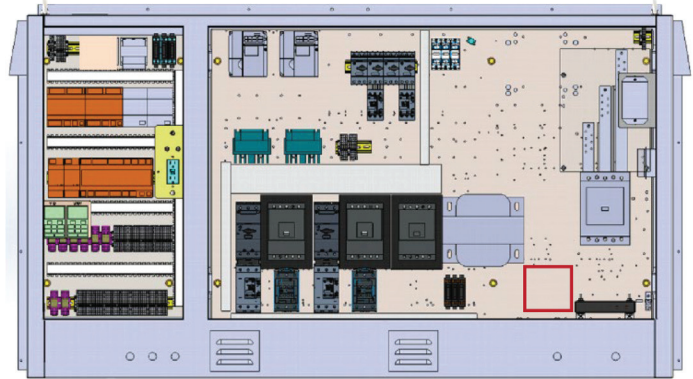


Figure 2: Component Locations – AGZ-D/E Medium Panel

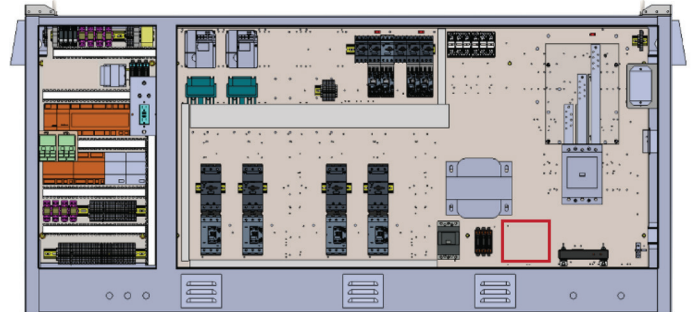


Figure 3: Component Locations – AGZ-D Large Panel

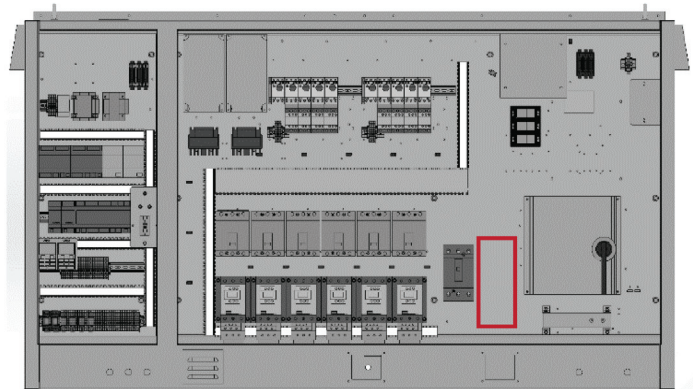


Figure 4: Component Locations – AGZ-E Large Panel

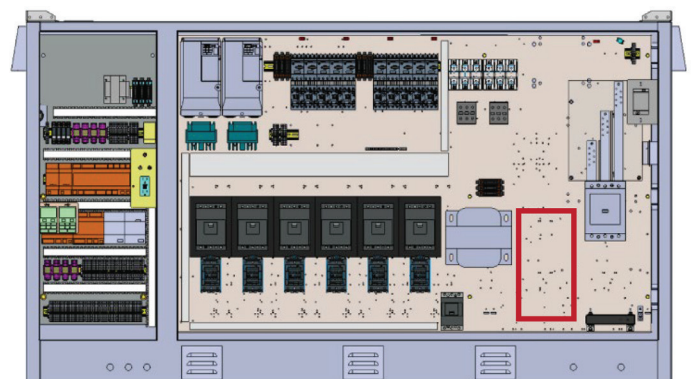


Figure 5: Component Locations – AWW Large Panel

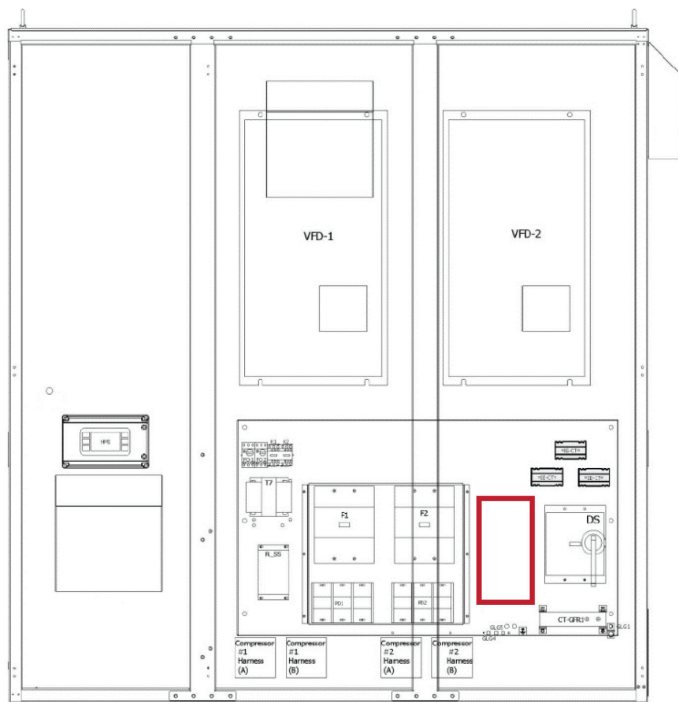


Figure 6: Component Locations – AWS Small Panel



Figure 7: Typical AWS Large Panel Layout

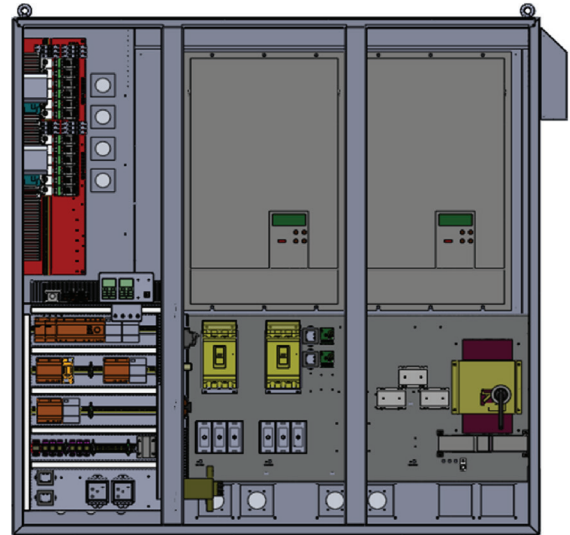


Figure 8: Typical WMC Unit Control Panel Layout

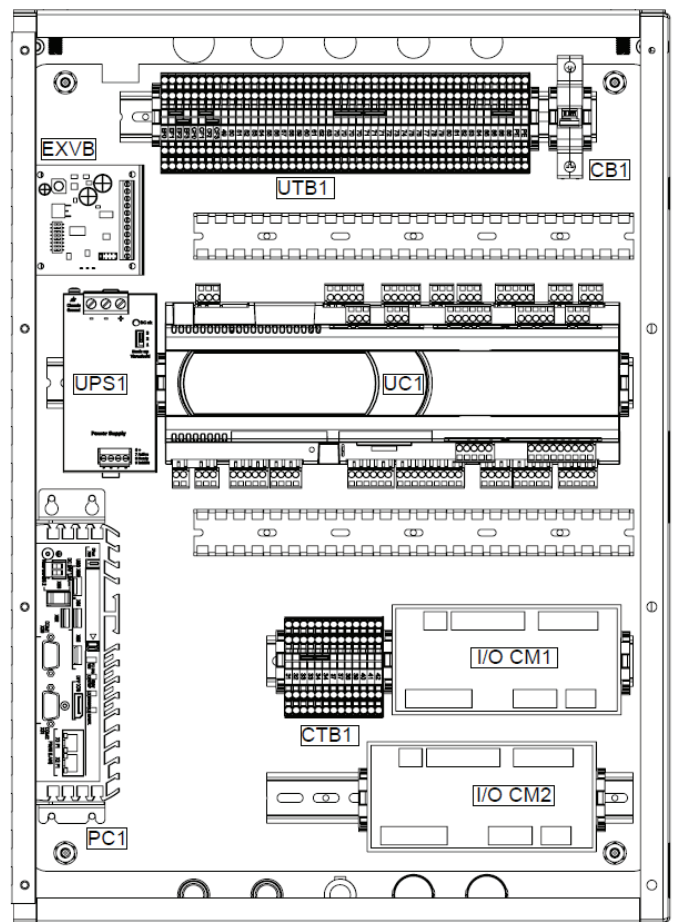


Figure 9: Typical WSC, WDC, and WCC Unit Control Panel Layout

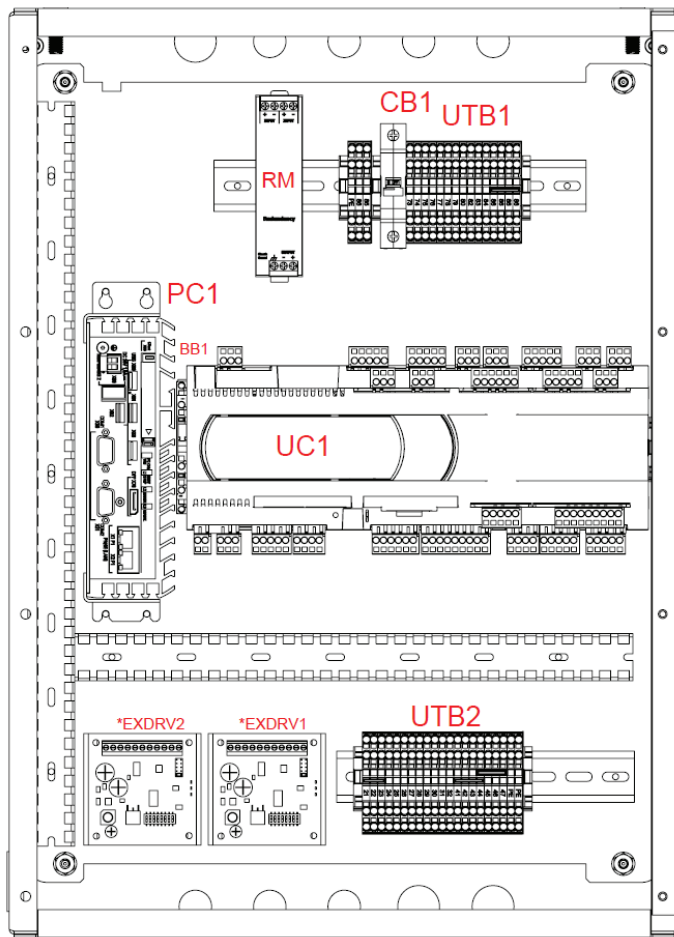


Figure 10: Typical WME Gen 1 Unit Control Panel Layout

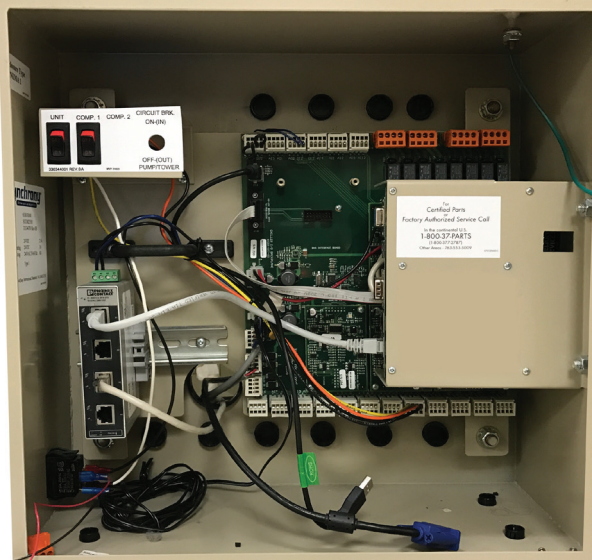


Figure 11: Typical AMZ Control Panel Layout

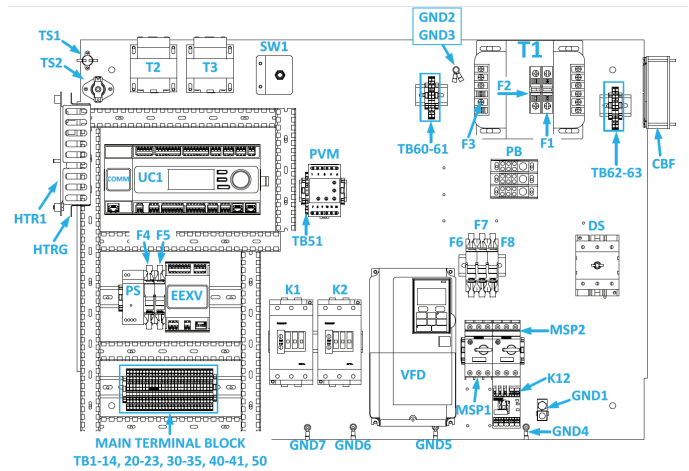


Figure 12: SiteLine Gateway with Mounting Flange



Installing Power Supply

Prior to installing any SiteLine components, power must be removed from the unit. Power must be removed at the breaker panel serving the unit, and proper lockout/tagout procedures should be followed for the duration of the install. After removing unit power at the breaker panel, the installer must verify the absence of power at the unit using a multimeter. Only if power has been verified absent, should the technician begin the install.

The retrofit kit is shipped with the power supply shipped loose. The installation location will vary depending on the unit model and size of the control enclosure (see [Figure 1](#) through [Figure 5](#) for correct component locations on AGZ and AWV models). On AWS models, locate SiteLine hardware as space allows within the control enclosure. [Figure 6](#) and [Figure 7](#) provide a typical layout of AWS small and large enclosures. On WMC, WSC, WDC, WCC and WME Gen 1 chillers, the power supply should be located within the unit control enclosure as space allows, ensuring that adequate separation is maintained between low voltage and high voltage components and sources of high Electromagnetic interference. [Figure 8](#) shows a typical control panel for WMC chillers. [Figure 9](#) shows a typical control panel for WSC, WDC, and WCC chillers. [Figure 10](#) shows a typical control panel for WME Gen 1 chillers. For AMZ chillers, field verify component locations, ensuring adequate separation is maintained between low voltage and high voltage components. [Figure 11](#) is provided for reference.

Begin by positioning the power supply ([Figure 13](#)) on the backplane of the enclosure and marking the screw holes. Next, drill pilot holes, through the marks just created. Finally, attach the power supply to the backplane using two of the sheet metal screws provided in the hardware packet.

Figure 13: Power Supply



Installing Antenna

Only the antenna cables (or Ethernet cable for LAN applications) must be routed to the outside of the control enclosure; all other terminations remain within the enclosure. A 0.875" waterproof conduit bushing is included in the hardware packet. Locate an available 0.875" knockout at the rear of the control panel, then remove it using a hammer, flat screwdriver, and pliers. Next, insert the provided 0.875" conduit bushing into the control enclosure from the outside, then install and tighten the bushing locking nut. The knockout is now prepared for routing of the antenna cables.

The antenna provided with the kit ([Figure 14](#)) is omnidirectional and has two coaxial leads. Install the antenna on top of the chiller with enough clearance from the edge to avoid accidental contact or damage and avoiding interference from structures. The antenna is held in place by its magnetic base.

Once installed, route the antenna cables through the conduit bushings into the control panel. Next, screw the conduit bushings closed to enhance waterproof protection. Finally, use the self-adhesive cable tie holders and cable ties provided in the hardware packet to secure the antenna cables to the back of the control panel.

Figure 14: Magnetic-base Antenna



Wiring

DANGER

Electric shock hazard. Can cause personal injury or equipment damage.

Prior to installing SiteLine hardware, power must be removed from the unit. This means removing power at the breaker panel serving the unit, and following proper lockout/tagout procedures at said breaker panel for the duration of the install. Power should not be reapplied until all electrical interconnections have been made and verified.

This equipment must be properly grounded. Connections and service to all equipment and hardware must be performed only by personnel knowledgeable in the operation of the equipment being controlled.

CAUTION

Static sensitive components. Can cause equipment damage.

Discharge any static electrical charge by touching the bare metal inside the control panel before performing any service work. Never unplug cables, circuit board terminal blocks, or power plugs while power is applied to the panel.

WARNING

Care must be taken to ensure a minimum of 5 inches of clearance between all cables and conductors with 300V-rated insulation or less and areas of the control enclosure containing higher voltage components and conductors.

NOTICE

In the event that 300V or lower rated cables and conductors cannot be practically isolated from 600V-rated cables and conductors, a section of 600V-rated shrink wrap tubing is included in the installation kit. This tubing can be cut-to-fit and placed over the lower voltage rated cables and conductors to increase their rating to 600V.

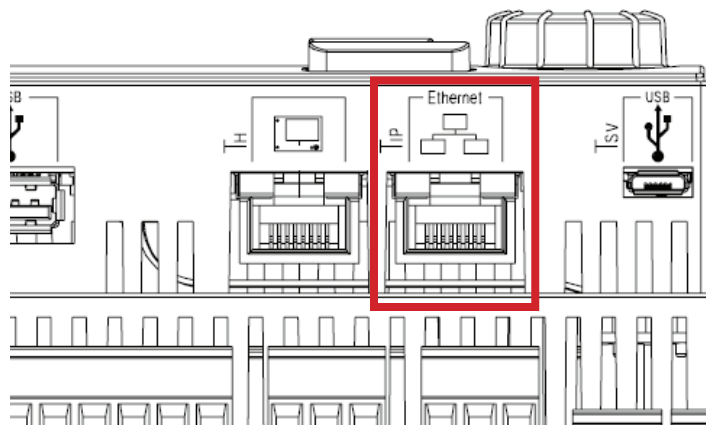
SiteLine Gateway Connection to MicroTech III or MicroTech 4 Controller

The SiteLine Gateway is connected to the MicroTech III or MicroTech 4 unit controller via Ethernet. Connect one end of the provided Ethernet patch cable to the "ETH2" port of the SiteLine Gateway (Figure 15), and the other end to the MicroTech III or MicroTech 4 Unit controller port marked, "TIP" (Figure 16).

