

HVAC Post-Install Survey

Warning

Site Info	Please don't proceed before you double check that you are at the proper site. You can find the site details below.
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Job Site Information

Survey Source	HVAC_Post-Install_Survey_v17
Job Site Address City, State	2520 South Hamilton Road,Columbus,OH,43232
Business name/Franchise	McDonald's
Job Site #	1696
Site ID	IJ-35017-83000-07523-7160
WO #	70757
Date of HVAC Survey	01-28-2025
Technician/Contractor Name	ZY_CONTRACTOR_NAME
Location Check	I hereby confirm that the info above belongs to the site I'm currently in. (If not DO NOT PROCEED and navigate to the proper Work Order email and access the survey from there) Thank You

Post Install Unit Detail

How many units have been replaced at this jobsite?	3
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Post-Install Unit Overview #1

Post Install HVAC Unit Details

equipment_type	HVAC
Type of unit?	Packaged Unit
Unit Location	North
Area Served	Dining Room
Manufacturer	YORK
Model #	AW15N3BQ2S1CPP31B3
Serial #	N2N4121353
Enter the tonnage of the unit	15.00

HVAC Post-Install Survey

Please take a picture of the replaced unit's nameplate



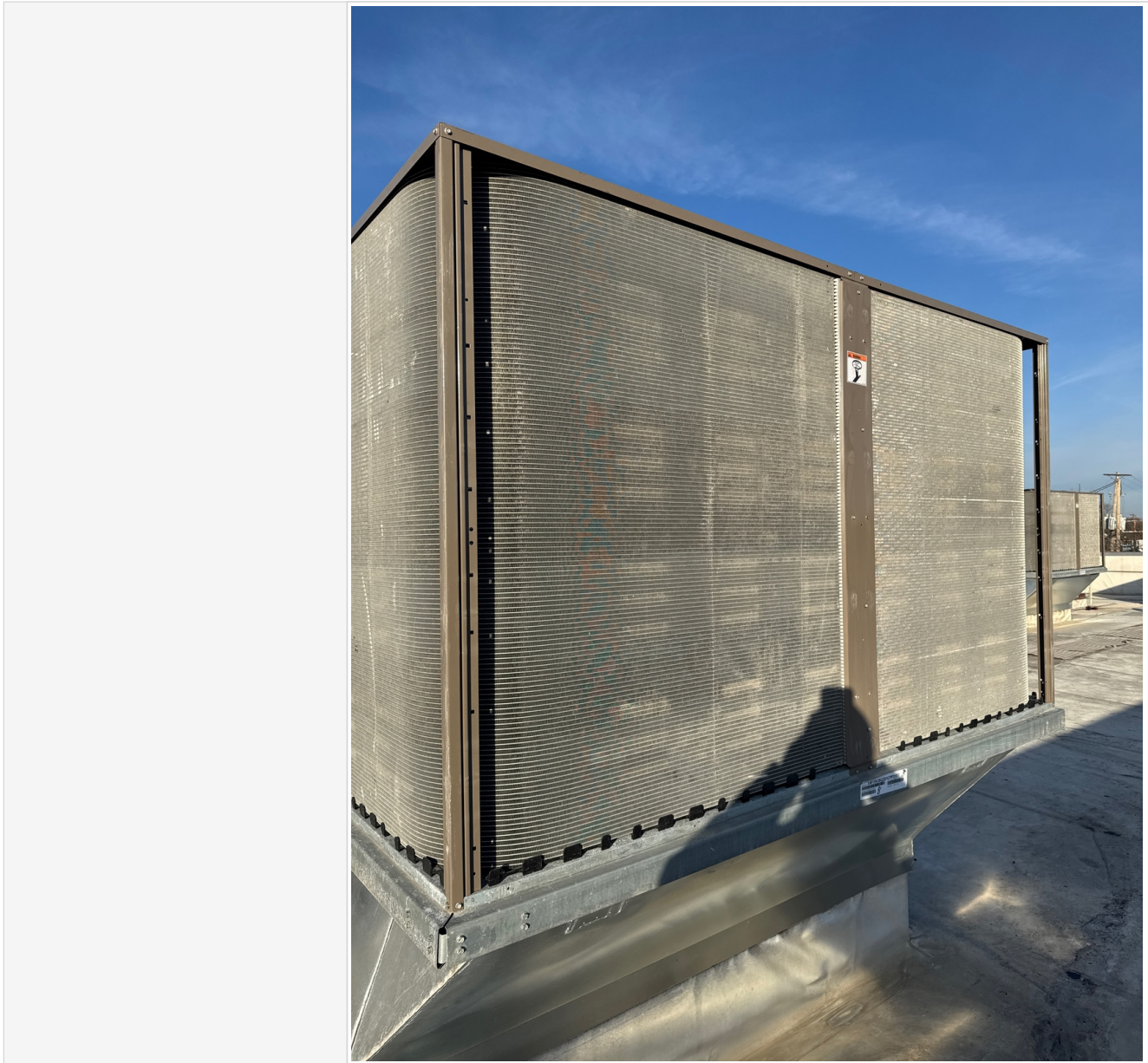
	39.925132, -82.878947 01-28-2025 04:25 PM
Replaced Unit Manufacturer	YORK
Replaced Unit Model	AW15N3BQ2S1CPP31B3
Replaced Unit Serial Number	N2N4121353
Replaced Unit Tonnage	15.00
Side pictures instructions:	Provided at least two pictures of the unit from opposite ends. The pictures should show: <ol style="list-style-type: none"> 1. Electrical disconnect and conduit 2. Gas piping 3. Economizer installed

HVAC Post-Install Survey

Please take a picture of unit from each side



HVAC Post-Install Survey



HVAC Post-Install Survey



HVAC Post-Install Survey



HVAC Post-Install Survey

NE PAS DÉMONTÉR CE PANNEAU SANS VÉRIFIER L'EMPLACEMENT DES COMPOSANTS D'ÉCHANGEUR D'AIR ET CONDUITS DE FRIGORIGÈNE.

Model Number
AW15N3BQ2S1CPP31B3

Serial Number
N2N4121353

FOR OUTDOOR INSTALLATION ONLY (Pour Usage Extérieur Seulement Non-Residentiel)
Industrial/Commer. Cooling Unit with Forced Air Furnace (Unité de refroidissement industrielle/commerciale avec fournaise à air forcé)

Power Supply Volts - Phase - Herz: 208/230 - 3 - 60 **USE COPPER SUPPLY WIRE ONLY** (Utiliser uniquement du fil en cuivre)
Copper #14 (Aluminium non autorisé)

Permissible Operating Voltage Range Min: 180V - Max: 254V

Short Circuit Current (Circuit de Court-Circuit) IA RMS SYMMETRICAL: 5 V MAXIMUM: 240 (IA RMS Symétrique) (V Maximum)

Factory Charged R410A System #1: (Système #1) 15 lbs 8 oz 6.8 kg System #2: (Système #2) 14 lbs 8 oz 6.6 kg

Min Test Pressure (Pression d'essai minimale) Low Side: 236 psig (16.27 kPa) High Side: 445 psig (30.68 kPa)

Refrigerant System Operating Pressures (Pressions de fonctionnement du système de réfrigérant) Max: 638 psi (4.41 MPa) Rated IPX4 (Max: 50 psi (3.45 MPa))

Electrical Loads	HP (kW)	Qty (Unités)	Volts - Phase - Herz (V - Ph - Hz)	Load Current (Ampères)	Lock Rotor Current (Courant de court-circuit)
Compressor 1	1	1	208/230 - 3 - 60	30	RLA 50.4 LRA
Compressor 2	1	1	208/230 - 3 - 60	26.9	RLA 164 LRA
Compressor 3	1	1	208/230 - 3 - 60		RLA LRA
10 Blower Motor (Moteur de ventilateur adhésif)	2.9	1	208/230 - 3 - 60	13.2/13.2	FLA
10 Fan Motor (Moteur de ventilateur adhésif)	0.5	2	208/230 - 1 - 60	4.7/4.7	FLA
Exhaust Fan Motor (Moteur du ventilateur)	2	2	208/230 - 1 - 60		FLA
Convenience Outlet (Prise standard de 120 volts)	1	1	208/230 - 1 - 60	9.6/8.7	FLA
Combustion Motor (Moteur à combustion adhésif)	1	1	208/230 - 1 - 60	0.8	FLA

Designed Max Outlet Air Temperature: 200 F (93.3 C)

Unit without Power Exhaust (Unité sans évacuation) Min Circuit Ampacity: 96.6/95.7 Max. Fuse/Bk Size: 125/125 PE Motor: FLA Volts - Phase - Herz: 208/230 - 1 - 60

Unit with On-Off Power Exhaust (Unité avec évacuation) Min Circuit Ampacity: 106.6/105.7 Max. Fuse/Bk Size: 125/125 PE Motor: 55 Volts - Phase - Herz: 208/230 - 1 - 60

Unit with Modulating Exhaust (Unité avec évacuation modulant) Min Circuit Ampacity: 110.0/109.1 Max. Fuse/Bk Size: 125/125 PE Motor: 6.76/7 Volts - Phase - Herz: 208/230 - 1 - 60

Input (Entrée)	Manifold Pressure (Pression d'admission)	Drift (Déviation)
Normal (Normal): 400,000 BTU/h 117.2kW	3.5 in. w.c. 0.87 in. H ₂ O	0.125 in.
Reduced (Réduit): 300,000 BTU/h 87.9 kW	2.1 in. w.c. 0.52 in. H ₂ O	Naturel

Drift (Déviation): 0.125 in.

Typical Gas (Typique Gaz): Naturel

Input Max (Entrée Max): 4.8 in. w.c. 1.20 in. H₂O

Output Max (Sortie Max): 10.5 in. w.c. 2.61 in. H₂O

Min Rise (Élévation Min): 55 °F (13.3 °C)

Max Rise (Élévation Max): 65 °F (18.3 °C)

Temp Limit (Limite): 130 °F

Gas Furnace suitable for use down to -40 F (-40 C). (Réchauffeur à gaz adapté à une utilisation jusqu'à -40 F (-40 C).)

Suitable for installation on combustible flooring or class A, B or C roof covering material. (Pour installation sur plancher combustible ou matériau de couverture de toit de classe A, B ou C.)

