



**CE FLORIDA**  
 1370 Park Central Boulevard South  
 Pompano Beach, FL 33308  
 (P) (954) 247-2000

## Proposal

**Project Name:** City of Pembroke Pines

**Bid Date:** June 2, 2022

**Location:** Pembroke Pines, FL 33029

**Proposal Number:** 0121TGR10519

*We at Carrier Enterprise are pleased to quote the following equipment for the above referenced project in accordance with attached terms and conditions.*

Mark For	Qty	Model Number	Description
RTU	1	50P7-040	<p>Carrier WeatherMaster® series packaged rooftop units are pre-wired and run factory-tested. All models feature an industrial grade cabinet with fully hinged access panels. Unit cabinet is made of pre-painted, galvanized steel with baked enamel finish which meets ASTM B117 salt spray resistance test. Unit is equipped with dual electrically and mechanically independent refrigerant circuits, with coil frost protection, liquid line filter driers, and crankcase heaters are standard. Unit protection includes compressor high and low pressure transducers with safety cutouts, circuit breaker protection for all power components, and condenser-fan motors are totally enclosed with internal overload protection. In addition the following apply to your specific model:</p> <ul style="list-style-type: none"> <li>• Unit Size - Nominal Tons: 40 Tons</li> <li>• Voltage: 460-3-60</li> <li>• Efficiency Option: Greenspeed Intelligence</li> <li>• Configuration Type: Vertical Supply/Return, Variable Air Volume</li> <li>• Cooling Capacity Control/Staging: Digital Scroll Compressor Option</li> <li>• Outside Air: Motorized Damper/Economizer</li> <li>• Motor Efficiency: High Efficiency Motors</li> <li>• Filters: Standard 2-inch Filters</li> <li>• Evaporator Coil: High Capacity W/Hot Gas Bypass (HGBP)</li> <li>• Condenser Coil: Corrosion Coated Microchannel (MCHX)</li> <li>• Supply Fan: Supply Variable Frequency Drive (VFD) with Bypass</li> <li>• Controller: Carrier ComfortLink Controls – CCN Compatible</li> <li>• Warranty: 1<sup>st</sup> Year Parts, 2<sup>nd</sup> – 5<sup>th</sup> Year Compressor Parts</li> </ul>
			<ul style="list-style-type: none"> <li>• Factory Start-up</li> <li>• Controls Tie-in To Existing CCN System</li> </ul>

### Pricing

Total Price for items as listed above (excluding taxes) ..... \$67,500.00

Please note the following clarifications in this proposal:

- Products in this quote are special order non-stock items. Allow **24 weeks** for production and overland transit according to the project schedule. Subject to change without notice.
- The buyer is responsible for verifying that the proposed product tonnage, voltage, quantities, and configuration is correct before it is ordered, uncrated and/or lifted into place. See special notes below.

### **EXCLUSIONS (unless specifically listed above):**

- **Adapter curbs** or external vibration isolation
- Hurricane tie down brackets, restraints or wind load ratings
- Smoke detectors, fire alarm systems
- Rehab existing controls, sensors, or building automation
- In warranty labor or labor to install, assemble or mount accessories
- Electrical work including wiring, phase loss protection, disconnects, convenience outlets, or other required electrical devices

- Unloading, storage, lifting or setting of equipment
- Any piping, refrigeration specialties or long line accessories
- Spare filters or belts

**FREIGHT TERMS:**

- Factory: Freight allowed from factory to first destination unless otherwise noted. Contact salesperson for jobsite shipment coordination costs
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**SPECIAL NOTES:**

- Above price is firm and will remain in effect for 30 days.
  - No taxes, permits, start-up, and or service are included in above proposal unless otherwise noted.
  - All orders subject to credit acceptance.
  - Compliance to local codes neither guaranteed nor implied.
  - CE does not accept and will not be held liable for any flow down requirements from the owner or any higher tier contractor unless specifically agreed to in writing.
  - Any work or material furnished at CE's expense, must have written authorization and approval from CE prior to furnishing such service or materials. Immediately upon completion of such work, the approved price shall be invoiced for immediate processing of a credit memo and applied to your account. Deductions from our invoices or back charges for unauthorized work or materials will not be accepted.
  - If any portion of an order for special order or configured products is canceled after order release, the buyer is subject to a cancellation charge up to 100%. All sales of non-stock items are final, returns will not be allowed (curb adapters, concentric diffusers, special order, etc.).
  - Contractor to verify voltage.
  - At the point of delivery, the buyer is responsible for verifying that the product is correct as ordered (model numbers, voltage, etc.) before it is uncrated and/or lifted into place.
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We appreciate your consideration of this quotation and would like to thank you for your interest in products and services offered by Carrier Enterprise. Should you have any questions concerning the above quotation, please feel free to contact me personally.

