

March 22, 2019

BOARD OF COUNTY COMMISSIONERS
ORANGE COUNTY, FLORIDA
IFB NO. Y19-740/ ADDENDUM NO. 3

CHILLER REPLACEMENTS AT
UTILITIES ADMINISTRATION BUILDING

BID OPENING DATE: APRIL 2, 2019

This Addendum is hereby incorporated into the bid documents of the project referenced above. The following items are clarifications, corrections, additions, deletions and/or revisions to and shall take precedence over the original documents. Additions are indicated by underlining, deletions are indicated by ~~strikethrough~~.

A. Bid Opening Date remains April 2, 2019.

B. QUESTION AND ANSWERS

1. Question: Do you know the specs on the existing chiller? I can't seem to locate the refrigerant type (like R22) and approximate weight of the refrigerant.

Answer: The nameplate data is missing from the Chillers .It wore off in the direct sunlight and is unreadable. See below the model numbers and the specific serial numbers for the existing Chillers on the roof. Carrier Corporation provided us with the Attached document (PDF) which shows the Chiller data. The refrigerant is R-134a.

Type	Brand Name	Model No.	Serial Number
Chiller-1	Carrier	30GXR153-AE661XQ	2704F44362
Chiller-2	Carrier	30GXR153-AE661XQ	2704F44359

C. ACKNOWLEDGEMENT OF ADDENDA

- a. The Bidder shall acknowledge receipt of this addendum by completing the applicable section in the solicitation or by completion of the acknowledgement information on the addendum. Either form of acknowledgement must be completed and returned not later than the date and time for receipt of proposal.
- b. All other terms, conditions and specifications remain the same.
- c. Receipt acknowledged by:

Authorized Signature

Date Signed

Title

Name of Firm

30 Series Chillers Submittal Sheet

Job Name: OCU CENTRAL ADMIN BLDG.
Prepared by : CARRIER CORPORATION

11/13/2003
11:22:55 AM

UnitTag Information

UnitTag Name CH-1, 2
Location
Buyer P.O.
Date 11/13/2003
Program Version 2.80

Unit Size 30GXR153-*K64***
Cooling Capacity 137.0 Tons
Compressor Input Power 147.2 kW
Unit Input Power 163.2 kW
Minimum Outdoor Operating Temp 15 °F
Capacity control steps 6
Minimum Capacity 10.0 %
Input kw/Ton 1.191
Unit EER 10.07
Efficiency Level High
Refrigerant R134a

Cooler Data

Fluid Type Fresh Water
Fluid Entering Temperature 57.5 °F
Fluid Leaving Temperature 42.0 °F
Fluid Flow Rate 212.0 gpm
Fluid Pressure Drop 5.9 ft wg
Fluid Velocity 3.6 ft/s
Fouling Factor 0.0001 (hr-sqft-F)/Btu
Foul. Fact. Temp. Adj.4 °F
SST
Circuit A 40.8 °F
Circuit B 40.5 °F
Outside Surface Area 230.1 sqft

Condenser Data

Entering Air Temp 95.0 °F
AirFlow 114000 CFM
Number of Fans 10
Fan Speed 1140 RPM
Altitude 0 ft
SDT
Circuit A 124.8 °F
Circuit B 125.7 °F
SCT
Circuit A 120.8 °F
Circuit B 123.1 °F
Subcooling
Circuit A 22.5 °F
Circuit B 23.0 °F
Heat Rejection
Circuit A 102.6 Tons
Circuit B 69.9 Tons

Factory Options

Flow Control Type EXV

Unit Tag Information

Unit Tag Name CH-1, 2
 Location
 Buyer P.O.
 Date 11/13/2003
 Program Version 2.80

Chiller Electrical Data

Nameplate Voltage 460 Volts
 Elec. Power Frequency 60 Hertz
 Electrical Service Rating 115 °F

<u>Chiller A</u>	<u>Chiller B</u>	<u>Control - 120V</u>
189	164.3	
200 .4 MCA	164.3 MCA	MCA 30
300 MOC P	300 MOC P	MOC P 30
300	250	

Factory Installed Options

Suction Service Valve No
 Evaporator Passes Standard
 Condenser Coil Cu Tube/Al Fin, Pre-Coated
 Condenser Fan Standard
 Start option Wye delta
 Minimum load control Factory installed
 Control transformer Factory installed

ARI Rating Certified in accordance with the
 ARI Water-Chilling Packages using
 the Vapor Compression Cycle
 Certification Program, which is
 based on ARI Standard 550/590-98.