



RFP 9F030-20200182

Upgrade and refit of the Heating Ventilating Air Conditioning System at the David Florida Laboratory

Addendum #1

RESPONSES TO QUESTIONS FROM POTENTIAL BIDDERS:

1. How high are the ceilings for the RTU 1, 2 & 3 on the 3rd floor?

For the office space that require the ductwork modification, the ceiling height is approximately 138 in. above finished flooring to the deck underside

2. How far is the fire alarm loop for the RTU to be connected to the fire alarm?

less than 100 ft. to the local fire alarm signal

3. Panel 207-1-SP (600v), we would need to know the manufacturer and what type of panel.

Square D. Refer to the photos in the amendment (to be posted)

4. What manufacturer is the existing fire alarm system?

Refer to spec section 23 74 00 part 2.1

5. Could you please provide Elevation of the building?

Refer to the images included in this amendment.

6. In spec DFL will provide escort for regular hours but the work must be done after hours for RTU replacement, do I need to pay our escort after working hours?

DFL will provide escort for regular hours and after hours given that construction schedule is submitted and accepted by the departmental representative as per specification.

7. Who is the BAS controls contractor for this building?

Refer to specification section 21 05 02

8. Who is the fire protection contractor for this building?

Refer to specification section 21 05 02

9. There is no pictures allowed on site . Will the agency take pictures of the existing units?

Refer to the images included in this amendment.

10. Will the agency share what the existing units where there before the carriers as to ascertain if there was carrier or another unit there so that we confirm that the seismic curb adapter we provide will be the right size to fit the new carrier unit?

No additional information could be provided for what were installed before the existing units.

11. Will project be extended to allow for pictures?

Yes, the closing date has been changed to September 18, 2020.

12. My supplier for the breakers has asked me if we can get more information on the existing model of the 347/600V panel board (207-1-SP). He says depending on the model there will be big differences in pricing. Could you provide more information or pictures of the existing panel?

Square D. Refer to the photos included in this amendment.

13. Spec section 26 05 00 3.4.2 mentions a protective device coordination study. Can you confirm that a coordination study is required for this project?

The consultant confirmed that coordination study is not required.

14. Can testing/commissioning be done during normal working hours?

Testing and commissioning may be performed during normal working hours with minimum disturbance to the building occupants. Departmental representative will review the construction schedule to be submitted including the testing/commissioning process by the contractor for approval as per specification.

15. The RTUs have a fire alarm connection, and we will need to verify the connection with the fire alarm company. Which fire alarm company is in this building?

Refer to spec section 23 74 00 part 2.1

16. Drawing E2 "Description of site distribution new work" note 5 indicates that there is a local fire alarm signal next to each RTU. How far away is this local fire alarm signal?

Less than 100 ft. to the local fire alarm signal.

PARAPET ELEVATION AND PREFERRED CRANE SETUP LOCATION



ADDITIONAL PICTURES:

Existing RTU#1 Photo 1



Existing RTU #1 Photo 2



Existing RTU #1 Photo 3



Existing RTU #1 Photo 4



Preferred crane location photo 1



Preferred crane location photo 2



Existing RTU #2 Photo 1



Existing RTU #1 Overview



Existing RTU #3 photo 1



Existing RTU #3 photo 2



Existing RTU #3 photo 3



Existing RTU #3 photo 4



Existing RTU #3 photo 5




New RTU nameplate photo 1

LP12AJ00

 Carrier A United Technologies Company		MODEL 48A3S020HLV12AVA Work Order 009000567594 SERIAL 0318U46697							
								Test Pressure Gage Hi 650 PSI (4482 kPa) Low 477 PSI (3289 kPa)	
Compressors Qty Volts AC PH Hz RLA LRA		(Factory Charged)				Refrigerant/System lbs kg R-410A			
1 2		575		3 60		7.7 54		14.9 6.8	
2 1		575		3 60		9.6 78		11.8 5.4	
Fan Motors Qty Volts PH Hz FLA HP KW									
Indoor Fan 1		575		3 60		6.1 5		3.73	
Outdoor Fan 2		575		3 60		2.6 1		0.75	
Combustion Fan 2		115		1 60		1.1 0.1		0.07	
Power Exhaust 4		575		1 60		2.4 1		0.75	
Power Supply Volts AC PH Hz Max Volts Min Volts MCA* MOCP*									
		575		3 60		633 518		48 50	
*MCA = Min Circuit Amps *MOCP = Max Over Current Protective Device Amps FUSE OR HACR BKR									
		BTU / Hr. (kW)		Design Tested Under ANSI Z21.47 CAN/CGA-2.3-1993 Central Furnaces UL 1995 Air Conditioners and ANSI B9.1 Mechanical Refrigeration For Outdoor Installation ONLY					
Input Min		262,500		76.9					
Input Max		350,000		102.6					
Output Cap.		283,500		83.1					
Thermal Efficiency		81							
Equipped for use with Natural Gas DESIGNED IN U.S.A. ASSEMBLED IN MEXICO									
Charge System per Installation Instructions						99NA506883			