Service Clearance (S) / Minimum Clearance to Combustible Material (M) (Engagement de Service (S) / Engagement Minimum pour les matériaux de combustible (M))

(S) Right (Droite)	(S) Left, No Econ or PE (Gauche, sans Econ ni évacuation)	(S) Left, No Econ or PE (Gauche, avec Econ ou évacuation)	(S) Front / Rear Access (Dessus / Dessous / Accès à la chaleur)	(S) Rear (Arrière)	(M) Top (Haut)	(M) Unit to Unit (Unité à unité)	(M) Duct (Conduit d'air)	(M) Floor (Sol)	(M) Front/Fire (Devant/Feu)
42 in. 1,067 mm	18 in. 457 mm	36 in. 914 mm	36 in. 914 mm	36 in. 914 mm	120 in. 3,048 mm	0 in. 0 mm	0 in. 0 mm	0 in. 0 mm	42 in. 1,067 mm

UL 60335-1 (098 E4) CSA - C22.2 No. UL60335-2-40 (098 E4) ANSI Z21.47 / CSA 2.3-2021 Central Furnace

Johnson Controls Ducted Systems, 5005 York Drive, Norman, OK 73065

80

Model: AW15N3BQ2S1CPP31B3

Serial: N2N4121353

2

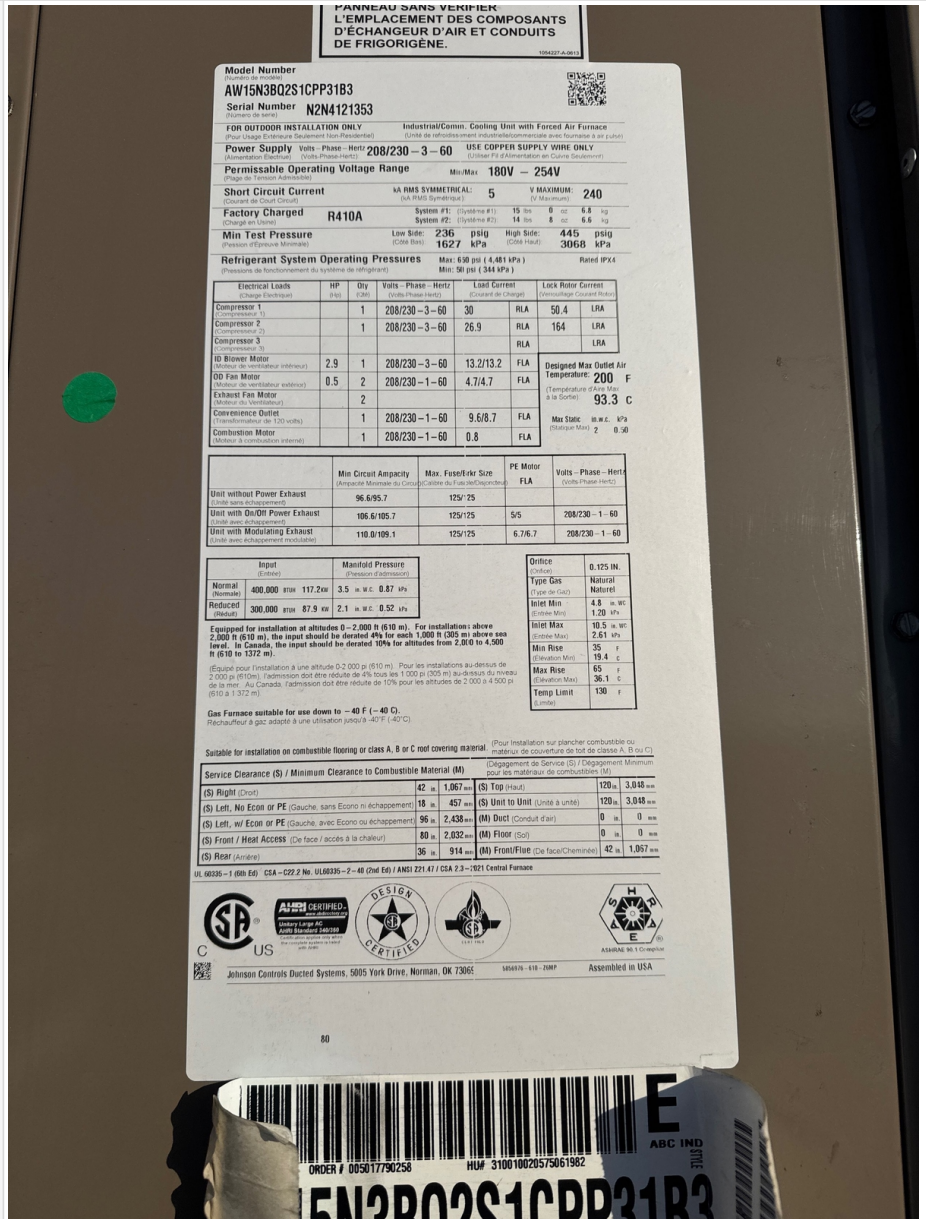
39.925136, -82.878959

Powered by fastfield

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HVAC Post-Install Survey

Please take a picture of the new unit's nameplate with location served written on it

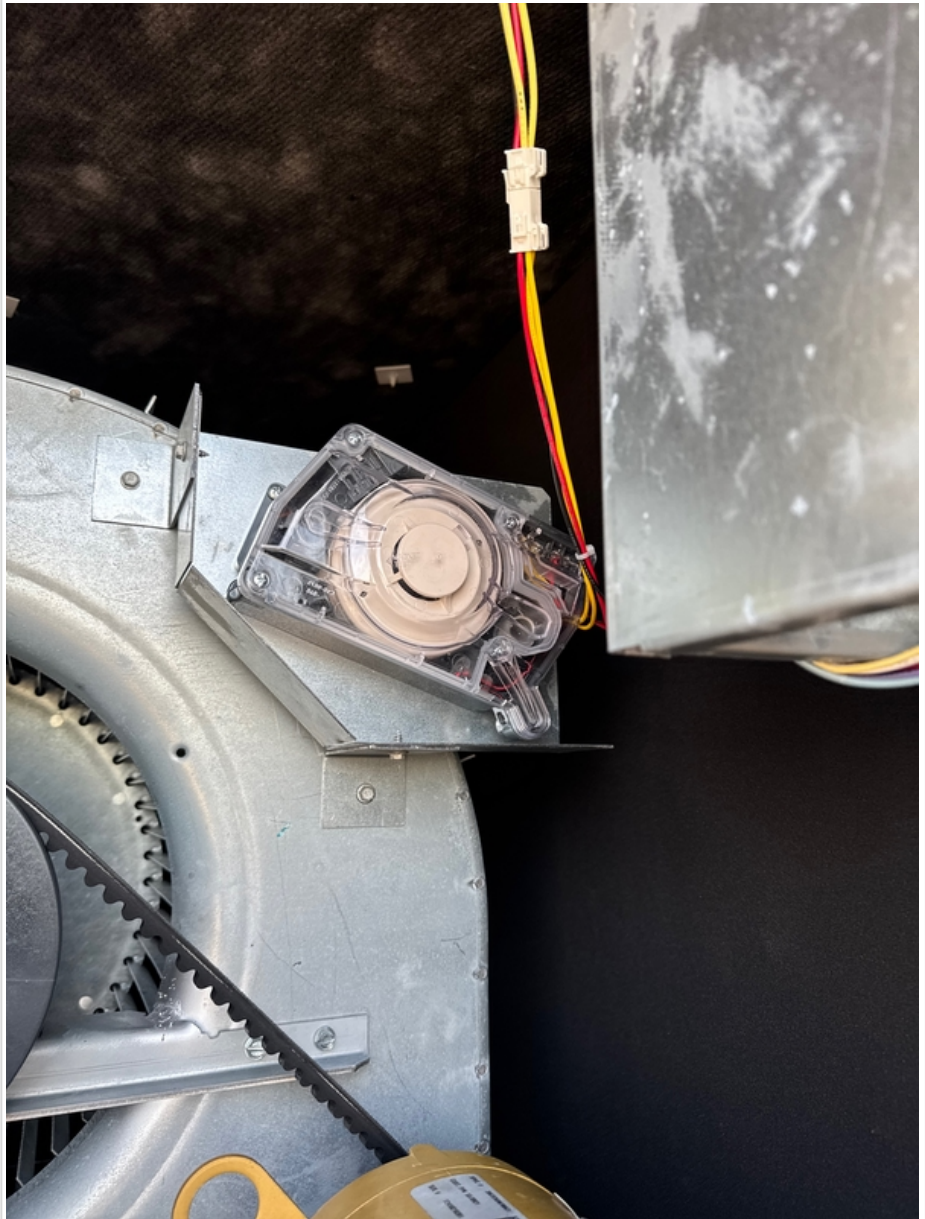


39.925144, -82.878954

01-28-2025 04:28 PM

HVAC Post-Install Survey

Photo of smoke detector to confirm smoke detector has been moved from shipping position



 39.925135, -82.878907

HVAC Post-Install Survey

Photo of each unit secured to curb




39.925137, -82.878972

HVAC Post-Install Survey

Photo of condensate trap




 39.925136, -82.878921

HVAC Post-Install Survey

Photo of ethernet drop



 39.925115, -82.878949


Thermostat pictures instructions:

- Take 2 pictures of the thermostat
1. Take a picture of the wiring to the baseplate
 2. Take a picture of the thermostat installed on the wall

HVAC Post-Install Survey

Please take a picture of the unit's thermostat wiring



 39.925088, -82.879020

HVAC Post-Install Survey

Please take a picture of the unit's thermostat screen showing blue Wi-Fi symbol and physical labeling



 39.925321, -82.879056

Controller pictures instructions:

Take 3 pictures of different controller screens to prove proper configuration. These are to include:

1. Thermostat control (Adaptive TSTAT disabled).
2. Minimum outside air position
3. Fan speed setups



HVAC Post-Install Survey

Add pictures or screenshots of controller configuration screens



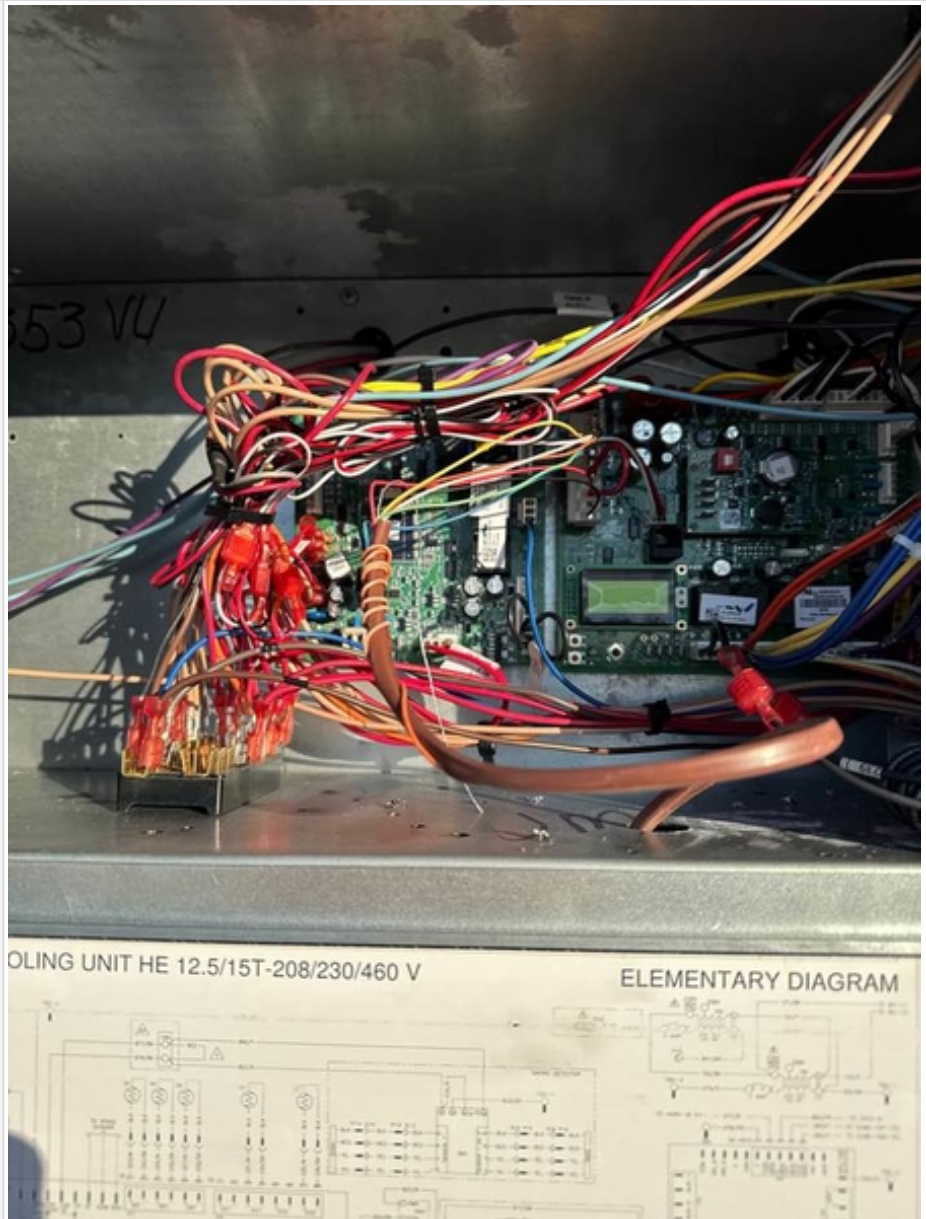
10 39.925154, -82.878987

HVAC Post-Install Survey

<p>Add picture of physical economizer installation and economizer configurations in controller</p>	
	<p> 39.925172, -82.878956</p>
<p>Describe condition of make-up air unit(s) and exhaust fan(s) on-site. Do any appear to need maintenance?</p>	
<p>Pre Start Up Checklist</p>	<p>Pre Start Up Checklist</p>
<p>Verify that the coiled Ethernet cable exists inside the HVAC unit</p>	<p>Yes</p>

HVAC Post-Install Survey

Please take a picture of the coiled Ethernet cable inside the HVAC unit

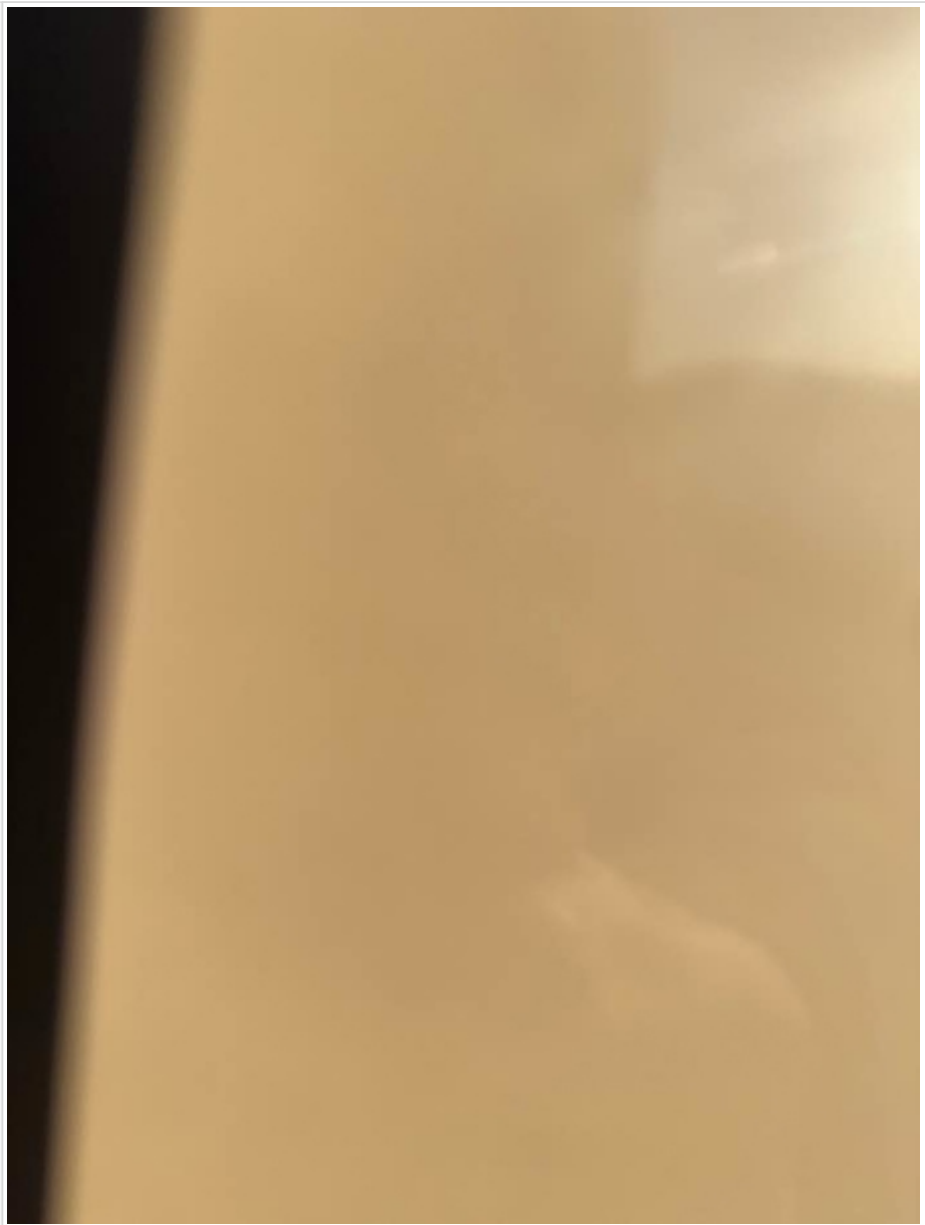



 39.925149, -82.878995

Verify the cable has been dropped through the roof and into the ceiling of location

Yes

HVAC Post-Install Survey

<p>Please take a picture of the cable dropped through the roof and into the ceiling of location</p>	
	 39.925147, -82.879009
<p>Verify that all packaging materials have been removed from unit</p>	<p>Yes</p>
<p>Verify installation of outdoor air hood</p>	<p>Yes</p>
<p>Verify installation of flue exhaust and inlet hood (gas units only)</p>	<p>Yes</p>
<p>Verify that condensate connection is installed per installation instructions</p>	<p>Yes</p>
<p>Verify that all electrical connections and terminals are tight</p>	<p>Yes</p>


HVAC Post-Install Survey

Verify gas pressure to unit gas valve is within specified range (gas units only)	Yes
Check gas pipe for leaks (gas units only)	Yes
Check that indoor air filters are clean and in place	Yes
Check that outdoor air inlet screens are in place	Yes
Verify that unit is level	Yes
Check outdoor fan propeller for location in housing/orifice and verify setscrew is tight	Yes
Verify that scroll compressors are rotating in the correct direction	Yes
Verify installation of thermostat/space sensor	Yes
Verify configuration values for electronic controls (based on Control set up checklist)	Yes
Verify that crankcase heaters have been energized for at least 24 hours	Yes
Verify convenience outlet is wired	Yes
Verify transformer tabs incorrect location. Voltage across RC should be between 25-27 Volts	Yes
Verify economizer moves freely without binding on wires or filters rack	Yes
Verify fan and blower set screws tightened and built aligned	Yes

HVAC Post-Install Survey

Please take photos of completed back of manual warranty sheets (note electrical values below can be taken from this)



 39.925090, -82.878943

Start Up - Electrical	Start Up - Electrical
Supply Voltage L1-L2	208.00
Supply Voltage L2-L3	207.00
Supply Voltage L3-L1	206.00
Compressor Amps Speed 1 - 2500 rpm L1	30.00
Compressor Amps Speed 1 - 2500 rpm L2	26.90
Compressor Amps Speed 1 - 2500 rpm L3	26.70

HVAC Post-Install Survey


Compressor Amps Speed 2 - 4500 rpm L1	
Compressor Amps Speed 2 - 4500 rpm L2	
Compressor Amps Speed 2 - 4500 rpm L3	
Electric Heat Amps L1 (if applicable)	
Electric Heat Amps L2 (if applicable)	
Electric Heat Amps L3 (if applicable)	
Supply Fan Amps at Max Speed L1	5.80
Supply Fan Amps at Max Speed L2	5.70
Supply Fan Amps at Max Speed L3	5.70
Start Up Temperatures	Start Up Temperatures
Outdoor Air Temperature F Dry Bulb	33.00
Return Air Temperature F Dry Bulb	70.00
Cooling Supply Air Temperature F Dry Bulb (Ideal differential 20F (+/- 5F))	50.00
Gas Heat Supply Air Temperature F (if applicable) (Ideal differential 20F (+/- 5F))	117.00
Electric Heat Supply Air Temperature F (if applicable) (Ideal differential 20F (+/- 5F))	0.00
Start Up Pressures	Start Up Pressures
Gas Inlet Pressure (in wg)	13.00
Gas Manifold Pressure Stage 1 (in wg)	3.50
Gas Manifold Pressure Stage 2 (in wg)	
Refrigeration Suction Circuit A (psig)	223.00
Refrigeration Suction Circuit A Superheat deg F	13.00
Refrigeration Discharge Circuit A (psig)	384.00
Refrigeration Discharge Circuit A Subcooling deg F	17.00

HVAC Post-Install Survey

Verify refrigerant charge using charging charts	Yes
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Post-Install Unit Air Flow #1

Section 1

Is the economizer fully operational?	Yes
	 39.925167, -82.878930
Outside air intake damper minimum position: (Target: X> 5%)	4