Best Regards,

Tom Griswold

**Tom Griswold**

Commercial Sales Manager

Phone #: 954.247.2004

[tom.griswold@carrierenterprise.com](mailto:tom.griswold@carrierenterprise.com)

**CARRIER ENTERPRISE, LLC ("CE")**  
**TERMS AND CONDITIONS OF SALE**

1. **PAYMENT AND TAXES** – Payment shall be Net 10<sup>th</sup> prox, unless otherwise stated on invoice. CE reserves the right to require cash payment or other alternative method of payment prior to completion of work if CE determines, in its sole discretion, that Customer or Customer's assignee's financial condition at any time does not justify continuance of the Net 10<sup>th</sup> prox payment terms. In addition to the Agreement price, the Customer shall pay CE any applicable taxes or government charges that may be required in connection with the service or material furnished under this Agreement.
2. **SHIPMENT** – All shipments shall be F.O.B. shipping point, freight prepaid and allowed to the job site. Shipment dates quoted are approximate. CE does not guarantee a particular date for shipment or delivery.
3. **WORKING HOURS** – All services performed under this Agreement including major repairs, are to be provided during CE's normal working hours unless otherwise agreed.
4. **RETURNS** – No items will be accepted for return without prior written authorization. Returned goods may be subject to a restocking charge. Special order and non-stock items cannot be returned.
5. **ADDITIONAL SERVICE** – Services or parts requested by Customer in addition to those specified in this Agreement will be provided upon receipt of Customer's written authorization and invoiced at CE's prevailing labor rates and parts charges. Additional services or parts shall be supplied under the terms of this Agreement.
6. **EXCLUSIONS** – CE is not responsible for items not normally subject to mechanical maintenance including but not limited to: duct work, casings, cabinets, fixtures, structural supports, grillage, water piping, steam piping, drain piping, cooling tower fill, boiler tubes, boiler refractory, disconnect switches and circuit breakers. CE is not responsible for repairs, replacements, alterations, additions, adjustments, repairs by others, unscheduled calls or emergency calls, any of which may be necessitated by negligent operation, abuse, misuse, prior improper maintenance, vandalism, obsolescence, building system design, damage due to freezing weather, chemical/electrochemical attack, corrosion, erosion, deterioration due to unusual wear and tear, any damage related to the presence of mold, fungi, mildew, or bacteria, damage caused by power reductions or failures or any other cause beyond CE's control. CE is not responsible for the identification, detection, abatement, encapsulating or removal of asbestos, products or materials containing asbestos, similar hazardous substances, or mold, fungi, mildew, or bacteria. In the event that CE encounters any asbestos product or any hazardous material in the course of performing its work, CE may suspend its work and remove its employees from the project, until such product or material, and any hazards connected with it are abated. CE shall receive an extension of time to complete its work and compensation for delays encountered as a result of such situation and its correction. CE shall not be required to perform tests, install any items of equipment or make modifications that may be recommended or directed by insurance companies, state, municipal, government, or other authority. However, in the event any such recommendations occur, CE, at its option, may submit a proposal for Customer's consideration in addition to this Agreement. CE shall not be required to repair or replace equipment that has not been properly maintained.
7. **WARRANTY** – Carrier warrants that all equipment manufactured by Carrier Corporation will be free from defects in material and workmanship. Carrier shall at its option repair or replace, F.O.B. point of sale, any part determined to be defective within one (1) year from the date of initial operation or eighteen (18) months from date of shipment, whichever is earlier. Carrier does not warrant products not manufactured by Carrier Corporation, but it does pass on to Customer any available manufacturer's warranty for those products. **THIS WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.** Carrier's obligation to repair or replace any defective parts during the warranty period shall be Customer's exclusive remedy. Carrier shall not be responsible for labor charges for removal or reinstallation of defective parts, for charges for transportation, handling and shipping or refrigerant loss, or for repairs required as a consequence of faulty installation, misapplication, abuse, improper servicing, unauthorized alteration or improper operation by persons other than Carrier.
8. **PROPRIETARY RIGHTS** – During the term of this Agreement and in combination with certain services, CE may elect to install, attach to Customer equipment, or provide portable devices (hardware and/or software) that shall remain the personal proprietary property of CE. No devices installed, attached to real property or portable device(s) shall become a fixture of the Customer locations. Customer shall not acquire any interest, title or equity in any hardware, software, processes, and other intellectual or proprietary rights to devices that are used in connection with providing service on Customer equipment.
