

Abraham Moss Leisure Centre – Plant Acoustics

Plant Item	Location	Supplier	Model Ref	Acoustic Data	Notes
CHP	Plantroom 1 GF	Centrica EnerG	E70M	65 dBA at 1m	
Boiler 1	Plantroom 1 GF	TBC	TBC	65 dBA at 1m	Supplier TBC, went worst case
Boiler 2	Plantroom 1 GF	TBC	TBC	65 dBA at 1m	Supplier TBC, went worst case
AHU 1	Level 1 Plant deck	TBC	TBC	See Extract below	Supplier TBC, went worst case
AHU 2	Level 1 Plant deck	TBC	TBC	See Extract below	Supplier TBC, went worst case
AHU 3	Level 1 Plant deck	TBC	TBC	See Extract below	Supplier TBC, went worst case
AHU 4	Level 1 Plant deck	TBC	TBC	See Extract below	Supplier TBC, went worst case
Cold Water Booster Set	Plantroom 1 GF	Wilo	COR 3 MHIE 406-2G/SCE	66 dBA at 1m	
Press Unit	Plantroom 1 GF	Wilo	P235 Digital PU	72 dBA at 1m	
Pump P01-P02	Plantroom 1 Gf	Wilo	Stratos Maxo D 32/0.5-8	27 dBA at 1m	
Pump P03-P04	Plantroom 1 GF	Wilo	Stratos Maxo D 80/0.5-12	37 dBA at 1m	
Pump CP01	Plantroom 1 GF	Wilo	Top Z 25/10	22 dBA at 1m	
Boiler Shunt Pumps	Plantroom 1 GF	Wilo	Stratos Maxo D 80/0.5-6	37 dBA at 1m	
Cat 5 Booster	Plantroom 1 Gf	TBC	TBC	65.8 dBA at 1m	Supplier TBC, went worst case
PHEX Pump	Plantroom 1 GF	Ormandy Rycroft		50 dBA at 1m	
ASHP 1	Roof Plant	TBC	TBC	69 dBA at 1m	Supplier TBC, went worst case
ASHP 2	Roof Plant	TBC	TBC	64 dBA at 1m	Supplier TBC, went worst case
ASHP 3	Roof Plant	TBC	TBC	64 dBA at 1m	Supplier TBC, went worst case
ASHP 4	Roof Plant	TBC	TBC	46 dBA at 1m	Supplier TBC, went worst case

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Air Handling Units

AHU 1

FREQUENCY (Hz)	63	125	250	500	1K	2K	4K	8K
SUPPLY FAN DB INLET	77	77	74	71	68	64	61	63
SUPPLY FAN DB OUTLET	79	83	78	80	77	72	69	66
EXTRACT FAN DB INLET	76	77	74	71	67	64	61	63
EXTRACT FAN DB OUTLET	79	82	78	80	76	72	68	66

AHU 2

FREQUENCY (Hz)	63	125	250	500	1K	2K	4K	8K
SUPPLY FAN DB INLET	77	77	74	71	68	64	61	63
SUPPLY FAN DB OUTLET	79	83	78	80	77	72	69	66
EXTRACT FAN DB INLET	76	77	74	71	67	64	61	63
EXTRACT FAN DB OUTLET	79	82	78	80	76	72	68	66

AHU 3

FREQUENCY (Hz)	63	125	250	500	1K	2K	4K	8K
SUPPLY FAN DB INLET	81	82	79	74	71	68	65	70
SUPPLY FAN DB OUTLET	82	86	83	84	80	77	73	73
EXTRACT FAN DB INLET	80	82	79	74	71	67	64	70
EXTRACT FAN DB OUTLET	82	85	83	84	80	76	72	73

AHU 4

FREQUENCY (Hz)	63	125	250	500	1K	2K	4K	8K
SUPPLY FAN DB INLET	82	86	82	79	76	73	70	71
SUPPLY FAN DB OUTLET	84	91	85	87	84	81	78	74
EXTRACT FAN DB INLET	85	85	82	78	75	72	69	71
EXTRACT FAN DB OUTLET	86	89	85	86	83	79	75	73