RTU-1

DAIKIN

Rooftop
Equipment Warranty Registration Form

To comply with the terms of Daikin Applied Warranty, complete and return this form within 10 days to the Warranty Department of Daikin Applied.

Check, test, and start procedure for Rooftop roof mounted air conditioners with or without heat recovery and roof mounted air handlers.

GENERAL INFORMATION

Job Name: Bridgeport Rescue Mission
Unit No.:
SOI No.: 305667
Installation address: 725 Park Ave
City: Bridgeport
State: CT
Purchasing contractor: Eastern Mechanical
City: Danbury
State: CT
Name of person doing start-up: Rob Tranquist
Company name: Swan Associates
Address: 49 Holly Drive
City/State/Zip: Newington, CT, 06111

UNIT INFORMATION

Unit model number: MPS040FG4DVICYBV-B
Unit serial number: FB0419Z00954
Compressor 1 model number: VZH088BGBN4
Serial number: GDZ5031Z0014
Compressor 2 model number: SH090A4HLC
Serial number: GDZ5031O6535
Compressor 3 model number: SH090A4ALC
Serial number: JHZ5040454l7
Compressor 4 model number: SH120A4ALC
Serial number: JHZ5040366l3
Compressor 5 model number:
Serial number:
Compressor 6 model number:
Serial number:

Select Yes or No. If not applicable to the type of unit, select N/A.

I. INITIAL CHECK

A. Is any shipping damage visible? . . . . . Yes (No) N/A

B. Are fan drives properly aligned and belts properly adjusted? . . . . . (Yes) No N/A

C. Tightened all setscrews on pulleys, bearings and fans? . . . . . (Yes) No N/A

D. Have the hold-down bolts been backed off on spring mounted fan isolators? . . . . . (Yes) No N/A

E. Do fans turn freely? . . . . . (Yes) No N/A

F. Has the discharge static pressure reference line been properly located within the building? . . . . . Yes (No) N/A

G. Electrical service corresponds to unit nameplate? . . . . . (Yes) No N/A

G1. Voltage at Terminal Block | Disconnect 1–2 483 V 2–3 482 V 1–3 481 V

H. Is the main disconnect adequately fused and are fuses installed? . . . . . Yes No (N/A)

I. Are crankcase heaters operating, and have they been operating 24 hours prior to start-up? . . . . . (Yes) No N/A

J. Are all electrical power connections tight? (Check compressorelectrical box.) . . . . . (Yes) No N/A

K. Is the condensate drain trapped? . . . . . (Yes) No N/A

II. FAN DATA

A. Check rotation of supply fan? . . . . . (Yes) No N/A

B. Voltage at supply fan motor: . . . . . 1–2 481 V 2–3 482 V 1–3 483 V

C. Supply fan motor amp draw per phase: L1 19 L2 18 L3 17.5

D. Fuse sizes: JKS-80

E. What is the supply fan rpm? . . . . . _____

F. Check rotation of return fan? . . . . . Yes No (N/A)

G. Voltage at return fan motor: . . . . . 1–2 _____ V 2–3 _____ V 1–3 _____ V

H. Return fan motor amp draw per phase: . . . . . L1 _____ L2 _____ L3 _____

I. Fuse sizes: . . . . . _____

J. What is the return fan rpm? . . . . . _____

K. Record supply static pressure at unit in inches of H_20: . . . . . _____

L. Record return static pressure at unit (with outside air dampers closed) in inches of H_20: . . . . . _____

N/A

DAIKIN Rooftop Equipment Warranty Registration Form (continued)

Select Yes or No. If not applicable to the type of unit, select N/A.