Figure 15: SiteLine Gateway ETH2 Connection



Figure 16: TIP Port Connection (MicroTech 4 shown)



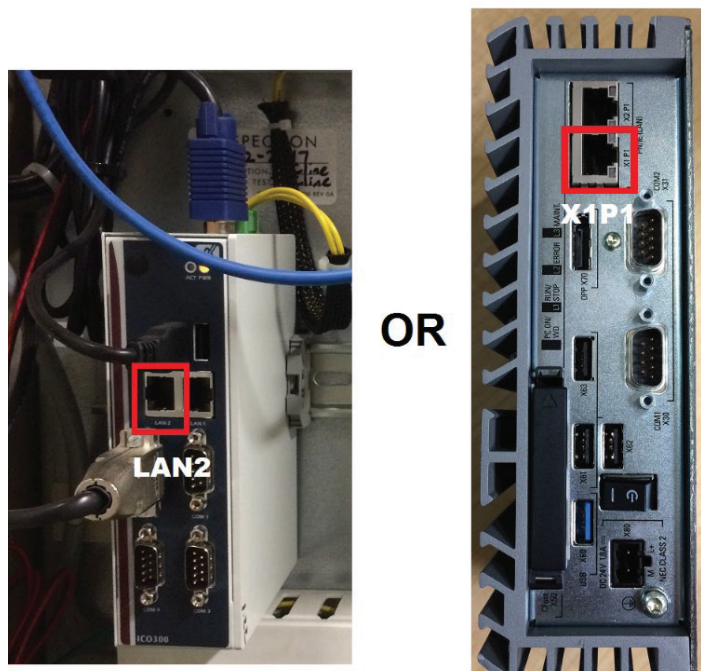
SiteLine Gateway Connection to MicroTech II Centrifugal Chiller (WMC, WSC, WCC)

The SiteLine Gateway is connected to the MicroTech II centrifugal chiller HMI PC via Ethernet. Connect one end of the provided Ethernet patch cable to the "ETH2" port of the SiteLine Gateway (Figure 15), and the other end to the HMI PC port marked "LAN2" or "X1P1" depending on HMI hardware (Figure 17).

NOTICE

MicroTech II Chiller models WCC, WDCMC, and WSC must have the latest version of HMI touchscreen hardware, which uses either an Axiomtek or a Siemens touchscreen PC. Update kits are available through Daikin Applied Service offices.

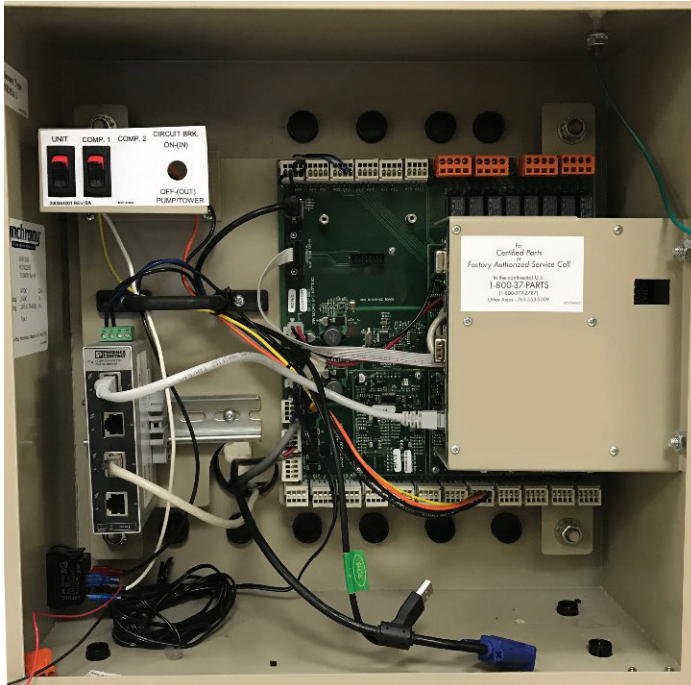
Figure 17: Connection to MicroTech II HMI PC



SiteLine Gateway Connection to Connection to WME Gen 1 Chiller

The SiteLine Gateway is connected to the WME Gen 1 chiller HMI PC via Ethernet. Connect one end of the provided Ethernet patch cable to the “ETH2” port of the SiteLine Gateway (Figure 15), and the other end to any open port on the Ethernet switch located in the control enclosure (Figure 18).

Figure 18: Connection to WME Gen 1 Chiller



Connection of Power Supply

NOTICE

Field verify all connections with equipment as-built drawings.

The Gateway uses a 120 VAC to 12 VDC power supply. Retrieve the DC Terminal Block Adapter provided with the SiteLine Gateway. Connect the Red (V+) wire from the power supply to the “+” (plus) terminal of the provided DC Terminal Block Adapter and tighten, then connect the Black (V-) wire from the power supply to the “-” (minus) terminal of the DC Terminal Block Adapter and tighten. Once both connections are secure, insert the DC Terminal Block Adapter into the “DC IN” port on the SiteLine Gateway, then turn it 1/4 turn clockwise to lock the adapter in place (Figure 19).

Figure 19: SiteLine Gateway DC Terminal Block Adapter



The 120VAC power supply cable has the jacket and insulation pre-stripped, with the ends of both the Line and Neutral wires tinned. On an AGZ-D or AGZ-E chiller, connect the Line (brown) conductor to terminal TB1-12 and the Neutral (blue) conductor to terminal TB1-33 (Figure 20). On an AWV or AWS chiller, connect the Line (brown) conductor to terminal MQ-11 and the Neutral (blue) conductor to terminal MQ-17 (Figure 21).

On a WMC chiller, connect the Line (brown) conductor to terminal L1-30 and the Neutral (blue) conductor to terminal L2-29 (Figure 22). On WCC, WDC, and WSC chillers, connect the Line (brown) conductor to 120VAC terminal L3 in the compressor cabinet and the Neutral (blue) conductor to 120VAC terminal L2 the compressor cabinet (Figure 23). Field verify terminations on unit as-built drawing. On WME Gen 1 chillers, connect the Line (brown) conductor to terminal 106 of the auxiliary terminal strip and the Neutral (blue) conductor to terminal N of the auxiliary terminal strip (Figure 24). Field verify terminations on unit as-built drawing. On an AMZ chiller, connect the Line (brown) conductor to terminal TBH-7 and the Neutral (blue) conductor to terminal TB120N-60 (Figure 25).

Figure 20: AGZ-D and AGZ-E 120VAC Wiring

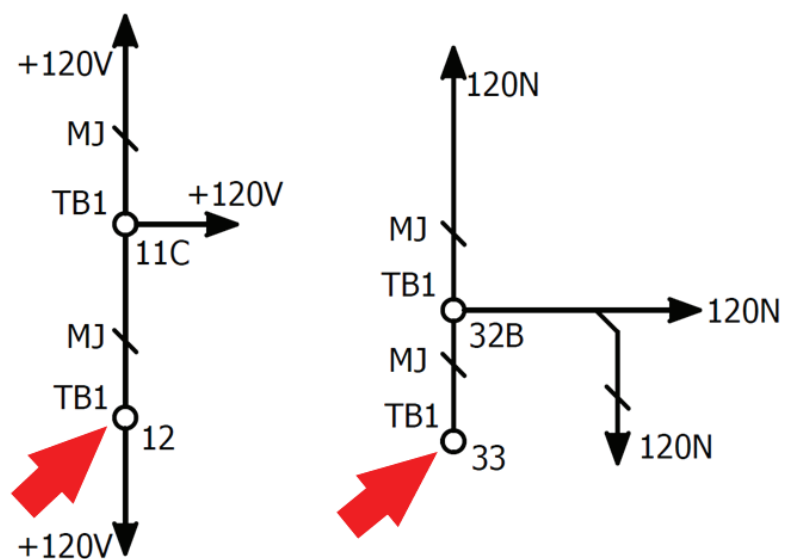


Figure 21: AWV and AWS 120VAC Wiring

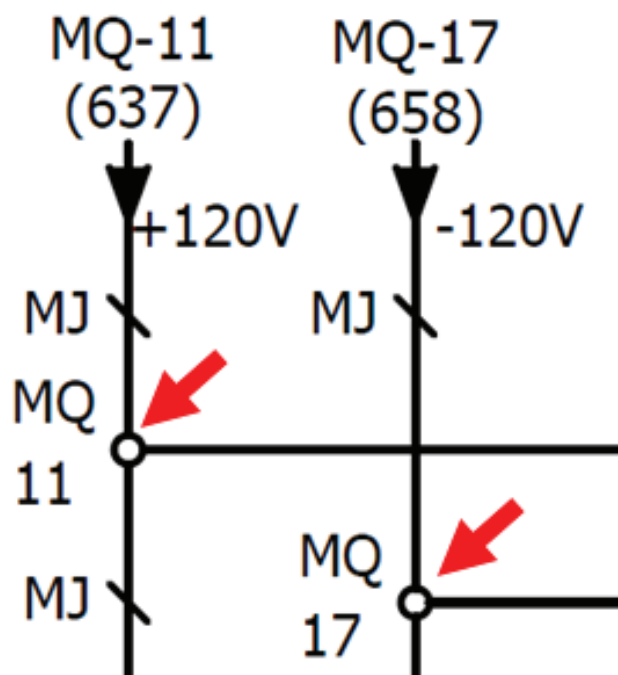


Figure 22: WMC 120VAC Wiring

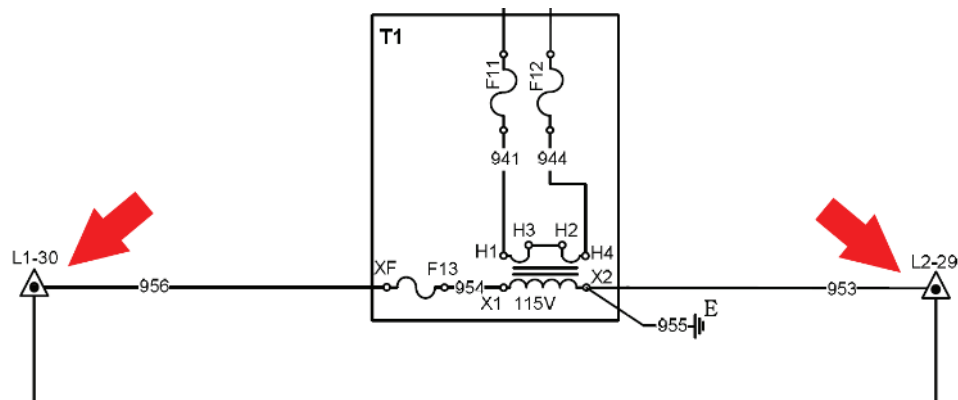


Figure 23: WSC, WDC, and WCC 120VAC Wiring

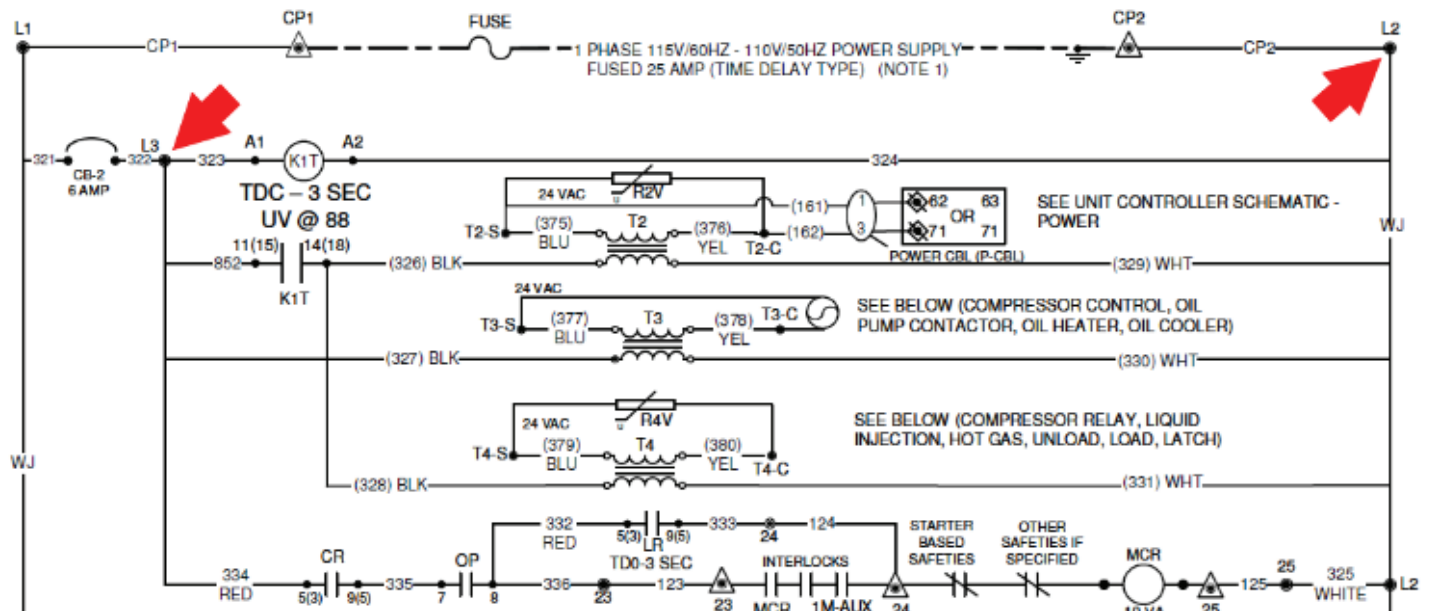


Figure 24: WME Gen 1 120VAC Wiring

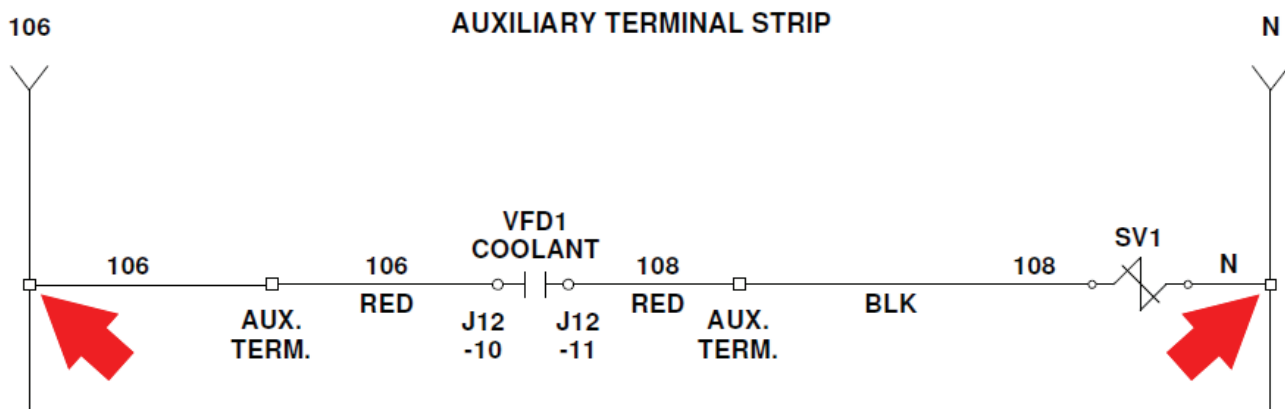
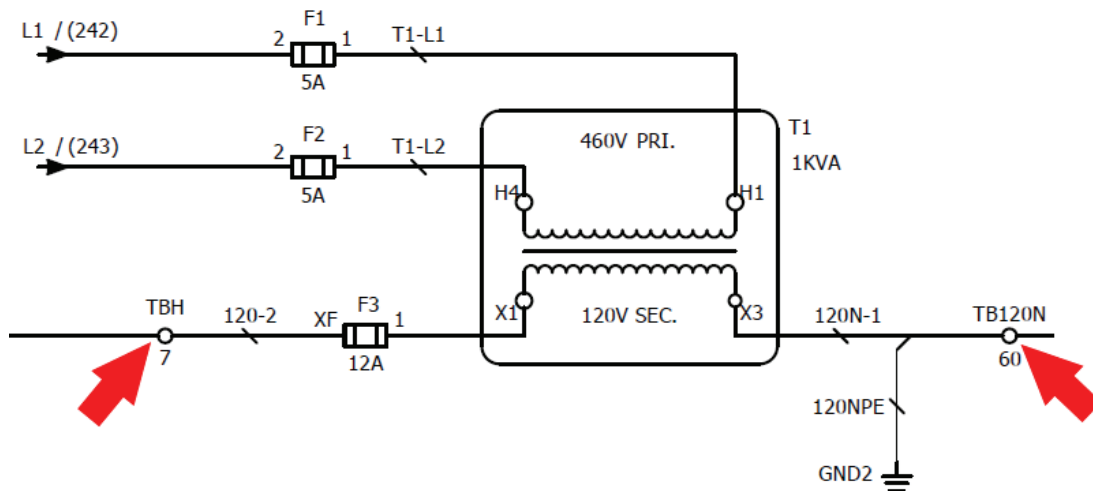


Figure 25: AMZ 120VAC Wiring



SiteLine Gateway Connection to Antennas

As described previously, the antenna cables must be fed from the outside of the unit through the control enclosure to the SiteLine Gateway. Screw the SMA coaxial connector marked “LTE-1” to the “WWAN” connection on the SiteLine Gateway, then screw the SMA coaxial connector marked “LTE-2” to the “AUX” connection on the SiteLine Gateway (Figure 26).

