I.T. Cooling | Product Information

w-MEXT-XL

Extra Large Computer Room Air Handler (CRAH)

Mitsubishi Electric's **w-MEXT-XL** is a purpose built, extra large CRAH, specifically designed to meet the needs of large colocation and hyperscale data centers.

With a capacity ranging from 193kW to 336kW, in four module sizes, the w-MEXT-XL is available in three performance versions with a perfectly matched heat exchanger designed for 10K, 12K and 15K Delta T conditions, giving it the best in class efficiency. Additionally the **w-MEXT-XL** can be used with downflow or rear-flow configurations with options for hydraulic connections (version dependent).

An array of high quality industry leading options are available to the **w-MEXT-XL** including; harmonic filters for EC fans to provide a guaranteed THDi < 5%, fast restart using inbuilt Ultracap with new embedded logic for ultra-quick cooling restoration, EPIV valves with advance monitoring, Automatic Transfer Switch (ATS) to automatically switch to alternative power supply and more.

Key Features & Benefits:

- Design purposefully for meeting hyperscale and large colocation datacenters needs
- Exceptional performance with best in class efficiency
- Uniquely versatile with flexible hydraulic connections, multiple air delivery versions and a range of sizes
- Options for high quality EC fans fitted with harmonic filters for THDi < 5%
- Available with an extensive array of accessories such as Fast Restart and EPIV Valves
- Designed for effortless maintenance with frontal access to all components, easy filter changes and sliding EC fans

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CRAH UNITS (Computer Room Air Handler)			R 150			R 200			R 250			R 300		
WORKING CONDITIONS			MDT	HDT	SHDT	MDT	HDT	SHDT	MDT	HDT	SHDT	MDT	HDT	SHDT
PERFORMANCE														
COOLING CAPACITY	Total	kW	199	198	224	220	221	262	297	281	324	303	302	336
SHR*1	Nominal		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
EER	Nominal		18.5	18.3	20.6	22.1	21.5	25.9	20.6	19.6	22.8	21.7	21.5	23.9
FANS														
AIRFLOW		m^3/h	49,500	48,800	48,800	52,700	52,500	51,700	66,000	65,500	65,000	66,500	65,700	66,000
FAN TYPE			EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial	EC Radial
FANS		No.	3	3	3	3	3	3	4	4	4	4	4	4
POWER INPUT		kW	10.80	10.80	10.80	9.97	10.30	10.10	14.40	14.40	14.20	14.00	14.10	14.10
MAX EXTERNAL STATIC PRESSURE		Pa	46	46	46	64	47	68	42	48	57	60	60	60
WATER CIRCUIT														
FLOW RATE		l/s	4.79	3.97	3.59	5.29	4.42	4.2	7.12	5.63	5.19	7.27	6.05	5.38
PRESSURE DROP		kPa	128	87.8	73.3	134	92.9	99.1	156	103	111	145	128	140
FILTERS														
FILTERS		No.	6	6	6	8	8	8	8	8	8	8	8	8
AVAILABLE STATIC PRESSURE		Pa	522	540	540	403	427	434	526	530	530	497	513	508
NOISE DATA														
TOTAL SOUND POWER*2		dB(A)	62	62	62	63	63	64	61	61	61	60	60	60
SOUND POWER		dB(A)	81	81	81	82	82	83	80	80	80	79	79	79
ELECTRICAL														
POWER SUPPLY	V/ph/Hz		400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50	400/3+N/50
MAX RUNNING CURRENT*3	FLA	A	18.9	18.9	18.9	18.9	18.9	18.9	25.2	25.2	25.2	25.2	25.2	25.2
DIMENSIONS AND WEIGHT														
FRAME SIZE			H7P	H7P	H7P	H8P	H8P	H8P	H9P	H9P	H9P	H10P	H10P	H10P
LENGTH (A)		mm	2,550	2,550	2,550	3,000	3,000	3,000	3,400	3,400	3,400	3,400	3,400	3,400
WIDTH (B)		mm	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070	1,070
HEIGHT (H)		mm	2,925	2,925	2,925	2,925	2,925	2,925	2,925	2,925	2,925	2,925	2,925	2,925
WEIGHT		kg	991	1,051	1,075	1,086	1,161	1,240	1,323	1,343	1,433	1,441	1,462	1,558

Notes:
MDT (Medium Delta T): Indoor conditions: Return air temperature 37°C - Relative humidity 25%. Chilled water: Inlet 20°C - Outlet 30°C - 0% Glycol.
HDT (High Delta T): Indoor conditions: Return air temperature 37°C - Relative humidity 25%. Chilled water: Inlet 20°C - Outlet 32°C - 0% Glycol.
SHDT (Super High Delta T): Indoor conditions: Return air temperature 40°C - Relative humidity 20%. Chilled water: Inlet 20°C - Outlet 35°C - 0% Glycol.