III. START-UP COMPRESSOR OPERATION

A. Do compressors have holding charges?

Circuit #1 . . . (Yes) No N/A

Circuit #2 . . . (Yes) No N/A

B. Are compressors rotating in the right direction? . . . (Yes) No N/A

C. Do condenser fans rotate in the right direction? . . . (Yes) No N/A

D. Ambient temperature (°F): . . . 61°F

E. Does unit start up and perform per sequence of operation? . . . (Yes) No N/A

IV. PERFORMANCE DATA

A. Compressor voltage across each phase: . . . 1–2 483 V 2–3 482 V 1–3 480 V

B. Compressor amperage of fully loaded compressor:
Compressor #1 — Phase 1 14 Phase 2 15 Phase 3 16
Compressor #2 — Phase 1 15 Phase 2 14 Phase 3 14
Compressor #3 — Phase 1 11 Phase 2 12 Phase 3 10
Compressor #4 — Phase 1 11.2 Phase 2 12 Phase 3 11
Compressor #5 — Phase 1 _____ Phase 2 _____ Phase 3 _____
Compressor #6 — Phase 1 _____ Phase 2 _____ Phase 3 _____

C. Low pressure cut-out: . . . Circuit 1 58 psig Circuit 2 60 psig

D. Low pressure cut-in: . . . Circuit 1 81 psig Circuit 2 82 psig

E. High pressure cut-out: . . . Circuit 1 652 psig Circuit 2 655 psig

F. Discharge pressure, one compressor: . . . Circuit 1 _____ psig Circuit 2 _____ psig

G. Discharge pressure, fully loaded, 2–3 compressors: . . . Circuit 1 380 psig Circuit 2 390 psig

H. Suction pressure, one compressor: . . . Circuit 1 115 psig Circuit 2 117 psig

I. Suction pressure, fully loaded, 2–3 compressors: . . . Circuit 1 130 psig Circuit 2 132 psig

J. Liquid press, fully loaded, 2–3 compressors (at liquid line shutoff valve): . . . Circuit 1 275 psig Circuit 2 280 psig

K. Liquid temperature, fully loaded, 2–3 compressors: . . . Circuit 1 78°F ~~psig~~ Circuit 2 80°F ~~psig~~

L. Suction line temperature: . . . 52 °F 54 °F

M. Superheat: . . . 8 °F 10 °F

N. Subcooling: . . . 10 °F 11 °F

O. Is the liquid in the line sightglass clear and dry? . . . (Yes) No N/A

P. Does the hot gas bypass valve function properly? . . . Yes No (N/A)

13F-4158 (06/17) 3

DAIKIN

Rooftop Equipment Warranty Registration Form (continued)

Select Yes or No. If not applicable to the type of unit, select N/A.

Q. At what suction pressure does the hot gas bypass valve open? . . . . . Circuit 1 _____ psig Circuit 2 _____ psig

R. Record discharge air temperature at discharge of unit: 56 °F

S. Are all control lines secure to prevent excessive vibration and wear? . . . . . (Yes) No N/A

T. Are all gauges shut off and valve caps and packings tight after start-up? . . . . . (Yes) No N/A

V. ELECTRIC HEAT CHECK, TEST & START

A. Electrical heat service corresponds to unit nameplate? . . . . . Yes No N/A

Volts _____ Hertz _____ Phase _____

B. Are there any signs of physical damage to the electric heat coils? . . . . . Yes No N/A

C. Have all electrical terminals been tightened? . . . . . Yes No N/A

D. Does sequence controller stage contactors properly? . . . . . Yes No N/A

E. Electric heater voltage across each phase: . . . . . _____ L1 _____ L2 _____ L3

F. Amp draw across each phase at each heating stage:

	Stage 1	Stage 2	Stage 3	Stage 4	Stage 5	Stage 6
Phase L1:						
Phase L2:						
Phase L3						

G. FLA: . . . . . L1 _____ L2 _____ L3 _____

H. Operate electric heat with fans off. Electric heat must cycle on high limit control . . . . . Yes No N/A

VI. GAS BURNER CHECK, TEST, & START

Specifications:
For gas, see Forced Draft Gas Burner Installation and Maintenance Bulletin. (IM 684 and IM 685)

