

**Job Information**

Hyatt  
 Bennett  
 Portland, ME

**Selected By**

R. T Forbes Company, Inc.  
 1 Lummus Avenue  
 PO Box 209  
 rscogland@comcast.net

Richard Scogland  
 Tel 978-777-1220  
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**Cooling Tower Definition**

Manufacturer	Marley	Fan Speed (100.0 %)	635 rpm
Product	Aquatower Steel	Fan Tip Speed (100.0 %)	8977.1 fpm
Model	495K	Fan Motor Speed (100.0 %)	1800 rpm
Cells	1	Fan Motor Capacity per cell	5.000 BHp
Fan	4.50 ft, 6 Blades	Fan Motor Output per cell	4.000 BHp
Fans per cell	1	Fan Motor Output total	4.000 BHp
Model Group	Standard		

**Sound**

1-Cell sound data for an unobstructed environment.

Sound Pressure Level (SPL) expressed in dB (re: 20x10<sup>-6</sup> Pa)  
 Sound Power Level (PWL) expressed in dB (re: 1x10<sup>-12</sup> watts)

Distance	Location	Octave Band Center Frequency (Hz)								Overall
		63	125	250	500	1000	2000	4000	8000	
50.00 ft	Air Inlet Face SPL	69	76	68	64	60	55	46	39	67
50.00 ft	Cased Face SPL	71	74	65	61	54	49	42	36	63
50.00 ft	Fan Discharge Face SPL	70	76	66	66	62	57	49	41	68
50.00 ft	Top Deck SPL	68	71	64	60	55	50	46	43	62
	Tower PWL	102	107	98	95	90	85	78	72	97

**Notes**

- Sound Pressure Levels at Fan Discharge are measured on the cased face side opposite the motor, far enough outside the air stream to prevent air noise from affecting the reading.
- Sound data is in accordance with ATC-128.

**Susan Hathaway**

**From:** Morrill, Peter <PWMORRILL@TRANE.COM>  
**Sent:** Wednesday, July 31, 2013 10:28 AM  
**To:** Susan Hathaway  
**Cc:** Broderick, Dan  
**Subject:** RE: Hyatt

Susan,

This is what we have for sound data:

radiated sound levels:

2 Fan Config	OA1D096 - OA1D180							
	Octave Band (@ 5ft)							
	1	2	3	4	5	6	7	8
SPL dB(A)	48	55	60	64	67	67	66	60
	Octave Band (@ 3ft)							
	1	2	3	4	5	6	7	8
SPL dB(A)	53	60	65	68	71	72	71	64
	Octave Band (@ 1ft)							
	1	2	3	4	5	6	7	8
SPL dB(A)	62	69	74	78	81	81	80	74

Ducted Sound Levels:

ERU-1-

Supply:

Sound Power Levels in dB ref 10<sup>-12</sup> Watts

Octave	1	2	3	4	5	6	7	8	LwA
Inlet	77	80	85	79	70	73	71	67	82
Outlet	78	82	87	83	80	81	78	73	87

Exhaust:

Sound Power Levels in dB ref 10<sup>-12</sup> Watts

Octave	1	2	3	4	5	6	7	8	LwA
Inlet	75	78	83	75	69	73	71	63	80
Outlet	76	81	85	80	79	80	76	71	86

ERU-2-

Supply:

Sound Power Levels in dB ref 10<sup>-12</sup> Watts

Octave	1	2	3	4	5	6	7	8	LwA
Inlet	81	82	89	89	78	79	79	74	89
Outlet	83	84	90	91	85	85	84	79	93

Exhaust:

Sound Power Levels in dB ref 10<sup>-12</sup> Watts

Octave	1	2	3	4	5	6	7	8	LwA
Inlet	78	79	87	83	74	77	78	69	86
Outlet	78	82	87	85	82	83	81	75	89

ERU-3-

Supply:

Sound Power Levels in dB ref 10<sup>-12</sup> Watts

Octave	1	2	3	4	5	6	7	8	LwA
Inlet	80	82	89	87	78	78	77	73	88
Outlet	82	84	90	90	84	84	82	77	92

Exhaust:

Sound Power Levels in dB ref 10<sup>-12</sup> Watts

Octave	1	2	3	4	5	6	7	8	LwA
Inlet	78	79	87	82	74	77	78	68	85
Outlet	78	82	87	85	82	83	80	75	89

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**From:** Susan Hathaway [<mailto:shathaway@titanmech.com>]  
**Sent:** Wednesday, July 31, 2013 9:13 AM  
**To:** Morrill, Peter  
**Subject:** Hyatt

Pete,

Do you have dBA ratings for the ERV for the Hyatt project? Consigli is asking to have In hand for tomorrow's meeting. Thanks.

**Susan Hathaway**  
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