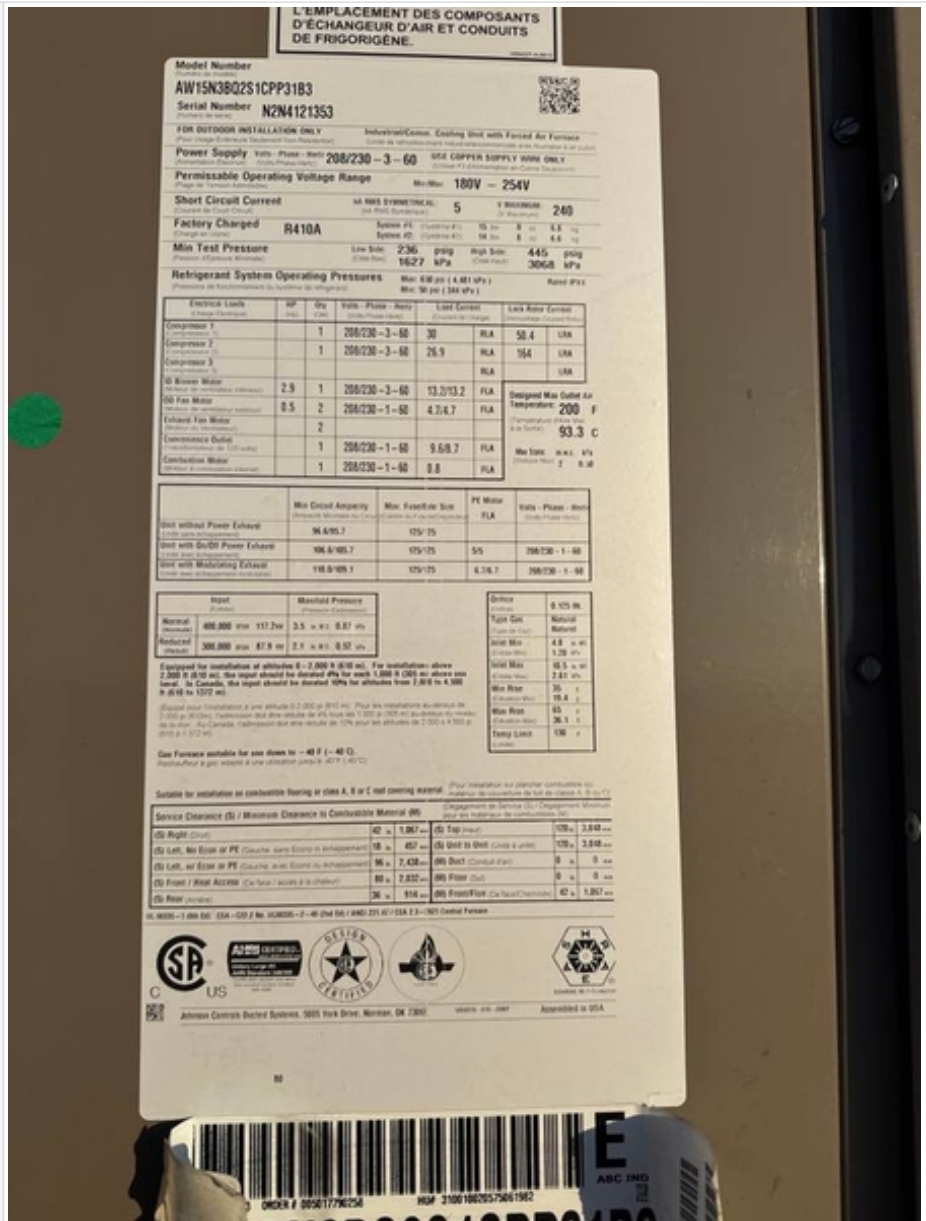
Post-Install Unit Connectivity #1

RTU Post Install Survey

HVAC Serial Number	N2N4121353
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HVAC Post-Install Survey

Take a photo of the HVAC nameplate



39.925157, -82.878996

01-28-2025 04:53 PM

Area served by HVAC

DINING ROOM

HVAC Post-Install Survey

Take a photo of the RTU number (It may be handwritten on the RTU or on a decal/sticker)



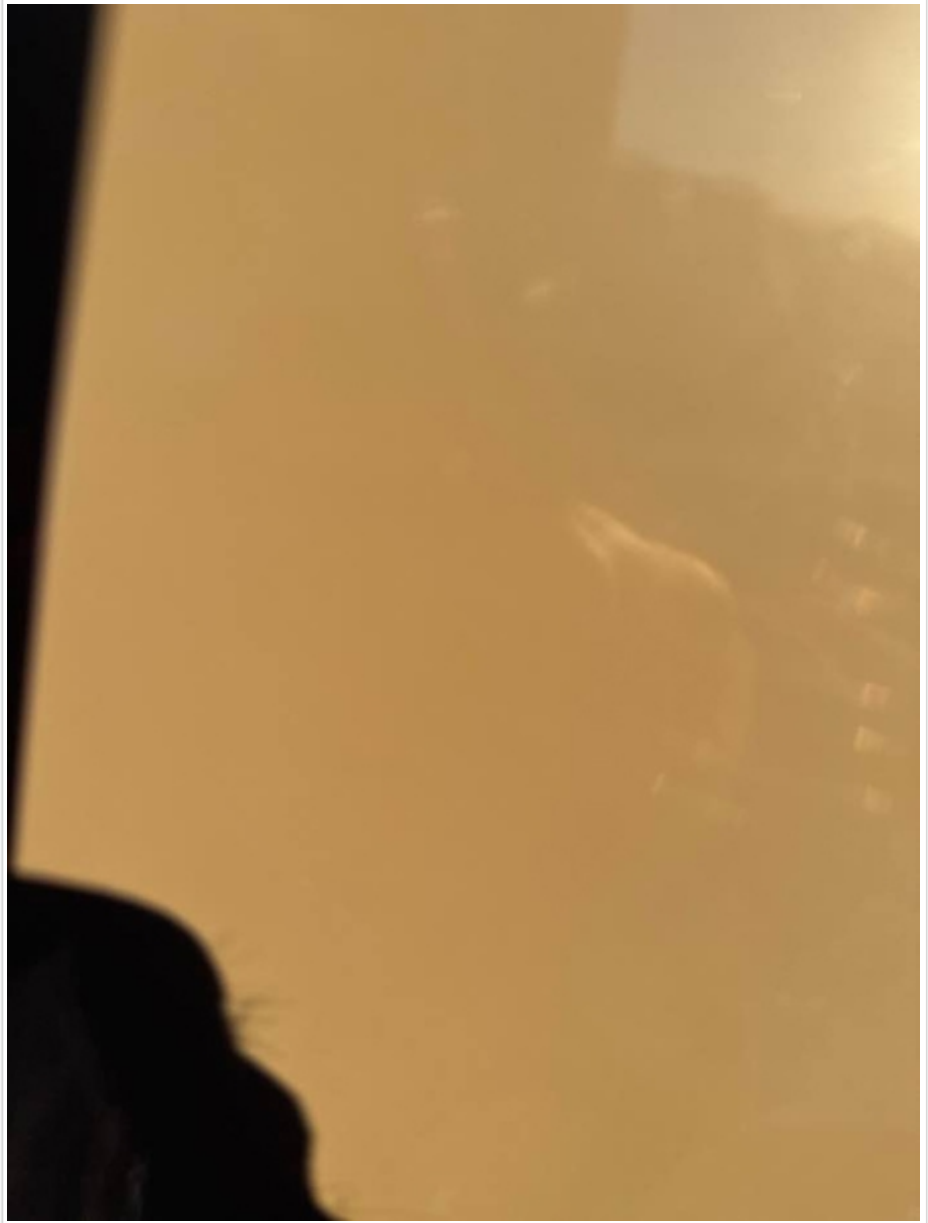

39.925157, -82.879005

Where is the RTU located on site?	ROOF
Type of RTU	Other
Other Type of RTU	YORK
Take a photo of the HVAC RTU controller display - showing the MAC Address you entered	
Take a photo of the HVAC RTU controller display - showing the BAUD rate you entered	
Take a photo of the HVAC RTU controller display - showing the BAS Protocol you picked	

HVAC Post-Install Survey

Take a photo of the HVAC RTU controller - showing the BAS terminals wired with 3 wires distinctively colored	
Take a photo of the BACnet router - showing the COM1 terminals with 3 wires distinctively colored	
Take a photo of the BACnet router - showing the Ethernet port's 2 LEDs illuminated	
Take a photo of the BACnet router - showing the power terminals connected to the DC power supply	
Take a photo of the BACnet router - showing the 6 front LEDs illuminated	
Take a photo of the BACnet router - showing the label printed by Budderfly	
Take a photo of the Network Switch in Budderfly's network enclosure - showing the Ethernet port connected to the BACnet router from the other end of the cable	
Take a photo of the ethernet cable plugged into the Lennox Controller	
Take a photo of the ethernet cable plugged into the Budderfly Network Switch	
A Photo of the Lennox Controller after successful connection and the WIFI LED is steady green	
Instruction	The remaining questions require you uploading screenshots from the core controller app. You need screens for the "Network Setup Option" and the following parameters: Network, Device Instance, Control Mode, IP Configuration, Remote Service Access.
Take a screenshot of the core controller app after you pair the RTU successfully	
Take a screenshot of the core controller app (Network Setup) - "Network Setup Option"	
Take a screenshot of the core controller app (Network Setup) - "Network" parameter	
Take a screenshot of the core controller app (Network Setup) - "Device Instance" parameter	
Take a screenshot of the core controller app (Network Setup) - "Control Mode" parameter	

HVAC Post-Install Survey

<p>Take a screenshot of the core controller app (Network Setup) - "IP Configuration" parameter</p>	
<p>Take a screenshot of the core controller app (Network Setup) - "Remote Service Access" parameter</p>	
<p>Instruction</p>	<p>We need clear indication that the cable was run for each HVAC unit. If there are 4 HVAC units then 4 cables are to be run and pics of each cable needs to be included in the survey.</p>
<p>Please provide pics of the Ethernet cable run from the connectivity switch to the HVAC unit(s)</p>	
	<p> 39.925162, -82.879004</p>

HVAC Post-Install Survey

Please contact the Budderfly Support team at 475-270-4895 with any issues during install and for validating that a proper checkout has been completed.