A. Gas Furnace: . . . . . Model no. _____

B. Gas Burner: . . . . . Model no. HMB400SSUM DGIN Serial no. H2001014

C. Gas Rated firing rate (MBH input): . . . . . N/A

D. Gas Altitude (ft. above sea level): . . . . . N/A

E. Input (CFH): . . . . . N/A

F. Gas pressure at burner (inches w.c.): . . . . . 9.1" WC

G. CO_2 (%) . . . . . N/A

H. CO_2 (%): . . . . . N/A

I. Pilot flame only in microamps (steady at low fire): . . . . . N/A

J. Pilot Tap-gas pressure (inches w.c.): . . . . . N/A

K. Motor only/burner FLA running amps: 1.8

L. High limit control OK? . . . . . (Yes) No N/A

M. Flame safeguard (microamps): . . . . . N/A

13F-4158 (06/17) 4

DAIKIN Rooftop Equipment Warranty Registration Form (continued)

Select Yes or No. If not applicable to the type of unit, select N/A.

N. Flame failure shutoff (seconds): 2

O. Airswitch OK? . . . . . (Yes) No N/A

P. High Gas Pressure Switch OK? . . . . . Yes No (N/A)

Q. Low Gas Pressure Switch OK? . . . . . Yes No (N/A)

R. Main Gas Valve Close-off OK?. . . . . (Yes) No N/A

S. Modulation Gas Heat Performance

Gas Pressure Mod. Valve		Reg. Valve	
25%	.48 in Wc.	25%	____ in Wc.
50%	.9 in Wc.	50%	1.2 in Wc.
75%	2.6 in Wc.	75%	____ in Wc.
100%	3.2 in Wc.	100%	3.5 in Wc.

VII. Hot Water Coil

A. Pressure test OK? . . . . . N/A . . . . . Yes No N/A

VIII. Heat Recovery

A. Heat wheel rotates freely? . . . . . Yes No N/A

B. Heat wheel VFD operates properly? . . . . . N/A . . . . . Yes No N/A

C. Heat wheel VFD . . . . . Model No. N/A Serial No. _____

D. Check for air bypass around heat wheel. . . . . Yes No N/A

IX. Design Flow Calibration

A. Verify power is supplied to the MicroTech III unit controller . . . . . Yes No N/A

B. Verify that the shipping screws have been removed from the measuring station vane . . . . . Yes No N/A

C. Examine station for damage . . . . . Yes No N/A

D. Record Level Position after calibration N/A

- LH Level Position. . . . . _____
- RH Level Position . . . . . _____

NOTE: This is viewed in the MicroTech III controller, in the Min OA setup menu.

DAIKIN Rooftop Equipment Warranty Registration Form (continued)

Select Yes or No. If not applicable to the type of unit, select N/A.

X. **Have all electronic or electrical controls been checked, adjusted, and tested for proper operation per the installation and maintenance bulletins?**

. . . . . (Yes) No N/A

XI. **MAINTAINING MICROTECH CONTROL PARAMETER RECORDS**

After the unit is checked, tested, and started and the final control parameters are set, record the final settings. Keep these records on file and update whenever changes to the control parameters are made. Keeping a record facilitates any required analysis and troubleshooting of the system operation and facilitates restoration after a controller replacement.

Thank you for completing this form. Please sign and date below.

Signature _____ **Startup date:** 5/6/2020

Return completed form by mail to:

Daikin Warranty Department, 13600 Industrial Park Boulevard, Minneapolis, MN 55441

or by email to: AAH.Wty_WAR_forms@daikinapplied.com

Please fill out the Daikin Applied "Quality Assurance Survey Report" and list any additional comments that could affect the operation of this unit; e.g., shipping damage, failed components, adverse installation applications, etc. If additional comment space is needed, write the comment(s) on a separate sheet, attach it to the Survey Report and return it to the Warranty Department of Daikin Applied with the completed Equipment Warranty Registration form.

RTU-2

DAIKIN

Rebel
Equipment Warranty Registration Form

To comply with the terms of Daikin Applied Warranty, complete and return this form within 10 days to the Warranty Department of Daikin Applied.

Check, test, and start procedure for Rooftop roof mounted air conditioners with or without heat recovery and roof mounted air handlers.

