



High Precision Air Conditioning

High precision air conditioners are ideal for applications where high sensible cooling and close control of temperature and humidity are required.

The i-NEXT direct expansion air cooled range incorporates full inverter driven BLDC Mitsubishi Electric compressors, perfect for keeping room conditions constant under varying loads, whilst being highly efficient.

Key Features

- Perimeter unit with downflow and upflow configurations
- Full inverter technology with BLDC Mitsubishi Electric compressors
- Ultralight composite EC plug fans resulting in reduced noise and power usage
- Integrated control of up to 10 units for intelligent redundancy management
- Front access to main components for easy inspection and routine maintenance
- Automatic restart from power outage
- Return air temperature operating limits up to 40°C
- Matched air cooled remote condensers
- Optional Modbus RS485 and BACnet TCP/IP connectivity
- Optional electrical heater and steam humidifiers
- Optional floor stands and discharge plenums





CRAC UNITS (Computer Room Air Conditioning)		i-NEXT DX 012 M1 S E1	i-NEXT DX 018 M1 S E2	i-NEXT DX 022 M1 S E3	i-NEXT DX 030 M1 S E4	i-NEXT DX 047 M1 S E5	i-NEXT DX 042 M2 D E5	i-NEXT DX 068 M2 D E7	i-NEXT DX 094 M2 D E8	i-NEXT DX 120 M4 D E9 *1	i-NEXT DX 150 M4 D E9 *1
CAPACITY (kW) ²	Range	3.1 - 10.4	7.0 - 21.9	7.7 - 24.0	12.2 - 39.4	17.4 - 54.1	15.0 - 49.3	24.0 - 79.1	33.3 - 105.0	25.8 - 119.0	34.9 - 139.5
	Nominal	9.1	17.8	22.2	30.7	48.2	43.8	68.6	93.9	100	129
SHF	Nominal	1	0.99	1	1	1	1	1	1	1	1
EER ³	Nominal	4.3	3.7	3.69	3.97	3.74	3.74	3.88	3.74	3.53	3.33
POWER INPUT (kW)	Nominal	2.12	4.81	6.01	7.73	12.9	11.7	17.7	25.1	28.3	38.7
AIRFLOW (M ³ /h)		2700	4100	5000	7500	12000	12000	17500	22000	28000	32000
EXTERNAL STATIC PRESSURE (Pa)	Nominal	20	20	20	20	20	20	20	20	20	20
	MAX EXTERNAL STATIC PRESSURE (Pa)	85	315	670	605	115	115	535	280	270	270
SOUND PRESSURE LEVEL (dB(A)) ⁴	From Fan Discharge Downflow / Upflow	64 / 63.9	71.4 / 71.3	68 / 68	74.8 / 74.8	81.5 / 81.5	81.5 / 81.5	77.2 / 77.2	82.5 / 82.5	83.4	83.4
	From Unit Front Downflow / Upflow	46 / 53	47.6 / 46.8	44.5 / 48.2	51.1 / 52.2	59.4 / 63.5	59.4 / 63.5	55.2 / 59.4	60.4 / 64.6	61.5	61.5
AIR FILTERS		G4	G4	G4	G4	G4	G4	G4	G4	G4	G4
DIMENSIONS (mm)	Width x Depth x Height	650 x 675 x 1925	785 x 675 x 1925	1085 x 775 x 1925	1305 x 930 x 1980	1630 x 930 x 1980	1630 x 930 x 1980	2175 x 930 x 1980	2499 x 930 x 1980	2899 x 930 x 1980	2899 x 930 x 1980
NET WEIGHT (kg)	Downflow / Upflow	220 / 210	250 / 240	330 / 320	440 / 430	490 / 480	575 / 565	705 / 650	865 / 805	985	1010
POWER SUPPLY (V/Ph/Hz)		400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N	400/3/50+N
MAX RUNNING CURRENT (A)		15.3	19.7	22.2	29.2	36.4	40.4	58.9	72.9	168	196
STARTING CURRENT (A)		3.3	5.3	7.8	9.2	10.8	8	13.9	15.3	194	216
COMPRESSORS		BLDC Rotary Inverter	BLDC Scroll Inverter	BLDC Scroll Inverter	BLDC Scroll Inverter	BLDC Scroll Inverter	2x BLDC Scroll Inverter	2x BLDC Scroll Inverter	2x BLDC Scroll Inverter	4x BLDC Scroll ⁵	4x BLDC Scroll ⁵
PIPE SIZE DIAMETER (mm (in)) ⁶	Liquid	12 (1/2")	16 (5/8")	16 (5/8")	18 (3/4")	18 (3/4")	16 (5/8") ⁷	18 (3/4") ⁷	18 (3/4") ⁷	22 (7/8") ⁷	22 (7/8") ⁷
	Gas	16 (5/8")	18 (3/4")	18 (3/4")	22 (7/8")	28 (1 1/8")	18 (3/4") ⁷	22 (7/8") ⁷	28 (1 1/8") ⁷	28 (1 1/8") ⁷	35 (1 3/8") ⁷
REFRIGERANT		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
REMOTE CONDENSER	Standard	T-MATE DX-A STD M 14	T-MATE DX-A STD M 25	T-MATE DX-A STD M 30	T-MATE DX-A STD M 35	T-MATE DX-A STD M 60	T-MATE DX-A STD M 30 (x2)	T-MATE DX-A STD M 35 (x2)	T-MATE DX-A STD M 60 (x2)	T-MATE DX-A STD M 95 (x2)	T-MATE DX-A STD M 95 (x2)