9. **DELAYS** – Delays caused by conditions beyond the reasonable control of either party shall not be the liability of either party to this Agreement.
10. **CUSTOMER RESPONSIBILITIES** – Customer shall:
  - Provide safe and reasonable equipment access and a safe work environment
  - Permit access to Customer's site, and use of building services including but not limited to: water, elevators, receiving dock facilities, electrical service and local telephone.
  - Keep areas adjacent to equipment free of extraneous material, move any stock, fixtures, walls or partitions that may be necessary to perform the specified service.
  - Promptly notify CE of any unusual operating conditions.
  - Upon agreement of a timely mutual schedule, allow CE to stop and start equipment necessary to perform service.
  - Provide adequate water treatment.
  - Provide the daily routine equipment operation (if not part of this Agreement) including availability of routine equipment log readings.
  - Where CE's remote monitoring service is provided, provide internet connection and access as required by CE.
  - Operate the equipment properly and in accordance with instructions.
  - Promptly address any issues that arise related to mold, fungi, mildew or bacteria.
11. **EQUIPMENT CONDITION & RECOMMENDED SERVICE** – Upon the initial scheduled operating and/or initial annual stop inspection, should CE determine the need for repairs or replacement, CE will provide Customer in writing an 'equipment condition' report including recommendations for corrections and the price for repairs in addition to this Agreement. In the event CE recommends certain services (that are not included herein or upon initial inspection) and if Customer does not elect to have such services properly performed in a timely fashion, CE shall not be responsible for any equipment or control failures, operability or any long-term damage that may result. CE at its option will either continue to maintain equipment and/or controls to the best of its ability, without any responsibility, or remove such equipment from this Agreement, adjusting the price accordingly.
12. **CUSTOMER TERMINATION** – Customer shall have the right to terminate this Agreement for CE's non-performance provided CE fails to cure such non-performance within 30 days after having been given prior written notice of the non-performance. Upon early termination or expiration of this Agreement, CE shall have free access to enter Customer locations to disconnect and remove any CE personal proprietary property or devices as well as remove any and all CE owned parts, tools and personal property. Additionally, Customer agrees to pay CE for all incurred but unamortized service costs performed by CE including overheads and a reasonable profit.
13. **CE TERMINATION** – CE reserves the right to discontinue its service any time payments have not been made as agreed or if alterations, additions or repairs are made to equipment during the term of this Agreement by others without prior agreement between Customer and CE.
14. **LIMITATION OF LIABILITY** – Under no circumstances shall CE be held liable for any incidental, special or consequential damages, including loss of revenue, loss of use of equipment or facilities, or economic damages based on strict liability or negligence. CE shall be liable for damage to property, other than the equipment provided under this Agreement, and to persons, to the extent that CE's negligent acts or omissions directly contributed to such injury or property damage. CE's maximum liability for any reason (except for personal injuries) shall consist of the refunding of all moneys paid by Customer to CE under this Agreement.
15. **WASTE DISPOSAL** – Customer is wholly responsible for the removal and proper disposal of waste oil, refrigerant and any other material generated during the term of this Agreement.
16. **CLAIMS** – Any suits arising from the performance or non-performance of this Agreement, whether based upon contract, negligence, strict liability or otherwise, shall be brought within one (1) year from the date the claim arose.
17. **GOVERNMENT PROCUREMENTS** – CE offers standard commercial items that may not comply with Government specifications. CE does not comply with the Cost Accounting Standards (CAS) or with the Federal Acquisition Regulations (FAR). In no event shall CE provide any Cost or Pricing Data in connection with this Agreement or subsequent modifications.
18. **SUPERSEDURE, ASSIGNMENT and MODIFICATION** – This Agreement contains the complete and exclusive statement of the agreement between the parties and supersedes all previous or contemporaneous, oral or written, statements. Customer may assign this Agreement only with CE's prior written consent. No modification to this Agreement shall be binding unless in writing and signed by both parties.

