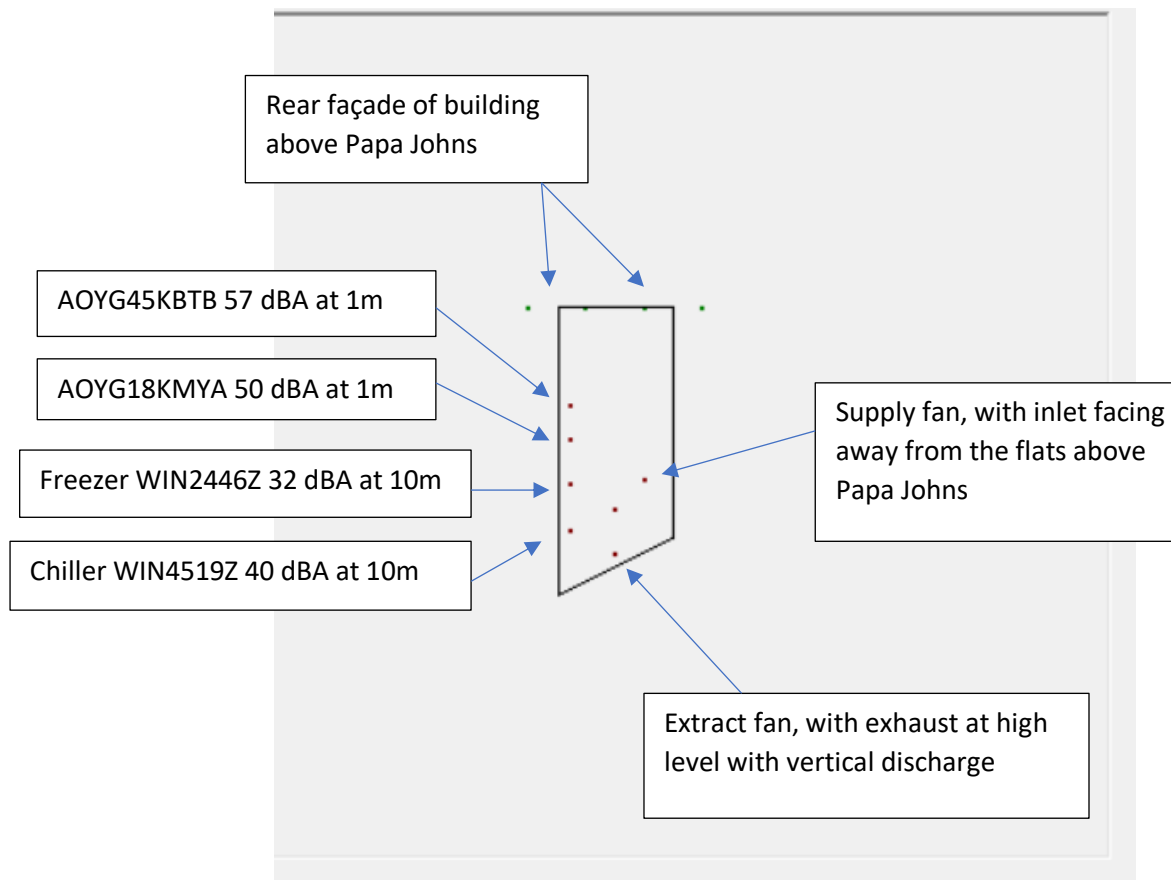


Papa Johns, Holborn



Noise source data

Equipment name/reference	Lw/ Lp	Dist. (m)	On time D/N/A	Mid-frequency Octave Bands (Hz)								
				63	125	250	500	1k	2k	4k	8k	
Chiller condenser	Lp	10	A	40	dBA							
Freezer condenser	Lp	10	A	32	dBA							
AC condenser	Lp	1	D	57	dBA							
AC condenser	Lp	1	D	50	dBA							
Extract fan exhaust	Lw		D	72	87	82	75	71	64	60	57	
Extract fan casing radiated	Lw		D	66	71	61	45	37	26	20	20	
Supply fan inlet	Lw		D	67	69	71	63	63	63	59	53	

Assume that the supply and extract fans, and the AC condensers will operate daytime only 0700-2300 hours, if not will need to assess all plant against night time criteria.

