

MEWALL

Data Centre Fan Wall

Mitsubishi Electric's new and improved **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.

Available in 2 sizes for 350kW to 400kW applications, it is available with a variety of options including an option to replace the side panels with filters to lower the airflow pressure drop and further improve on efficiency.

Key Features & Benefits:

- State of the art EC fans with high efficiency air intake grilles
- High quality, low pressure drop filters easily accessible from the front
- Improved performance with side filter version
- 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
- Available with variety of options including a variety of hydronic control valves, harmonic filters, fast restarts, touchscreen display and more...





MEWALL			0402		0462	
Version			-	-SF	-	-SF
PERFORMANCE - Nominal						
COOLING CAPACITY ¹	Total	kW	340.6	338.9	382.9	380.9
SHR			1.00	1.00	1.00	1.00
EER*2			36.9	40.7	36.5	39.1
AIRFLOW ³	Volume	m ³ /h	90,000	90,000	100,000	100,000
PERFORMANCE - Max Condition						
COOLING CAPACITY ¹	Total	kW	459.5	465.9	491.1	494.9
SHR			1.00	1.00	1.00	1.00
EER ²			17.1	18.2	19.5	20.4
AIRFLOW ³	Volume	m ³ /h	134,000	137,600	138,700	141,100
FANS						
AIRFLOW	Direction		Horizontal	Horizontal	Horizontal	Horizontal
FAN TYPE			EC	EC	EC	EC
FANS	No.		8	8	8	8
WATER CIRCUIT						
FLOW RATE		l/s	6.94	6.94	6.94	6.94
FILTERS						
FILTERS	No.		12	12	12	12
EFFICIENCY CLASS ⁴		ePM10	50%	50%	50%	50%
ELECTRICAL						
POWER SUPPLY		V/ph/Hz	400 / 3+N / 50	400 / 3+N / 50	400 / 3+N / 50	400 / 3+N / 50
DIMENSIONS AND WEIGHT						
FRAME SIZE						
DIMENSIONS						
	Width	mm	3,600	3,600	3,600	3,600
	Depth	mm	1,600	1,600	1,600	1,600
	Height	mm	3,500	3,500	4,000	4,000
NET WEIGHT						
		kg	2,460	2,460	2,545	2,545
CONNECTIONS						
WATER ⁵						
	Inlet / Outlet	DN	50	50	50	50
	Inlet / Outlet	Ø inches	2	2	2	2
CONDENSATE DRAIN ⁶						
		Ø mm	22	22	22	22

Notes:
 -SF represents the side filter option included.
 *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: Corresponding to nominal external static pressure (50Pa).
 *4: As per ISO EN 16890.
 *5: As per UNI EN 10255. The connections refer to the supply manifold for stacked modules. Grooved connection - the grooved flexible joint is not supplied.
 *6: Rubber pipe - refers to internal diameter.



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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 2025