NOTICE

The coaxial cables are interchangeable.

Figure 26: SiteLine Gateway WWAN and AUX Connections



SiteLine Gateway Connection to Local Area Network (If Applicable)

If the method of cloud connectivity is Ethernet LAN, connect the Ethernet patch cable from the LAN network (by others) to the “ETH1” port of the SiteLine Gateway (Figure 27). For instruction on configuring the gateway for Ethernet LAN, see document section titled, “SiteLine Gateway Ethernet LAN Configuration.”

NOTICE

The SiteLine Gateway will not communicate with the cloud if the Ethernet cable is connected to the incorrect port on the gateway.

Figure 27: SiteLine Gateway ETH1 Connection



Configuring the MicroTech II HMI

For the MicroTech II chiller models WMC, WSC, WDC, or WCC to exchange data with the SiteLine Gateway, the API (Application Programming Interface) Server on the HMI (Human-Machine Interface) must be enabled. To enable the API Server:

1. Press the “Operator” icon (Figure 28) in the lower-right corner of the HMI.
2. Press the “API Server Enable” field.
3. When prompted, enter the Technician-level password using the numeric keypad that appears on the HMI. Once the password is entered, press the ‘Enter’ button.
4. Pressing the “API Server Enable” field again will open a drop-down menu. Select, “Enable,” from the list, then press the “Enter” button to confirm the selection.
5. The “API Server Enable” field on the HMI should now indicate, “Enabled” (Figure 29). Procedure complete.

Figure 28: The 'Operator' Icon



Figure 29: The 'API Server Enable' Field on the HMI

DAIKIN Unit Status: Cool Auto - Remote Switch Compressor 1 Status: Off: Evap Flow/Re-circulate Compressor 2 Status: Off: Evap Flow/Re-circulate		Leaving Water: 79.3 °F Water Setpoint: 45.6 °F Date & Time: November 30, 2018 10:54:50 AM	Chiller Control: Auto Switches
---	--	---	-----------------------------------

Set Password Level

Set a different password level.

Password Level Required: None

Language ☒ English ☐ Español (Spanish) ☐ 日本語 (Japanese) ☐ 繁體中文 (Chinese-Traditional) ☐ Français (French)	Display Units ☒ Imperial Units (°F, PSI) ☐ SI Units (°C, kPa)	Password Level Current Password Level: Technician Password Timer: 14394 sec Set Password Level: Set Clear Password Level: Clear
Documents Display Document Load Copy Document Copy Upload Documents Upload		Display Display Timeout: 10 Minutes API Server API Server Enable: Enabled

Calibrate Touch Screen

Calibrate

Home

Evaporator

Compressor

Condenser

Expansion

Tower

Settings

Trend

Alarm

Operator

Field-Installed SiteLine Modem on Chillers

As described previously, the SiteLine Modem is used to provide the cloud connection on the WME-C chiller model. This model has an embedded Software Gateway that provides data transfer functionality. The following sections describe the process of installing and configuring the SiteLine Modem. Figure 30 provides an image of the modem kit contents.

NOTICE

Prior to starting the installation and configuration for cloud connection, verify the chiller can run in normal operation mode (no alarms, etc.).

Figure 30: SiteLine Modem Kit Contents



Verify Cellular Signal

1. Connect the two supplied fixed cellular antennas to locations A and B on the modem and connect the provided Wi-Fi antenna to location E on the modem (Figure 31).

NOTICE

The antennas are not all the same, the Wi-Fi antenna is different from the fixed cellular antennas and needs to be attached to the Wi-Fi port (E). The two fixed cellular antennas will be labeled with the "4G" logo (the Wi-Fi antenna will have no designation) and should be connected to ports A and B.

2. Temporarily connect the provided plug-in power supply to location D on the modem (this will later be replaced with direct wiring to a power source within the control panel).

3. Verify the modem's Cellular LED is solid orange and the Signal LED is yellow or green (Figure 32). NOTE: The modem may take 2-3 min to connect.
 - a. If the modem's Cellular LED is solid orange and the Signal LED is yellow or green, continue to the "Mount/Install SiteLine Modem" section of this document.
 - b. If the modem's Cellular LED is not solid orange or the Signal LED is red, move the modem to another location within the building with adequate cellular coverage and use the included plug-in power supply to power the modem from a building outlet.

NOTICE

In this case, a longer, field-supplied Ethernet Cat5e or Cat6 patch cable will be necessary to connect the SiteLine Modem to the chiller PC. The maximum allowed length of a Cat5e/Cat6 cable is 100 meters (328 ft).

Figure 31: SiteLine Modem Connections



Figure 32: Modem's LEDs

Cellular



Signal

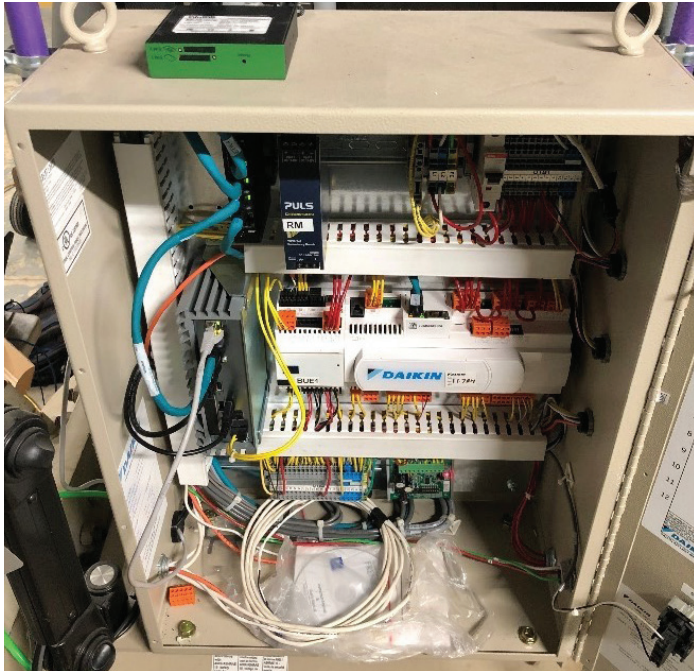


RED - Signal values 0~10
YELLOW - Signal values 11~20
GREEN - Signal values 21~30

Mount/Install SiteLine Modem

For chiller model WME-C, the modem can be mounted on top of the unit control panel using the provided hook-and-loop mounting squares to secure it in place (Figure 33).

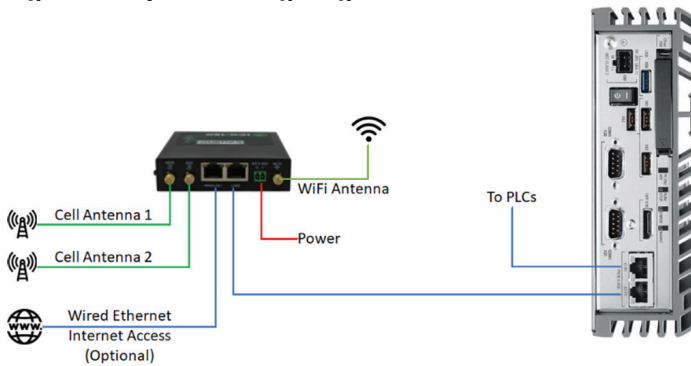
Figure 33: Modem Mounting



Wire SiteLine Modem

Figure 34 provides a preview of the complete system wiring diagram:

Figure 34: System Wiring Diagram



1. Disconnect the plug-in power supply that was used during initial setup.
2. Route both the provided power cable and Ethernet patch cable into the chiller control panel through an available knockout.
3. Connect the provided power cable to available 24VDC on terminal strip CTB1 (Figure 35) in the chiller control panel.

NOTICE

The +24VDC conductor has red shrink-wrap

NOTICE

Field verify all connections with equipment as-built drawings.

4. Connect the Chiller PC X2P1 Ethernet port (Figure 35) to modem's LAN2 port using the provided Ethernet cable.

Figure 35: WME-C Terminal Strip CTB1

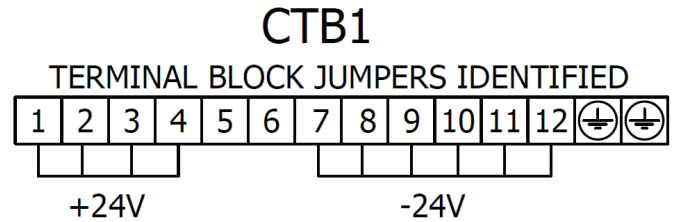


Figure 36: WME-C X2P1 Ethernet port



5. Optional: If the customer is using a LAN Ethernet network for cloud connectivity, connect the field-provided patch cable to WLAN/LAN1 port on the SiteLine Modem
 - a. The modem must be configured for Ethernet in a later step (see Ethernet Configuration section).

Configure SiteLine Modem and Confirm Operation

Before continuing the install, verify again that the modem's Cellular LED is (solid orange) and the Signal LED is yellow or green (indicating adequate cell connection).

1. Connect a smartphone or laptop (Figure 37) to the modem WiFi signal, using the SSID (WiFi Name) and password (WiFi PW) information located on the label on the bottom of the modem (Figure 38).

NOTICE

Smartphones typically have the option to disable auto-connect for individual WiFi networks. It is recommended to disable the auto-connect feature for the SiteLine Modem's WiFi network on the smartphone. Because SiteLine Modem will not provide the phone access to the internet, it is not necessary to automatically connect under normal circumstances. Additionally, when servicing multiple chillers in the same vicinity, if auto-connect is not disabled, the phone could connect to the incorrect SiteLine Modem.

Figure 37: Laptop Connection to SiteLine Modem

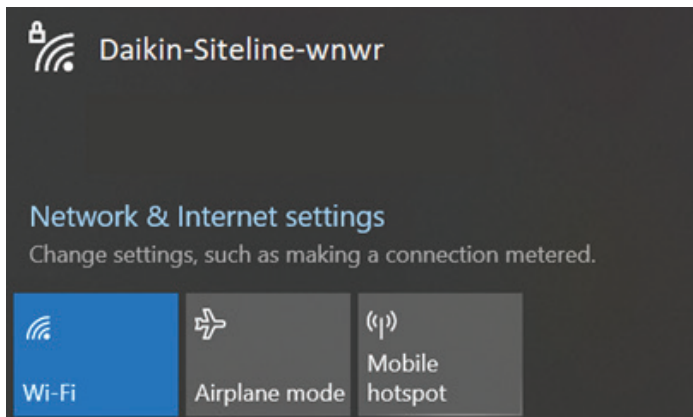


Figure 38: SiteLine Modem Bottom Label



2. Access the modem configuration page by using a smartphone to scan the QR code on top of modem (Figure 39), which will load a standalone webpage that reads, "OK". From there, navigate to "10.10.1.1/index.jsp" in the browser.

Figure 39: Modem Top Label



3. Alternatively, enter "10.10.1.1/index.jsp" into the browser on a smartphone or laptop, then enter the password shown on bottom label as "Admin PW" (username is "admin").
4. Verify connectivity and signal strength by accessing the "Status/Modem" menu and record the modem status and signal level, if desired

NOTICE

It may be necessary to scroll to the right and/or minimize the "help" screen to see the "Status" menu (especially when using a mobile device).

5. Verify connectivity to the Chiller PC by navigating to the "Status/Device List" and looking for a device on the modem network with an address of 10.10.1.1. Record modem information, if desired. SiteLine Parameters
6. Next, look at the Chiller HMI and confirm SiteLine parameters on the Interface screen of the Settings tab (Figure 40). If the configuration has been successful:
 - a. Internet Connection should = "Yes"
 - b. Cloud Capable should = "Yes"
 - c. Software Gateway should = "Running"
 - d. Cloud Connection should = "Enabled".

NOTICE

Depending on strength of cellular signal, It can take up to 30 minutes for the above Chiller HMI parameter statuses to update while the HMI updates its Software Gateway application. If, after 30 minutes, the parameters still are not reading as expected, cycle power to the entire control panel, then wait for the update to complete. If the statuses are not reading as expected after the additional 30 minutes, or if the SiteLine parameters are not present on the HMI, contact the Daikin Applied Controls Support Group at CTLTechSupport@daikinapplied.com or (800) 432-1342.

7. Enter the Chiller Serial Number in the Setup section

(Settings tab) of the Interface screen (Figure 41)

Figure 40: SiteLine Parameters on HMI

SiteLine	
PC Serial Number	N6950111
Device ID	N6950111
Internet Connection	yes
Cloud Capable	yes
Software Gateway	running
Cloud Connection	enabled

Figure 41: Chiller Serial Number

Set-up	
Chiller Serial	ABCD-1
Display Cursor	Disabled
Floating Data Descriptions	Abbreviated
X2P1 port IP	10.10.1.11

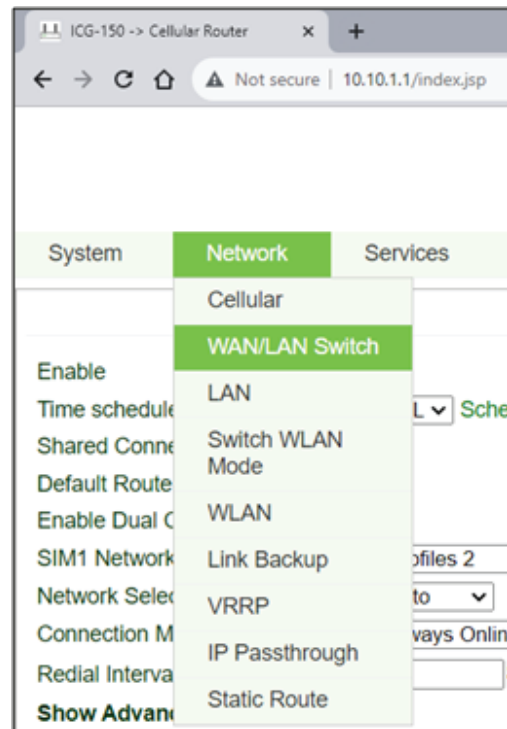
- This completes configuration of the SiteLine Modem and Chiller HMI for cellular applications.

Ethernet Configuration

If an optional, customer-provided Ethernet connection will be used for cloud connectivity, the modem must be configured for the customer's network. For Ethernet, modem port WAN/LAN1 is used. This port is preconfigured to use Dynamic Host Configuration Protocol (DHCP) to obtain its IP address. Thus, if the customer's network uses DHCP, no further configuration of the modem is necessary. Simply connect modem port WAN/LAN1 to the customer's network switch using a field-supplied Ethernet patch cable. For applications not using DHCP, configure the modem per the following instructions:

- Access the modem configuration page by using a smartphone to scan the QR code on top of the modem, which will load a standalone webpage that reads, "OK"; from there, navigate to "10.10.1.1/index.jsp" in the browser. Alternatively, enter "10.10.1.1" into the browser on a smartphone or laptop, then enter the password shown on bottom label as "Admin PW" (username is "admin").
- On the web configuration page, hover over "Network" and select WAN/LAN Switch (Figure 42).

Figure 42: WAN/LAN Switch Selected



- Change the Interface Mode dropdown from WAN to LAN, then click "Apply" (Figure 43).

NOTICE

After the changes are saved, the modem services will restart

- Click the "Settings" button, then change the Type dropdown from Dynamic Address (DHCP) to Static IP (Figure 44).

Figure 43: Interface Mode Selection

The screenshot shows the 'Cellular Router' configuration page. The 'Network' tab is selected. The 'WAN/LAN Switch' section is active. The 'Interface Mode' dropdown is set to 'WAN'. The 'Type' dropdown is set to 'LAN'. The 'Shared Connection(NAT)' checkbox is checked. The 'Default Route' checkbox is checked. The 'MAC Address' is 00:18:05:24:46:34. The 'MTU' is 1500. There are 'Apply' and 'Cancel' buttons at the bottom.

Figure 44: Static IP Selected

Type	Static IP ▼	
MAC Address	00:18:05:24:3D:4E	Default
IP Address	10.10.1.1	
Netmask	255.255.255.0	
MTU	Default ▼	1500
LAN Mode	Auto Negotiation ▼	

- Next, enter the customer-supplied IP Address and Netmask in their respective fields. Click the “Apply” button to complete the configuration
- Once, the modem services are restarted, close the browser, then connect modem port WAN/LAN1 to the customer’s network switch using a field-supplied Ethernet patch cable
- Configuration complete

Field-Installed SiteLine Gateway on AAH

Installing SiteLine Gateway and Power Supply

Prior to installing the SiteLine Gateway, power must be removed from the unit. Power must be removed at the breaker panel serving the unit, and proper lockout/tagout procedures should be followed for the duration of the install. After removing unit power at the breaker panel, the installer must verify the absence of power at the unit using a multimeter. Only if power has been verified absent, should the technician begin the install. The retrofit kit is shipped with the SiteLine Gateway and power supply pre-installed on mounting bracket. In a retrofit scenario, this bracket must be installed inside the unit control panel.