Attenuator insertion losses

Atmospheric side dynamic insertion losses for noise control equipment									
Equipment name/reference		Mid-frequency Octave Bands (Hz)							
		63	125	250	500	1k	2k	4k	8k
Extract fan exhaust		2	3	6	8	11	10	8	6
Supply fan inlet		2	3	6	12	13	11	10	6

Predicted noise levels

Overall receptor listings											
Period:	Day time	Mid frequency octave bands (Hz)									
		63	125	250	500	1k	2k	4k	8k	dBA	
Flats above Papa Johns		68	61	53	46	42	41	41	43	52	
Adjacent property		68	60	53	46	42	41	41	43	52	
Flats above Papa Johns		67	60	52	45	41	40	40	42	51	
Flats above Papa Johns		66	59	51	44	40	39	39	41	50	
Adjacent property		66	59	51	44	40	39	39	41	50	
Flats above Papa Johns		65	59	51	44	40	38	38	40	50	
Adjacent property		65	59	51	43	40	38	38	40	49	
Adjacent property		64	59	51	43	39	38	37	39	49	
Adjacent property		64	57	51	44	39	37	37	39	49	
Flats above Papa Johns		64	57	51	44	39	37	37	39	49	
Flats above Papa Johns		63	57	51	44	38	37	37	38	48	
Adjacent property		62	56	50	43	38	36	36	37	48	

Overall receptor listings											
Period:	Night-time	Mid frequency octave bands (Hz)									
		63	125	250	500	1k	2k	4k	8k	dBA	
Flats above Papa Johns		63	53	46	40	37	36	36	38	46	
Flats above Papa Johns		63	53	46	40	37	36	36	38	46	
Adjacent property		63	53	46	40	37	36	36	38	46	
Flats above Papa Johns		62	52	45	39	36	35	35	37	45	
Flats above Papa Johns		62	52	45	39	36	35	35	37	45	
Adjacent property		62	52	45	39	36	35	35	37	45	
Adjacent property		62	52	45	39	36	35	35	37	45	
Flats above Papa Johns		61	51	44	38	35	34	34	36	44	
Adjacent property		61	51	44	38	35	34	34	36	44	
Flats above Papa Johns		61	51	44	38	35	34	34	36	44	
Adjacent property		61	51	44	38	35	34	34	36	44	
Adjacent property		60	50	43	37	34	33	33	35	43	

Example of sources contributing

Source noise levels at receiver: Adjacent property										
Period:	Day time									
		Mid frequency octave bands (Hz)								
		63	125	250	500	1k	2k	4k	8k	dBA
AC condenser		66	56	49	43	40	39	39	41	49
Chiller condenser		62	52	45	39	36	35	35	37	45
Extract fan exhaust		41	56	47	37	27	21	16	15	43
Freezer condenser		56	46	39	33	30	29	29	31	39
AC condenser		56	46	39	33	30	29	29	31	39
Extract fan casing radiated		43	48	38	22	14	3	0	0	34
Supply fan inlet		38	40	38	23	19	21	15	13	32
Total Free field Lp and dBA		68	60	53	46	42	41	41	43	52

Source noise levels at receiver: Adjacent property										
Period:	Night-time									
		Mid frequency octave bands (Hz)								
		63	125	250	500	1k	2k	4k	8k	dBA
Chiller condenser		62	52	45	39	36	35	35	37	45
Freezer condenser		56	46	39	33	30	29	29	31	39
Total Free field Lp and dBA		63	53	46	40	37	36	36	38	46