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Heating & Cooling Products

Dan Maia
Gil-Bar Solutions
321 Snyder Ave.
Berkeley Heights, NJ 07922

April 4, 2023

RE: One School Global – Pequannock, NJ

Dan,

Please find enclosed sound pressure level charts for your consideration, outlining the sound pressure level by band, and as a composite, for the specified Aaon RTUs at the One School Global project in Pequannock. We have provided tables for 50', 100' and 150' from the sound source (RTU location on the roof) to demonstrate sound dissipation on the site.

Let me know if you have any further questions.

Sincerely,

A handwritten signature in blue ink, appearing to read "MJ", is positioned above the printed name of the sender.

Matt Jones
Northeast Regional Sales Manager

AAON Condenser Radiated Sound Levels

Sound Pressure Level in a Hemispherical Free Field
Dist (ft)
50

Fans Dia RPM					Sound Power Level								LwA	Sound Pressure Level										dBA
					63	125	250	500	1000	2000	4000	8000		63	125	250	500	1000	2000	4000	8000			
RQ 2 & 3 Ton	Inlet	1	30	850	79	74	72	70	66	62	59	59	72	48	42	40	38	34	31	28	27	40		
	Outlet				81	77	71	71	67	62	59	58	73	49	46	39	39	35	31	28	26	41		
	Total				83	79	74	73	69	65	62	61	75	52	47	43	42	38	34	31	30	43		
RQ 4-6 Ton & RN 6 & 7 Ton	Inlet	1	30	1085	85	79	77	75	71	68	65	64	77	53	47	46	43	39	36	33	32	45		
	Outlet				86	83	76	76	72	68	65	63	78	55	51	44	45	40	36	33	32	46		
	Total				89	84	80	79	75	71	68	67	80	57	53	48	47	43	39	36	35	49		
RN 8 & 10 Ton	Inlet	1	30	1085	92	86	85	82	78	75	72	71	84	60	55	53	50	46	43	40	40	53		
	Outlet				94	90	83	83	79	75	72	71	85	62	58	51	52	48	43	40	39	53		
	Total				96	91	87	86	82	78	75	74	88	64	60	55	54	50	46	43	42	56		
RN 09 & 11 Ton	Inlet	2	30	1085	88	82	80	78	74	71	68	67	80	56	50	49	46	42	39	36	35	48		
	Outlet				89	86	79	79	75	71	68	66	81	58	54	47	48	43	39	36	35	49		
	Total				92	87	83	82	78	74	71	70	83	60	56	51	50	46	42	39	38	52		
RN 13-20 Ton	Inlet	2	30	1085	95	89	88	85	81	78	75	74	87	63	58	56	53	49	46	43	43	56		
	Outlet				97	93	86	86	82	78	75	74	88	65	61	54	55	51	46	43	42	56		
	Total				99	94	90	89	85	81	78	77	91	67	63	58	57	53	49	46	45	59		

AAON Condenser Radiated Sound Levels

Sound Pressure Level in a Hemispherical Free Field
Dist (ft)
100

Fans Dia RPM					Sound Power Level								Sound Pressure Level									
					63	125	250	500	1000	2000	4000	8000	LwA	63	125	250	500	1000	2000	4000	8000	dBA
RQ 2 & 3 Ton	Inlet	1	30	850	79	74	72	70	66	62	59	59	72	42	36	34	32	28	25	22	21	34
	Outlet				81	77	71	71	67	62	59	58	73	43	40	33	33	29	25	22	20	35
	Total				83	79	74	73	69	65	62	61	75	46	41	37	36	32	28	25	24	37
RQ 4-6 Ton & RN 6 & 7 Ton	Inlet	1	30	1085	85	79	77	75	71	68	65	64	77	47	41	40	37	33	30	27	26	39
	Outlet				86	83	76	76	72	68	65	63	78	49	45	38	38	34	30	27	26	40
	Total				89	84	80	79	75	71	68	67	80	51	47	42	41	37	33	30	29	43
RN 8 & 10 Ton	Inlet	1	30	1085	92	86	85	82	78	75	72	71	84	54	49	47	44	40	37	34	34	46
	Outlet				94	90	83	83	79	75	72	71	85	56	52	45	46	41	37	34	33	47
	Total				96	91	87	86	82	78	75	74	88	58	54	49	48	44	40	37	36	50
RN 09 & 11 Ton	Inlet	2	30	1085	88	82	80	78	74	71	68	67	80	50	44	43	40	36	33	30	29	42
	Outlet				89	86	79	79	75	71	68	66	81	52	48	41	41	37	33	30	29	43
	Total				92	87	83	82	78	74	71	70	83	54	50	45	44	40	36	33	32	46
RN 13-20 Ton	Inlet	2	30	1085	95	89	88	85	81	78	75	74	87	57	52	50	47	43	40	37	37	49
	Outlet				97	93	86	86	82	78	75	74	88	59	55	48	49	44	40	37	36	50
	Total				99	94	90	89	85	81	78	77	91	61	57	52	51	47	43	40	39	53

AAON Condenser Radiated Sound Levels

Sound Pressure Level in a Hemispherical Free Field
Dist (ft)
150

Fans Dia RPM					Sound Power Level								Sound Pressure Level									
					63	125	250	500	1000	2000	4000	8000	LwA	63	125	250	500	1000	2000	4000	8000	dBA
RQ 2 & 3 Ton	Inlet	1	30	850	79	74	72	70	66	62	59	59	72	38	33	31	28	24	21	18	18	30
	Outlet				81	77	71	71	67	62	59	58	73	40	36	29	30	26	21	18	17	31
	Total				83	79	74	73	69	65	62	61	75	42	38	33	32	28	24	21	20	34
RQ 4-6 Ton & RN 6 & 7 Ton	Inlet	1	30	1085	85	79	77	75	71	68	65	64	77	43	38	36	34	30	26	24	23	36
	Outlet				86	83	76	76	72	68	65	63	78	45	42	35	35	31	26	24	22	37
	Total				89	84	80	79	75	71	68	67	80	47	43	38	37	33	29	27	26	39
RN 8 & 10 Ton	Inlet	1	30	1085	92	86	85	82	78	75	72	71	84	51	45	43	41	37	34	31	30	43
	Outlet				94	90	83	83	79	75	72	71	85	52	49	42	42	38	34	31	29	44
	Total				96	91	87	86	82	78	75	74	88	55	50	46	45	40	37	34	33	46
RN 09 & 11 Ton	Inlet	2	30	1085	88	82	80	78	74	71	68	67	80	46	41	39	37	33	29	27	26	39
	Outlet				89	86	79	79	75	71	68	66	81	48	45	38	38	34	29	27	25	40
	Total				92	87	83	82	78	74	71	70	83	50	46	41	40	36	32	30	29	42
RN 13-20 Ton	Inlet	2	30	1085	95	89	88	85	81	78	75	74	87	54	48	46	44	40	37	34	33	46
	Outlet				97	93	86	86	82	78	75	74	88	55	52	45	45	41	37	34	32	47
	Total				99	94	90	89	85	81	78	77	91	58	53	49	48	43	40	37	36	49