

Performance Summary For 3) 7.5t Split AC

Project: Six City Center Portland Maine
 Prepared By: Timothy Simpson

04/29/2015
 07:53AM

Acc Heater Actual Voltage:..... **208-3-60**
 Acc Heater FLA:..... **52.1** amps
 Acc Stage 1 Actual kW:..... **11.3** kW
 Acc Stage 2 Actual kW:..... **7.5** kW

Indoor Supply Fan

Indoor Unit External Static:..... **0.60** in wg
 Economizer Loss:..... **0.00** in wg
 Grille Loss:..... **0.00** in wg
 Plenum Loss:..... **0.00** in wg
 Acc. Heating Loss:..... **0.10** in wg
 Total Ext Static:..... **0.70** in wg
 Fan Speed:..... **789** RPM
 Fan Power:..... **1.21** BHP
 Fan Motor Max:..... **2.40** BHP
 Fan Motor FLA:..... **5.8** Amps
 Motor and Medium Static Drive Required.
 Selected Medium Static Drive Range: 733 - 949

Indoor Electrical Data

Unit Voltage:..... **208-3-60** V-Ph-Hz
 Unit MCA:..... **78.9** Amps
 Unit MOCP:..... **80.0** Amps
 Notice: Indoor unit elect. data is based on 208-3-60

Acoustics

Sound Power Levels, db re 10E-12 Watts

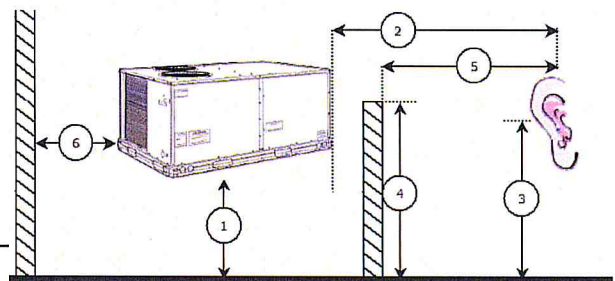
	Outdoor Unit (dB)	Indoor Unit (dB,Ducted)
A-Weighted Total Level	84.6	88.4
63Hz	89.3	95.3
125Hz	85.0	91.3
250Hz	82.0	87.3
500Hz	82.7	86.3
1000Hz	80.2	82.3
2000Hz	75.2	80.3
4000Hz	71.0	76.3
8000Hz	66.0	NA
Sound Message	Sound for 569J08	Sound for 524J08

Acoustic Notes:

- 569J 07-12 units are in accordance with ARI 270-2008 Sound Rating of Unitary Equipment.
- The sound data for all 569J14 units are based on upon a limited amount of actual testing with the estimated sound power data being generated from this data in accordance with ARI 370-2001 for Large Outdoor Refrigerating and Air-Conditioning Equipment.
- The indoor duct sound power data is estimated based on the ASHRAE calculation approach from the ASHRAE handbook 1987 HVAC Systems and Applications, Chapter 52.
- The acoustic center of the unit is located at the geometric center of the unit.
- All estimated sound power levels, dB re 1 Pico watt should not be guaranteed or certified as being the actual sound power levels.

Advanced Acoustics Parameters

- Unit height above ground:..... **1.0** ft
- Horizontal distance from unit to receiver:..... **20.0** ft
- Receiver height above ground:..... **5.7** ft
- Height of obstruction:..... **0.0** ft
- Horizontal dist. from obstruction to receiver:..... **0.0** ft
- Horizontal dist. from unit to obstruction:..... **0.0** ft



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Detailed Acoustics Information

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	Overall
Sound Power Levels at Unit's Acoustic Center (Lw), dB	89.3	85.0	82.0	82.7	80.2	75.2	71.0	66.0	92.2
A-Wgtd Sound Power Levels at Unit's Acoustic Center (LwA), dBA	63.1	68.9	73.4	79.5	80.2	76.4	72.0	64.9	84.6
Sound Press. Levels at Dist. Specified above (Lp), dB	65.0	60.7	57.7	58.4	55.9	50.9	46.7	41.7	67.9
A-Wgtd Sound Press. Levels at Dist. Specified above (LpA), dBA	38.8	44.6	49.1	55.2	55.9	52.1	47.7	40.6	60.3

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.

Acoustic Summary For 2) 3.5t Split HP

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Outdoor Unit Parameters:

Unit Model: **213C**
 Unit Size: **3.5 Tons**
 Variations: **Dense Grille**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	dB(A)
Sound Power,dB	0.0	55.0	65.0	71.0	72.0	70.0	67.0	59.5	
A-Weighted Sound Power, dBA									77.0

Indoor Unit Parameters:

Unit Model: **FX4D**
 Unit Size: **42,000 Btuh**
 Cabinet Insulation: **Single-piece cabinet with 1-in. super thick insulation**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	dB(A)
Sound Power,dB	68.4	61.4	60.4	57.4	55.4	53.4	49.4	0.0	
A-Weighted Sound Power, dBA									0.0

The Product and Ratings Data in this program is subject to change at any time and without notice. Please refer to the latest product literature and the AHRI directory at www.ahridirectory.org for the most up-to-date information.

Acoustic Summary For 2) 2.5t Split HP

Project: Six City Center Portland Maine
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04/29/2015

Outdoor Unit Parameters:

Unit Model: **213C**
 Unit Size: **2.5 Tons**
 Variations: **Dense Grille**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	dB(A)
Sound Power, dB	0.0	52.5	64.0	68.0	69.0	67.0	64.5	58.5	
A-Weighted Sound Power, dBA									74.0

Indoor Unit Parameters:

Unit Model: **FX4D**
 Unit Size: **36,000 Btuh**
 Cabinet Insulation: **Single-piece cabinet with 1-in. super thick insulation**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	dB(A)
Sound Power, dB	67.8	63.8	59.8	56.8	54.8	52.8	48.8	0.0	
A-Weighted Sound Power, dBA									0.0

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Acoustic Summary For 1) 4t Split HP

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04/29/2015

Outdoor Unit Parameters:

Unit Model: **213C**
Unit Size: **4 Tons**
Variations: **Dense Grille**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	dBA
Sound Power,dB	0.0	59.0	67.0	72.5	75.0	73.5	69.5	61.5	
A-Weighted Sound Power, dBA									80.0

Indoor Unit Parameters:

Unit Model: **FB4C**
Unit Size: **48,000 Btuh**
Cabinet Style: **TXV**

Octave Band Center Frequency, Hz	63	125	250	500	1k	2k	4k	8k	dBA
Sound Power,dB	69.0	65.0	61.0	58.0	56.0	54.0	50.0	0.0	
A-Weighted Sound Power, dBA									0.0

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