

i-NEXT DX

R410A Close Control System

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 and a new microchannel coil remote condenser, perfect for keeping room conditions constant under varying loads, whilst being highly efficient.



Key Features & Benefits:

- 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
- New microchannel coil remote condensers with AC axial fans
- 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
COOLING CAPACITY (kW) ²	Capacity Range	3.2 - 10.0	6.7 - 20.4	7.1 - 23.1	12.5 - 37.7	17.4 - 51.6	15.4 - 47.4	23.9 - 75.7	33.5 - 101.0	25.7 - 108.0	32.1-129.0
	Total	10.0	20.4	23.1	37.7	51.6	47.4	75.7	101.0	108.0	129.0
	Sensible	9.8	19.3	23.1	37.7	51.4	47.4	75.7	97.1	108.0	129.0
SHR ³	Nominal	0.98	0.95	1.00	1.00	0.99	1.00	1.00	0.96	1.00	1.00
EER ⁴	Nominal	3.21	2.80	3.18	3.02	2.98	3.14	3.12	3.01	3.21	2.79
EC SUPPLY FAN(S)	No.	1	1	1	1	1	1	2	2	3	3
AIRFLOW (m ³ /h)		2,800	4,100	5,500	10,000	12,000	12,000	20,000	22,000	28,000	32,000
EXTERNAL STATIC PRESSURE (Pa)	Nominal	20	20	20	20	20	20	20	20	20	20
	MAX EXTERNAL STATIC PRESSURE (Pa)	75	311	831	191	217	283	451	388	572	379
POWER INPUT (kW)	Fan Motor ESP=20Pa	0.29	0.52	0.78	2.04	2.27	2.05	3.51	3.72	4.20	5.82
	Total ⁴	3.11	7.28	7.27	12.50	17.30	15.10	24.30	33.60	33.60	46.30
REFRIGERANT		R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
REFRIGERANT CIRCUITS	No.	1	1	1	1	1	2	2	2	2	2
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
AIR FILTERS	No.	1	1	2	2	3	3	4	5	6	6
	Extended filtering surface (m ²)	0.6	0.8	1.2	2.1	2.6	2.6	3.9	4.5	5.2	5.2
	Efficiency [ISO EN 16890] (COARSE)	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
SOUND LEVEL dB(A) (ISO3774) ⁵	Downflow - Power / Pressure	63 / 47	64 / 48	62 / 46	74 / 57	76 / 59	76 / 59	75 / 58	78 / 60	80 / 62	80 / 62
	Uptflow - Power / Pressure	69 / 53	63 / 47	65 / 49	75 / 58	81 / 64	81 / 64	79 / 62	83 / 65	N/A	N/A
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
STARTING CURRENT (A)		4.3	5.7	8.2	9.2	11.4	8.4	13.9	15.9	70.9	72.9
MAX RUNNING CURRENT (A)		17.3	18.7	21.2	29.2	29.4	38.4	58.9	58.9	90.9	90.9
DIMENSIONS (mm)	Width	650	785	1,085	1,305	1,630	1,630	2,175	2,499	2,899	2,899
	Depth	675	675	775	930	930	930	930	930	930	930
	Height	1,925	1,925	1,925	1,980	1,980	1,980	1,980	1,980	1,980	1,980
NET WEIGHT (kg)	Downflow	220	250	330	440	490	575	705	865	985	1,010
	Uptflow	210	240	320	430	480	565	650	805	N/A	N/A
CONNECTIONS	Refrigerant pipe diameter - Gas (Ø mm) ⁷	12	16	16	18	22	2 x 16	2 x 18	2 x 22	2 x 28	2 x 28
	Refrigerant pipe diameter - Liquid (Ø mm) ⁷	12	12	16	16	22	2 x 16	2 x 16	2 x 22	2 x 22	2 x 22
	Condensate (Ømm) ⁸	19	19	19	19	19	19	19	19	19	19

OUTDOOR UNITS / REMOTE CONDENSER(S)	GR-Z A B 50 013	GR-Z A B 50 027	GR-Z A B 50 034	GR-Z A B 50 049	GR-Z A B 50 067	2 x GR-Z A B 50 034	2 x GR-Z A B 50 049	2 x GR-Z A B 50 067	2 x GR-Z A B 50 082	2 x GR-Z A B 50 082	
AIRFLOW (m ³ /h)	3,300	8,350	9,550	15,555	19,000	9,550	15,555	19,000	25,000	25,000	
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	
MAX POWER INPUT (kW)	0.32	0.64	0.64	1.08	1.28	0.64	1.08	1.28	1.92	1.92	
MAX RUNNING CURRENT (A)	1.40	2.90	2.90	4.94	5.80	2.90	4.94	5.80	8.70	8.70	
SOUND PRESSURE LEVEL (dB(A)) ⁵	50	55	56	54	58	56	54	58	59	59	
DIMENSIONS (mm)	Horizontal Airflow (W x D x H)	770 x 718 x 900	1150 x 718 x 900	1360 x 718 x 1100	2040 x 718 x 1100	2600 x 718 x 1100	1360 x 718 x 1100	2040 x 718 x 1100	2600 x 718 x 1100	2600 x 718 x 1100	2600 x 718 x 1100
	Vertical Airflow (W x L x H)	940 x 770 x 1143	940 x 1150 x 1168	1140 x 1360 x 1168	1140 x 2040 x 1168	1140 x 2600 x 1168	1140 x 1360 x 1168	1140 x 2040 x 1168	1140 x 2600 x 1168	1140 x 2600 x 1168	1140 x 2600 x 1168
NET WEIGHT (kg)	30	45	53	86	100	53	86	100	120	120	
CONNECTION SIZE	Refrigerant pipe diameter - Gas (Ø mm) ⁷	16	18	18	22	22	18	22	28	28	
	Refrigerant pipe diameter - Liquid (Ø mm) ⁷	12	16	16	18	18	16	18	22	22	

Notes: The cooling capacity does not consider the supply fan motor thermal load. *1 Downflow version only. *2 Gross value based on return air at 26°C - 40%RH; Ambient Temperature 35°C with above condenser(s) models. *3 SHR = Sensible cooling capacity / Total cooling capacity. *4 Compressor(s) & Fan(s) input power (ESP=20Pa). - Remote air cooled condenser not included. *5 Average level at 1m from unit in free field conditions. *6 In 2(1+) configuration, 2 inverter driven with 2 direct online. *7 Please refer to i-NEXT databook for interconnecting pipework size. *8 Rubber pipe - refers to internal diameter. These units contain <HFC R410A [GWP100 2088]> fluorinated greenhouse gas.



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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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