For DPS and MPS units, the brackets are designed for installation inside of the main unit control panel, mounted to the top of the unit controller section (see [Figure 45](#) and [Figure 46](#) for preferred locations) using the provided sheet metal screws. In some enclosure configurations, particularly with early DPS and MPS units, the control enclosure layout and dimensions may not allow for the desired mounting locations. In these situations, the installer should use discretion in determining suitable replacement locations within the control enclosure, paying special attention to the following limitations:

- When routing wiring through the control enclosure, care must be taken to maintain a minimum of 5 inches of clearance between all cables and conductors with 300V-rated insulation or less and areas of the control enclosure containing higher voltage components and conductors, such as 575V.

- Avoid routing communication cables (Cat 5e, USB, etc.) near sources of line voltage.

For DPSA (Rebel Applied) units, the gateway bracket is designed for installation on the left side of the Main Control Panel ([Figure 47](#)).

For RPS, RPR, RDT, RFS, RDS and RAH (Roofpak) units, the SiteLine Gateway bracket is designed for installation on the inside of field-installed, door panels supplied with the retrofit kit. The SiteLine Gateway bracket is installed on the left door panel ([Figure 48](#)). Care must be taken to ensure that the mounting bracket is not installed in such a way as to interfere with closing of the control panel door, or to cover any panel knockouts. It may be useful to mark the screw holes of the bracket, and drill small pilot holes, before screwing the brackets firmly to the top of the control enclosure.

On SWP and SWT retrofits, the installer should field verify available space within the control enclosure for mounting required hardware. Ensure adequate separation is maintained between low voltage and high voltage components and sources of high Electromagnetic interference. [Figure 49](#) and [Figure 50](#) provide sample control panel configurations for SWP and SWT units. Components, component layout, and component quantity may vary depending upon unit size, voltage, and options selected.

Figure 45: MPS Bracket Mounting Locations

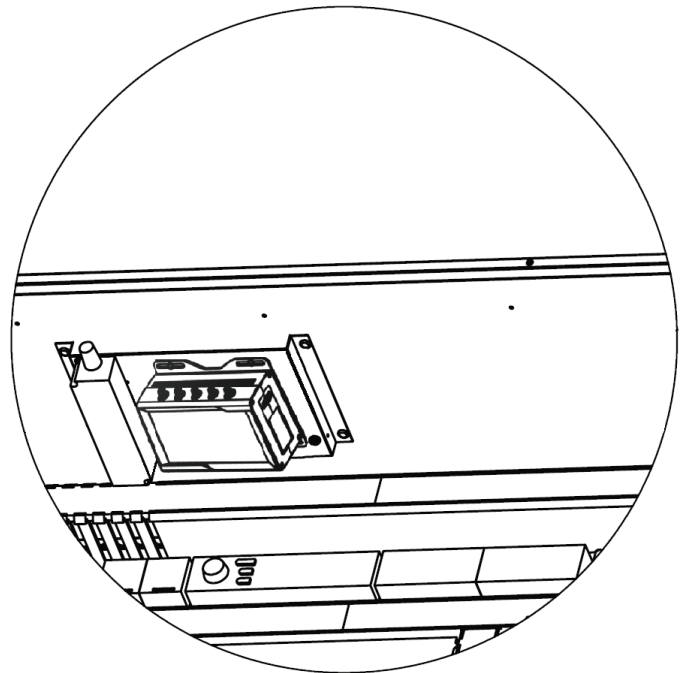


Figure 46: MPS Bracket Mounting Location

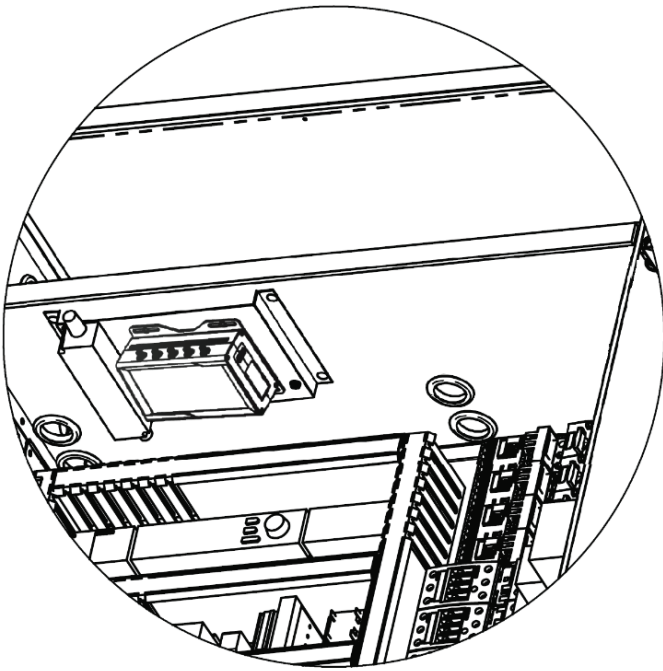


Figure 47: DPSA Mounting Location

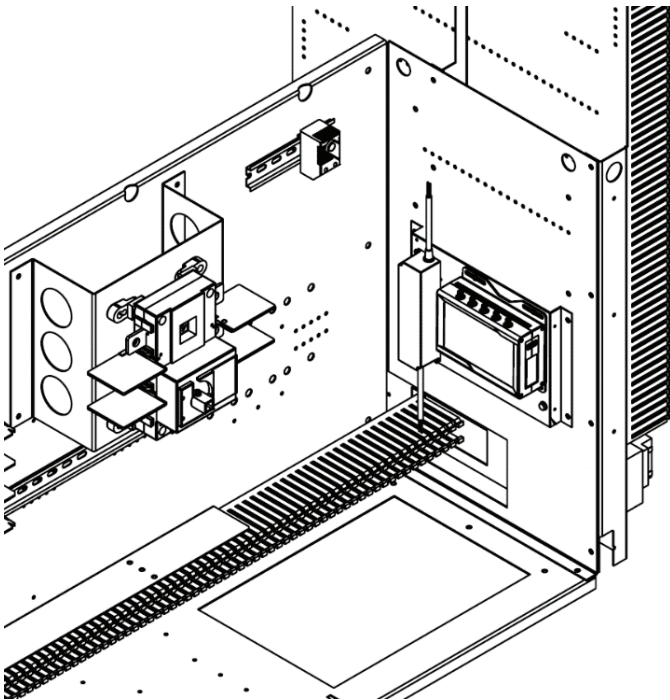


Figure 48: Roofpak Mounting Location

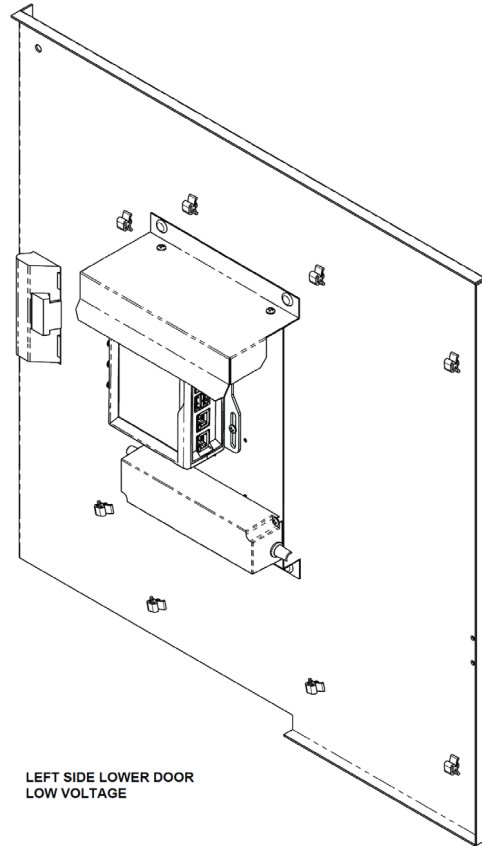


Figure 49: SWP Control Enclosure Example (460V, 6-Compressor Unit)

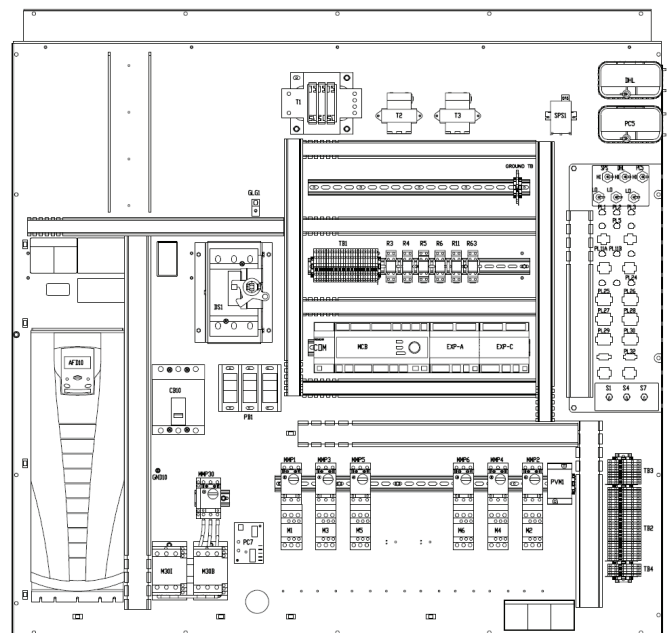
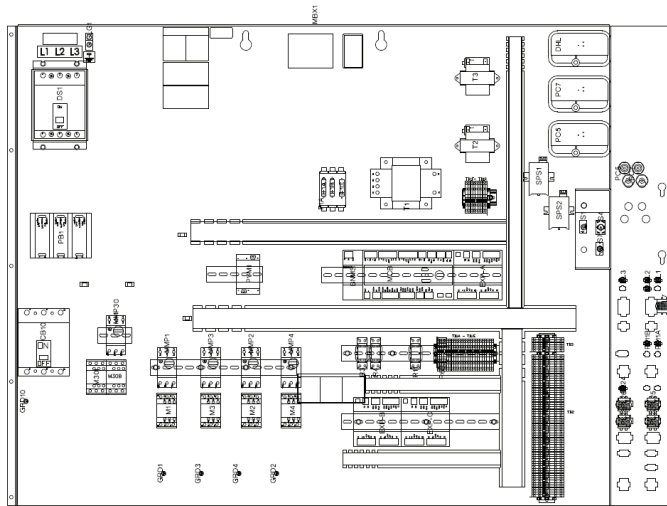


Figure 50: SWT Control Enclosure Example (460V, 6-Compressor Unit)



Wire Routing

DANGER

Electric shock hazard. Can cause personal injury or equipment damage.

Prior to installing SiteLine hardware, power must be removed from the unit. This means removing power at the breaker panel serving the unit, and following proper lockout/tagout procedures at said breaker panel for the duration of the install. Power should not be reappplied until all electrical interconnections have been made and verified.

This equipment must be properly grounded. Connections and service to all of the equipment and hardware must be performed only by personnel knowledgeable in the operation of the equipment being controlled.

WARNING

Care must be taken to ensure a minimum of 5 inches of clearance between all cables and conductors with 300V-rated insulation or less and areas of the control enclosure containing higher voltage components and conductors.

NOTICE

In the event that 300V or lower rated cables and conductors cannot be practically isolated from 600V-rated cables and conductors, a section of 600V-rated shrink wrap tubing is included in the installation kit. This tubing can be cut-to-fit and placed over the lower voltage rated cables and conductors to increase their rating to 600V.

When routing wiring through the control enclosure, care must be taken to maintain a minimum of 5 inches of clearance between all cables and conductors with 300V-rated insulation or less and areas of the control enclosure containing higher voltage components and conductors, such as 575V. In all retrofit situations, the installer should use discretion in determining suitable routing within the control enclosure, to ensure the required 5-inch clearance between all cables and conductors with 300V-rated insulation or less and areas of the control enclosure containing higher voltage components and conductors. If 300V or lower rated cables and conductors cannot be practically isolated

from 600V-rated cables and conductors, a section of 600V-rated shrink wrap tubing is included in the installation kit. This tubing can be cut-to-fit and placed over the lower voltage rated cables and conductors to increase their rating to 600V.

Only the antenna cables or Ethernet cable must be routed from the outside of the control enclosure. All other terminations remain within the control enclosure. To limit the risk of moisture damage, the required external penetration should be made in the lower part of the left stile of the control enclosure for DPS units, and the right side for MPS units (Figure 51), or out the condenser box section of RoofPak units (Figure 52). For DPSA (Rebel Applied) installations, the Ethernet cable will be routed into the Low Voltage Panel, directly behind the Gateway mounting location. The power and antenna cables will be routed to the left side of the Main Control Panel (Figure 53). For SWP and SWT units, the installer should field-verify an appropriate location for cables to exit the control enclosure.

The retrofit kit includes a patch plate containing two watertight conduit bushings pre-installed (Figure 54). It also includes two snap-in bushings (Figure 55). There are two options for using the patch plate. Ethernet installations will use a single bushing, so only a single penetration will be made through the control enclosure. The second bushing can be removed from the patch plate. For cellular installations, both bushings are used, and two penetrations will be required. Alternatively, the bushings can be removed from the patch plate entirely and installed directly into the sheet metal of the control enclosure. Regardless of which method is used, it is important that silicone sealant be used to seal all penetrations. If two antennas are used, it is recommended to remove the bushings and use the patch plate as a template for marking the two penetrations prior to drilling. When setting the patch plate as a template, use a carpenter square and level to ensure that the patch plate is aligned squarely with the unit control enclosure. On the outside of the unit enclosure, drill a 7/8" hole using a step drill bit, centered from right to left, no more than 6" from the bottom of the stile. Drill no deeper than necessary to ensure the 7/8" hole is created. After doing this, a smaller diameter hole should be present on the inside of the enclosure. Again, using the step drill bit, drill this hole on the inside of the enclosure to a 5/8" diameter. Drill no deeper than necessary to ensure the 5/8" hole is created. Install the provided 5/8" bushing on the inside of the enclosure within the newly drilled hole. The bushing should snap into place on the sheet metal. Install the patch plate on the outside of the enclosure, using the self-tapping sheet metal screws included in the hardware kit. Prior to installation, remove the protective plastic from the patch plate. Apply a bead of silicone sealant around the perimeter of the back side of the patch plate, ensuring that all potential points of moisture entry are covered. Once the plate is located as desired, press the watertight conduit bushing(s) into the 7/8" hole created previously. Again, use a carpenter square and level to ensure that the patch plate is aligned squarely with the unit control enclosure. The bushing(s) should snap into place on the sheet metal. Using the drill and nut driver, screw the patch plate in place using the four pre-drilled mounting holes (Figure 56).

The antenna provided with the kit (Figure 57) is omnidirectional and has two coaxial leads. Install the antenna on top of the

unit with enough clearance from the edge to avoid accidental contact or damage and avoiding interference from structures. The antenna is held in place by its magnetic base. Once installed, route the antenna cables through the conduit bushings into the control panel. Next, screw the conduit bushings closed to enhance waterproof protection. Finally, use the self-adhesive cable tie holders and cable ties provided in the hardware packet to secure the antenna cables to the back of the control panel

Figure 51: Recommended Location for DPS and MPS Control Enclosure Penetration

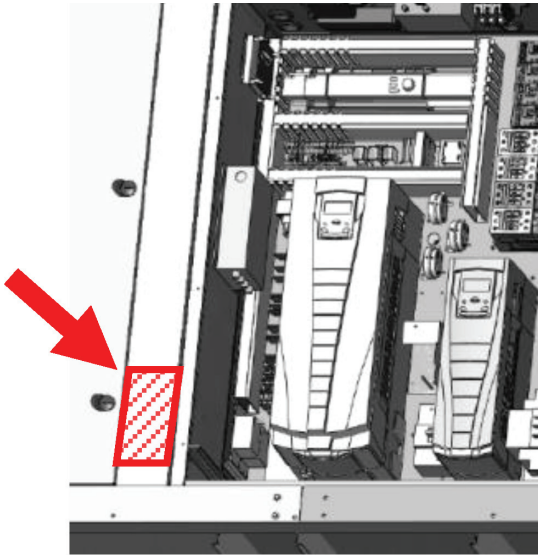


Figure 52: Recommended Location for RoofPak Control Enclosure Penetration



Figure 53: Rebel Applied Cabinet Knockouts



Figure 54: Patch Plate with One Grommet Removed

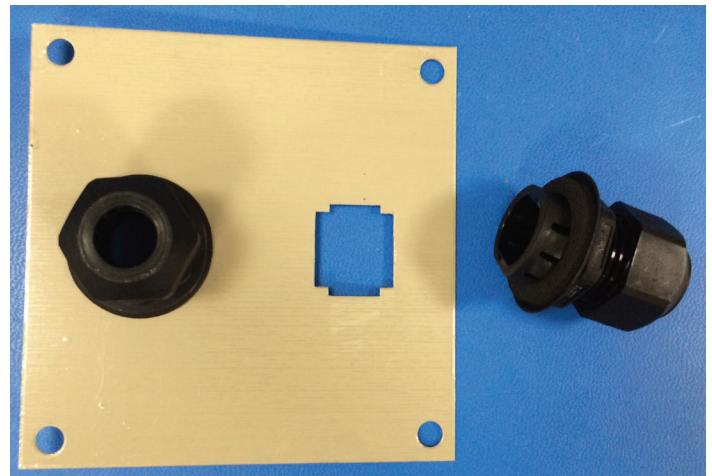


Figure 55: 5/8" Bushing for Installation Inside Control Enclosure



Figure 56: Patch Plate Installed

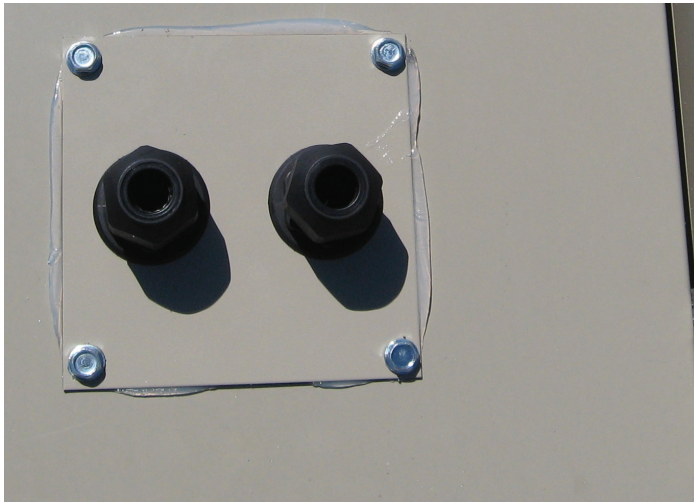


Figure 57: Magnetic-base Antenna



Wiring

DANGER

Electric shock hazard. Can cause personal injury or equipment damage.