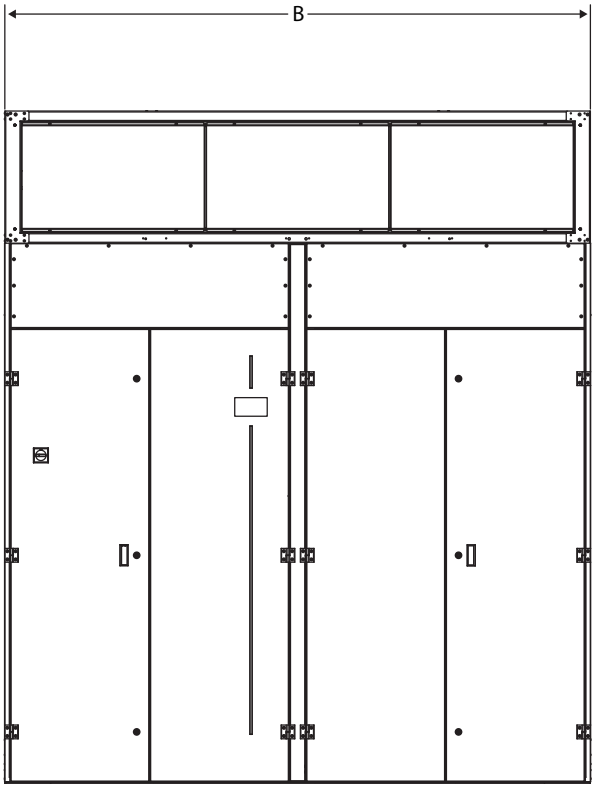
*1: SHR = Sensible cooling capacity gross / Total cooling capacity gross.
*2: Average sound pressure level, at 1m distance, unit in a free field on a reflective surface according to ISO3744. Non-binding value obtained from the sound power level.
*3: The electric data indicated refer only to the standard indoor unit without accessories.

Data table shows rear-flow design. Downflow details and performance available on request.

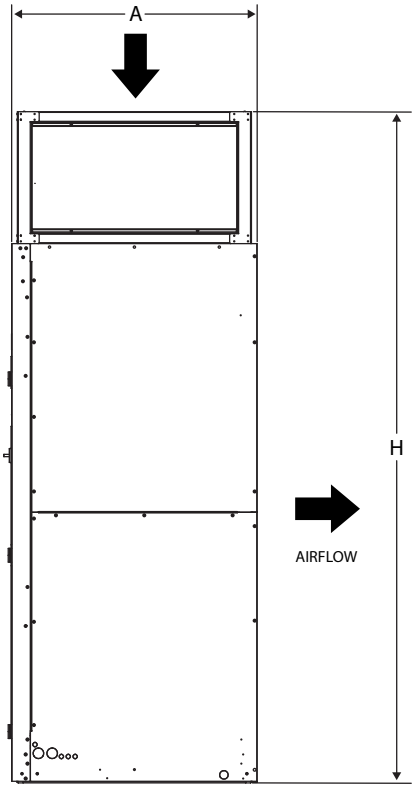
w-MEXT-XL DIMENSIONS AND CLEARANCES

All dimensions are in millimetres.

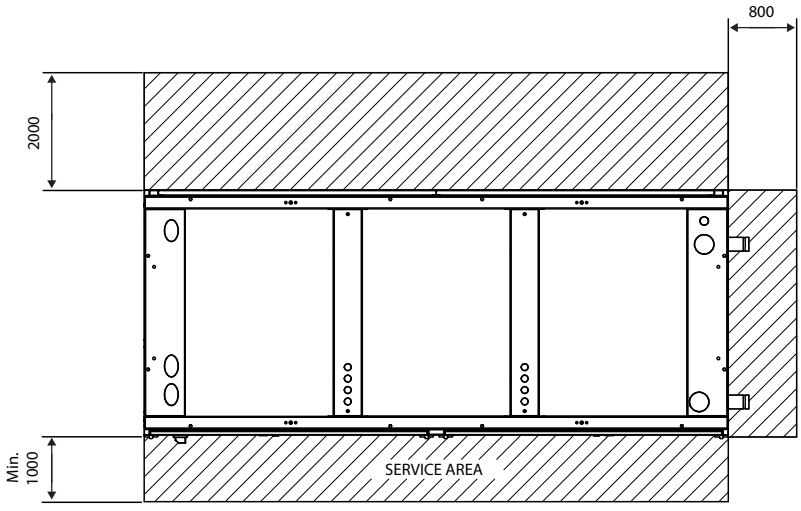
FRONT VIEW



SIDE VIEW



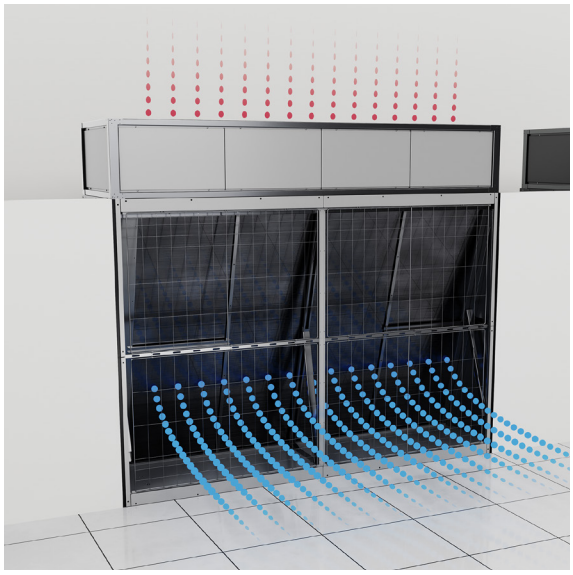
TOP VIEW



Note: Exact clearances shown apply to rearflow variant only.

w-MEXT-XL AIRFLOW VERSIONS

Rear-flow



The unit is installed in the technical corridor.

Air from the whitespace is taken into the top of the unit and discharged horizontally through the back of the unit. Ideal for environments without raised flooring.

Downflow

The unit is installed within the white space.

Air from the whitespace is taken into the top of the unit and discharged into the floor void (directional blanking panels available on request). This version works with suitable raised floor. Technical details and performance available on request.

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Changes for the Better

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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 February 2026

Green Gateway greengateway.mitsubishielectric.co.uk