Post-Install Unit Overview #2

Post Install HVAC Unit Details

equipment_type	HVAC
Type of unit?	Packaged Unit
Unit Location	South
Area Served	Kitchen
Manufacturer	YORK
Model #	AW15N3BQ2S1CPP31B3
Serial #	N2M4075920
Enter the tonnage of the unit	15.00

HVAC Post-Install Survey

Please take a picture of the replaced unit's nameplate



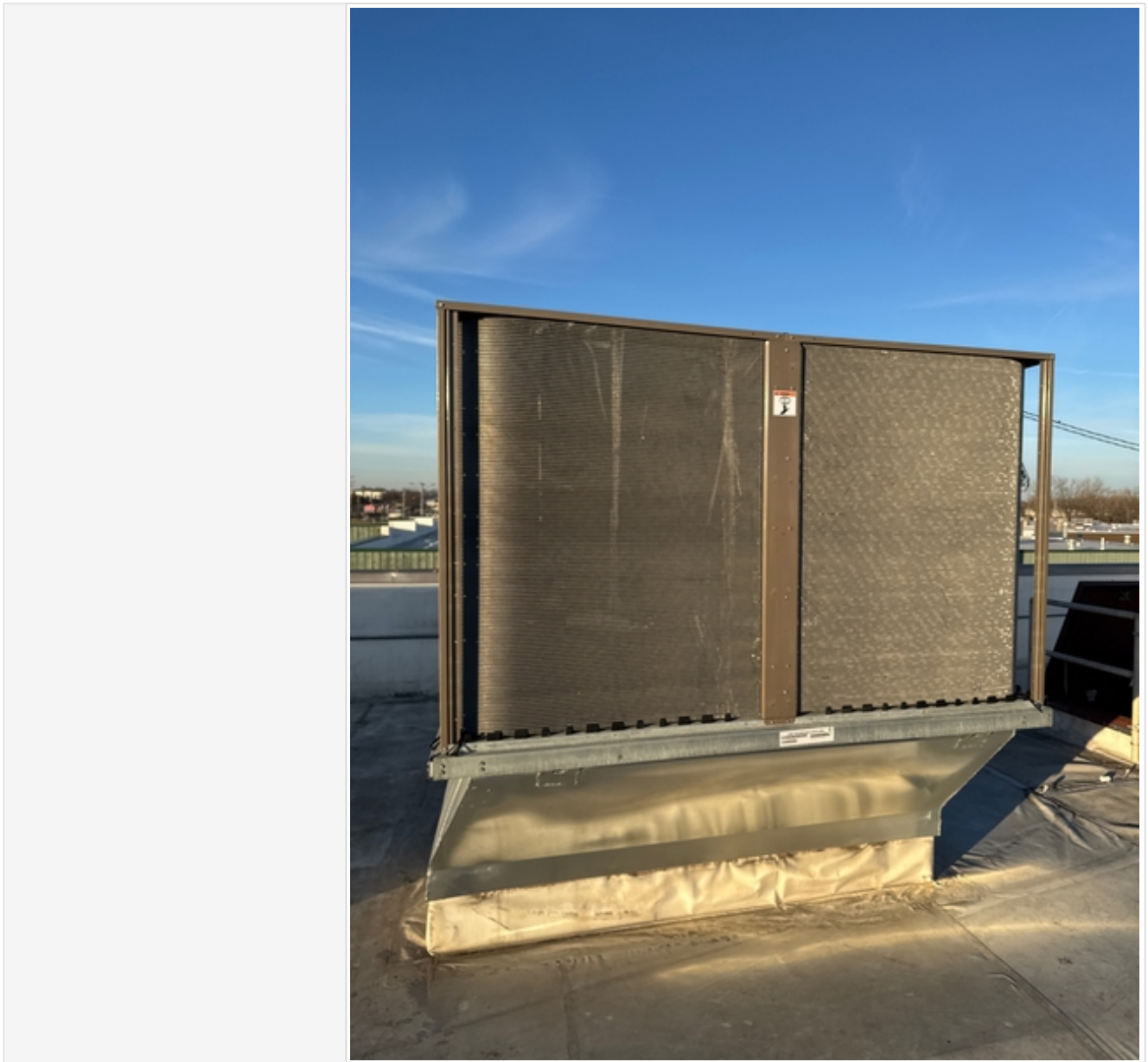
	39.925177, -82.878862 01-28-2025 04:56 PM
Replaced Unit Manufacturer	YORK
Replaced Unit Model	AW15N3BQ2S1CPP31B3
Replaced Unit Serial Number	N2M4075920
Replaced Unit Tonnage	15.00
Side pictures instructions:	Provided at least two pictures of the unit from opposite ends. The pictures should show: <ol style="list-style-type: none"> 1. Electrical disconnect and conduit 2. Gas piping 3. Economizer installed

HVAC Post-Install Survey

Please take a picture of unit from each side



HVAC Post-Install Survey



HVAC Post-Install Survey



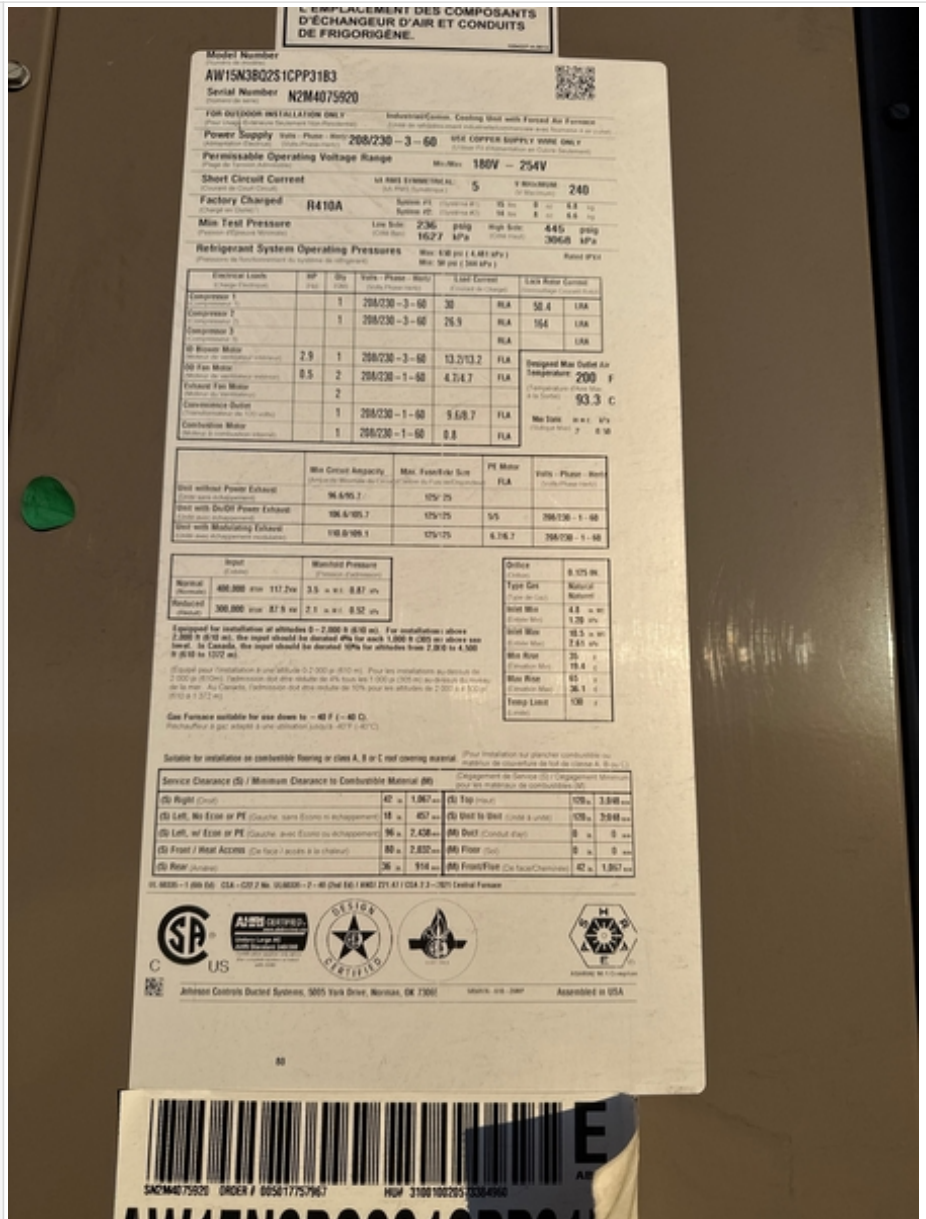
HVAC Post-Install Survey



20 39.925183, -82.878846

HVAC Post-Install Survey

Please take a picture of the new unit's nameplate with location served written on it



21 39.925187, -82.878853

01-28-2025 04:58 PM

HVAC Post-Install Survey

Photo of smoke detector to confirm smoke detector has been moved from shipping position



 39.925183, -82.878867

HVAC Post-Install Survey

Photo of each unit secured to curb



 39.925182, -82.878888

HVAC Post-Install Survey

Photo of condensate trap



24 39.925171, -82.878829


HVAC Post-Install Survey

<p>Photo of ethernet drop</p>	
	<p> 39.925189, -82.878856</p>
<p>Thermostat pictures instructions:</p>	<p>Take 2 pictures of the thermostat 1. Take a picture of the wiring to the baseplate 2. Take a picture of the thermostat installed on the wall</p>

HVAC Post-Install Survey

Please take a picture of the unit's thermostat wiring




 39.925283, -82.878920

HVAC Post-Install Survey

Please take a picture of the unit's thermostat screen showing blue Wi-Fi symbol and physical labeling



 39.925170, -82.878904

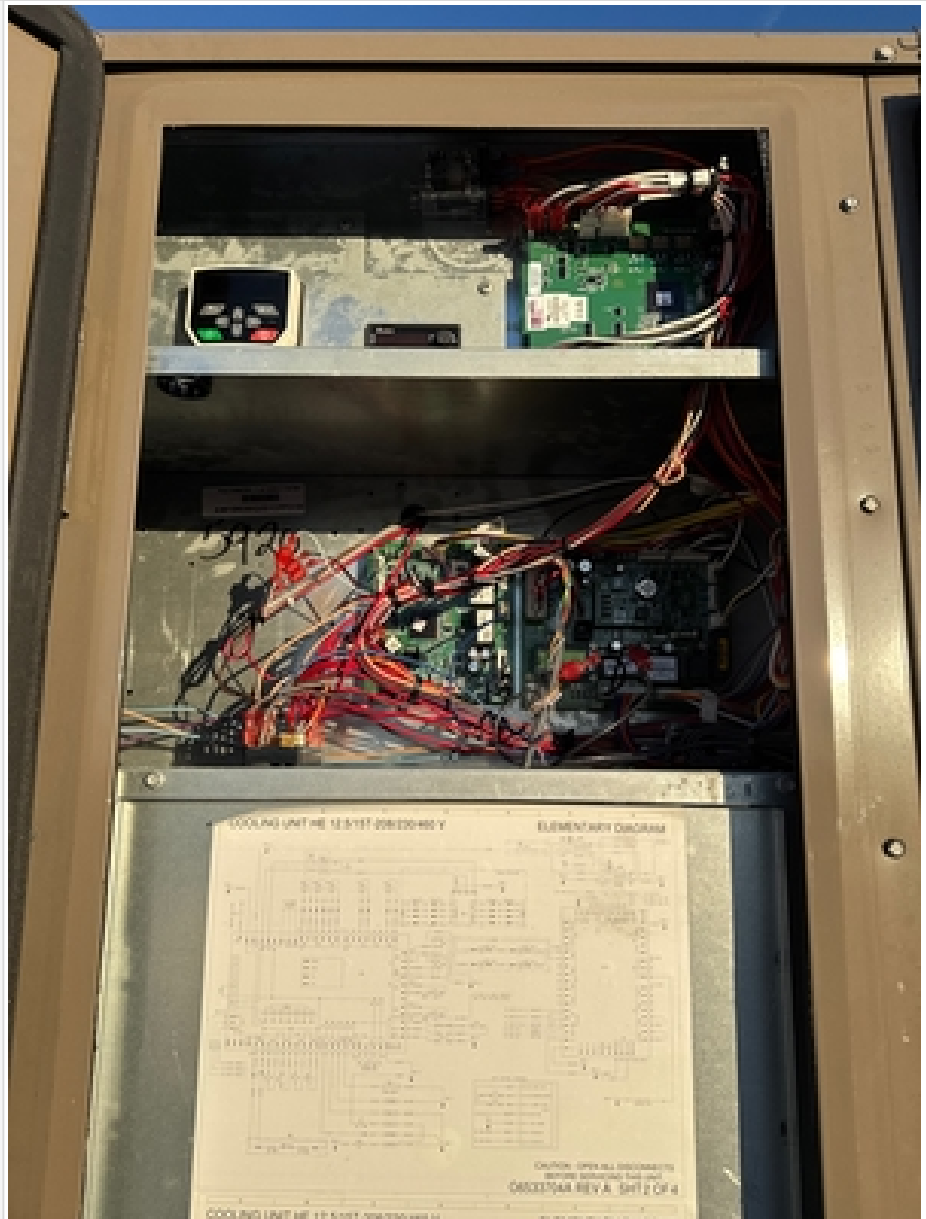
Controller pictures instructions:

Take 3 pictures of different controller screens to prove proper configuration. These are to include:

1. Thermostat control (Adaptive TSTAT disabled).
2. Minimum outside air position
3. Fan speed setups



HVAC Post-Install Survey

Add pictures or screenshots of controller configuration screens



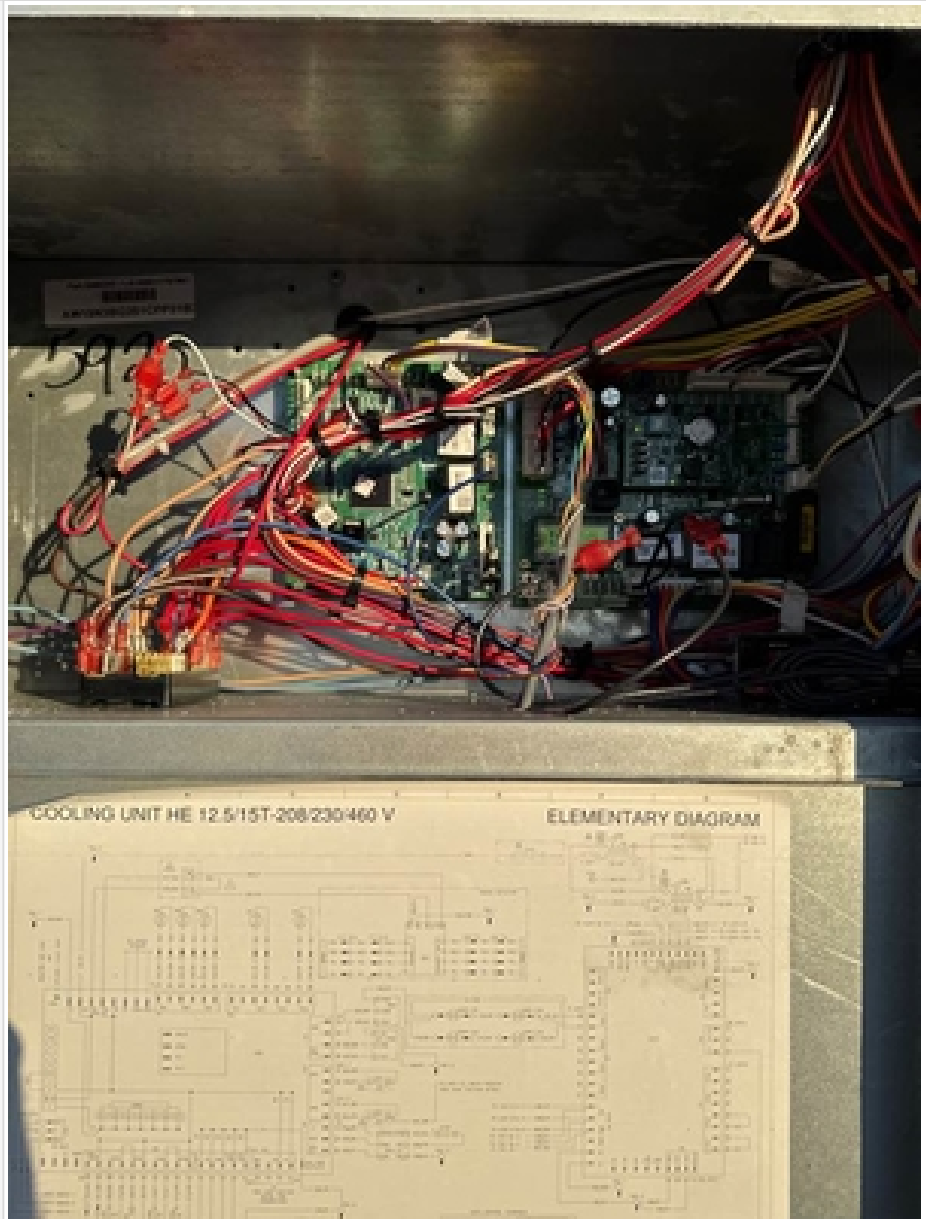
28 39.925191, -82.878856

HVAC Post-Install Survey

<p>Add picture of physical economizer installation and economizer configurations in controller</p>	
	<p> 39.925197, -82.878845</p>
<p>Describe condition of make-up air unit(s) and exhaust fan(s) on-site. Do any appear to need maintenance?</p>	
<p>Pre Start Up Checklist</p>	<p>Pre Start Up Checklist</p>
<p>Verify that the coiled Ethernet cable exists inside the HVAC unit</p>	<p>Yes</p>

HVAC Post-Install Survey

Please take a picture of the coiled Ethernet cable inside the HVAC unit





 39.925187, -82.878856

Verify the cable has been dropped through the roof and into the ceiling of location

Yes

HVAC Post-Install Survey

<p>Please take a picture of the cable dropped through the roof and into the ceiling of location</p>	
	<p> 39.925188, -82.878865</p>
<p>Verify that all packaging materials have been removed from unit</p>	<p>Yes</p>
<p>Verify installation of outdoor air hood</p>	<p>Yes</p>
<p>Verify installation of flue exhaust and inlet hood (gas units only)</p>	<p>Yes</p>
<p>Verify that condensate connection is installed per installation instructions</p>	<p>Yes</p>
<p>Verify that all electrical connections and terminals are tight</p>	<p>Yes</p>


HVAC Post-Install Survey

Verify gas pressure to unit gas valve is within specified range (gas units only)	Yes
Check gas pipe for leaks (gas units only)	Yes
Check that indoor air filters are clean and in place	Yes
Check that outdoor air inlet screens are in place	Yes
Verify that unit is level	Yes
Check outdoor fan propeller for location in housing/orifice and verify setscrew is tight	Yes
Verify that scroll compressors are rotating in the correct direction	Yes
Verify installation of thermostat/space sensor	Yes
Verify configuration values for electronic controls (based on Control set up checklist)	Yes
Verify that crankcase heaters have been energized for at least 24 hours	Yes
Verify convenience outlet is wired	Yes
Verify transformer tabs incorrect location. Voltage across RC should be between 25-27 Volts	Yes
Verify economizer moves freely without binding on wires or filters rack	Yes
Verify fan and blower set screws tightened and built aligned	Yes

HVAC Post-Install Survey

Please take photos of completed back of manual warranty sheets (note electrical values below can be taken from this)



 39.925195, -82.878867

Start Up - Electrical	Start Up - Electrical
Supply Voltage L1-L2	208.00
Supply Voltage L2-L3	207.00
Supply Voltage L3-L1	206.00
Compressor Amps Speed 1 - 2500 rpm L1	30.00
Compressor Amps Speed 1 - 2500 rpm L2	26.90
Compressor Amps Speed 1 - 2500 rpm L3	26.80

HVAC Post-Install Survey


Compressor Amps Speed 2 - 4500 rpm L1	
Compressor Amps Speed 2 - 4500 rpm L2	
Compressor Amps Speed 2 - 4500 rpm L3	
Electric Heat Amps L1 (if applicable)	
Electric Heat Amps L2 (if applicable)	
Electric Heat Amps L3 (if applicable)	
Supply Fan Amps at Max Speed L1	5.80
Supply Fan Amps at Max Speed L2	5.70
Supply Fan Amps at Max Speed L3	5.70
Start Up Temperatures	Start Up Temperatures
Outdoor Air Temperature F Dry Bulb	33.00
Return Air Temperature F Dry Bulb	70.00
Cooling Supply Air Temperature F Dry Bulb (Ideal differential 20F (+/- 5F))	50.00
Gas Heat Supply Air Temperature F (if applicable) (Ideal differential 20F (+/- 5F))	117.00
Electric Heat Supply Air Temperature F (if applicable) (Ideal differential 20F (+/- 5F))	0.00
Start Up Pressures	Start Up Pressures
Gas Inlet Pressure (in wg)	13.00
Gas Manifold Pressure Stage 1 (in wg)	3.50
Gas Manifold Pressure Stage 2 (in wg)	
Refrigeration Suction Circuit A (psig)	223.00
Refrigeration Suction Circuit A Superheat deg F	13.00
Refrigeration Discharge Circuit A (psig)	384.00
Refrigeration Discharge Circuit A Subcooling deg F	17.00

HVAC Post-Install Survey

Verify refrigerant charge using charging charts	Yes
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Post-Install Unit Air Flow #2

Section 1

Is the economizer fully operational?	Yes
	 39.925191, -82.878890
Outside air intake damper minimum position: (Target: X> 5%)	4

