## **HVAC Information for Planning**

Project:	Witchford College	Job no:	305133
Client:	Cambridgeshire County Council	Date:	05/12/2023

## AHU Design Technical specification

Project: Witchford College AHU Selection (799933b) Unit name: 1 - Sports Hall AHU - Sports Hall AHU - Design data Date: 29/11/2023 35 / 1.0.20231004.1111558 Unit ID: AD-10001599589

Swegon<sup>4</sup>

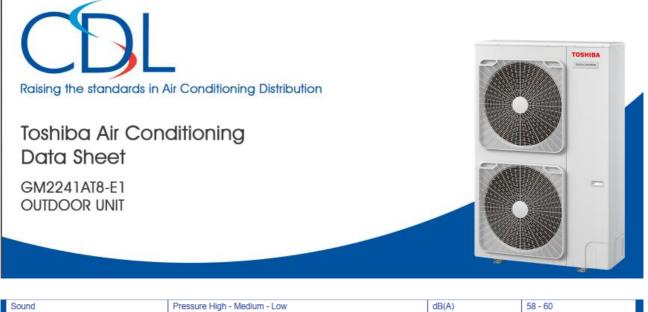
Sound power emitted to surroundings, measured according to ISO 3741

Frequency band	63	125	250	500	1k	2k	4k	8k		All	
To supply air duct	74	63	55	48	38	42	55	60	dB	61	dB(A)
To outdoor air duct	69	62	52	32	17	19	30	38	dB	49	dB(A)
To extract air duct	69	62	53	32	17	20	34	42	dB	50	dB(A)
To exhaust air duct	74	63	55	48	38	42	55	60	dB	61	dB(A)
To surroundings	74	66	59	63	48	47	44	47	dB	61	dB(A)

Filter	
Filter class ePM10 60% (M5)	
2x(592x592x520-10), 2x(592x287x520-10), 1x(287x592x520-5)	
Velocity in the filter section	1.87 m/s
Recommended design pressure drop	62 Pa
Initial pressure drop	31 Pa
Final pressure drop	92 Pa

Dimensioning data	1 - Sports Hall AHU	
Unit size		030
Air density		1.200 kg/m³
Supply air flow		2.500 m³/s

1



Sound

Pressure High - Medium - Low Power High - Medium - Low

dB(A)

76 - 76