

Acoustic Summary For Untitled1

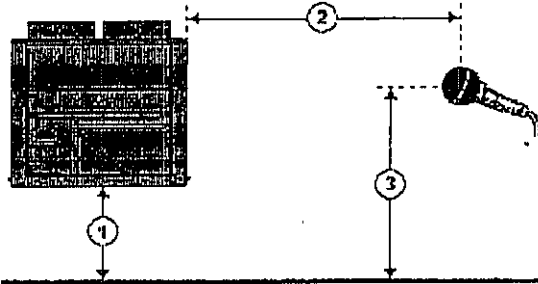
Project: -Untitled2
 Prepared By:

07/06/2007
 02:42PM

Unit Parameters

Tag Name:Untitled1
 Quantity:1
 Condenser Type:Air Cooled
 Compressor Type:Scroll
 Unit Model:30RB225
 Nameplate Voltage:460-3-50
 Refrigerant:R410A

V-Ph-Hz



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

Acoustic Information (Full Load)

Octave Band Center Frequency, Hz	31	63	125	250	500	1k	2k	4k	8k	Total
Sound Power at Chiller Acoustic Center, dB	90	94	99	97	98	97	92	89	79	105
A-Weighted Sound Power, dBA	51	68	83	89	95	97	93	90	78	101
Sound pressure at specified distance in a free field, dB	58	62	67	65	66	65	59	56	46	73
A-Weighted Sound Pressure Level, dBA	19	38	51	57	62	65	61	57	45	69

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 Power 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 ARI Standard 575 for water chillers in a free field and ARI Standard 370 for air cooled chillers.

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the ARI 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.

w/low Sound PRg