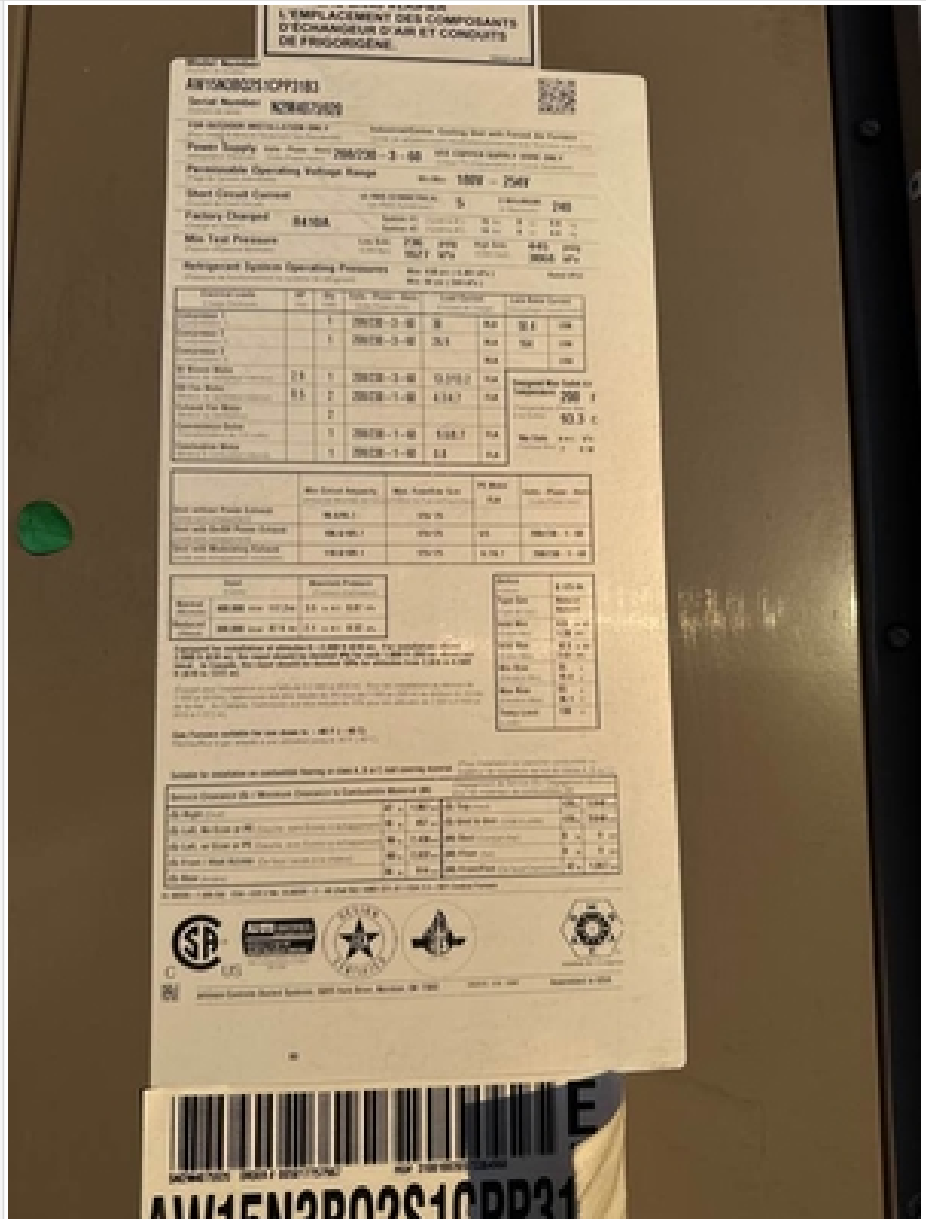
Post-Install Unit Connectivity #2

RTU Post Install Survey

HVAC Serial Number	N2M4075920
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HVAC Post-Install Survey

Take a photo of the HVAC nameplate



34 39.925194, -82.878865

01-28-2025 05:07 PM

Area served by HVAC

KITCHEN

HVAC Post-Install Survey

Take a photo of the RTU number (It may be handwritten on the RTU or on a decal/sticker)



39.925185, -82.878866

Where is the RTU located on site? ROOF

Type of RTU Other

Other Type of RTU YORK

Take a photo of the HVAC RTU controller display - showing the MAC Address you entered



Take a photo of the HVAC RTU controller display - showing the BAUD rate you entered

Take a photo of the HVAC RTU controller display - showing the BAS Protocol you picked

HVAC Post-Install Survey

Take a photo of the HVAC RTU controller - showing the BAS terminals wired with 3 wires distinctively colored	
Take a photo of the BACnet router - showing the COM1 terminals with 3 wires distinctively colored	
Take a photo of the BACnet router - showing the Ethernet port's 2 LEDs illuminated	
Take a photo of the BACnet router - showing the power terminals connected to the DC power supply	
Take a photo of the BACnet router - showing the 6 front LEDs illuminated	
Take a photo of the BACnet router - showing the label printed by Budderfly	
Take a photo of the Network Switch in Budderfly's network enclosure - showing the Ethernet port connected to the BACnet router from the other end of the cable	
Take a photo of the ethernet cable plugged into the Lennox Controller	
Take a photo of the ethernet cable plugged into the Budderfly Network Switch	
A Photo of the Lennox Controller after successful connection and the WIFI LED is steady green	
Instruction	The remaining questions require you uploading screenshots from the core controller app. You need screens for the "Network Setup Option" and the following parameters: Network, Device Instance, Control Mode, IP Configuration, Remote Service Access.
Take a screenshot of the core controller app after you pair the RTU successfully	
Take a screenshot of the core controller app (Network Setup) - "Network Setup Option"	
Take a screenshot of the core controller app (Network Setup) - "Network" parameter	
Take a screenshot of the core controller app (Network Setup) - "Device Instance" parameter	
Take a screenshot of the core controller app (Network Setup) - "Control Mode" parameter	

HVAC Post-Install Survey

<p>Take a screenshot of the core controller app (Network Setup) - "IP Configuration" parameter</p>	
<p>Take a screenshot of the core controller app (Network Setup) - "Remote Service Access" parameter</p>	
<p>Instruction</p>	<p>We need clear indication that the cable was run for each HVAC unit. If there are 4 HVAC units then 4 cables are to be run and pics of each cable needs to be included in the survey.</p>
<p>Please provide pics of the Ethernet cable run from the connectivity switch to the HVAC unit(s)</p>	
	<p> 39.925196, -82.878905</p>

HVAC Post-Install Survey

Please contact the Budderfly Support team at 475-270-4895 with any issues during install and for validating that a proper checkout has been completed.

Post-Install Unit Overview #3


Post Install HVAC Unit Details

equipment_type	HVAC
Type of unit?	Packaged Unit
Unit Location	South-West
Area Served	Kitchen
Manufacturer	LENNOX
Model #	LGM060U4EX1Y
Serial #	5623J02525
Enter the tonnage of the unit	5.00

HVAC Post-Install Survey

Please take a picture of the replaced unit's nameplate



	 39.925135, -82.878803 01-28-2025 05:28 PM
Replaced Unit Manufacturer	LENNOX
Replaced Unit Model	LGM060U4EX1Y
Replaced Unit Serial Number	5623J02525
Replaced Unit Tonnage	5.00
Side pictures instructions:	Provided at least two pictures of the unit from opposite ends. The pictures should show: <ol style="list-style-type: none"> 1. Electrical disconnect and conduit 2. Gas piping 3. Economizer installed

HVAC Post-Install Survey

Please take a picture of unit from each side



HVAC Post-Install Survey



HVAC Post-Install Survey



HVAC Post-Install Survey



HVAC Post-Install Survey



38 39.925123, -82.878803

HVAC Post-Install Survey

Please take a picture of the new unit's nameplate with location served written on it



39 39.925120, -82.878809

01-28-2025 05:30 PM

HVAC Post-Install Survey

Photo of smoke detector to confirm smoke detector has been moved from shipping position



 39.925136, -82.878788

HVAC Post-Install Survey

Photo of each unit secured to curb



 39.925114, -82.878800

HVAC Post-Install Survey

Photo of condensate trap



42 39.925139, -82.878811

HVAC Post-Install Survey

Photo of ethernet drop



43 39.925132, -82.878816


Thermostat pictures instructions:

- Take 2 pictures of the thermostat
1. Take a picture of the wiring to the baseplate
 2. Take a picture of the thermostat installed on the wall

HVAC Post-Install Survey

Please take a picture of the unit's thermostat wiring



 39.925086, -82.878794

HVAC Post-Install Survey

Please take a picture of the unit's thermostat screen showing blue Wi-Fi symbol and physical labeling



45 39.925088, -82.878814

Controller pictures instructions:

Take 3 pictures of different controller screens to prove proper configuration. These are to include:

1. Thermostat control (Adaptive TSTAT disabled).
2. Minimum outside air position
3. Fan speed setups

HVAC Post-Install Survey

Add pictures or screenshots of controller configuration screens



39.925135, -82.878812

HVAC Post-Install Survey

Add picture of physical economizer installation and economizer configurations in controller



 39.925129, -82.878779

Describe condition of make-up air unit(s) and exhaust fan(s) on-site. Do any appear to need maintenance?