Prior to installing SiteLine hardware, power must be removed from the unit. This means removing power at the breaker panel serving the unit, and following proper lockout/tagout procedures at said breaker panel for the duration of the install. Power should not be reapplied until all electrical interconnections have been made and verified.

This equipment must be properly grounded. Connections and service to all of the equipment and hardware must be performed only by personnel knowledgeable in the operation of the equipment being controlled.

CAUTION

Static sensitive components. Can cause equipment damage.

Discharge any static electrical charge by touching the bare metal inside the control panel before performing any service work. Never unplug cables, circuit board terminal blocks, or power plugs while power is applied to the panel.

SiteLine Gateway Connection to MicroTech III or MicroTech 4 Controller

The SiteLine Gateway is connected to the MicroTech III or MicroTech 4 unit controller via Ethernet. Connect one end of the provided Ethernet patch cable to the “ETH2” port of the SiteLine Gateway (Figure 58), and the other end to the MicroTech III or MicroTech 4 Unit controller port marked, “TIP” (Figure 59).

Figure 58: SiteLine Gateway ETH2 Connection



Figure 59: Tip Port Connection (MicroTech 4 shown)



Connection of Power Supply

NOTICE

Field verify all connections with equipment as-built drawings.

The Gateway uses a 120 VAC to 12 VDC power supply. Retrieve the DC Terminal Block Adapter provided with the SiteLine Gateway. Connect the Red (V+) wire from the power supply to the “+” (plus) terminal of the provided DC Terminal Block Adapter and tighten, then connect the Black (V-) wire from the power supply to the “-” (minus) terminal of the DC Terminal Block Adapter and tighten. Once both connections are secure, insert the DC Terminal Block Adapter into the “DC IN” port on the SiteLine Gateway, then turn it 1/4 turn clockwise to lock the adapter in place (Figure 60).

The 120VAC power supply cable has the jacket and insulation pre-stripped, with the ends of both the Line and Neutral wires tinned.

On Rebel A and B units, connect the Line (brown) conductor to terminal TB1-1 and the Neutral (blue) conductor to terminal TB1-3 (Figure 61). On Rebel C units, connect the Line to TB3 300 and the Neutral to TB3 303. On a Maverick II unit, connect the Line (brown) conductor to terminal TB1A-1, 2, 3, or 4 and the Neutral (blue) conductor to terminal TB1A-5, 6, 7, 8, or 9 (Figure 62). On a DPSA (Rebel Applied) unit, connect the Line (brown) conductor to terminal TBHV-120V and the Neutral (blue) conductor to terminal TBHV-N120 (Figure 63). On a Roofpak unit, connect the Line (brown) conductor to terminal TB1A-1, 2, 3, or 4, and the

Neutral (blue) conductor to terminal TB1A-5, 6, 7, 8, or 9 (Figure 64). On a SWP or SWT unit, connect the Line (brown) conductor to terminal TB1A-1, 2, 3, or 4, and the Neutral (blue) conductor to terminal TB1A-5, 6, 7, or 8 (Figure 65).

Figure 60: SiteLine Gateway DC Terminal Block Adapter



Figure 61: Typical Rebel A and B 120VAC Wiring

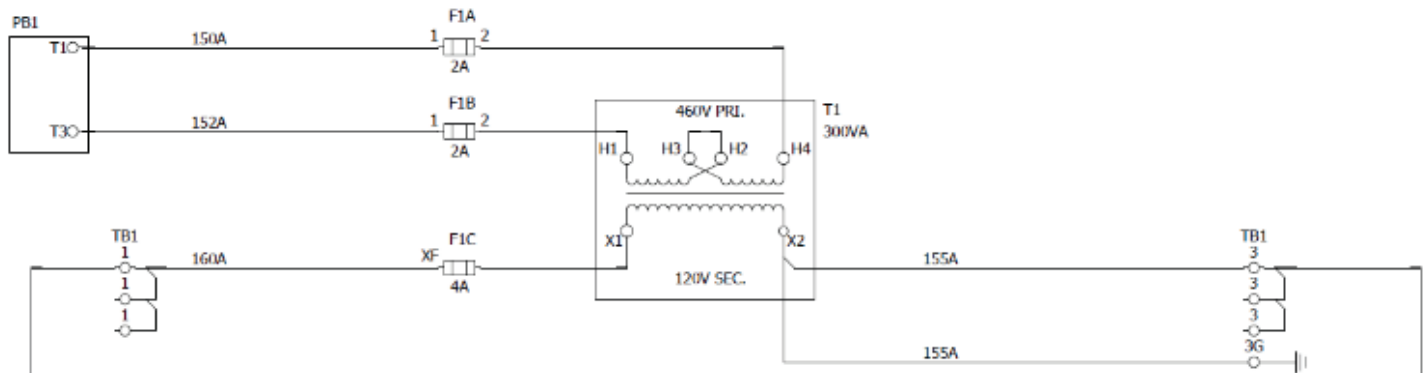


Figure 62: Typical Maverick II 120VAC Wiring

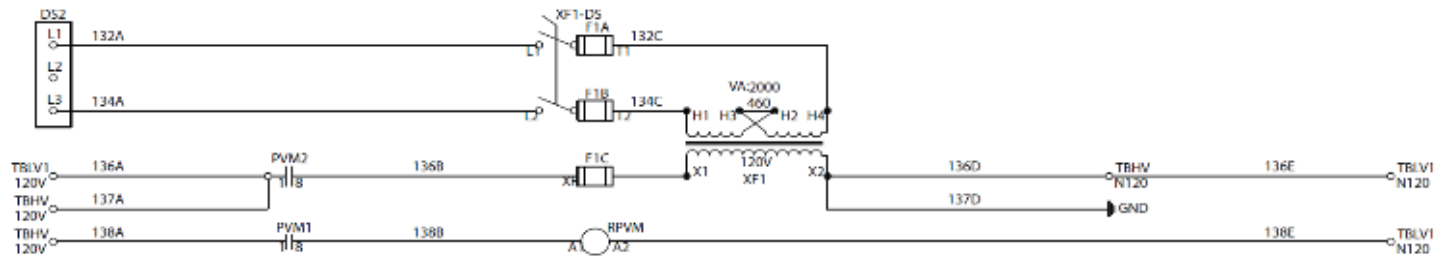


Figure 63: Typical Rebel Applied 120VAC Wiring

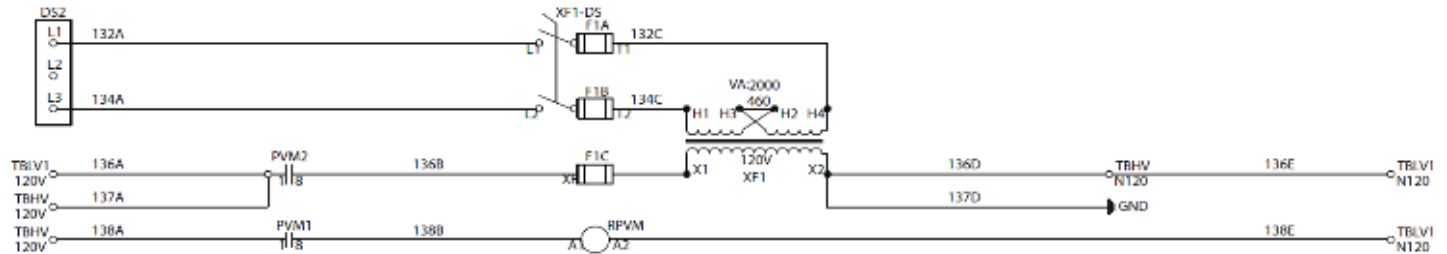


Figure 64: Typical RoofPak Unit 120VAC Wiring

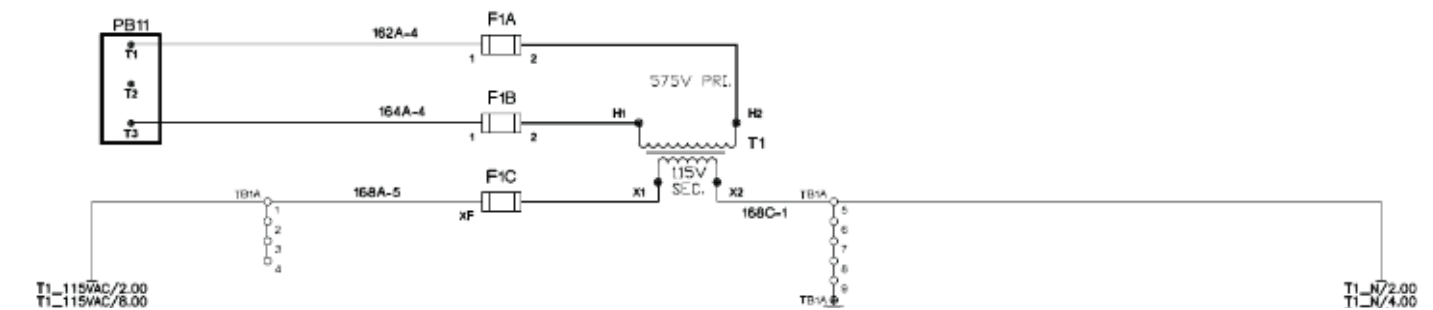
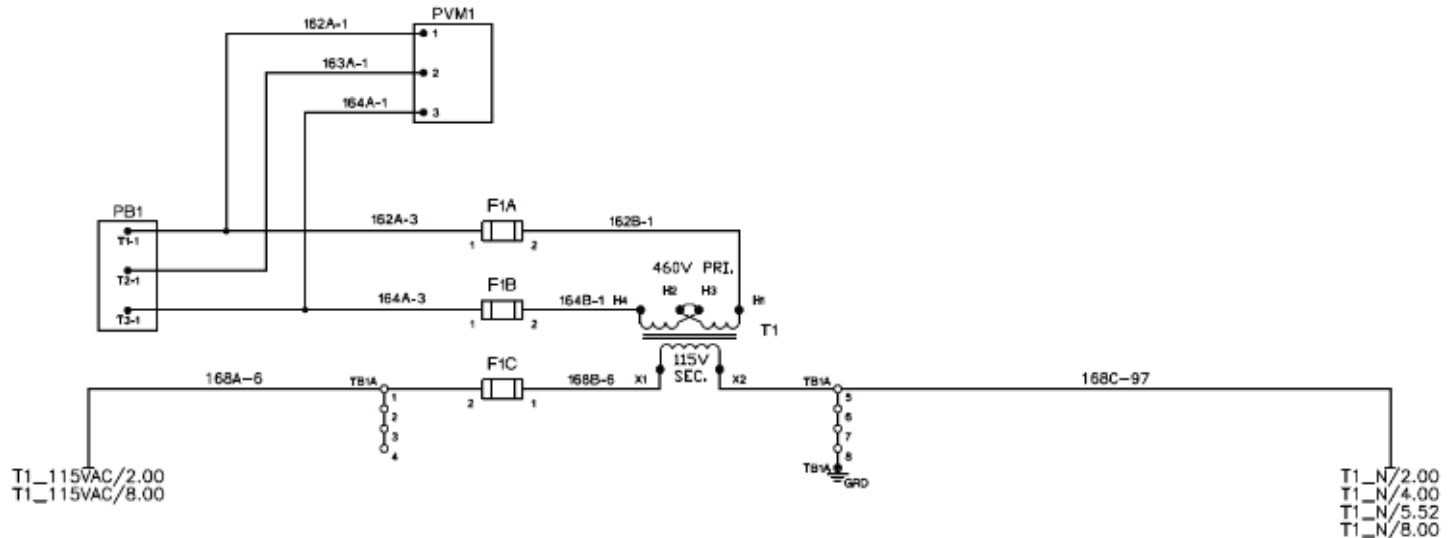


Figure 65: Typical SWP and SWT Unit 120VAC Wiring



SiteLine Gateway Connection to Antennas

As described previously, the antenna cables must be fed from the outside of the unit through the control enclosure to the SiteLine Gateway. Screw the SMA coaxial connector marked “LTE-1” to the “WWAN” connection on the SiteLine Gateway, then screw the SMA coaxial connector marked “LTE-2” to the “AUX” connection on the SiteLine Gateway (Figure 66). NOTE: the coaxial cables are interchangeable.

Figure 66: SiteLine Gateway WWAN and AUX Connections



SiteLine Gateway Connection to Local Area Network (If Applicable)

If the method of cloud connectivity is Ethernet LAN, connect the Ethernet patch cable from the LAN network (by others) to the “ETH1” port of the SiteLine Gateway (Figure 67). For instruction on configuring the gateway for Ethernet LAN, see document section titled, “Commissioning the SiteLine Gateway to the Equipment.”

Figure 67: SiteLine Gateway ETH1 Connection



Prior to Commissioning Gateway

Before commissioning the gateway, it is important to know the expected LED Behavior. Below is a summary of the expected behavior.

Connectivity LED states (LED 1)

- Solid Green - Device has IoT cloud connection and strong cellular signal.
- Blinking Green @ 2Hz - Cellular quality is poor but still has IoT Cloud and internet connection.
- Blinking Red @ 2Hz - IoT cloud connection is not available with the current internet connection.
- Solid Red - Device doesn't have internet connection / Unknown network status.

Product LED states (LED 2)

- Solid Green - There are no product data provider alarms.
- Blinking Green @ 2Hz - There is at least 1 active product data provider alarm and the highest severity across all active alarms is Info.
- Blinking Red @ 2Hz - There is at least 1 active product data provider alarm and the highest severity across all active alarms is Warning.
- Solid Red - There is at least 1 active product data provider alarm and the highest severity across all active alarms is Problem/Unknown product status.
- Alternate Red/Green @ 2Hz - There is at least 1 active product data provider alarm and the highest severity across all active alarms is Shutdown (for example, when a reboot is done).

Power button LED

The power button normally is solid green, but if the power button is pressed to issue a request to the Product Data provider, then there are three possibilities from the request made:

- Solid orange - After the initial press of the button, the LED will stay in solid orange color until the timer allows more presses to finish, once the timer expires then two different types of blinking can occur.
- Fast blink - The requests were issued and accepted by the Product Data provider.
- Slow blink - The requests were issued but rejected by the Product Data provider.

LED behavior while loading the image

When the SLGW is installed, the LEDs will start blinking green while performing the process. Once the image is installed there are two possible behaviors from both LEDs:

- LEDs are Solid Red - the image had an error while installing.
- LEDs are turned off - the image was successfully installed, and the device is off, waiting to reapply power.

Commissioning the SiteLine Gateway to the Equipment

An online Commissioning Tool is used to associate the SiteLine Gateway with the equipment on which it is installed. The same tool is also used to configure the SiteLine Gateway for Ethernet LAN connection to the customer's network (if applicable). Once the commissioning process is completed, the equipment will begin sending data to the cloud. To complete the SiteLine Gateway commissioning process:

1. Using a web browser, navigate to:
<https://slcommissioningtool.daikinapplied.com/>.
2. When prompted, enter the username and password (Figure 68).

NOTICE

The password is a user-specific and associated with the user's email address. If accessing the Commissioning Tool for the first time, the user will be asked to set a password.