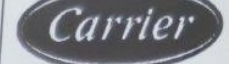
W.O.	MODEL	SERIAL

New RTU nameplate photo 2



Carrier
A United Technologies Company

MODEL 40AC050181001
 Work Order 009000567593
 SERIAL 0318U46698



Compressors		(Factory Charged)				Refrigerant/System		Test Pressure Gage	
Qty	Volts AC	PH	Hz	RLA	LRA	lbs	kg	R-410A	
1	575	3	60	7.7	54	14.9	6.8		Hi 650 PSI (4482 kPa)
2	575	3	60	9.6	78	11.8	5.4		Low 477 PSI (3289 kPa)

Fan Motors		Qty	Volts	PH	Hz	FLA	HP	KW
Indoor Fan	1	1	575	3	60	6.1	5	3.73
Outdoor Fan	2	2	575	3	60	2.6	1	0.75
Combustion Fan	2	2	115	1	60	1.1	0.1	0.07
Power Exhaust	4	4	575	1	60	2.4	1	0.75

Power Supply	Volts AC	PH	Hz	Max Volts	Min Volts	MCA*	MOCP*
	575	3	60	633	518	48	50

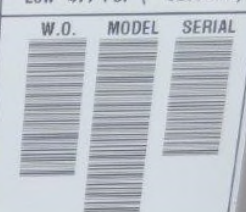
*MCA = Min Circuit Amps
 *MOCP = Max Over Current Protective Device Amps FUSE OR HACR BKR

	BTU / Hr.	(kW)
Input Min	262,500	76.9
Input Max	350,000	102.6
Output Cap.	283,500	83.1
Thermal Efficiency	81	

Design Tested Under ANSI Z21.47
 CAN/CGA-2.3-1993 Central Furnaces
 UL 1995 Air Conditioners and ANSI B9.1
 Mechanical Refrigeration
 For Outdoor Installation ONLY


Equipped for use with Natural Gas DESIGNED IN U.S.A., ASSEMBLED IN MEXICO

Charge System per Installation Instructions 99NA506883



Existing RTU #1 nameplate

Carrier
Air Conditioning
Division of Carrier Corporation, Syracuse, N.Y. 13221



MODEL 48DJE030--A		SERIES 100AB		SERIAL 4895F8078E	
QTY	VOLTS AC	PH	HZ	RLA	LRA
COMPR 1	575	3	60	22.9	16.0
COMPR 1	575	3	60	17.7	11.0
FAN MTRS QTY	VOLTS AC	PH	HZ	FLA	HP
OUTDOOR 2	575	3	60	2.4	1.00
OUTDOOR					
INDOOR 1	575	3	60	15.0	15.0
OTHER 1	575	3	60	2.4	1.00
COMBUST 2	230	1	60	0.41	0.06

REFRIGERANT/SYSTEM		TEST PRESSURE GAGE	
24.3 LBS	11.0 kg	R-22	HI PSI 410 kPa 2827
18.3 LBS	8.3 kg	R-22	LO PSI 150 kPa 1034
POWER SUPPLY		575 V 3 PH 60 HZ	
MIN CKT AMPS		68	
MAX OVERCURRENT PROTECTIVE DEVICE AMPS			
90 FUSE ONLY			
PERMISSIBLE VOLTAGE AT UNIT		632 MAX 518 MIN	
EQUIPPED FOR USE WITH NATURAL GAS			

INPUT MIN		INPUT MAX		OUTPUT CAP		THERMAL EFFICIENCY	
242,250 Btu/Hr		475,000		380,000			
71.00 kW		139.21		111.37		80.0 %	

