

w-NEXT

Chilled Water 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 **w-NEXT** chilled water range incorporates the latest EC plug fan(s), advanced controls software and an increased coil area resulting in the highest efficiency.

Key Features & Benefits:

- High Efficiency - EC plug fans
- Small footprint
- Adaptive Set Point
- Active Redundancy
- Available in Upflow [over] and Downflow [under] variants





CRAC UNITS (Computer Room Air Conditioning)		w-NEXT S 007 E0	w-NEXT S 013 E1	w-NEXT S 021 E2	w-NEXT S 032 E3	w-NEXT S 045 E3P	w-NEXT S 053 E4	w-NEXT S 072 E5
CAPACITY (kW) ²	Total	6.5	11.2	18.9	29.1	41.0	48.1	66.1
	Sensible	5.8	11.2	18.9	29.1	41.0	48.1	66.1
SHR ³		0.89	1.00	1.00	1.00	1.00	1.00	1.00
EER		54.2	38.6	21.5	17.5	18.6	22.4	22.8
EC SUPPLY FAN(S)	No.	1	1	1	1	1	1	2
AIRFLOW (m ³ /h)		1,800	2,900	4,920	7,800	10,800	13,100	16,350
EXTERNAL STATIC PRESSURE (Pa)		20	20	20	20	20	20	20
MAX EXTERNAL STATIC PRESSURE (Pa)		82	75	101	471	297	194	532
POWER INPUT (kW) ⁴		0.12	0.29	0.88	1.66	2.20	2.15	2.90
AIR FILTERS	No.	1	1	1	2	2	3	3
	Extended filtering surface (m ²)	0.28	0.61	0.78	1.24	1.71	2.07	2.59
	Efficiency [ISO EN 16890] (COARSE)	40%	60%	60%	60%	60%	60%	60%
CHILLED WATER FLOW RATE (l/s)		0.31	0.54	0.90	1.39	1.96	2.30	3.16
WATERSIDE PRESSURE DROP (kPa)	Coil + 2-Port Valve	25.6	16.4	45.2	40.9	34.1	37.3	42.9
SOUND LEVEL dB(A) (ISO3774) ⁵	Downflow - Power / Pressure	58 / 43	63 / 47	67 / 51	68 / 52	73 / 57	74 / 57	73 / 56
	Upflow - Power / Pressure	65 / 50	67 / 51	71 / 55	72 / 56	77 / 61	78 / 61	77 / 60
POWER SUPPLY (V/Ph/Hz)		230 / 1 / 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 POWER ABSORBED (kW)		0.15	1.32	0.97	2.70	2.90	2.70	5.40
MAX RUNNING CURRENT (A)		1.2	2.1	1.7	4.2	4.4	4.2	8.4
DIMENSIONS (mm)	Width	655	650	785	1085	1085	1305	1630
	Depth	445	675	675	675	930	930	930
	Height	1680	1925	1925	1925	1925	1980	1980
NET WEIGHT (kg)	Downflow	150	203	239	302	321	345	470
	Upflow	150	216	257	325	329	379	428
CONNECTIONS	Water Inlet / Outlet ISO 7/1 (Ø inch)	3/4"	1"	1"	1 1/4"	1 1/4"	1 1/2"	2"
	Condensate (Ømm) ⁶	19	19	19	19	19	19	19

CRAC UNITS (Computer Room Air Conditioning)		w-NEXT S 081 E6	w-NEXT S 100 E7	w-NEXT S 120 E8	w-NEXT S 138 E9	w-NEXT S 160 E10 ¹	w-NEXT S 215 E10 ¹
CAPACITY (kW) ²	Total	73.5	91.6	111.0	126.0	147.0	204.0
	Sensible	73.5	91.6	111.0	126.0	147.0	177.0
SHR ³		1.00	1.00	1.00	1.00	1.00	0.87
EER		21.2	23.0	17.8	19.6	22.8	31.7
EC SUPPLY FAN(S)	No.	2	2	3	3	3	3
AIRFLOW (m ³ /h)		20,000	24,200	28,300	33,100	37,150	37,150
EXTERNAL STATIC PRESSURE (Pa)		20	20	20	20	20	20
MAX EXTERNAL STATIC PRESSURE (Pa)		458	247	237	309	207	207
POWER INPUT (kW) ⁴		3.47	3.98	6.22	6.42	6.44	6.44
AIR FILTERS	No.	4	4	5	6	6	6
	Extended filtering surface (m ²)	3.16	3.83	4.47	5.24	6.54	6.54
	Efficiency [ISO EN 16890] (COARSE)	60%	60%	60%	60%	60%	60%
CHILLED WATER FLOW RATE (l/s)		3.51	4.38	5.33	6.04	7.03	9.74
WATERSIDE PRESSURE DROP (kPa)	Coil + 2-Port Valve	35.6	31.7	48.6	47	66.7	62.2
SOUND LEVEL dB(A) (ISO3774) ⁵	Downflow - Power / Pressure	75 / 58	76 / 59	79 / 61	80 / 62	79 / 61	79 / 61
	Upflow - Power / Pressure	79 / 62	80 / 63	83 / 65	81 / 63	N/A	N/A
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
MAX POWER ABSORBED (kW)		5.80	5.40	8.10	8.70	8.10	8.10
MAX RUNNING CURRENT (A)		8.9	8.3	12.6	13.3	12.5	12.5
DIMENSIONS (mm)	Width	1875	2175	2499	2899	3510	3510
	Depth	930	930	930	930	930	930
	Height	1980	1980	1980	1980	1980	1980
NET WEIGHT (kg)	Downflow	531	589	660	753	900	970
	Upflow	483	535	598	679	N/A	N/A
CONNECTIONS	Water Inlet / Outlet ISO 7/1 (Ø inch)	2"	2 1/2"	2 1/2"	3"	3"	3"
	Condensate (Ømm) ⁶	19	19	19	19	19	19

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 24°C - 45%RH; Chiller water 7°C / 12°C. *3 SHR = Sensible cooling capacity / Total cooling capacity. *4 Fan(s) input power (ESP=20Pa). *5 Average level at 1m from unit in free field conditions. *6 Rubber pipe - refers to internal diameter.



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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).

Effective as of May 2020

