



## WAREHAM WATER POLLUTION CONTROL FACILITY

6 Tony's Lane  
Wareham, MA 02571  
Telephone (508) 295-6144  
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**#14-IFB-001**

### DECENTRALIZED UNITARY HVAC EQUIPMENT

**July 1, 2014**

**PROJECT:** Rooftop Air Conditioning Units

**DATE ISSUED:** July 8, 2014

#### ADDENDUM NO. 3

The specification documents for the above-referenced project are hereby amended and/or clarified as per the particular listed below:

#### 4.3.8 ROOFTOP AIR CONDITIONERS

1. Recover existing R-22 and remove existing condensers Carrier m/38ARZ007-601CA, s/0904G40067 and s/0404G40061
2. Set and connect new carrier Condensers 38AUZA07A0A6-0A0A0

Mark For	Qty	Model Number	Description
ACCU-1,2	2	38AUZA07A0A6-0A0A0	Scroll Compressor Air-Cooled Condensing Unit, Single Circuit 6 Tons Cooling • A/Cu Condenser Coil

3. With low ambient Motor Master Control

ACCU-1,2	2	CALOWAMB031A00	Motormaster I Combination Kit for Outdoor Unit
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4. Remove the TXVs from the existing AHUs in the space below, **Carrier m/40RM007B611HC**

5. Change out the TXV and install the conversion kit from Carrier to convert the coil to a R410A or (Puron) refrigerant system



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## APPLICATION TIPS

Residential Commercial Systems

Date: 08/10/2011 Subject: Replacement Applications With Light Commercial R-22 Split Systems Dept: RCS

Number: SPLITTIP-11-01 Product Model Number(s): 40RU 07-30 38AU 07-25 40RM 007-034 38AR 007-024 Author: William Fischer

### **Replacement Applications with Gemini® R-22 Systems**

This bulletin supersedes & replaces Application Tips #: SPLITTIP-10-01 and SPLITTIP-09-01

This bulletin contains guidance and parts information in addition to the general Replacement & Retrofit guidance contained in the 38AU installation instructions and is explicitly limited to use for replacement applications ONLY.

6. Follow the instructions and convert the system to R410A

Table 1 – R-22 Split System Component Replacement Chart \*

Which Component Failed?	What to Change?	Affect on the System of Changing the Fan Coil	Line Size Effect	
			Existing R-22 Line Size is Listed on Puron Refrigerant Line Size Chart	Existing R-22 Line Size is NOT Listed on Puron Refrigerant Line Size Chart
Fan Coil	Install 40RU fan coil and convert to R-22. See Application Tip - Replacement Applications with Gemini® R-22 System.	This effectively results in the fan coil now being a "high capacity" 40RM fan coil. See the existing 40RM literature for system performance of a "high capacity" fan coil.	If the line sizes of the existing R-22 system are the same sizes as listed on the Puron refrigerant Line Size Chart, then the existing lines can be used. See the charts in the Application Tip Replacement Applications with Gemini® R-22 Systems for the system capacity effects.	In most cases, the existing R-22 line size will be the same as what is listed on the Puron refrigerant Line Size Chart, or one size larger.  For applications with R-22 lines <u>one size larger</u> than the Puron refrigerant sizes, the existing lines can be used because there will be no noticeable effect on system capacity and the risk of too little oil flow is minimized due to no unloading capability of the scroll compressors.
Condensing Unit	Replace the condensing unit with a 38AU unit and convert the R-22 40RM fan coil to Puron refrigerant. See Application Tip - Replacement Applications with Gemini® R-22 System.	When the 3 row 40RM fan coil is converted to Puron refrigerant, it will result in a 7% capacity and efficiency reduction.		For applications with R-22 lines <u>more than one size larger</u> than the Puron refrigerant sizes, the lines must be changed to one of the line sizes for the Puron refrigerant system.



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7. Reconnect the refrigerant lines, evacuate to 300 microns for 1 hour and charge according to manufacturer's guidelines, adjust TXVs to maintain appropriate superheat and sub-cooling. Check condensate traps and lines for clear drainage and put system in operation at customer's desired set point.

***BIDDER MUST ACKNOWLEDGE RECEIPT OF THIS ADDENDUM BY SIGNING BELOW AND INCLUDING THIS ADDENDUM IN THEIR BID SUBMITTAL.***

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Signature of Authorized Bidder

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Date