



HPAM EC Fan Wall Preliminary Data

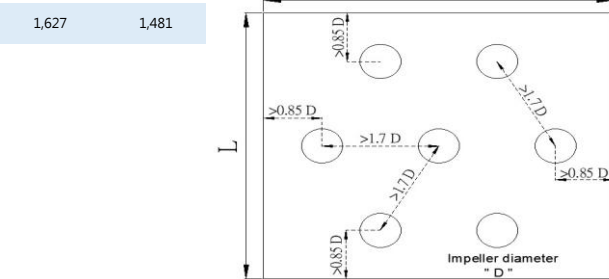
Date : 2025/4/1

Fan Wall data

Air flow (Total)	16,000.0	CMH(m ³ /H)	Min Width	1,627	mm
Air pressure	1,000.00	Pa	Min Length	1,481	mm
Model name	GTM031PBM22R		Height	261	mm
Condition	Minimum Quantity		Power	7,511	W
Number of fans	7		Energy consumption / Year (8760hr)	65,796	kWh

Layout of Fan Wall

Width (W) x Length (L)



Nominal data(single fan)

Model name	GTM031PBM22R		Min. temperature	-25	dC
Phase /Voltage	3P-380Vac ~ 480Vac		Max. temperature	60	dC
Frequency	50/60 Hz		Diameter	319	mm
Speed max.	3,310	rpm	Width	400	mm
Power input max.	1,250	W	Length	400	mm
Current rated	2.3	A	Height	261	mm
Accessories	bracket, nozzle				

Operating point data (single fan)

Note	Air flow	Air pressure (static)	Speed	Speed Factor	Power	Eff	Eff (ERP)	Specific Fan Power	Fan Energy Index	Power Factor	Air pressure (dynamic)	Energy consumption / Year (8760hr)	Total harmonic distortion
OP	Q [m ³ /hr]	P [Pa]	N [RPM]	%	P _i [W]	η _s [%]	η _{ERP} [%]	SFP [kW/(m ³ /s)]	FEI	PF	Pd [Pa]	E [kWh]	THDi [%]
1	2,286.0	1,000.00	3,199	97	1,073	55	60	1.69	1.60	NA	24.09	9,399.5	NA

Air performance (single fan)

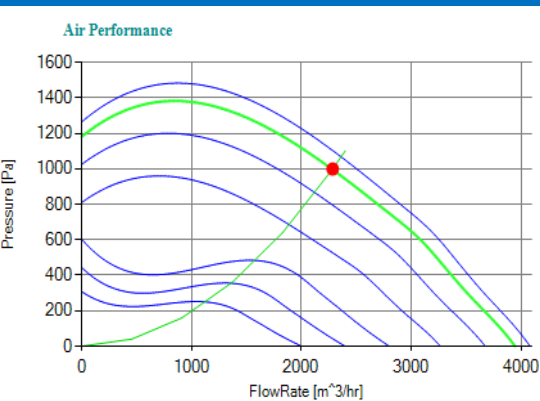
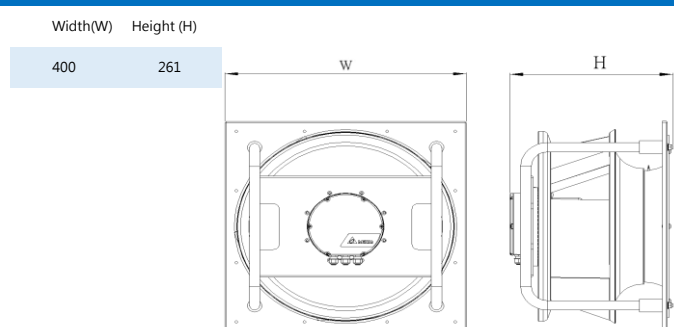
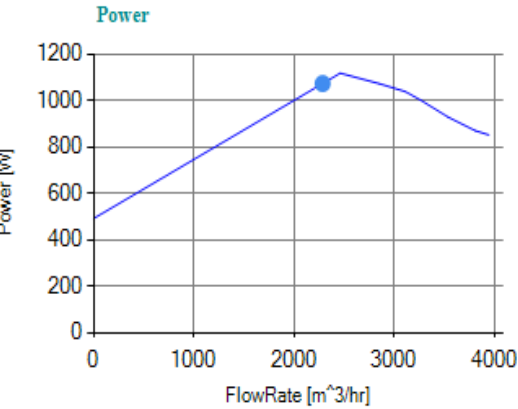


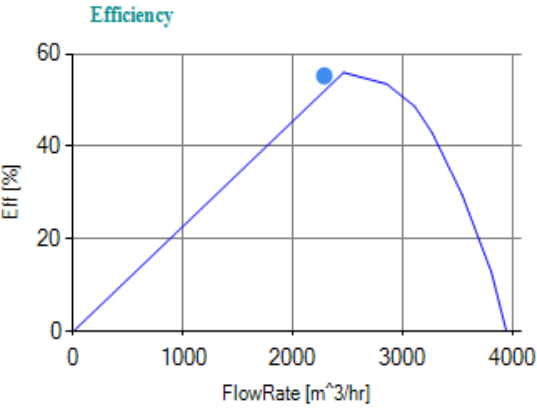
Illustration of Fan



Power Input P_i (W) of single fan



Overall static efficiency η_s % of single fan



Sound power A-weighted (single fan)

Inlet Sound Power(dBA)

1.0 0.8 0.6 0.4 0.2 0.0 Total631252505001000200040008000													
OP	Total	63	125	250	500	1000	2000	4000	8000				
1	NA	NA	NA	NA	NA	NA	NA	NA	NA				

Outlet Sound Power(dBA)

1.0 0.8 0.6 0.4 0.2 0.0 Total631252505001000200040008000													
OP	Total	63	125	250	500	1000	2000	4000	8000				
1	NA	NA	NA	NA	NA	NA	NA	NA	NA				