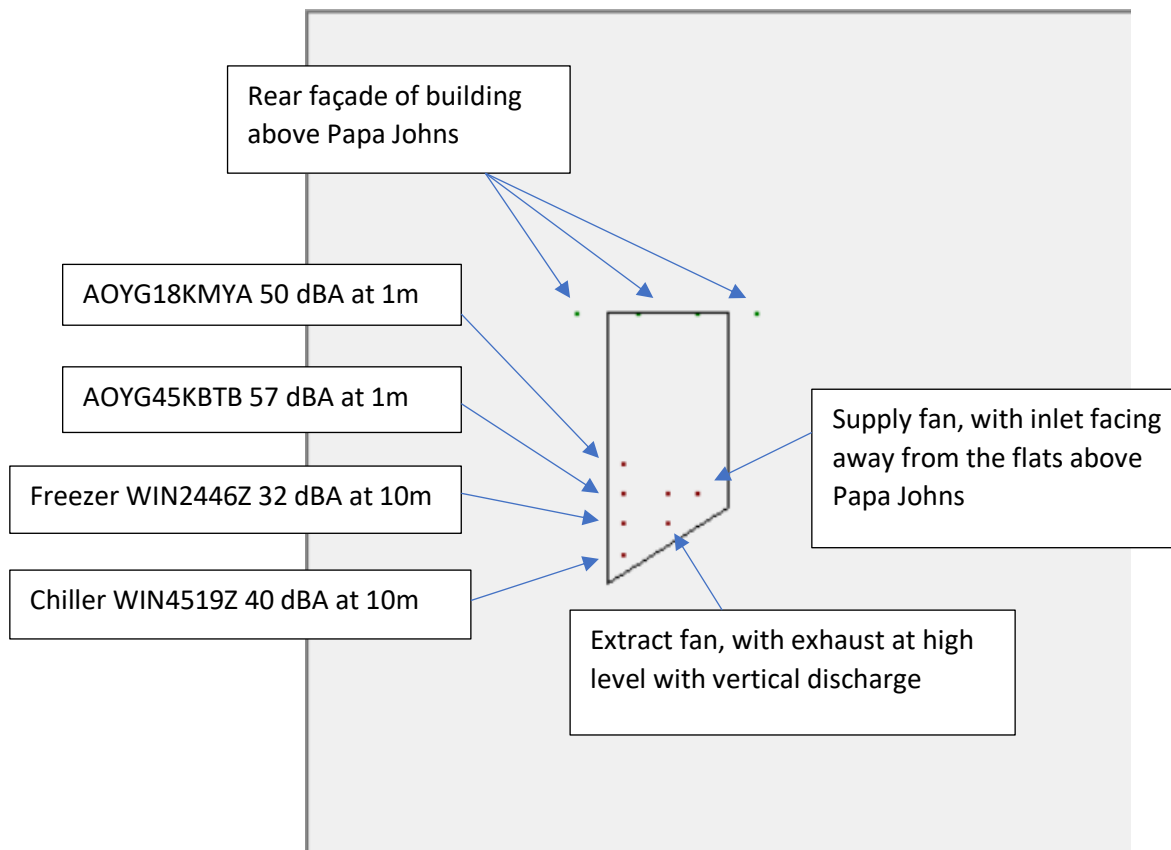


## Papa Johns, Holborn



## 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	dB(A)	
Flats above Papa Johns		66	61	52	44	40	39	39	41	51	
Flats above Papa Johns		66	61	52	44	40	39	39	41	51	
Adjacent property		66	60	52	44	40	39	39	41	50	
Flats above Papa Johns		65	60	52	44	39	38	38	40	50	
Flats above Papa Johns		65	60	52	44	39	38	38	40	50	
Adjacent property		65	59	51	43	39	38	38	40	49	
Adjacent property		65	59	51	43	39	38	38	39	49	
Flats above Papa Johns		63	58	52	45	39	37	36	38	49	
Flats above Papa Johns		63	57	52	45	39	37	36	38	49	
Adjacent property		64	59	51	43	38	37	37	39	49	
Adjacent property		63	57	51	44	38	36	36	38	48	
Adjacent property		62	57	51	44	38	36	36	38	48	

Overall receptor listings											
Period:	Night-time	Mid frequency octave bands (Hz)									
		63	125	250	500	1k	2k	4k	8k	dB(A)	
Flats above Papa Johns		64	54	47	41	38	37	37	39	47	
Flats above Papa Johns		64	54	47	41	38	37	37	39	47	
Adjacent property		64	54	47	41	38	37	37	39	47	
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	
Adjacent property		63	53	46	40	37	36	36	38	46	
Adjacent property		62	52	45	39	36	35	35	37	45	
Flats above Papa Johns		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		61	51	44	38	35	34	34	36	44	

### Example of sources contributing

Source noise levels at receiver: Flats above Papa Johns										
Period:	Day time									
		Mid frequency octave bands (Hz)								
		63	125	250	500	1k	2k	4k	8k	dBA
Chiller condenser		63	53	46	40	37	36	36	38	46
Extract fan exhaust		43	58	49	39	29	23	18	17	45
AC condenser		61	51	44	38	35	34	34	36	44
AC condenser		56	46	39	33	30	29	29	31	39
Freezer condenser		54	44	37	31	28	27	27	29	37
Extract fan casing radiated		45	50	40	24	16	5	0	0	36
Supply fan inlet		39	41	39	24	20	22	16	14	33
Total Free field Lp and dBA		66	61	52	44	40	39	39	41	51

Source noise levels at receiver: Flats above Papa Johns										
Period:	Night-time									
		Mid frequency octave bands (Hz)								
		63	125	250	500	1k	2k	4k	8k	dBA
Chiller condenser		63	53	46	40	37	36	36	38	46
Freezer condenser		54	44	37	31	28	27	27	29	37
Total Free field Lp and dBA		64	54	47	41	38	37	37	39	47