Asset ID: _____

Walgreens HVAC
START-UP & SERVICE DATA INSTRUCTION

COMMERCIAL PACKAGE UNITS
3.0 To 40.0 TONS

START-UP CHECKLIST

Date: 12/18/24

Customer Name: Walgreens 17919

Address: 1900 Cameron St

City: Raleigh State: NC Zip: 27605

Model Number: NL090C00B4BAA2 Serial Number: N2K4818434

Qualified Start-up Technician: Jeremy Riggs Signature: Jeremy Riggs

HVAC Contractor: AES Mechanical Services Group, INC

Address: 2171 AL HWY 229 S Tallassee, AL 36078 Phone: 334-252-0380

Contractor's E-mail Address: chase.edge@aesmech.com

WARRANTY STATEMENT

Johnson Controls/UPG is confident that this equipment will operate to the owner's satisfaction if the proper procedures are followed and checks are made at initial start-up. This confidence is supported by the 30 day dealer protection coverage portion of our standard warranty policy which states that Johnson Controls/UPG will cover parts and labor on new equipment start-up failures that are caused by a defect in factory workmanship or material, for a period of 30 days from installation. Refer to current standard warranty policy and warranty manual found on UPGnet for details.

In the event that communication with Johnson Controls/UPG is required regarding technical and/or warranty concerns, all parties to the discussion should have a copy of the equipment start-up sheet for reference. A copy of the original start-up sheet should be filed with the Technical Services Department.

The packaged unit is available in constant or variable air volume versions with a large variety of custom options and accessories available. Therefore, some variation in the startup procedure will exist depending upon the products capacity, control system, options and accessories installed.

This start-up sheet covers all startup check points common to all package equipment. In addition it covers essential startup check points for a number of common installation options. Depending upon the particular unit being started not all sections of this startup sheet will apply. Complete those sections applicable and use the notes section to record any additional information pertinent to your particular installation.

Warranty claims are to be made through the distributor from whom the equipment was purchased.

EQUIPMENT STARTUP

Simplicity PC is required to complete the start-up. Simplicity PC software can be downloaded from www.york.com.

A copy of the completed start-up sheet should be kept on file by the distributor providing the equipment and a copy sent to:

Johnson Controls/UPG
Technical Services Department
5005 York Drive
Norman, OK 73069

YES OR NO

QC Checks _____

Accessories installed _____

Float switch installed _____

Costgards Prepped, Kit inside Cabinet _____

REFERENCE

General Inspection	Completed	See Notes
Unit inspected for shipping, storage, or rigging damage	☑	☐
Unit installed with proper clearances	☑	☐
Unit installed within slope limitations	☑	☐
Refrigeration system checked for gross leaks (presence of oil)	☑	☐
Terminal screws and wiring connections checked for tightness	☑	☐
Filters installed correctly and clean	☑	☐
Economizer hoods installed in operating position	☑	☐
Condensate drain trapped properly, refer to Installation Manual	☐	☐
Economizer damper linkage tight	☑	☐
Gas Heat vent hood installed	☐	☐
All field wiring (power and control) complete	☐	☐
	☑	☐

Air Moving Inspection	Completed	See Notes
Alignment of drive components	☑	☐
Belt tension adjusted properly	☑	☐
Blower pulleys tight on shaft, bearing set screws tight, wheel tight to shaft	☑	☐
Pressure switch or transducer tubing installed properly	☐	☐

Exhaust Inspection Powered ☐ Barometric Relief ☐	Completed	See Notes
Check hub for tightness	☐	☐
Check fan blade for clearance	☐	☐
Check for proper rotation	☐	☐
Check for proper mounting (screen faces towards unit)	☐	☐
Prove operation by increasing minimum setting on economizer	☐	☐

Economizer Inspection Standard ☐ BAS ☐	Completed	See Notes
CO_2 sensor installed: Yes ☐ No ☐	☐	☐
Check economizer setting A ☐ B ☐ C ☐ D ☐	☐	☐
Prove economizer open/close through PC or Control Module	☐	☐