3. Once logged in, enter the Serial Number found on the SiteLine Gateway, then click the search icon (Figure 69).
NOTE: the Serial Number will begin with, "iotg-imx8plus-" followed by thirteen digits.
4. Once the gateway record is located by the online Commissioning Tool, the "Let's GO" button becomes active (Figure 70).
5. After clicking the "Let's GO" button, the Commissioning Tool will connect to the SiteLine Gateway and attempt to confirm proper operation (Figure 71).
6. Confirm all settings and properties have a green "Check" icon (Figure 72).
 - a. If any setting or property is in an error state, it will appear with a red "X" icon, along with a context specific error message.
 - b. It is expected that the "Connected over LAN" icon will appear with a red "X" icon until the units are configured for and connected to a LAN network (if applicable).
 - c. Should any unexpected errors occur, contact Daikin Applied Controls Technical Support.
7. If the method of cloud connectivity is Ethernet LAN, click the "Change Network Settings" link in the lower-right corner of the screen. This opens the Change Network Settings screen (Figure 73).

NOTICE

Ethernet LAN is one of two possible methods of cloud connectivity. The method of connectivity is specified at the time of order. The SiteLine Gateway should only be configured for Ethernet LAN connectivity if certain that Ethernet LAN was specified at the time of order. If unsure, contact the salesperson or Daikin Applied Controls Technical Response Center. Prior to configuring the M2M Gateway for Ethernet LAN, please refer to the Appendix of this document for required IT information.

8. By default, DHCP is enabled. If the SiteLine Gateway "ETH1" port is already connected to the customer's network, the IP Address, Subnet Mask and Gateway fields will already be completed. In this case, the Ethernet configuration is complete.
9. If the SiteLine Gateway needs customer-specific LAN addressing, set the DHCP setting in the configuration screen to "Off". This enables the IP Address, Subnet Mask and Gateway fields.
10. Enter the required addressing in each field, then click "Apply" (Figure 74).
11. Click the Unit Setup tab.
12. The Commissioning Tool will automatically perform diagnostics to confirm the gateway's status and connection to the equipment controller.
 - a. If any setting or property is in an error state, it will appear with a red "X" icon, along with a context specific error message.
 - b. Should any unexpected errors occur, contact Daikin Applied Controls Technical Support.
13. If the gateway passes all diagnostics on the Unit Setup screen, all unit fields will be completed, and all connectivity and context settings will be marked with a green "Check" icon (Figure 75).
 - a. If any setting or property is in an error state, it will appear with a red "X" icon, along with a context specific error message.
 - b. Should any unexpected errors occur, contact Daikin Applied Controls Technical Support.
14. Click the "Orchestrate New Units" button.
15. Enter the equipment Serial Number, then click "Start Orchestration" (Figure 76).
16. When prompted (Figure 77), press the power button on the gateway twice.

NOTICE

Be careful to only press the power button twice consecutively, as pressing three consecutive times will cause the gateway to reboot and interrupt the orchestration process.

17. Once the orchestration has completed, a success message appears. Once the message appears, Log Out of the Commissioning Tool webpage.
 - a. If a message appears indicating the orchestration failed, contact Daikin Applied Controls Technical Support.

NOTICE

Field technicians to verify IoT Platform data reception at most 15 minutes after orchestration completes.

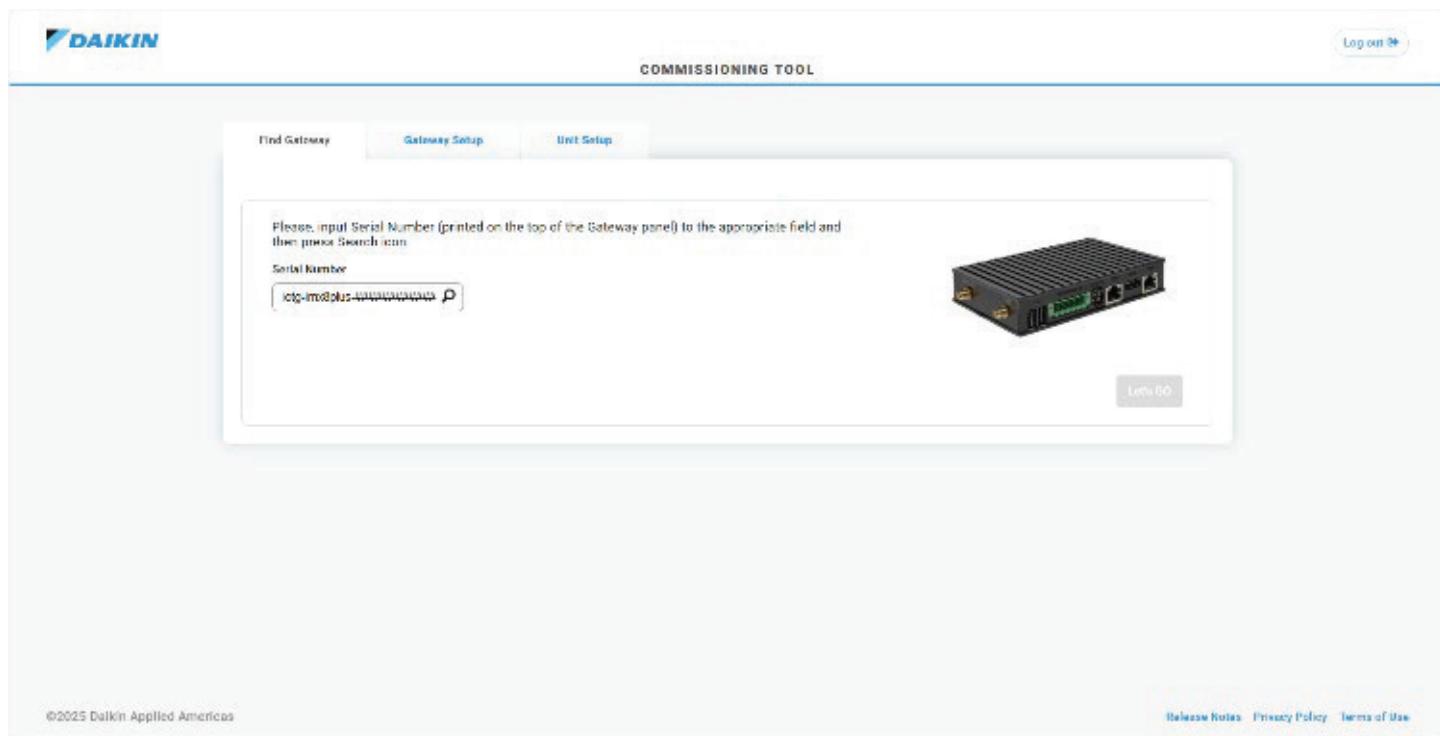
Figure 68: Online Commissioning Tool Login**Figure 69: SiteLine Gateway Serial Number Entered**

