

x-MEXT DX

R410A Close Control System

The **x-MEXT DX** is a highly efficient computer room air conditioner (CRAC), incorporating a wide range of options and configurations, and manufactured to the highest Mitsubishi Electric quality and reliability standards.

The **x-MEXT** includes BLDC Mitsubishi Electric compressors, microchannel heat exchanger options, and an EC fan on the indoor unit with an impeller made of recycled plastic, that is specifically design for the x-MEXT range.



Key Features & Benefits:

- Perimeter unit with upflow (over) and downflow (under) configurations
- Full inverter technology with BLDC Mitsubishi Electric compressors and a proprietary fan design
- Excellent efficiency with load matching control
- Advanced in-house developed control software
- Intelligent LAN controls for up to 15 units
- Interface cards available with many common BEMS protocols
- Automatic transfer switches and fast restart options
- Optional low ambient temperature kit for extreme conditions
- Full function humidifier and heating options
- Optional dampers, floor stands and discharge plenums





CRAC UNITS (Computer Room Air Conditioning)		x-MEXT-i-G02 -DX-U/O-029	x-MEXT-i-G02 -DX-U/O-040	x-MEXT-i-G02 -DX-U/O-051	x-MEXT-i-G02 -DX-U/O-052	x-MEXT-i-G02 -DX-U/O-067	x-MEXT-i-G02 -DX-U/O-076	x-MEXT-i-G02 -DX-U/O-078	x-MEXT-i-G02 -DX-U/O-080	x-MEXT-i-G02 -DX-U/O-108	x-MEXT-i-G02 -DX-U/O-140
PERFORMANCE - WITH CONDENSERS LISTED											
COOLING CAPACITY ¹	Total	27.7	38.8	49.5	50.4	63.9	74.4	75.9	87.6	104.0	132.0
SHR	Nominal	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
EER ²	Nominal	3.45	3.32	2.93	3.55	3.15	3.14	3.63	3.38	3.12	2.61
FANS											
AIRFLOW	m ³ /h	8,000	10,500	11,000	14,750	17,000	17,000	21,500	22,500	25,500	27,000
FAN TYPE		Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC	Centrifugal EC
FANS	No.	1	1	1	2	2	2	2	2	3	3
POWER INPUT	kW	0.80	1.61	1.85	2.16	3.20	3.22	3.21	3.66	5.15	6.24
MAX EXTERNAL STATIC PRESSURE	Pa	364	299	243	237	173	169	300	245	141	84
REFRIGERANT											
REFRIGERANT		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
REFRIGERANT CIRCUITS	No.	1	1	1	1	1	1	2	2	2	2
COMPRESSOR(S) TYPE	Operating Mode	i	i	i	i	1 + i	1 + i	2(i)	2(i)	2(1 + i)	2(1 + i)
FILTERS											
FILTERS	No.	2	2	2	3	3	3	4	4	4	4
EFFICIENCY CLASS ³	Coarse	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
SOUND LEVEL											
PRESSURE LEVEL ⁴	Downflow (U) / Upflow (O)	dB(A)	50 / 69	47 / 65	47 / 64	48 / 66	47 / 65	47 / 64	49 / 68	49 / 67	50 / 69
POWER LEVEL	Downflow (U) / Upflow (O)	dB(A)	67 / 86	64 / 82	64 / 81	65 / 83	64 / 82	64 / 81	67 / 86	67 / 85	68 / 87
ELECTRICAL											
POWER SUPPLY	V/ph/Hz	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
MAX RUNNING CURRENT	FLA	A	30.6	41.5	41.5	47	57.4	57.4	82	82	108
DIMENSIONS AND WEIGHT											
FRAME SIZE		M	M	M	L	L	L	XL	XL	XL	XL
DIMENSIONS	Width	mm	1,142	1,142	1,142	1,600	1,600	1,600	2,550	2,550	2,550
	Depth	mm	885	885	885	885	885	885	885	885	885
	Height	mm	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980	1,980
NET WEIGHT	Upflow (O)	kg	363	372	375	459	502	503	799	806	915
	Downflow (U)	kg	372	380	383	477	520	521	839	846	955
CONNECTIONS⁵											
REFRIGERANT PIPE	Gas	Ø mm	18	22	22	22	28	28	2 x 22	2 x 22	2 x 28
DIAMETER	Liquid	Ø mm	16	18	18	18	18	18	2 x 18	2 x 18	2 x 18
CONDENSATE DRAIN ⁶		Ø mm	19	19	19	19	19	19	19	19	19

OUTDOOR REMOTE CONDENSER(S) ⁷		MEGR-MC-E 034	MEGR-MC-E 049	MEGR-MC-E 067	MEGR-MC-E 067	MEGR-MC-E 082	MEGR-MC-E 110	2 x MEGR-MC-E 049	2 x MEGR-MC-E 065	x MEGR-MC-E 067	2 x MEGR-MC-E 082
FAN TYPE ⁸		Axial EC	Axial EC	Axial EC	Axial EC	Axial EC	Axial EC	Axial EC	Axial EC	Axial EC	Axial EC
FANS	No.	1	2	2	2	3	4	2	2	2	3
AIRFLOW	m ³ /h	9,550	15,555	19,000	19,000	25,000	36,600	15,555	18,300	19,000	25,000
POWER SUPPLY	V/ph/Hz	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50	400 / 3 / 50
MAX RUNNING CURRENT	FLA	A	1.92	3.84	3.84	5.76	7.68	3.84	3.84	3.84	5.76
SOUND LEVEL ⁴	Pressure	dB(A)	56	54	58	58	59	54	57	58	59
DIMENSIONS ⁹	Width	mm	1,140	1,140	1,140	1,140	1,140	2,200	1,140	1,140	1,140
	Length	mm	1,360	2,040	2,600	2,600	2,600	2,280	2,040	2,040	2,600
	Height	mm	1,168	1,168	1,168	1,168	1,168	1,168	1,168	1,168	1,168
NET WEIGHT	kg	50	82	96	96	114	169	82	82	96	114
CONNECTION SIZE ⁵	Gas	Ømm	18	22	22	22	28	22	22	22	28
REFRIGERANT PIPE DIAMETER	Liquid	Ømm	16	18	18	18	22	18	18	18	22

Notes:
¹ Gross Total Values shown for Downflow [under] airflow configuration. Operating Conditions: Return Air Temperature: 30°C / Relative Humidity: 35% / Ambient: 35°C / External Static Pressure: 20Pa
² EER for indoor unit only.
³ As per ISO EN 16890. Other filter options are available.
⁴ Average sound level, at 1m distance, unit in a free field on a reflective surface according to ISO 3744.
⁵ Equipment connection only, consult x-MEXT / MEGR databooks for interconnecting pipework sizing.
⁶ Rubber pipe - refers to internal diameter.
⁷ All data is "per condenser". Typical condenser arrangement shown, other condenser sizing combinations are available.
⁸ Other type of fans are available.
⁹ Based on vertical airflow direction.

These units contain <HFC R410A [GWP100 2088]> fluorinated greenhouse gas.

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Note: Refer to 'Installation Manual' and 'Instruction Book' for further 'Technical Information'. 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), 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.526/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

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