

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			402	462
Frame			3B2	3H2
PERFORMANCE ¹				
COOLING CAPACITY	Total	kW	430	446
SENSIBLE HEAT RATIO (SHR)			1	1
ENERGY EFFICIENCY RATIO (EER) ²		kW/kW	17.8	19.2
FANS				
FANS TYPE			EC RADIAL	EC RADIAL
QUANTITY	No.		8	8
AIRFLOW		m ³ /hr	129,000	134,000
EXTERNAL STATIC PRESSURE (ESP)		Pa	50	50
FANS POWER INPUT		kW	24.2	23.2
CHILLED WATER CIRCUIT ¹				
WATER FLOW		l/s	8.61	8.93
TOTAL PRESSURE DROP ³		kPa	134	118
FILTERS				
Qty	No.		1	1
NOISE DATA				
TOTAL SOUND POWER		dB(A)	88	88
TOTAL SOUND PRESSURE ⁴		dB(A)	68	68
ELECTRICAL				
POWER SUPPLY		V/ph/Hz	400 / 3+N / 50	400 / 3+N / 50
MAX ABSORBED CURRENT (FLA)		A	44.8	44.8
DIMENSIONS AND WEIGHT				
DIMENSIONS ⁵	Width	mm	3,600	3,600
	Depth	mm	1,600	1,600
	Height	mm	3,500	4,000
WEIGHT ⁵		kg	2,460	2,545

Notes:

*1: Gross Total Values Shown. Operating Conditions: Return Air Temperature: 37°C / Relative Humidity: 25% / Water Inlet: 20°C / Water Delta T: 12K / Glycol: 0%.

*2: EER for indoor unit only.

*3: Pressure drop includes heat exchanger and hydronic valve.

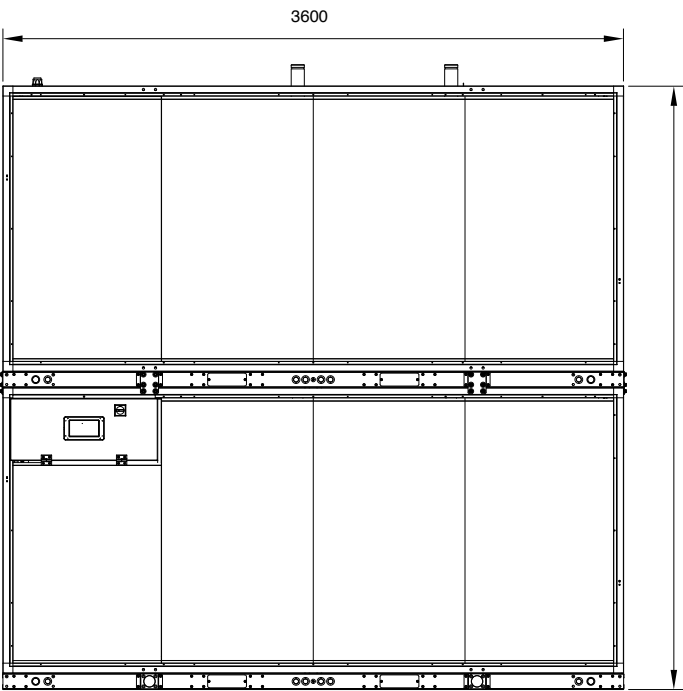
*4: Average sound pressure level, at 1m distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.

*5: Unit in standard configuration, without optional accessories.

MEWALL DIMENSIONS AND CLEARANCES

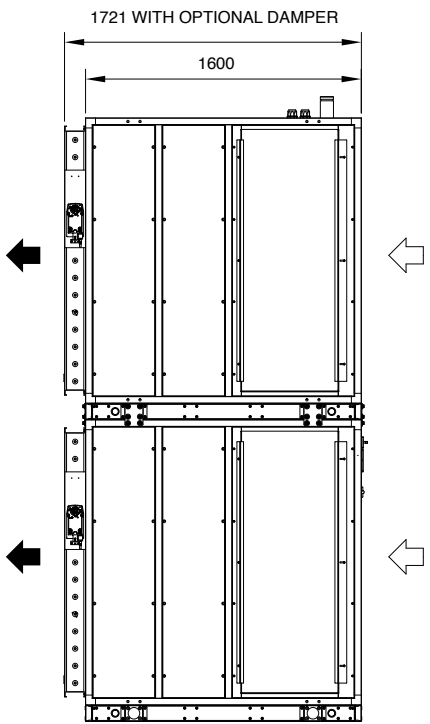
All dimensions are in millimetres.

FRONT VIEW

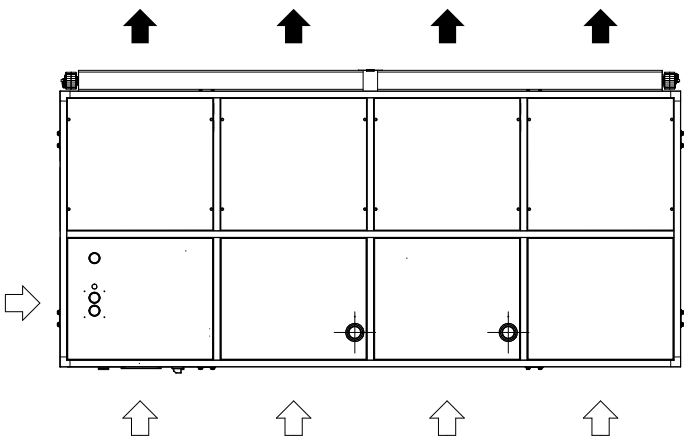


MODEL 402: 3500
MODEL 462: 4000

SIDE VIEW



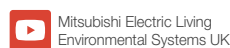
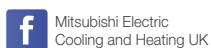
TOP VIEW



AIRFLOW
OPTIONAL SIDE FILTERS (-SF) SHOWN



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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), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R515B (GWP:292), 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. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a hydrocarbon, R290 (GWP:0.02). *These GWP values are based on IPCC 6th edition.

Effective as of September 2025