Figure 70: SiteLine Gateway Record Located

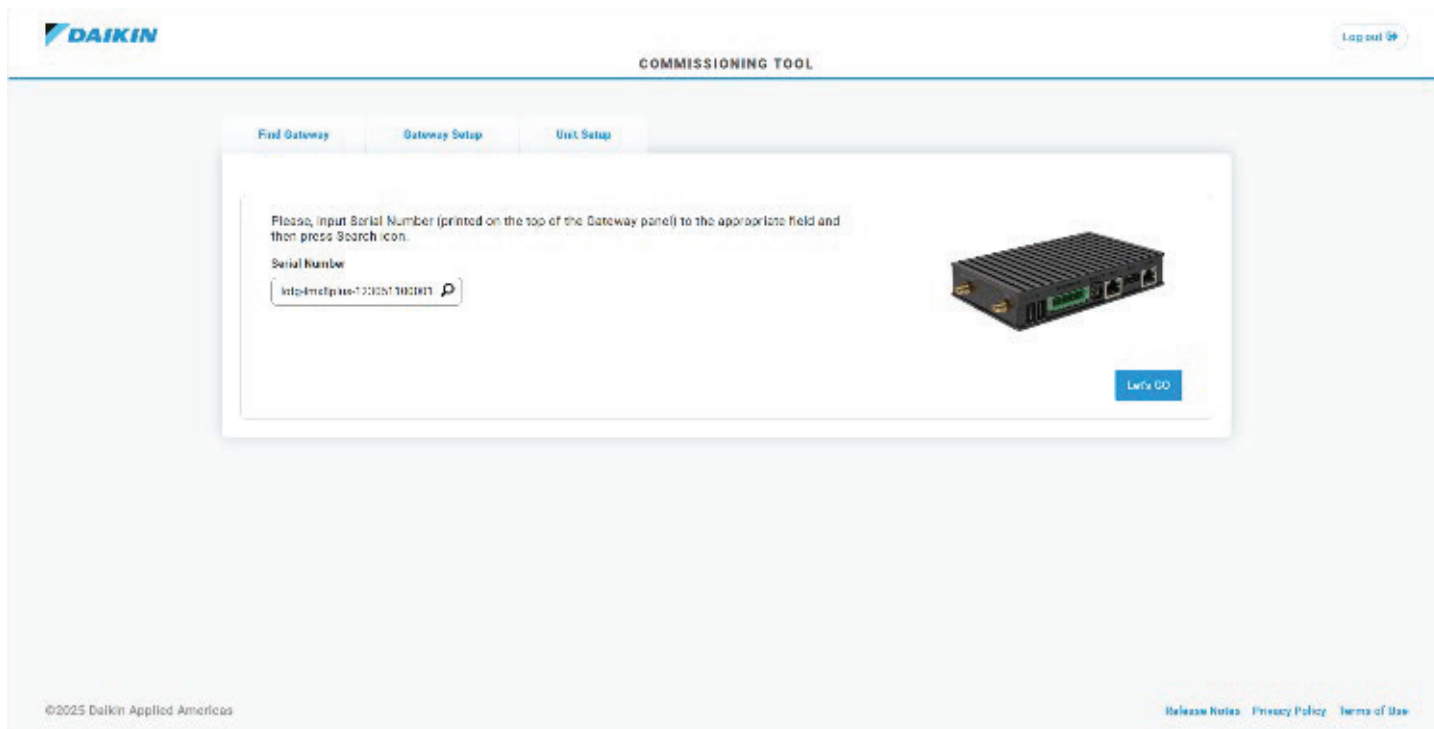


Figure 71: Commissioning Tool Confirming Gateway Operation

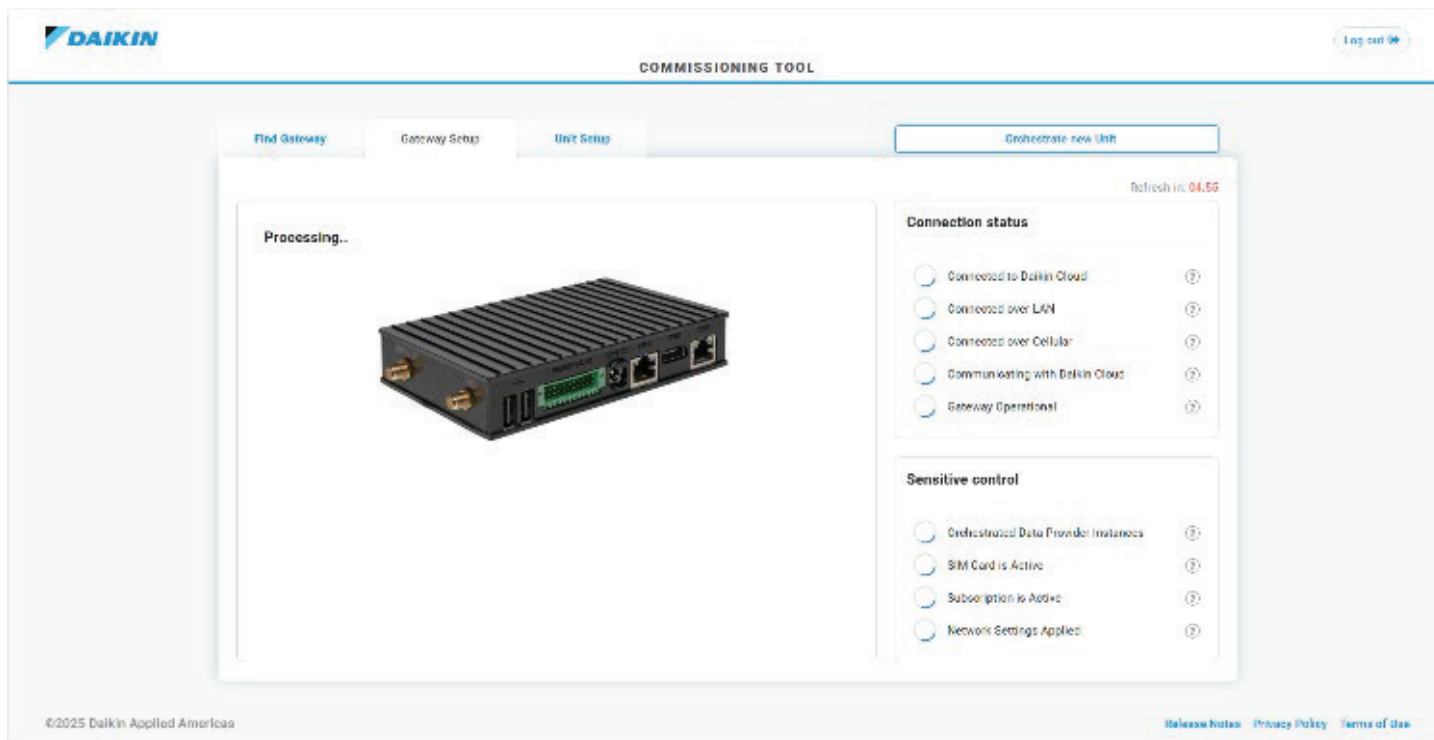


Figure 72: SiteLine Gateway Confirmed as Operational

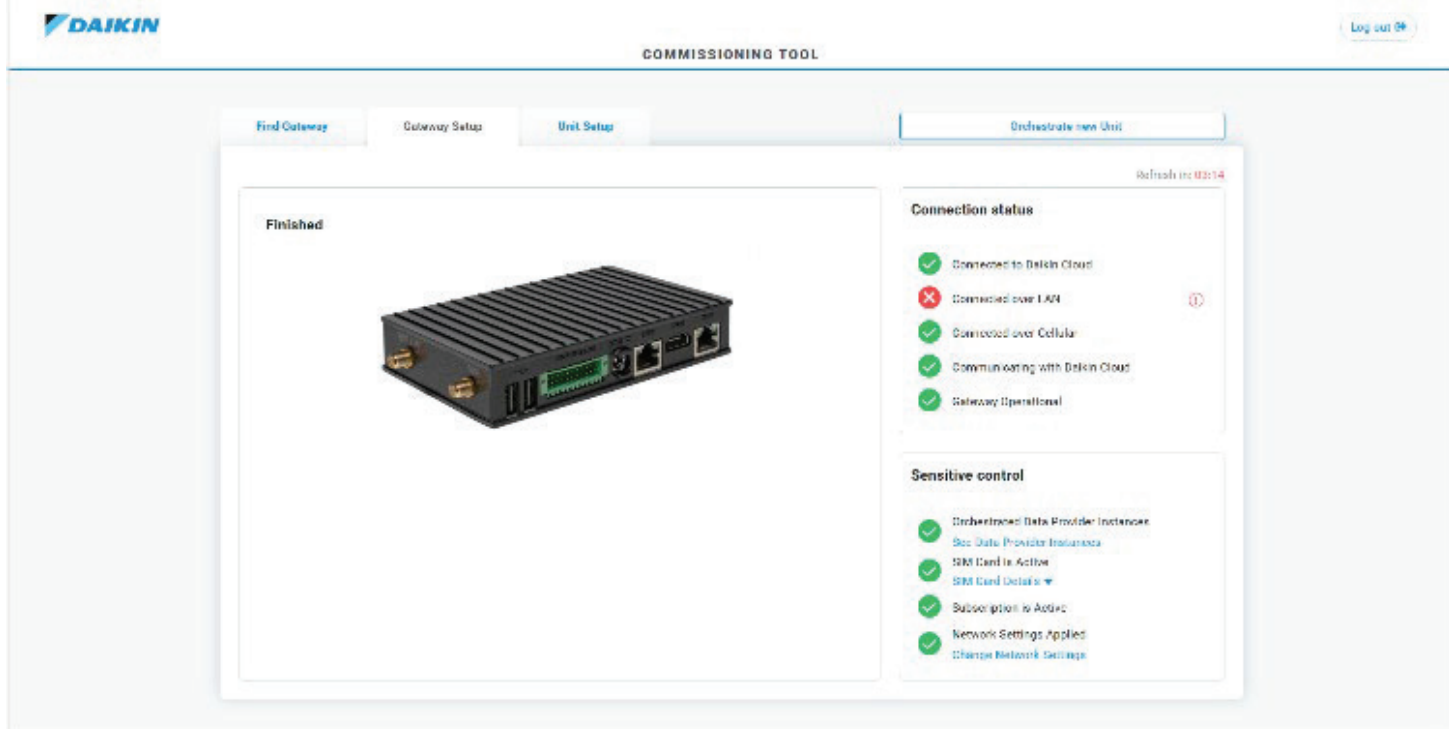


Figure 73: Change Network Settings Screen

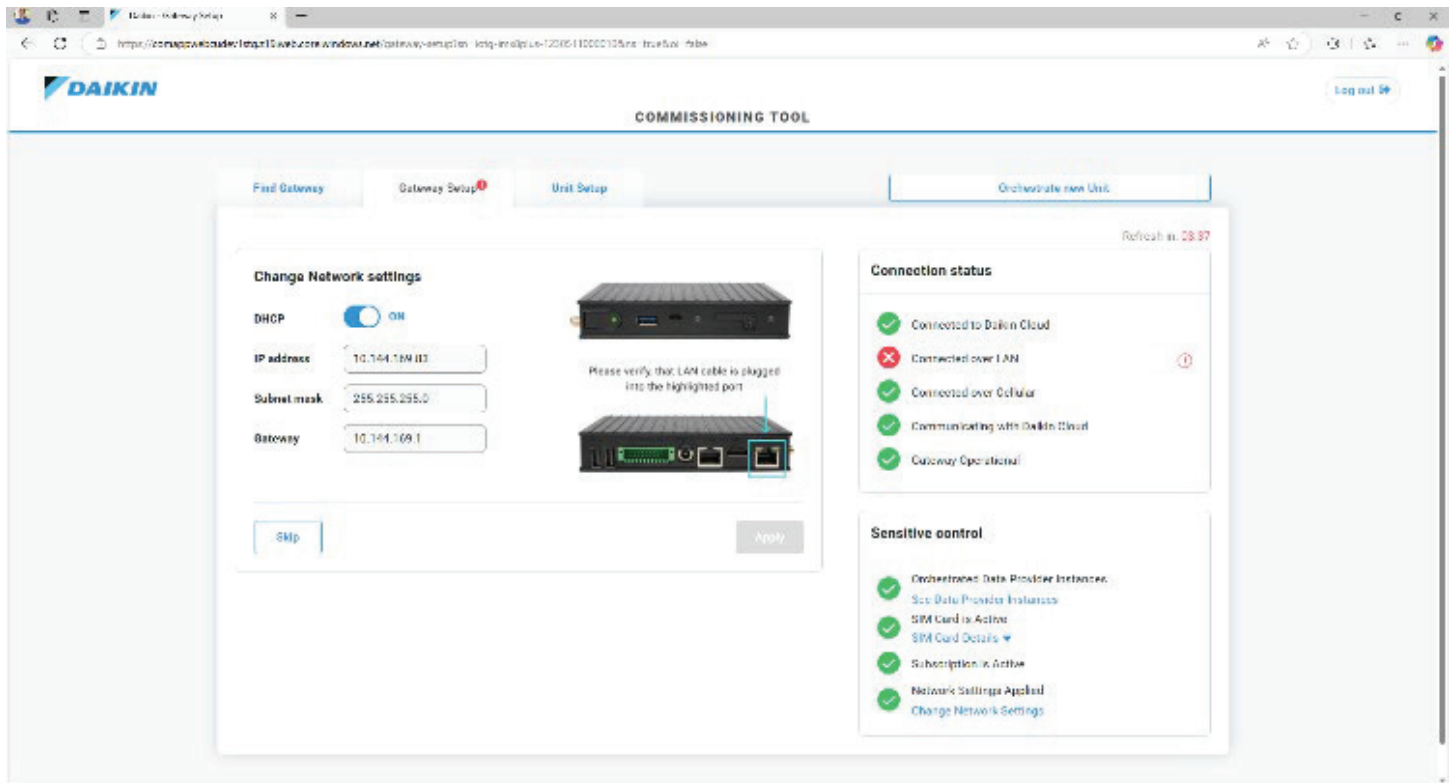


Figure 74: Ethernet Addressing Entered

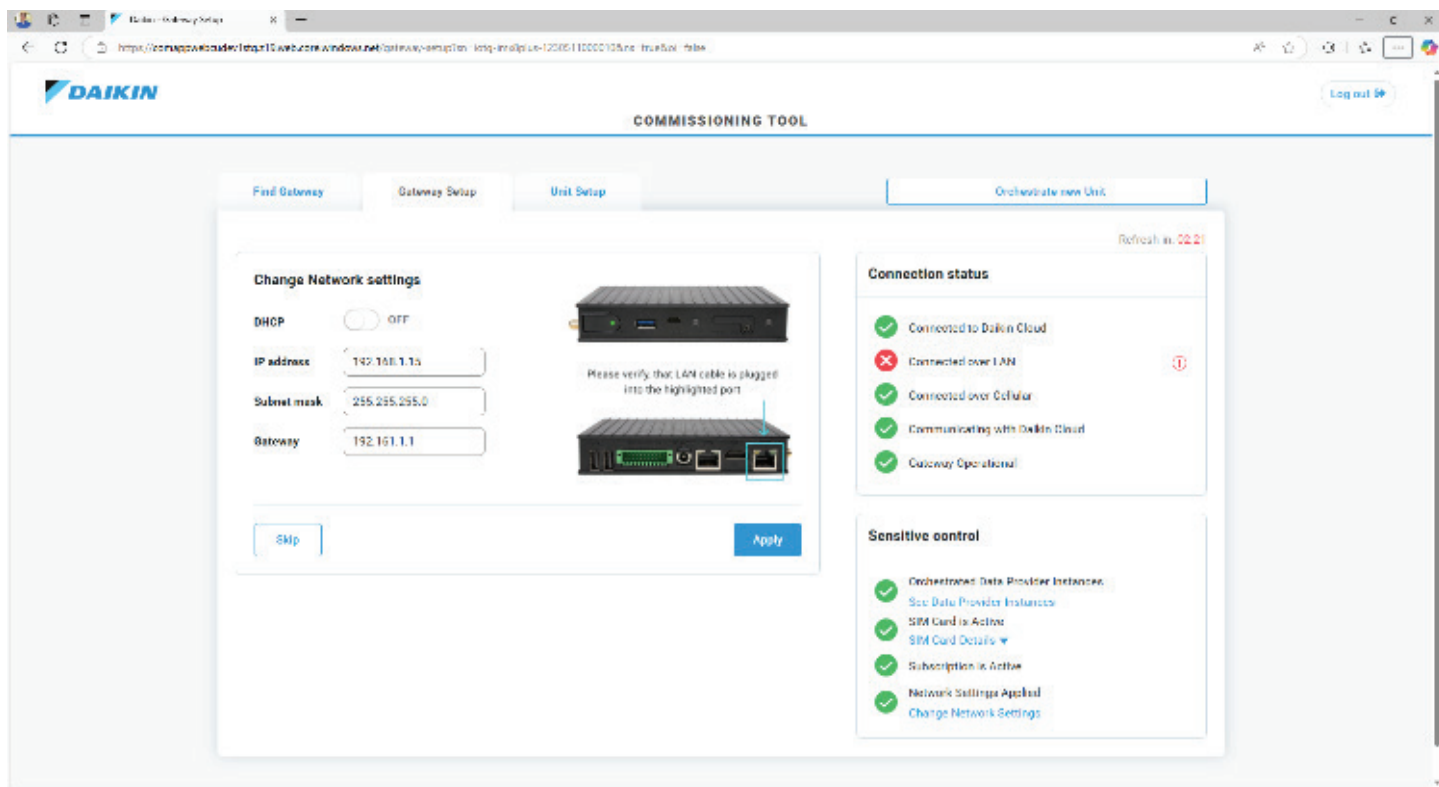


Figure 75: Unit Setup Screen – Diagnostics Passed

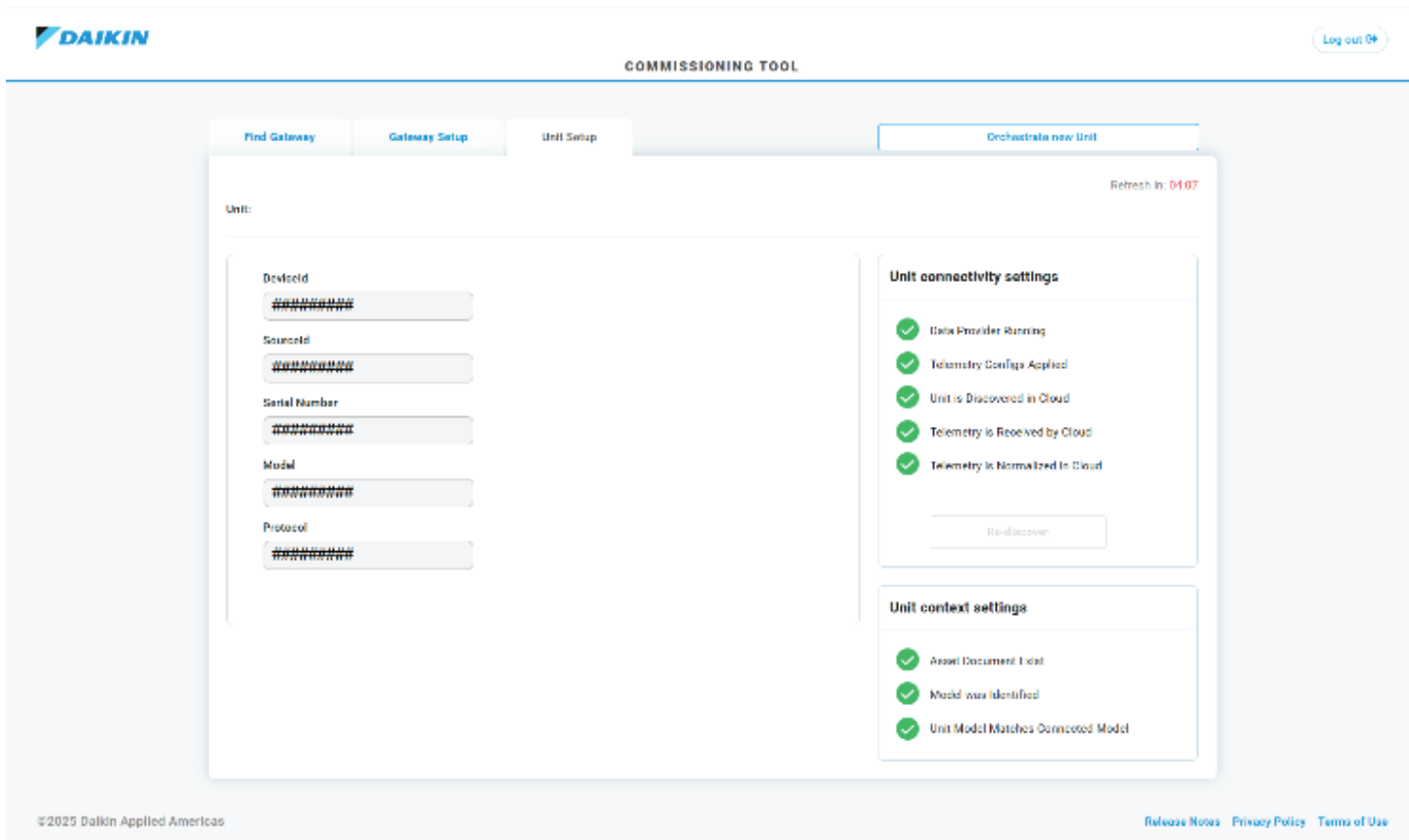


Figure 76: Equipment Serial Number Entered

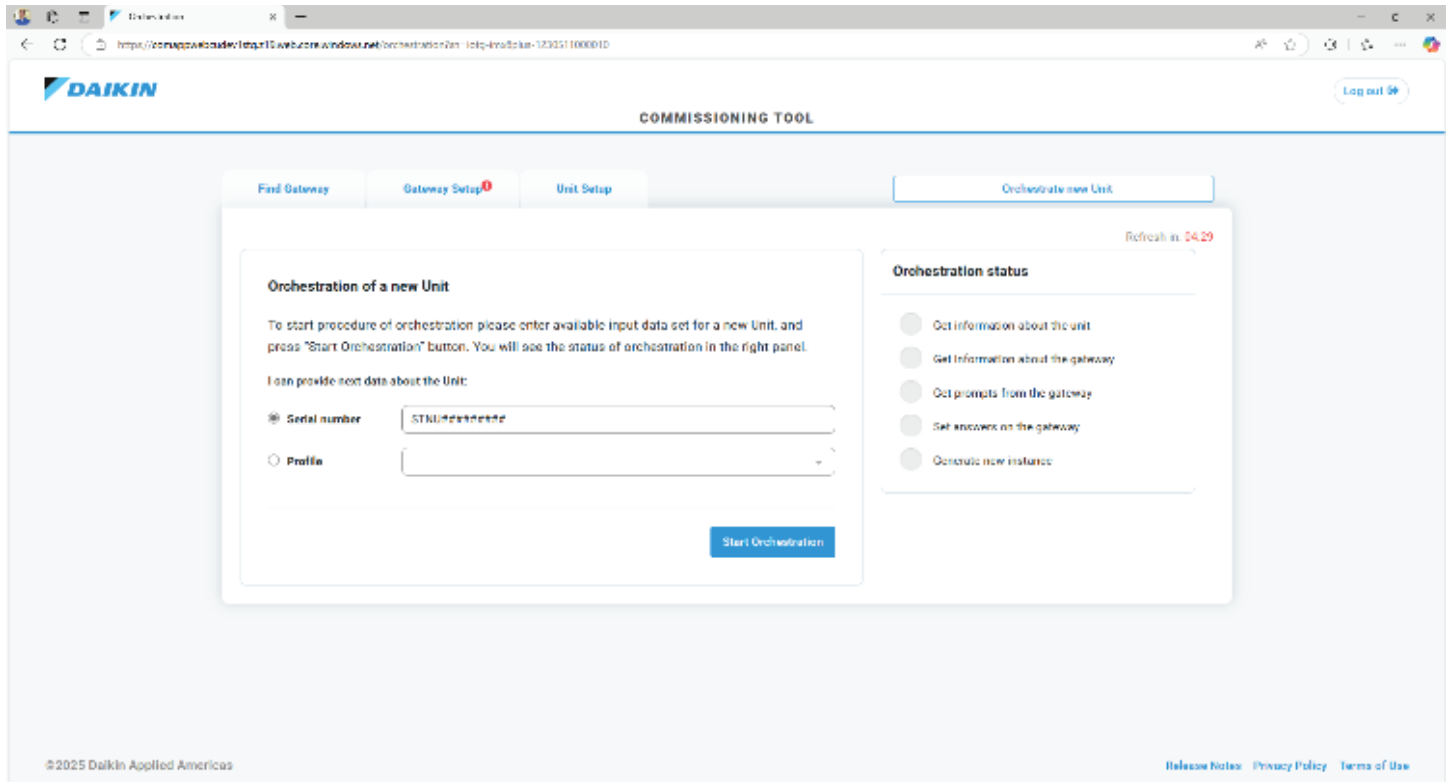
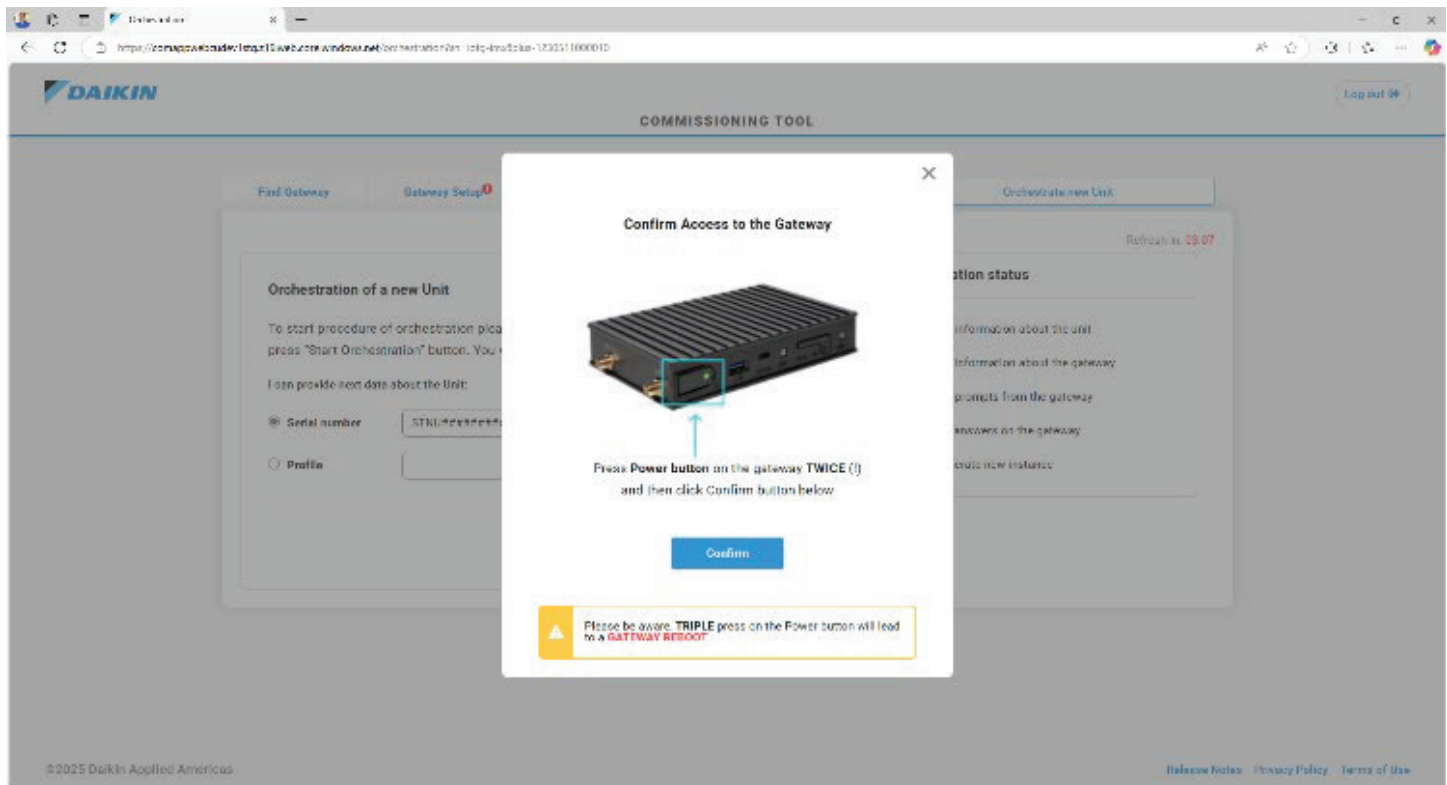


Figure 77: Gateway Power Prompt



Commissioning the SiteLine Gateway or SiteLine Modem in the Cloud User Interface

NOTICE

The SiteLine User Interface works best on a PC with Chrome and Firefox browsers. On mobile devices, Chrome and Safari work best.