Reheat Mode Normal ☐ or Alternate ☐ Not Applicable ☑

Humidistat Location _____

Note: BAS System Control Reheat through Intellicomfort/VAV Board

Blower Information

Blower Motor HP 1.5 FLA 2.1 RPM 862

Pulley Pitch Diameter 4 Turns Out _____ Final Turns Out _____

Blower Pulley Pitch Diameter 8 Fixed Sheave ✓

ELECTRICAL DATA

T1 - T2 460 Volts

Control Voltage 24 Volts

T2 - T3 460 Volts

T1 - T3 459 Volts

Device	Nameplate	Measured List All Three Amperages
Supply Fan Motor[1, 2]	2.1 AMPS	1.9, 2.0, 1.9 AMPS
Exhaust Motor (Dampers 100%)	AMPS	AMPS
Condenser Fan #1	1.2 AMPS	.9, 1.0, AMPS
Condenser Fan #2 (if equipped)	AMPS	AMPS
Condenser Fan #3 (if equipped)	AMPS	AMPS
Condenser Fan #4 (if equipped)	AMPS	AMPS
Compressor #1	12.2 AMPS	11.6, 11.8, 11.7 AMPS
Compressor #2 (if equipped)	AMPS	AMPS
Compressor #3 (if equipped)	AMPS	AMPS
Compressor #4 (if equipped)	AMPS	AMPS

1. VAV units with heat section - simulate heat call to drive VAV boxes and VFD IGV to maximum design airflow position.
2. VAV units without heat section - VAV boxes must be set to maximum design airflow position

OPERATIONAL MEASUREMENTS - STAGING CONTROLS

Verify Proper Operation of Heating/Cooling Staging Controls

Create a cooling demand at the Thermostat, BAS System or Simplicity PC Verify that cooling/economizer stages are energized.	☑
Create a heating demand at the Thermostat, BAS System or Simplicity PC Verify that heating stages are energized.	☑

Verify Proper Operation of the Variable Frequency Drive (If Required)

Verify that motor speed modulates with duct pressure change.	☑

FINAL - INSPECTION

Verify that all operational control set points have been set to desired value Scroll through all setpoints and change as may be necessary to suit the occupant requirements.	☑
Verify that all option parameters are correct Scroll through all option parameters and ensure that all installed options are enabled in the software and all others are disabled in the software. (Factory software settings should match the installed options)	☐
Verify that all access panels have been closed and secured	☑

OBSERVED PRODUCT DIFFICIENCIES & CONCERNS:

OPERATING MEASUREMENTS - COOLING

Stage	Discharge Pressure	Discharge Temp.	Liquid Line Temp.[1]	Subcooling[2]	Suction Pressure	Suction Temp.	Superheat
First	358 #	135 °	139 °	5 °	95 #	48 °	20 °
Second (if equipped)	#	°	°	°	#	°	°
Third (if equipped)	#	°	°	°	#	°	°
Fourth (if equipped)	#	°	°	°	#	°	°
Reheat 1st Stage	#	°	°	°	#	°	°

1. Liquid temperature should be taken before filter/drier.
2. Subtract 10 psi from discharge pressure for estimated liquid line pressure

Outside air temperature	69 °F db	53 °F wb	20% %RH
Return Air Temperature	71 °F db	58 °F wb	35% %RH
Mixed Air Temperature	°F db	°F wb	%RH
Supply Air Temperature	50 °F db	36 °F wb	30% %RH

REFRIGERANT SAFETIES

Action	Completed	See Notes
Prove Compressor Rotation (3 phase only) by gauge pressure	☐	☐
Prove High Pressure Safety, All Systems	☑	☐
Prove Low Pressure Safety, All Systems	☑	☐
	☑	☐

OPERATING MEASUREMENTS - GAS HEATING

Fuel Type: ☐ Natural Gas Split H.P. w/ elect. Heat ☐ LP Gas

Action		Completed	See Notes
Check for gas leaks		☐	☐
Prove Ventor Motor Operation		☐	☐
Prove Primary Safety Operation		☐	☐
Prove Auxiliary Safety Operation		☐	☐
Prove Rollout Switch Operation		☐	☐
Prove Smoke Detector Operation		☐	☐
Manifold Pressure	Stage 1	IWC	☐
	Stage 2 (If Equipped)	IWC	☐
	Stage 3 (If Equipped)	IWC	☐
Supply gas pressure at full fire		IWC	☐
Check temperature rise[1]	☐ measured at full fire	°F	☐

1. Input X Eff. (BTU output) / 1.08 X Temp. Rise