Accepted By: \_\_\_\_\_

Proposal Date: \_\_\_\_\_

June 2, 2022

Name: \_\_\_\_\_

Proposal Number: \_\_\_\_\_

0121TGRI0519

Title: \_\_\_\_\_

Quote Number(s): \_\_\_\_\_

0045237138

Company: \_\_\_\_\_

PO Number: \_\_\_\_\_

Date: \_\_\_\_\_

Project Name: \_\_\_\_\_

City of Pembroke Pines

## Unit Report For RTU-DOE 2023

Project: City of Pembroke Pines  
Prepared By: Tom Griswold

06/02/2022  
05:04PM

### Unit Parameters

Unit Size:.....**40 tons**  
Volts-Phase-Hertz:.....**460-3-60**  
Supply / Return:.....**Vertical/Vertical**  
Configuration:.....**VAV**  
Evaporator Coil Type: ..**Hi Cap Evap w/ HGBP**  
Heating Capacity:.....**No Heat**  
Heat Option:.....**None**  
Filter Option: .....**2" MERV 8 Pleated Filters**  
Greenspeed: .....**Selected**

### Shipping Dimensions

Unit Length:.....**26' 5"**  
Unit Width:.....**7' 8"**  
Unit Height: .....**5' 11"**

Unit Operating Weight:.....**6523 lb**  
Unit Shipping Weight:.....**6554 lb**

\*\*\*Weights and Dimensions are approximate. Weight does not include curbs and accessories. Approximate dimensions are provided primarily for shipping purposes. For exact dimensions refer to certified drawings.

\*\* Shipping Weight does not include extended leadtime options' weight.

### Factory Installed Options

Application Type:.....**VAV**  
Digital Compressor:.....**Selected**

### Exhaust/Outdoor Air

OA Intake/Return: .....**Economizer w/ No Power Exhaust**

### Supply Fan

Supply Fan Type:.....**FC Supply Fan**  
Supply Fan Motor HP:.....**20 Hp**

### Condenser Coil

Cond. Coil Fin Coating: .....**Coated MCHX**

### Mixed-Air and Outdoor Air Filters

Mixed-Air Filter Type:.....**2 in. MERV 8 Pleated**  
Mixed-Air Filter (Quantity) Size: .....**(8) 20x 25 x 2, (8) 20 x 20 x 2**  
Outdoor Air Filter (Cleanable Mesh):.....**(5) 20 x 20 x 2, (2) 20 x 25 x 1**

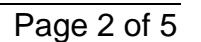
### Warranty Information

First Year - Parts Only (Standard)  
Start-up, First Unit  
Compressor Year 2-5 Parts Only

### Ordering Information

Part Number	Description	Quantity
<b>50P7-0406404K3LQQ7</b>	Rooftop Unit With Greenspeed Intelligence	1
	Coated MCHX	
	Hi Cap Evap w/ HGBP	
	Economizer w/ No Power Exhaust	
	2" MERV 8 Pleated Filters	
	Digital Compressor	
	Vertical Supply/Return, VAV Greenspeed	
	Supply VFD w/ by-pass	
	20 Hp Supply Fan Motor	

06/02/2022  
05:04PM



## Performance Summary For RTU-DOE 2023

Project: City of Pembroke Pines  
Prepared By: Tom Griswold

06/02/2022  
05:04PM

**Part Number:**.....50P7-0406404K3LQQ7

Unit Refrigerant: ..... R410A  
EER (AHRI 340/360): ..... 10.6  
IEER (AHRI 340/360): ..... 14.8

### Unit Dimensions

Unit Length:.....26' 5"  
Unit Width: .....7' 8"  
Unit Height: .....5' 11"  
Unit Operating Weight:.....6523 lb  
Unit Shipping Weight:.....6554 lb

