

700 2077-Q7 - APPENDIX A: NOISE DATA SUBMISSION

FAO:	Messrs. Kevin Ashton / Steve Tullet	DATE:	28/02/25
Company:	WBPS	Customer Ref:	021319 Fairfield Hospital

We are pleased to submit preliminary Noise Data as requested:

PROJECT No: 021319 Fairfield Hospital KD1000-F

NOISE DATA FOR PROPOSED GENERATOR SET, CANOPY AND EXHAUST GAS SILENCERS.									
WITH KD1000-F (KD27V12 ENGINE RUNNING @ 1500RPM)									
FREQUENCY (Hz)	Octave band Centres (dB).								OVERALL dB(A)
	63	125	250	500	1000	2000	4000	8000	
UNSILENCED ENGINE NOISE (relkho Data) L _w	113.7	120.8	118.6	115.5	114.8	115.1	110.9	110.0	121.0
UNSILENCED Radiator fan (relkho Data) L _w	103.5	108.5	112.5	110.5	105.5	103.5	100.5	97.5	110.5
TOTAL Reverberent level in room L _p	109.5	116.4	114.9	112.1	109.3	108.8	104.7	103.6	115.6
INLET ATTN PREDICTED L _p @1m	91.8	93.8	83.0	67.6	55.3	49.6	47.9	54.5	79.7
DISCHARGE PREDICTED L _p @1m	93.6	94.4	81.7	64.4	51.0	45.3	45.2	56.7	79.7
UNSILENCED EXHAUST NOISE L _w	142.5	131.2	125.3	125.1	125.6	125.6	122.5	120.1	
EXHAUST Silencer L _p @1m	105	79	64	63	54	50	48	50	79
NOTES: Grey areas above denote source data stated in L_w Sound Power levels. White areas above denote calculated data, stated in L_p Sound Pressure levels at 1m from the unit. Calculations for noise within the unit is carried out using both the engine and radiator fan as noise sources to ensure "Beaming" from fan Pure Tones is prevented in the discharge attenuator.									