GENERAL INFORMATION

Job Name: Bridgeport Rescue mission GOI No.: 030566700100

Installation address:

City: Bridgeport State: CT

Purchasing contractor: Eastern Mechanical

City: Danbury State: CT

Name of person doing start-up: Rob Tranquist

Company name: Swan Associates

Address: 49 Holly Drive

City/State/Zip: Newington, CT, 06111

UNIT INFORMATION

Unit model number: DPS007A1HMG4DW-3

Unit serial number: FB0419110014Z

Compressor 1 model number: JT1G-VDKWYR@SB Serial number: 7766970174614

Compressor 3 model number: JT71G-P8YD@K Serial number: 1Z530830212W

NOTE: 1. Unit does not require high pressure switch testing
2. Refrigerant pressures can be checked from the MT III controller. Refrigerant gages are not needed.
3. Ensure proper unit phasing.
4. Compressor 3 might not operate during startup due to ambient conditions and compressor operating envelope.

DAIKIN

Rebel Equipment Warranty Registration Form (continued)

Select Yes or No. If not applicable to the type of unit, select N/A.

I. INITIAL CHECK

A. Is any shipping damage visible? . . . . . Yes (No) N/A

B. Has the discharge static pressure reference been properly located in the building? . . . . . Yes (No) N/A

C. Do fans turn freely? . . . . . (Yes) No N/A

D. Electrical service corresponds to unit nameplate? . . . . . (Yes) No N/A

Volts 460 Hertz 60 Phase 3

E. Unit phased correctly? . . . . . (Yes) No N/A

F. Is the main disconnect adequately fused and are fuses installed? . . . . . Yes No (N/A)

G. Are crankcase heaters operating, and have they been operating 24 hours prior to start-up? . . . . . (Yes) No N/A

H. Are all electrical power connections tight? . . . . . (Yes) No N/A

I. Is the condensate drain trapped? . . . . . (Yes) No N/A

II. FAN DATA

A. Check rotation of supply fan? . . . . . (Yes) No N/A

B. Voltage at supply fan motor: . . . . . 1–2 482 V 2–3 484 V 1–3 483 V

C. Supply fan motor amp draw per phase: . . . . . 1–2 1.7 A 2–3 1.5 A 1–3 1.6 A

D. What is the supply fan rpm? . . . . . N/A

E. Record supply static pressure at unit in inches of H_20: . . . . . N/A

F. Record return static pressure at unit (with outside air dampers closed) in inches of H_20: . . . . . N/A

III. START-UP COMPRESSOR OPERATION

A. Are compressor shipping brackets removed? . . . . . (Yes) No N/A

B. Are compressors rotating in the right direction? . . . . . (Yes) No N/A

C. Do condenser fans rotate in the right direction? . . . . . (Yes) No N/A

D. Ambient temperature (°F): . . . . . 60°F

E. Compressor amperage:

Compressor #1: . . . . . Phase 1 4.4 Phase 2 4.2 Phase 3 4.1

Compressor #3: . . . . . Phase 1 2.6 Phase 2 2.7 Phase 3 2.5

DAIKIN

Rebel Equipment Warranty Registration Form (continued)

Select Yes or No. If not applicable to the type of unit, select N/A.

