

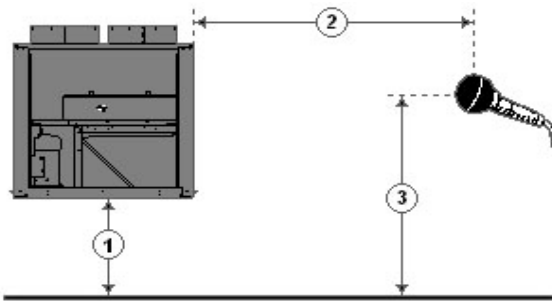
Acoustic Summary For 30RB120

Project: A123 Hawaii
Prepared By:

12/21/2011
11:15AM

Unit Parameters

Tag Name:..... **30RB120**
 Model Number:..... **30RB120**
 Condenser Type:..... **Air Cooled**
 Compressor Type:..... **Scroll**
 Chiller Nameplate Voltage:..... **460-3-60** V-Ph-Hz
 Quantity:..... **1**
 Manufacturing Source:..... **Charlotte, NC USA**
 Refrigerant:..... **R410A**
 Shipping Weight:..... **7667** lb
 Operating Weight:..... **8042** lb
 Unit Length:..... **189** in
 Unit Width:..... **89** in
 Unit Height:..... **90** in



- 1 - Chiller Height Above Ground
- 2 - Horizontal Distance From Chiller to Receiver
- 3 - Receiver Height Above Ground

Accessories and Installed Options

Freeze Protection
 Suction Line Insulation
 Non-Fused Disconnect
 Micro Channel, E-Coat
 Dual Pump, 15 HP; No VFD

Minimum Load Control
 Single Point
 BACnet Translator Control
 Coil Trim Panels, Grilles, Upper Hail Guards
 65 k Current Rating (380V/460V)

Acoustic Information (Full Load)

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	Total
Sound pressure at specified distance in a free field, dB	57	60	65	63	66	64	58	55	47	72
A-Weighted Sound Pressure Level, dBA	17	34	49	55	63	64	59	56	46	68
Sound Power at Chiller Acoustic Center, dB	89	92	98	96	99	96	90	87	79	104
A-Weighted Sound Power, dBA	50	66	82	87	95	96	91	88	78	100

Notes

1 - Chiller Height Above Ground = 0.0 ft
 2 - Horizontal Distance From Chiller to Receiver = 50.0 ft
 3 - Receiver Height Above Ground = 0.0 ft
 Estimated Sound Power levels - dB re: 1 picowatt
 Estimated Sound Pressure levels - dB re: 20 micropascal
 Estimated sound levels given above are assumed to originate at the acoustic center of the chiller.

Sound pressure level data used to develop this program was determined in accordance with AHRI Standard 575 for water chillers in a free field and ANSI/AHRI Standard 370 for air cooled chillers.

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.