**\*Unit operating weight does not include accessories weight.**

### Unit

Heating Type:..... None  
Supply/Return: ..... Vertical/Vertical  
Application Type:..... VAV  
Voltage:.....460-3-60  
Evaporator Type:..... Hi Cap Evap w/ HGBP  
Cooling Airflow: ..... 16000 CFM  
Altitude: ..... 0 ft  
Cond. Ent. Air Temp:..... 95.0 F  
Ent. Air Dry Bulb:..... 78.0 F  
Ent. Air Wet Bulb:..... 67.0 F  
Ent. Air Enthalpy: ..... 31.45 BTU/lb  
Lvg. Air Dry Bulb: ..... 58.7 F  
Lvg. Air Wet Bulb: ..... 57.6 F  
Lvg. Air Enthalpy: ..... 24.77 BTU/lb  
Gross Cooling Capacity: ..... 481.00 MBH  
Gross Sensible Clg. Cap:..... 334.32 MBH  
Compressor Power: ..... 31.4 kW  
Coil Bypass Factor: ..... 0.17  
Refrigerant Charge, Circuit A: ..... 31.1 lb  
Refrigerant Charge, Circuit B: ..... 37.2 lb

### Part Load(%) Operation

Cooling Capacity Steps:.....23-47, 50-73, 77-100

### Supply Fan Information:

Ext. Static Pressure:..... 2.00 in wg  
High Capacity Coil Loss:..... 0.35 in wg  
Economizer Loss: ..... 0.25 in wg  
Pleated Filters Loss: ..... 0.01 in wg  
Selection Static Pressure: ..... 2.61 in wg  
Supply Fan Type:..... FC Supply Fan  
Supply Fan RPM:..... 723 \*  
Supply Fan BHP:..... 14.58 BHP  
Supply Fan Motor HP:.....20 Hp

**\*Field supplied and installed sheave package may be required\***

## Performance Summary For RTU-DOE 2023

Project: City of Pembroke Pines  
Prepared By: Tom Griswold

06/02/2022  
05:04PM

### Electrical Data

Voltage Range:	414 - 508
Compressor #1 Qty:	1
Compressor #1 RLA:	26.9
Compressor #1 LRA:	179
Compressor #2 Qty:	2
Compressor #2 RLA:	26.9
Compressor #2 LRA:	179
Outdoor Fan Motor Qty:	3
Outdoor Fan FLA (ea):	2.9
Indoor Fan Motor HP:	20
Indoor Fan Motor FLA:	27
Power Supply MCA:	103
Power Supply MOCP (Fuse or HACR):	125
Minimum Non-Fused Disconnect Amperage:	110.4

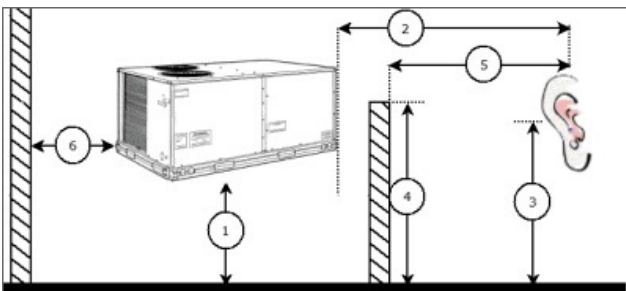
**SCCR, Short Circuit Current Rating: 5kA**

### Acoustic Information

	Discharge, Lw	Inlet, Lw	Outdoor, Lw
63 Hz	97.1	89.1	64.2
125 Hz	97.2	79.2	72.2
250 Hz	92.5	73.5	79.0
500 Hz	93.1	73.1	82.2
1000 Hz	83.3	66.3	84.0
2000 Hz	77.3	66.3	79.8
4000 Hz	70.1	57.1	73.7
8000 Hz	60.8	44.8	65.9

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

### Advanced Acoustics



## Performance Summary For RTU-DOE 2023

Project: City of Pembroke Pines  
Prepared By: Tom Griswold

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05:04PM

### Advanced Acoustics Parameters

1. Unit height above ground: .....**30.0** ft
2. Horizontal distance from unit to receiver: .....**50.0** ft
3. Receiver height above ground: .....**5.7** ft

### Detailed Acoustics Information

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	64.2	72.2	79.0	82.2	84.0	79.8	73.7	65.9	88.1 Lw
B	38.0	56.1	70.4	79.0	84.0	81.0	74.7	64.8	87.0 LwA
C	30.9	38.9	45.7	48.9	50.7	46.5	40.4	32.6	54.7 Lp
D	4.7	22.8	37.1	45.7	50.7	47.7	41.4	31.5	53.7 LpA

### Legend

- A Sound Power Levels at Unit's Acoustic Center, Lw  
B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA  
C Sound Pressure Levels at Specific Distance from Unit, Lp  
D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