IV. PERFORMANCE DATA (Unit to run at steady state for 15 minutes)

A. Discharge pressure, one compressor: . . . . . Circuit 1 292 psig

B. Suction pressure, one compressor: . . . . . Circuit 1 110 psig

C. Liquid temperature (°F): . . . . . 70°F

D. Suction line temperature °F from unit controller: . . . . . 33°F

E. Discharge line temperature °F from unit controller: . . . . . 86°F

F. Superheat temperature °F from unit controller: . . . . . 13°F

G. Sub-cooling line temperature °F from unit controller: . . . . . 8°F

H. Record discharge air temperature at discharge of unit (°F): . . . . . 58°F

I. Are all control refrigerant lines secure to prevent excessive vibration and wear? . . . . . (Yes) No N/A

J. Are all valve caps and packing tight after start-up? . . . . . (Yes) No N/A

K. Did unit control DAT to DAT setpoint? . . . . . (Yes) No N/A

V. Hot Water Coil

A. Pressure test OK? . . . . . Yes No (N/A)

VI. Heat Recovery

A. Heat wheel rotates freely? . . . . . Yes No (N/A)

B. Heat wheel VFD operates properly? . . . . . Yes No (N/A)

C. Heat wheel VFD . . . . . Model No. _____ Serial No. _____

D. Check for air bypass around heat wheel. . . . . Yes No (N/A)

VII. FURNACE CHECK, TEST, & START

A. Gas pressure at main (inches w.c.): . . . . . _____

B. Gas pressure at manifold (inches w.c.): . . . . . _____

C. High limit control OK? . . . . . Yes No (N/A)

D. Flame failure shutoff (seconds): . . . . . _____

E. Airswitch OK? . . . . . Yes No (N/A)

F. Main Gas Valve Close-Off OK? . . . . . Yes No (N/A)

DAIKIN

Rebel Equipment Warranty Registration Form (continued)

Select Yes or No. If not applicable to the type of unit, select N/A.

VIII. MAINTAINING MICROTECH CONTROL PARAMETER RECORDS

After the unit is checked, tested, and started and the final control parameters are set, record the final settings. Keep these records on file and update whenever changes to the control parameters are made. Keeping a record facilitates any required analysis and troubleshooting of the system operation and facilitates restoration after a controller replacement.

Thank you for completing this form. Please sign and date below.

Signature _____ **Startup date:** 5/6/2020

Return completed form by mail to:

Daikin Warranty Department, 13600 Industrial Park Boulevard, Minneapolis, MN 55441

or by email to: AAH.Wty_WAR_forms@daikinapplied.com

Please fill out the Daikin Applied "Quality Assurance Survey Report" and list any additional comments that could affect the operation of this unit; e.g., shipping damage, failed components, adverse installation applications, etc. If additional comment space is needed, write the comment(s) on a separate sheet, attach it to the Survey Report and return it to the Warranty Department of Daikin Applied with the completed Equipment Warranty Registration form.

13F-4157 (11/14)

RTU-3

DAIKIN

Rebel
Equipment Warranty Registration Form

To comply with the terms of Daikin Applied Warranty, complete and return this form within 10 days to the Warranty Department of Daikin Applied.

Check, test, and start procedure for Rooftop roof mounted air conditioners with or without heat recovery and roof mounted air handlers.

GENERAL INFORMATION

Job Name: Bridgeport Rescue Mission GOI No.: 03056670010O

Installation address:

City: Bridgeport State: CT

Purchasing contractor: Eastern Mechanical

City: Danbury State: CT

Name of person doing start-up: Robert Tranquist

Company name: Swan Associates

Address: 49 Holly Drive

City/State/Zip: Newington, CT, 06111

UNIT INFORMATION

Unit model number: DPS007AHM G4DW-3

Unit serial number: FBOU191100143

Compressor 1 model number: JT1G-VDKWYR@SB Serial number: 7766 9701 7471

Compressor 3 model number: JT71G-P8YD@K Serial number: 1253083011ST

NOTE: 1. Unit does not require high pressure switch testing
2. Refrigerant pressures can be checked from the MT III controller. Refrigerant gages are not needed.
3. Ensure proper unit phasing.
4. Compressor 3 might not operate during startup due to ambient conditions and compressor operating envelope.

DAIKIN **Rebel Equipment Warranty Registration Form (continued)**

Select Yes or No. If not applicable to the type of unit, select N/A.