For data to be populated on a unit's detail pages in the cloud-based user interface, it must first be commissioned to the cloud application. To complete this process, first log into the SiteLine user interface at <https://siteline.daikinapplied.com/Account/Login> (Figure 78). If you have not been given access to the unit Gateway, please contact Daikin Applied. Once logged in, the user interface displays a building list and map of all assigned units (Figure 79). Under the "Buildings" list (Figure 80), locate the building with the new unit and click the dropdown arrow (Figure 81). Locate the desired unit from the list and click the unit tag, which opens the Unit Details screen (Figure 82). Click the 'Commissioning Procedure' button.

A message will display indicating that the commissioning procedure must be completed within 30 days (Figure 83). Clicking the "OK" button opens the "Commissioning Procedures" screen for the unit (Figure 84). Commissioning of the unit can be completed within SiteLine or outside of the SiteLine application (traditional paper form). Either of these methods commissions the SiteLine application in the cloud. If the unit will be commissioned outside of SiteLine, simply click the checkbox for "Commission has been performed outside SiteLine Application", then navigate

to the bottom of the "General" tab and click, "Submit." If using SiteLine to commission the unit itself, complete all fields on each tab, then navigate to the bottom of the "General" tab and click, "Submit."

Figure 78: Login

The login form is titled "Email Address" and "Password". It contains a text input field for the email address with the value "john.doe@daikinapplied.com" and a password input field with masked characters "*****". Below the password field is a checkbox labeled "Remember me". At the bottom are two buttons: "Log In" and "Forgot Password?".

It can take up to 2 hours for all data to be pushed to the cloud and indexed. However, some data should begin to appear within 15 minutes. To check for connectivity, wait for 15 minutes, then navigate to each of the sections of the Unit Details screen and verify that some unit data has begun to appear. If no data is present, contact Daikin Applied for additional support.

Figure 79: Buildings List and Map View

The screenshot shows the SiteLine web application interface. The top navigation bar includes the DAIKIN logo, the SITELINE logo, and a user profile "J User". The main content area is divided into a left sidebar and a main map area. The sidebar has tabs for "OVERVIEW", "ADMINISTRATION", and "REPORTS". Under "OVERVIEW", there is a "BUILDINGS" section with a list of buildings: "Daikin Applied (Plymouth)" and "Daikin Applied (Plaza)". The main map area shows a map of the Minneapolis area with various locations marked. A legend at the bottom indicates different status levels: No Alarm (green), Warning (yellow), Problem (orange), Fault (red), No subscription (grey), and No connection established (white). The footer shows the version "4.1.692.0" and the website "www.daikinapplied.com".

Figure 80: Buildings List

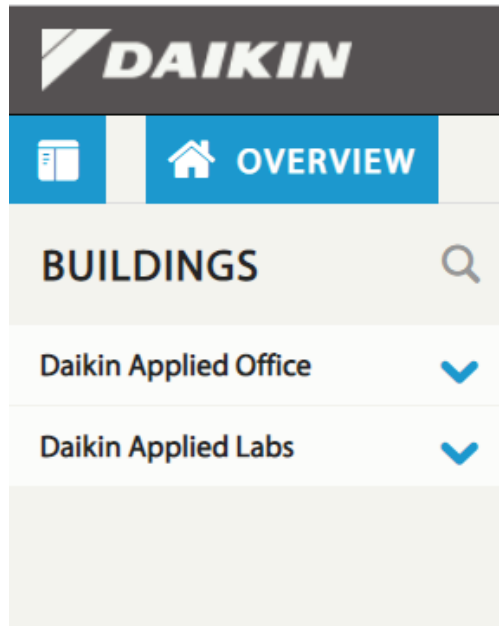


Figure 81: Unit List

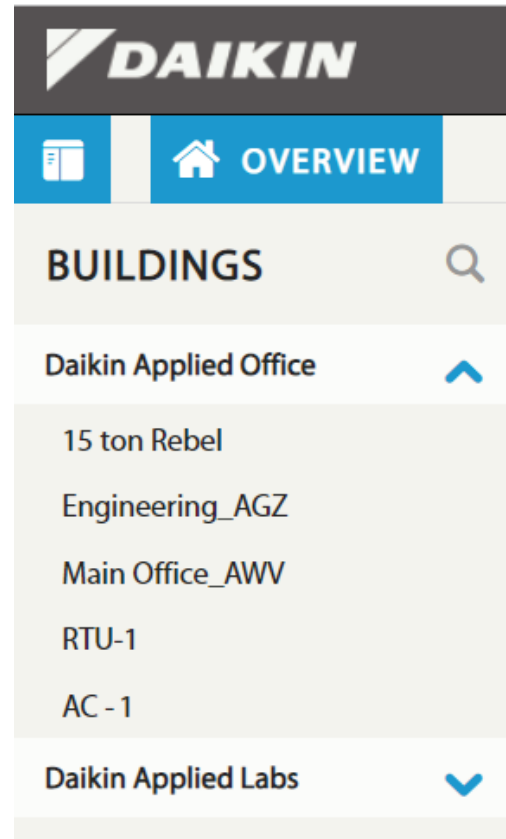


Figure 82: Unit Details

CH-6

✓ Commissioning Procedure

● Unit has not been commissioned

Standard Subscription
expiration date 05/02/2022 is active

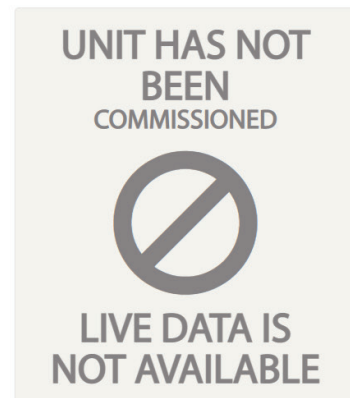
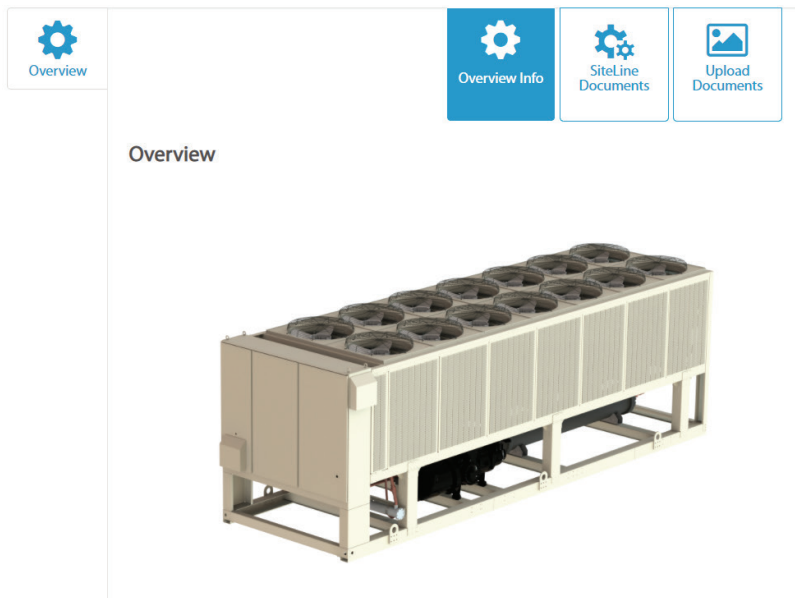


Figure 83: Thirty Day Message

Commissioning

By clicking 'Ok' You will be provided 30 Days of access to the equipment through SiteLine interface to support Startup and Commissioning of Unit CH-6. During this period you must submit the Commission procedure document otherwise Unit CH-6 reverts to a non-commissioned status and access will be limited.

Ok

Cancel

Figure 84: Commissioning Procedures Screen

Before Start-up

Refrigeration System

Design Controls

Start - Up

Non Microtech Readings

Control Setpoints

Heat Recovery

General

Metric Units

English Units

Next >

Commission has been performed outside SiteLine Application ☐

Commission Date

II. Pre Start-Up Checklist

Pre Start-Up Checklist, All NO checks require an explanation under "Description". Please check yes or no.

	YES	NO
A. Is the unit free of visible shipping damage, corrosion or paint problems?	☐	☐
B. Is unit installed level?	☐	☐
C. Does the unit meet all location, installation and service clearances per IM Bulletin?	☐	☐
D. Has thermostat bulb been properly installed in the well?	☐	☐
E. Are all set screws on all pulleys, bearings, and fans tight?	☐	☐
F. Does electrical service correspond to unit nameplate?	☐	☐
Volts Hertz Phase		
G. Has electrical service been checked for proper phasing at each circuit power terminal block?	☐	☐
H. Has unit been properly grounded?	☐	☐
I. Has a fused disconnect and fuses or breaker been sized per product manual and installed per local code?	☐	☐
J. Are all electrical power connections tight?	☐	☐
K. Have compressor heaters and oil separator heaters been operating for 24 hours prior to start-up?	☐	☐
L. Does all field wiring conform to unit electrical specifications?	☐	☐

Troubleshooting

Gateway does not power up (Power LED does not illuminate Green)

- Verify the power button is in the "ON" position
- Verify power at the unit terminal board
- Verify power supply wires are properly installed to unit terminal block
- Verify power supply is properly connected to the SiteLine Gateway
- Contact Daikin Applied

Cell connection cannot be established

- Check for solid antenna connections to WWAN and AUX ports on SiteLine Gateway
- Contact Daikin Applied

LAN connection cannot be established

- Verify LAN addressing through the online Commissioning Tool
- Connect to LAN and try to ping the SiteLine Gateway's IP address to prove the gateway is on the network
- Contact Daikin Applied

MicroTech III or MicroTech 4 Data not appearing in Cloud User Interface

- Confirm Ethernet cable is plugged into 'ETH2' port on SiteLine Gateway
- Confirm Ethernet cable is plugged into 'TIP' port on MicroTech III or MicroTech 4 controller
- Check for LED activity on SiteLine Gateway's 'ETH2' port
- Verify IP address of the MicroTech III or MicroTech 4 controller is 192.168.1.42
 - Menu Path (Chillers): View/Set Unit -> Ctrlr IP Setup
 - Menu Path (RTU's): Service Menus -> IP Set Up
- Contact Daikin Applied

MicroTech II Chiller Data not appearing in Cloud User Interface

- Confirm Ethernet cable is plugged into 'ETH2' port on SiteLine Gateway
- Confirm Ethernet cable is plugged into 'LAN2' or 'X1P1' port on MicroTech II HMI PC
- Check for LED activity on SiteLine Gateway's 'ETH2' port
- Confirm the chiller HMI's 'API Server' is "Enabled"
- Contact Daikin Applied

WME Gen 1 Data not appearing in Cloud User Interface

- Confirm Ethernet cable is plugged into 'ETH2' port on SiteLine Gateway
- Confirm Ethernet cable is plugged into Ethernet switch within the WME Gen 1 Control Panel
- Check for LED activity on SiteLine Gateway's 'ETH2' port
- Contact Daikin Applied

WME-C (SiteLine Modem) Data not appearing in Cloud User Interface

- Verify the SiteLine Modem's Cellular LED is solid orange, and the Signal LED is yellow or green
- Check for solid antenna connections to Cellular1 and Cellular2 ports on SiteLine Modem
- Confirm Ethernet cable is plugged into 'LAN2' port on SiteLine Modem
- Confirm Ethernet cable is plugged into 'X2P1' port on chiller PC
- Check for LED activity on SiteLine Modem's 'ETH2' port
- Contact Daikin Applied

Appendix

LAN Ethernet Pre-Start-up Form

NOTICE

This form must be completed in collaboration with site IT staff prior to configuring the SiteLine Gateway or SiteLine Modem for LAN Ethernet connectivity.

This form is not required for Cellular connectivity.

The SiteLine Gateway and SiteLine Modem can communicate via cellular wired Ethernet LAN connection. For Ethernet LAN, the Gateway supports DHCP to have an IP address assigned automatically, or it can be field programmed with a static IP address.

If Ethernet LAN is used for cloud connectivity, the customer's LAN Administrator should review and supply the following information (as necessary) prior to a technician going to the jobsite and commissioning the gateway or modem. The necessary CAT 5E/6 Ethernet communication cable from the network switch must be field provided. Care should be taken to ensure the cable has sufficient extra length to easily reach the chiller's control panel and to ensure it can be easily secured within the control panel. The RJ45 connector should be installed in the field by others.

Requirements

1. IT Group must allow incoming and outgoing internet traffic on TCP ports 80, 443, 3197, 3199, 5222, 5223, 8080 and 8883.
2. IT Group must also create rules to allow access to the following:
 - 8.8.8.8
 - www.google.com
 - iedata.daikinapplied.com
 - Two or more of the following NTP servers:
 - us.pool.ntp.org
 - 0.pool.ntp.org
 - 1.pool.ntp.org
 - 2.pool.ntp.org
 - 3.pool.ntp.org
 - iedata.daikinapplied.com on port 8883
 - iedata.daikinapplied.com on port 3199
 - 52.176.101.12
 - 192.168.1.40
 - 192.168.1.42
 - 192.168.1.220
 - 192.168.1.45
 - 192.168.1.132

3. If the Gateway will be required to use a static IP address the following information will need to be supplied:

Internal LAN Static IP Address:		required
IP Subnet Mask:		required
Default Gateway:		required
DNS Server (primary):		required
DNS Server (secondary):		if applicable
Proxy Server IP Address:		if applicable
Proxy Server Port Number:		if applicable

PLC Software and CFast Card Swap Procedure

NOTICE

This procedure is only necessary if unit shipped without embedded cloud connection capability

Due to the nature of the upgrade, it cannot be managed by the typical Chiller PC upgrade procedure. Instead, the Chiller's CFast card will be replaced on units that shipped without embedded cloud connection capability.

To verify whether the unit has embedded cloud connection capability, enter the technician-level password and navigate to the Interface screen of the Settings tab. If this screen has SiteLine information, as shown in [Figure 85](#), the Chiller PC has embedded cloud connection capability. The HMI Software Version and Chiller Software Version can also be used to verify embedded cloud connection capability.

Figure 85: Interface Settings Tab

SiteLine	
PC Serial Number	N6950111
Device ID	N6950111
Internet Connection	yes
Cloud Capable	yes
Software Gateway	running
Cloud Connection	enabled

HMI Software Version 1.4.0 with Chiller Software Version 1.2.0-0 (and newer) have embedded cloud connection capability.

If the Chiller PC does not have embedded cloud connection capacity, follow the procedure described below

1. Make sure the networking steps above are completed and ensure modem internet connectivity.

2. Take pictures or record the values for all settings screens in the HMI, paying special attention to the current tower setup for the Chiller (as this will need to be re-configured after the upgrade).
12. Set the correct Time Zone in the Time and Date section of the Interface screen (Settings tab).
13. After all settings are made, restart the Chiller PC.
14. Procedure complete.

Figure 86: HMI Software Version

HMI Touch Screen	
HMI Software Version	1.4.0
Chiller Software Version	1.2.0-0
Controller Platform	MicroTech(Orion)
Save ScreenShots	Save

3. Update the Chiller application to the latest version available on Sales Portal, following the instructions included with the software. Before performing this procedure, ensure ALL controllers (PC, Unit Controller and Compressor Controller) are online, connected, and fully functional.

NOTICE

This update should complete within 20-30 minutes.

4. After the upload has completed, power off the Chiller PC
5. Remove, label, and save the original customer CFast card.
6. Insert the provided pre-configured CFast card.
7. Power up the Chiller PC.
8. Perform a second update of the chiller application using the same update files used during the first update (this update should be performed even if the CFast card contains the latest released HMI software).

NOTICE

This update should complete within 10 minutes.

9. After the upload has completed, perform site specific Chiller configuration.
 - a. On the touchscreen, go to Settings -> Interface tab and set Controller Platform to be Chiller PC. This change requires the Technician Password
 - b. Re-enter any tower configuration recorded in step 2.
10. Next, look at the Chiller HMI and confirm SiteLine parameters on the Interface screen of the Settings tab. If the configuration has been successful:
 - a. Internet Connection should be = "Yes"
 - b. Cloud Capable should be = "Yes"
 - c. Software Gateway should = "Running"
 - d. Cloud Connection should = "Enabled"
11. Add the Chiller Serial Number in the Setup section of the Interface screen (Settings tab).
 - a. Please double-check that the correct serial number is entered.

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