DESIGN TESTED UNDER ANSIZ21.47-1706 AND ANSIB8.1 MECHANICAL REFRIGERATION CENTRAL FURNACES, UL465 AIR CONDITIONERS

CHARGE SYSTEM PER INSTALLATION INSTRUCTIONS FOR OUTDOOR INSTALLATION ONLY

DESIGN CERTIFIED AS A CATEGORY III FORCED AIR FURNACE WITH COOLING UNIT

160.0 DEG F, 71.1 DEG C DESIGNED MAXIMUM OUTLET AIR TEMPERATURE		
AIR TEMP RISE	MAX EXTERNAL STATIC PRESSURE	MOTOR HP 15.00
30.0-60.0 DEG F	3.00 IN WC, 0.75 kPa	11.10 MIN
16.7-33.3 DEG C		


MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

TOP	BOTTOM	SIDES	FLUE SIDE
12 FT, 3.66 M	*	4 FT, 1.22 M	4 FT, 1.22 M

LIGHTING INSTRUCTIONS

EQUIPPED WITH AUTOMATIC INTERMITTENT PILOT AND POWER COMBUSTION BLOWER. DO NOT ATTEMPT TO LIGHT BY HAND. 1. OPEN MAIN GAS VALVE. 2. TURN ON POWER TO UNIT. 3. SET WALL THERMOSTAT TO DESIRED TEMPERATURE. PILOT WILL REIGNITE ON EACH CALL FOR HEAT.

GAS SUPPLY PRESSURE	13.00 IN WC, 3.24 kPa MAX 5.00 IN WC, 1.25 kPa MIN
MANIFOLD PRESSURE	2.7 IN WC, 0.67 kPa



MADE IN USA

TO SHUT OFF

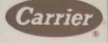
TURN OFF MAIN AND PILOT GAS SHUTOFF VALVES AND TURN WALL THERMOSTAT SELECTOR SWITCH TO OFF

* FOR INSTALLATION ON COMBUSTIBLE FLOORING OR CLASS A, B, OR C ROOFING MATERIAL (S)

99NA504284

Existing RTU #2 nameplate

Carrier
Air Conditioning
Division of Carrier Corporation, Syracuse, N.Y. 13221



MODEL 48DJE030--A SERIES 100AB SERIAL 4895F80786

QTY	VOLTS AC	PH	HZ	RLA	LRA	REFRIGERANT/SYSTEM		TEST PRESSURE GAGE		
COMPR	1	575	3 60	22.9	96.0	24.3	LBS 11.0	kg R-22	HI PSI 410	kPa 2827
COMPR	1	575	3 60	17.9	71.0	18.3	LBS 8.3	kg R-22	LO PSI 150	kPa 1034
FAN MTRSDTY	VOLTS AC	PH	HZ	FLA	HP	kW _{OUT}	POWER SUPPLY	575	3 60	HZ
OUTDOOR	2	575	3 60	2.4	1.00	0.74		MIN CKT AMPS	68.7	
INDOOR	1	575	3 60	15.0	15.0	11.1		MAX OVERCURRENT PROTECTED QUICK AMPS	90	
OTHER	1	575	3 60	2.4	1.00	0.74		PERMISSIBLE VOLTAGE AT UNIT EQUIPPED FOR USE WITH	632	518
COMBUST	2	230	1 60	0.41	0.06	0.04		NATURAL GAS		

	INPUT MIN	INPUT MAX	OUTPUT CAP	THERMAL EFFICIENCY
Btu/Hr	242,250	475,000	380,000	
kW	71.00	139.21	111.37	80.0%

DESIGN TESTED UNDER ANSI Z147 - 1998 AND ANSI R11 MECHANICAL REFRIGERATION CENTRAL FURNACES, UL485 AIR CONDITIONERS

CHARGE SYSTEM PER INSTALLATION INSTRUCTIONS FOR OUTDOOR INSTALLATION ONLY

DESIGN CERTIFIED AS A CATEGORY III FORCED AIR FURNACE WITH COOLING UNIT

160.0 DEG F, 71.1 DEG C	DESIGNED MAXIMUM OUTLET AIR TEMPERATURE	MOTOR HP 15.00
AIR TEMP RISE	MAX EXTERNAL STATIC PRESSURE	11.10 MIN
30.0-60.0 DEG F	3.00 IN WC, 0.75 kPa	
16.7-33.3 DEG C		


MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS

	TOP	BOTTOM	SIDES	FLUE SIDE
	12 FT, 3.66 M	*	4 FT, 1.22 M	4 FT, 1.22 M

LIGHTING INSTRUCTIONS
EQUIPPED WITH AUTOMATIC INTERMITTENT PILOT AND POWER COMBUSTION BLOWER
DO NOT ATTEMPT TO LIGHT BY HAND. 1. OPEN MAIN GAS VALVE
2. TURN ON POWER TO UNIT. 3. SET WALL THERMOSTAT TO DESIRED TEMPERATURE
PILOT WILL REIGNITE ON EACH CALL FOR HEAT.

