MEWall

Data Centre Fan Wall

Mitsubishi Electric's new **MEWall** brings performance and reliability at scale. It is ideal for hyperscale datacentres and large co-location customers, so that they can fully utilise their large building structures to deliver improved efficiencies and make every kW count.

By changing the airflow convention, the unit is designed for horizontal airflow at scale. This allows for taller heat exchangers, with elevated water temperatures, improving performance over conventional designs. It also allows for the separation of the white space from the technical corridor, simplifying security arrangements. Most importantly, this design eliminates the need for raised floors: simplifying building design, installation and reducing costs.

Key Features & Benefits:

- Eliminates the need for raised floors in your white space
- Highly efficient EC fan combined with efficient heat exchanger
- Operates at modern hyperscale conditions
- Easy to service - fully accessible from the front
- Advanced control and networking options

MEWall
Data Centre Fan Wall

FAN WALL			402	462
PERFORMANCE				
COOLING CAPACITY*1	Total	kW	412	435
SENSIBLE HEAT RATIO (SHR)			1.00	1.0
ENERGY EFFICIENCY RATIO (EER)*2		kW/kW	24.1	22.40
FANS				
DIRECTION			Horizontal	Horizontal
TYPE			EC	EC
QUANTITY		No.	8	8
AIRFLOW		m^3/h	90000	100000
TOTAL POWER INPUT*3		kW	17.1	19.4
EXTERNAL STATIC PRESSURE		Pa	50	50
MAX EXTERNAL STATIC PRESSURE		Pa	197	128
CHILLED WATER CIRCUIT*1				
WATER FLOW		l/s	9.89	10.4
TOTAL PRESSURE DROP*4		kPa	46	43.5
ELECTRICAL DATA				
POWER SUPPLY		V/ph/Hz	400/3/50	400/3/50
F.L.A.	Total	A	40	40
SOUND LEVEL*5				
TOTAL SOUND PRESSURE LEVEL		dB(A)	63	65
TOTAL SOUND POWER LEVEL		dB(A)	83	85
DIMENSIONS AND WEIGHT				
WIDTH		mm	3600	3600
DEPTH		mm	1600	1600
HEIGHT		mm	3500	4000
NET WEIGHT		kg	2300	2500
CONNECTIONS				
WATER*6	Inlet / Outlet	DN	80	80
	Inlet / Outlet	Ø inches	3	3
CONDENSATE DRAIN*7		Ø mm	22	22

Notes:
*1: Gross Total Values shown. Operating Conditions: Return Air Temperature: 37°C / Relative Humidity: 25% / Water Inlet: 20°C / Water DeltaT: 10K / Glycol: 0%.
*2: EER for indoor unit only.
*3: Coressponding to nominal external static pressure (ESP) of 50Pa.
*4: Modules are in parallel and pressure drop refers to a single module at listed flow rate only.
*5: Average sound level, at 1m distance, unit in a free field on a reflective surface according to ISO 3744.
*6: See Databook for specific details on hydraulic connection requirements.
*7: Rubber pipe - refers to internal diameter.

MITSUBISHI ELECTRIC
Changes for the Better

Telephone: **01707 282880**
email: **air.conditioning@meuk.mee.com**
les.mitsubishielectric.co.uk

@meuk_les
@green_gateway
Mitsubishi Electric Living Environmental Systems UK
Mitsubishi Electric Cooling and Heating UK
mitsubishielectricuk_les
Mitsubishi Electric Living Environmental Systems UK
BLOG thehub.mitsubishielectric.co.uk

UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division, Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880 Fax: 01707 278881
IRELAND Mitsubishi Electric Europe, Westgate Business Park, Ballymount, Dublin 24, Ireland. Telephone: (01) 419 8800 Fax: (01) 419 8890 International code: (003531)

Note: The fuse rating is for guidance only and please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R290 (GWP:3), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R454C (GWP:148), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of February 2024

Green Gateway greengateway.mitsubishielectric.co.uk