OUTDOOR UNITS		T-MATE DX-A STD M 14	T-MATE DX-A STD M 25	T-MATE DX-A STD M 30	T-MATE DX-A STD M 35	T-MATE DX-A STD M 60	T-MATE DX-A STD M 30	T-MATE DX-A STD M 35	T-MATE DX-A STD M 60	T-MATE DX-A STD M 95	T-MATE DX-A STD M 95
DIMENSIONS (mm)	Width x Depth x Height	875 x 540 x 727	1400 x 665 x 1027	1400 x 665 x 1027	1400 x 665 x 1027	1850 x 665 x 1027	1400 x 665 x 1027	1400 x 665 x 1027	1850 x 665 x 1027	3490 x 665 x 1150	3490 x 665 x 1150
NET WEIGHT (kg)		55	102	111	120	188	111	120	188	240	240
AIRFLOW (M ³ /h)		4500	9600	9500	9100	16000	9500	9100	16000	28200	28200
POWER SUPPLY (V/Ph/Hz)		230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50	230 / 1 / 50
POWER INPUT (kW)	Nominal	0.25	0.53	0.53	0.53	1.08	0.53	0.53	1.08	1.59	1.59
MAX RUNNING CURRENT (A)		1.2	2.85	2.85	2.85	5.7	2.85	2.85	5.7	8.5	8.5
SOUND PRESSURE LEVEL (dB(A)) ⁴	1m (ISO3744)	63	67	67	67	69.4	67	67	69.4	70.5	70.5
	5m	51.3	56.1	56.1	56.1	58.7	56.1	56.1	58.7	60.6	60.6
	10m	45.6	50.5	50.5	50.5	53.2	50.5	50.5	53.2	55.3	55.3

*1 Down flow version only. *2 Capacity characteristics at 26°C air entering temperature, 40%RH; *condensing temperature 45°C. *3 Remote air cooled condenser not included. *4 1m from unit in free field conditions. *5 In 2(1+1) configuration, 2 inverter driven with 2 direct online. *6 Recommended nominal pipework sizes for 30m equivalent length. *7 Unit consists of 2 refrigerant circuits. Pipe size shown is per circuit.



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Note: The fuse rating is for guidance only. 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) or R134a (GWP:1430). *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).



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