I. INITIAL CHECK

A. Is any shipping damage visible? . . . . . Yes (No) N/A

B. Has the discharge static pressure reference been properly located in the building? . . . . . Yes (No) N/A

C. Do fans turn freely? . . . . . (Yes) No N/A

D. Electrical service corresponds to unit nameplate? . . . . . (Yes) No N/A

Volts 460 Hertz 60 Phase 3

E. Unit phased correctly? . . . . . (Yes) No N/A

F. Is the main disconnect adequately fused and are fuses installed? . . . . . Yes No (N/A)

G. Are crankcase heaters operating, and have they been operating 24 hours prior to start-up? . . . . . (Yes) No N/A

H. Are all electrical power connections tight? . . . . . (Yes) No N/A

I. Is the condensate drain trapped? . . . . . (Yes) No N/A

II. FAN DATA

A. Check rotation of supply fan? . . . . . (Yes) No N/A

B. Voltage at supply fan motor: . . . . . 1–2 483 V 2–3 485 V 1–3 484 V

C. Supply fan motor amp draw per phase: . . . . . 1–2 1.6 A 2–3 1.9 A 1–3 1.8 A

D. What is the supply fan rpm? . . . . . N/A

E. Record supply static pressure at unit in inches of H_20: . . . . . N/A

F. Record return static pressure at unit (with outside air dampers closed) in inches of H_20: . . . . . N/A

III. START-UP COMPRESSOR OPERATION

A. Are compressor shipping brackets removed? . . . . . (Yes) No N/A

B. Are compressors rotating in the right direction? . . . . . (Yes) No N/A

C. Do condenser fans rotate in the right direction? . . . . . (Yes) No N/A

D. Ambient temperature (°F): . . . . . 60°F

E. Compressor amperage:

Compressor #1: . . . . . Phase 1 3.8 Phase 2 3.4 Phase 3 4.0

Compressor #3: . . . . . Phase 1 2.8 Phase 2 2.7 Phase 3 2.5

DAIKIN Rebel Equipment Warranty Registration Form (continued)

Select Yes or No. If not applicable to the type of unit, select N/A.

IV. PERFORMANCE DATA (Unit to run at steady state for 15 minutes)

A. Discharge pressure, one compressor: . . . . . Circuit 1 110 psig

B. Suction pressure, one compressor: . . . . . Circuit 1 220 psig

C. Liquid temperature (°F): . . . . . 69°F

D. Suction line temperature °F from unit controller: . . . . . 32°F

E. Discharge line temperature °F from unit controller: . . . . . 68°F

F. Superheat temperature °F from unit controller: . . . . . 7°F

G. Sub-cooling line temperature °F from unit controller: . . . . . 5°F

H. Record discharge air temperature at discharge of unit (°F): . . . . . 53°F

I. Are all control refrigerant lines secure to prevent excessive vibration and wear? . . . . . (Yes) No N/A

J. Are all valve caps and packing tight after start-up? . . . . . (Yes) No N/A

K. Did unit control DAT to DAT setpoint? . . . . . (Yes) No N/A

V. Hot Water Coil

A. Pressure test OK? . . . . . Yes No (N/A)

VI. Heat Recovery

A. Heat wheel rotates freely? . . . . . Yes No (N/A)

B. Heat wheel VFD operates properly? . . . . . Yes No (N/A)

C. Heat wheel VFD . . . . . Model No. _____ Serial No. _____

D. Check for air bypass around heat wheel . . . . . Yes No (N/A)

VII. FURNACE CHECK, TEST, & START

A. Gas pressure at main (inches w.c.): . . . . . _____

B. Gas pressure at manifold (inches w.c.): . . . . . _____

C. High limit control OK? . . . . . Yes No (N/A)

D. Flame failure shutoff (seconds): . . . . . _____

E. Airswitch OK? . . . . . Yes No (N/A)

F. Main Gas Valve Close-Off OK? . . . . . Yes No (N/A)

DAIKIN

Rebel Equipment Warranty Registration Form (continued)

Select Yes or No. If not applicable to the type of unit, select N/A.

VIII. MAINTAINING MICROTECH CONTROL PARAMETER RECORDS

After the unit is checked, tested, and started and the final control parameters are set, record the final settings. Keep these records on file and update whenever changes to the control parameters are made. Keeping a record facilitates any required analysis and troubleshooting of the system operation and facilitates restoration after a controller replacement.

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