Project Name	**Premium House**	**Document Title**	**Calc Ref**	**Rev**
		In duct NR Calculation MVHR	M-1001	S4-P1
Project No	**23141**	**Supply and Exhaust**		
Building			**By**	BH
Document Reference	**23141-CDC-00-XX-CA-M-1001**		**Chk**	BH
			Date	13/02/24

Equipment	Nuaire MRXBOX ECO4 and attenuation pod.
Connetions	Supply and Exhaust
	NB These are most onerous. Extract and Intake are lower
	Figures below taken from manufacturers data sheet.
Result	**NR22**

	dBA							
Hz	63	125	250	500	1000	2000	4000	8000
Equipment	50	58	55	53	47	45	34	26
Silencer	13	18	22	28	26	33	34	36
Result	37	40	33	25	21	12	0	-10

http://apps.engineeringtoolbox.com/noise-rating-nr-a_20.html

http://www.engineeringtoolbox.com/nr-noise-rating-d_518.html

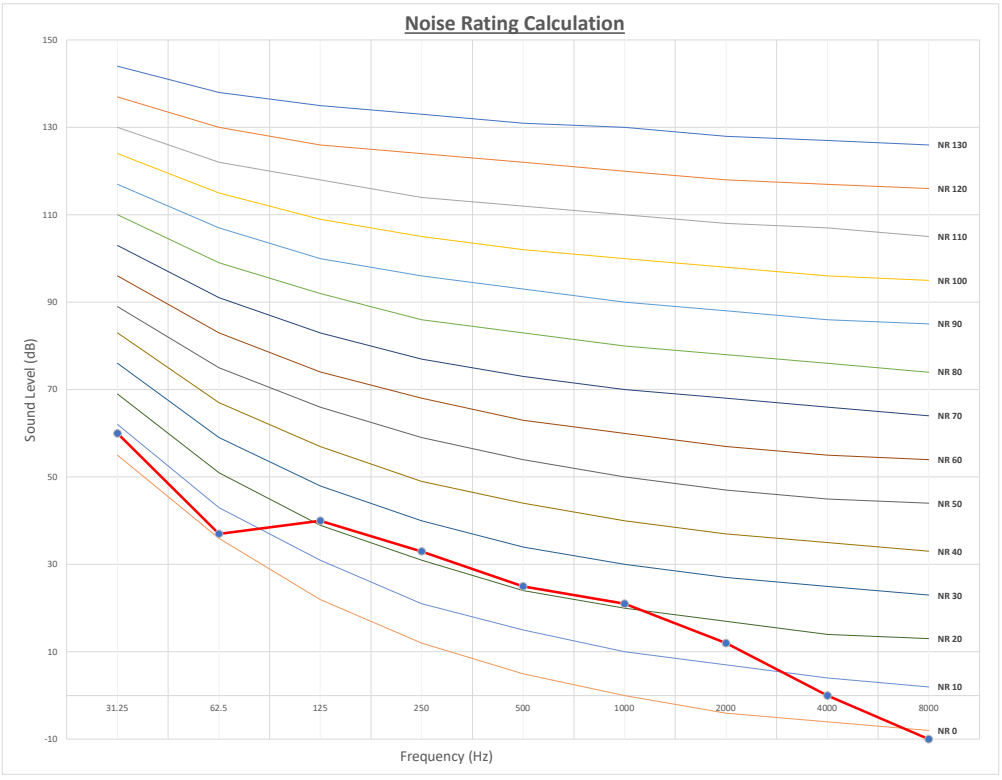
NR - Noise Rating Calculation

For more info:

http://www.engineeringtoolbox.com/nr-noise-rating-d_60.html

If you are signed into your Google Account - select "File > Make a copy" to make your own copy to modify!!

	Octave Band Center Frequency (Hz)								
	31.25	62.5	125	250	500	1000	2000	4000	8000
NR 130	144	138	135	133	131	130	128	127	126
NR 120	137	130	126	124	122	120	118	117	116
NR 110	130	122	118	114	112	110	108	107	105
NR 100	124	115	109	105	102	100	98	96	95
NR 90	117	107	100	96	93	90	88	86	85
NR 80	110	99	92	86	83	80	78	76	74
NR 70	103	91	83	77	73	70	68	66	64
NR 60	96	83	74	68	63	60	57	55	54
NR 50	89	75	66	59	54	50	47	45	44
NR 40	83	67	57	49	44	40	37	35	33
NR 30	76	59	48	40	34	30	27	25	23
NR 20	69	51	39	31	24	20	17	14	13
NR 10	62	43	31	21	15	10	7	4	2
NR 0	55	36	22	12	5	0	-4	-6	-8
Measured / Estimated values	60	37	40	33	25	21	12	0	-10



The NR plot rises slightly above the NR 20 curve. Approximately NR22