GAS SUPPLY PRESSURE	13.00 IN WC, 3.24 kPa	MAX 5.00 IN WC, 1.25 kPa MIN
MANIFOLD PRESSURE	2.7 IN WC, 0.67 kPa	

TO SHUT OFF
TURN OFF MAIN AND PILOT GAS SHUTOFF VALVES AND TURN WALL THERMOSTAT SELECTOR SWITCH TO OFF
* FOR INSTALLATION ON COMBUSTIBLE FLOORING OR CLASS A, B, OR C ROOFING MATERIAL (S)



MADE IN USA

99NA504284

Existing RTU #3 nameplate



Carrier		Air Conditioning		Carrier	
Division of Carrier Corporation, Syracuse, N.Y. 13221					
MODEL	48DJE030--A	SERIES	100AB	SERIAL	4895F80787
QTY	VOLTS AC	PH	HZ	RLA	LRA
COMPR 1	575	3	60	22.9	6.0
COMPR 2	575	3	60	17.9	5.0
FAN MOTOR		QTY	VOLTS AC	PH	HZ
OUTDOOR		2	575	3	60
INDOOR		1	575	3	60
OTHER		1	575	3	60
COMBUST		2	230	1	60
REFRIGERANT/SYSTEM					
R-22 HI PSI 410 kPa 2827					
R-22 LO PSI 150 kPa 1034					
TEST PRESSURE					
HP					
kW					
MIN CKT AMPS					
MAX OVERCURRENT PROTECTIVE DEVICE AMPS					
PERMISSIBLE VOLTAGE AT UNIT EQUIPPED FOR USE WITH					
NATURAL GAS					
INPUT MIN		INPUT MAX		OUTPUT CAP	
Btu/Hr		475,000		380,000	
kW		139.21		111.37	
THERMAL EFFICIENCY		80.0%			
DESIGN TESTED UNDER ANS21.47 - 1986 CENTRAL FURNACES, UL485 AIR CONDITIONERS AND ANSI91 MECHANICAL REFRIGERATION					
CHARGE SYSTEM PER INSTALLATION INSTRUCTIONS FOR OUTDOOR INSTALLATION ONLY					
DESIGN CERTIFIED AS A CATEGORY III FORCED AIR FURNACE WITH COOLING UNIT					
160.0 DEG F, 71.1 DEG C DESIGNED MAXIMUM OUTLET AIR TEMPERATURE					
AIR TEMP RISE		MAX EXTERNAL STATIC PRESSURE		MOTOR HP 15.00	
30.0-60.0 DEG F		3.00 IN WC, 0.75 kPa		11.10 MIN	
16.7-33.3 DEG C					
MINIMUM CLEARANCES TO COMBUSTIBLE MATERIALS					
TOP		BOTTOM		SIDES	
12 FT, 3.66 M		*		4 FT, 1.22 M	
				4 FT, 1.22 M	
LIGHTING INSTRUCTIONS					
EQUIPPED WITH AUTOMATIC INTERMITTENT PILOT AND POWER COMBUSTION BLOWER. DO NOT ATTEMPT TO LIGHT BY HAND. 1. OPEN MAIN GAS VALVE. 2. TURN ON POWER TO UNIT. 3. SET WALL THERMOSTAT TO DESIRED TEMPERATURE. PILOT WILL REIGNITE ON EACH CALL FOR HEAT.					
GAS SUPPLY PRESSURE		13.00 IN WC, 3.24 kPa		MAX 5.00 IN WC, 1.25 kPa MIN	
MANIFOLD PRESSURE		2.7 IN WC, 0.67 kPa			
TO SHUT OFF					
TURN OFF MAIN AND PILOT GAS SHUTOFF VALVES AND TURN WALL THERMOSTAT SELECTOR SWITCH TO OFF					
* FOR INSTALLATION ON COMBUSTIBLE FLOORING OR CLASS A, B, OR C ROOFING MATERIALS					
MADE IN USA		99NA504284			