Pre Start Up Checklist

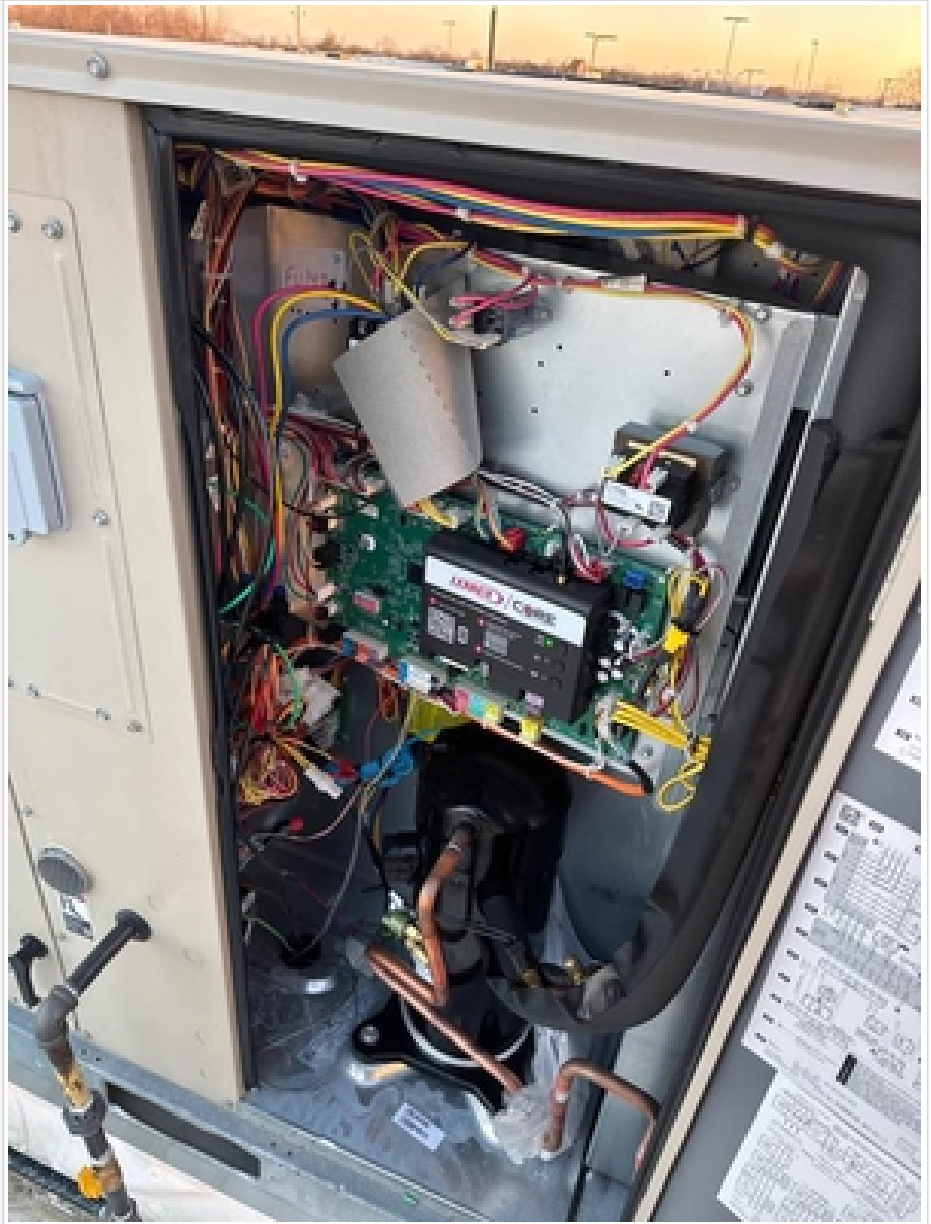
Pre Start Up Checklist

Verify that the coiled Ethernet cable exists inside the HVAC unit

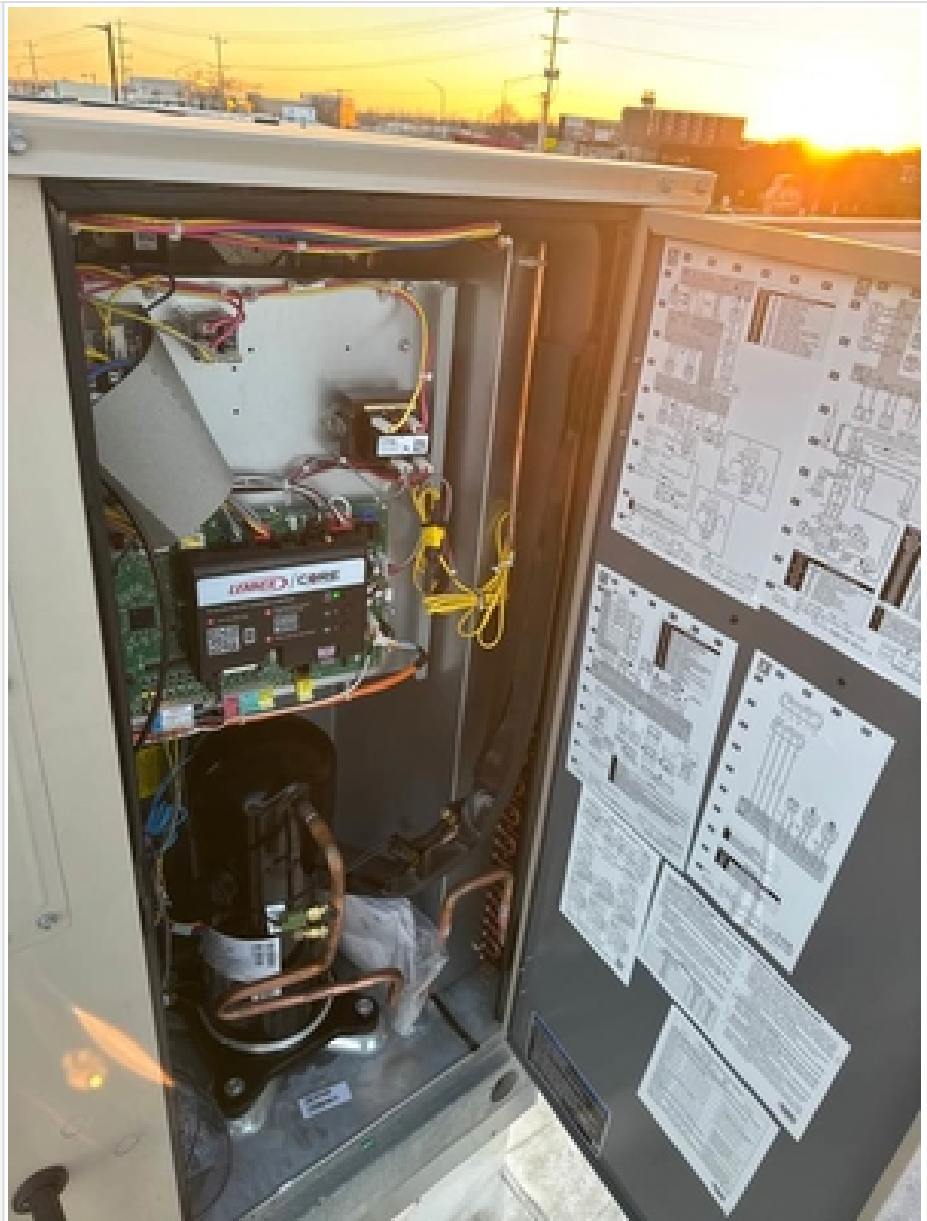
Yes

HVAC Post-Install Survey

Please take a picture of the coiled Ethernet cable inside the HVAC unit



HVAC Post-Install Survey





 39.925138, -82.878817

Verify the cable has been dropped through the roof and into the ceiling of location

Yes

HVAC Post-Install Survey

<p>Please take a picture of the cable dropped through the roof and into the ceiling of location</p>	
	<p> 39.925134, -82.878809</p>
<p>Verify that all packaging materials have been removed from unit</p>	<p>Yes</p>
<p>Verify installation of outdoor air hood</p>	<p>Yes</p>
<p>Verify installation of flue exhaust and inlet hood (gas units only)</p>	<p>Yes</p>
<p>Verify that condensate connection is installed per installation instructions</p>	<p>Yes</p>
<p>Verify that all electrical connections and terminals are tight</p>	<p>Yes</p>

HVAC Post-Install Survey

Verify gas pressure to unit gas valve is within specified range (gas units only)	Yes
Check gas pipe for leaks (gas units only)	Yes
Check that indoor air filters are clean and in place	Yes
Check that outdoor air inlet screens are in place	Yes
Verify that unit is level	Yes
Check outdoor fan propeller for location in housing/orifice and verify setscrew is tight	Yes
Verify that scroll compressors are rotating in the correct direction	Yes
Verify installation of thermostat/space sensor	Yes
Verify configuration values for electronic controls (based on Control set up checklist)	Yes
Verify that crankcase heaters have been energized for at least 24 hours	Yes
Verify convenience outlet is wired	Yes
Verify transformer tabs incorrect location. Voltage across RC should be between 25-27 Volts	Yes
Verify economizer moves freely without binding on wires or filters rack	Yes
Verify fan and blower set screws tightened and built aligned	Yes

HVAC Post-Install Survey

Please take photos of completed back of manual warranty sheets (note electrical values below can be taken from this)



 39.925127, -82.878808

Start Up - Electrical	Start Up - Electrical
Supply Voltage L1-L2	212.00
Supply Voltage L2-L3	212.00
Supply Voltage L3-L1	209.00
Compressor Amps Speed 1 - 2500 rpm L1	12.50
Compressor Amps Speed 1 - 2500 rpm L2	12.50
Compressor Amps Speed 1 - 2500 rpm L3	12.60

HVAC Post-Install Survey


Compressor Amps Speed 2 - 4500 rpm L1	
Compressor Amps Speed 2 - 4500 rpm L2	
Compressor Amps Speed 2 - 4500 rpm L3	
Electric Heat Amps L1 (if applicable)	
Electric Heat Amps L2 (if applicable)	
Electric Heat Amps L3 (if applicable)	
Supply Fan Amps at Max Speed L1	3.50
Supply Fan Amps at Max Speed L2	3.50
Supply Fan Amps at Max Speed L3	3.40
Start Up Temperatures	Start Up Temperatures
Outdoor Air Temperature F Dry Bulb	33.00
Return Air Temperature F Dry Bulb	70.00
Cooling Supply Air Temperature F Dry Bulb (Ideal differential 20F (+/- 5F))	50.00
Gas Heat Supply Air Temperature F (if applicable) (Ideal differential 20F (+/- 5F))	117.00
Electric Heat Supply Air Temperature F (if applicable) (Ideal differential 20F (+/- 5F))	0.00
Start Up Pressures	Start Up Pressures
Gas Inlet Pressure (in wg)	10.00
Gas Manifold Pressure Stage 1 (in wg)	1.50
Gas Manifold Pressure Stage 2 (in wg)	3.50
Refrigeration Suction Circuit A (psig)	130.00
Refrigeration Suction Circuit A Superheat deg F	15.00
Refrigeration Discharge Circuit A (psig)	212.00
Refrigeration Discharge Circuit A Subcooling deg F	10.00

HVAC Post-Install Survey

Verify refrigerant charge using charging charts	Yes
---	-----

Post-Install Unit Air Flow #3

Section 1

Is the economizer fully operational?	Yes
	 39.925127, -82.878804
Outside air intake damper minimum position: (Target: X> 5%)	4

Post-Install Unit Connectivity #3

RTU Post Install Survey

HVAC Serial Number	5623J02525
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HVAC Post-Install Survey

<p>Take a photo of the HVAC nameplate</p>		
	<p> 39.925108, -82.878784</p>	<p>01-28-2025 05:39 PM</p>
<p>Area served by HVAC</p>	<p>KITCHEN</p>	

HVAC Post-Install Survey

Take a photo of the RTU number
(It may be handwritten on the RTU
or on a decal/sticker)



 39.925096, -82.878790

Where is the RTU located on site?	ROOF
Type of RTU	Lennox RTU
Other Type of RTU	
Take a photo of the HVAC RTU controller display - showing the MAC Address you entered	
Take a photo of the HVAC RTU controller display - showing the BAUD rate you entered	
Take a photo of the HVAC RTU controller display - showing the BAS Protocol you picked	

HVAC Post-Install Survey

Take a photo of the HVAC RTU controller - showing the BAS terminals wired with 3 wires distinctively colored	
Take a photo of the BACnet router - showing the COM1 terminals with 3 wires distinctively colored	
Take a photo of the BACnet router - showing the Ethernet port's 2 LEDs illuminated	
Take a photo of the BACnet router - showing the power terminals connected to the DC power supply	
Take a photo of the BACnet router - showing the 6 front LEDs illuminated	
Take a photo of the BACnet router - showing the label printed by Budderfly	
Take a photo of the Network Switch in Budderfly's network enclosure - showing the Ethernet port connected to the BACnet router from the other end of the cable	
Take a photo of the ethernet cable plugged into the Lennox Controller	
Take a photo of the ethernet cable plugged into the Budderfly Network Switch	
A Photo of the Lennox Controller after successful connection and the WIFI LED is steady green	
Instruction	The remaining questions require you uploading screenshots from the core controller app. You need screens for the "Network Setup Option" and the following parameters: Network, Device Instance, Control Mode, IP Configuration, Remote Service Access.
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HVAC Post-Install Survey

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Please contact the Budderfly Support team at 475-270-4895 with any issues during install and for validating that a proper checkout has been completed.	

Signature

Instruction	Please walk through the work area and explain to the Manager on Duty the work that was performed. Afterward, have the Manager on Duty sign off
Warning	Manager on Duty: Sign off with your full name only after the Budderfly technician has walked you through the work performed.
Date	01-28-2025
MOD/Customer Representative Signature of Approval	MARIA VELLO
	01-28-2025 05:45 PM

HVAC Post-Install Survey

Form Locations