Panel 207-1-SP photo 1



Panel 207-1-SP photo 2



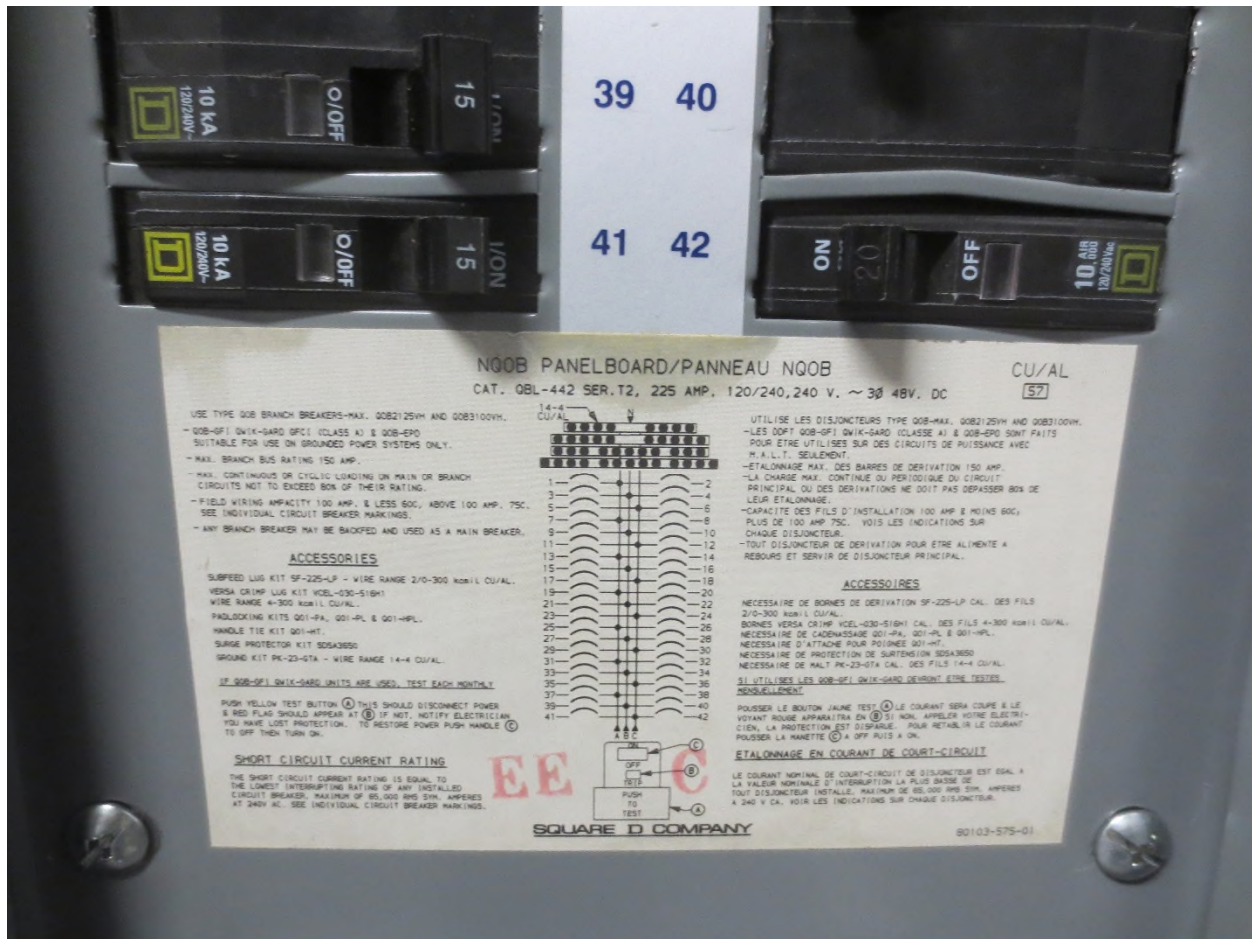
Panel 207-1-SP photo 3



Panel E14-1-DP photo 1



Panel E14-1-DP photo 2



Panel 308-1-DP photo 1



Panel 308-1-DP photo 2

