s-MEXT

Computer Room Air Conditioner (CRAC) with Outdoor Condensing Units

Ideal for smaller IT Cooling environments, the **s-MEXT** system combines a high quality indoor CRAC with the renowned Mitsubishi Electric's Mr. Slim Power Inverter condensing unit to create an efficient and precision Direct Expansion (DX) Split System for server rooms, UPS rooms and Mechanical and Technical rooms (MERs & TERs).

The **s-MEXT** utilises the lower GWP refrigerant R32, a 66% reduction when compared to the traditional R410A. The indoor CRAC is fitted with a variable speed EC fan as standard, enabling it to deliver cooled air with a high Sensible Heat Ratio (SHR). This, combined with the inverter scroll compressor of the Mr. Slim condensing unit allows the **s-MEXT** system to perfectly match your white-space's requirements at part load conditions and improve cooling efficiency.

Available with electric heaters and humidifiers inbuilt to the CRAC, the **s-MEXT** can control both temperature and humidity precisely through the 7 inch graphical display that can show historical data of the unit's p erformance. The **s-MEXT** can be installed with up to 100m of pipework separation between the indoor CRAC and the outdoor unit, making it flexible and adaptable for any site conditions. It can be supplied with support frames and plenums, along with common BMS interface cards.

Key Features & Benefits:

- Available as upflow (O) or downflow (U) airflows version along with support frames and plenums
- High efficiency variable speed EC plugs fans as standard to ensure high SHR cooling
- Hydrophilic coating to ensure any condensate drains away from the indoor CRAC
- LAN Network configurations for up to 10 units to enable duty/standby and rotation functions
- Full-function control of temperature and humidity with humidifier and electric heater
- Versatile install with pipework separation of up to 100m

R32

Systems with Single-Phase Outdoor Units

System Information			006	009	013
INDOOR UNIT TYPECODE			s-MEXT-G00-DX-F1-006-S	s-MEXT-G00-DX-F1-009-S	s-MEXT-G00-DX-F1-013-S
INDOOR UNIT POWER SUPPLY		V/ph/Hz	230/1/50	230/1/50	230/1/50
QUANTITY OF OUTDOOR UNITS		Pcs	1	1	1
OUTDOOR UNIT TYPECODE			PUZ-ZM60VHA2	PUZ-ZM100VDA	PUZ-ZM125VDA
OUTDOOR UNIT POWER SUPPLY		V/ph/Hz=	230/1/50	230/1/50	230/1/50

Indoor Unit Data			006	009	013
PERFORMANCE					
COOLING CAPACITY*1	Total	kW	6.8	10.1	11.9
	Sensible	kW	6.2	8.9	10.2
SHR*2			0.91	0.88	0.86
SYSTEM EER*3	Nominal	kW/kW	4.67	4.30	3.49
REFRIGERANT					
TYPE			R32	R32	R32
NUMBER OF CIRCUITS		No.	1	1	1
CONNECTIONS					
REFRIGERANT PIPE	Gas	Ø Inch	5/8"	5/8"	5/8"
	Liquid	Ø Inch	3/8"	3/8"	3/8"
CONDENSATE*4		Ø mm	19	19	19
POWER SUPPLY CABLE*5		No. x mm^2	3G1.5	3G1.5	3G1.5
ELECTRICAL DATA					
STARTING CURRENT (SA)		A	2	2	2.8
MAX ABSORBED CURRENT (FLA)		A	27.8	27.8	27.6
FANS (EC)					
QUANTITY		No.	1	1	1
AIRFLOW		m^3/h	2000	2500	2800
NOMINAL ESP*6		Pa	20	20	20
POWER INPUT*7		kW	0.21	0.35	0.47
ELECTRICAL HEATERS					
STEPS		No.	2	2	2
POWER INPUT		kW	2.6	2.6	2.6
HUMIDIFIER					
CAPACITY		kg/h	3.0	3.0	3.0
POWER INPUT		kW	2.3	2.3	2.3
SOUND*8					
SOUND PRESSURE LEVEL		dB(A)	53	57	61
SOUND POWER LEVEL		dB(A)	69	73	77
FILTERS					
EFFICIENCY CLASS	ISO EN 16890	COARSE	60%	60%	60%
SIZE AND WEIGHT*8					
FRAME SIZE			F1	F1	F1
WIDTH (A)		mm	600	600	600
DEPTH (B)		mm	500	500	500
HEIGHT (H)		mm	1980	1980	1980
NET WEIGHT	Upflow (O)	kg	103	106	110
	Downflow (U)	kg	110	115	120

Outdoor Unit(s) Data*10			PUZ-ZM60VHA2	PUZ-ZM100VDA	PUZ-ZM125VDA
INSTALLATION					
PIPEWORK SEPARATION*11	Standard		30	40	40
	Max*12		55	100	100
ELECTRICAL DATA					
POWER INPUT	Nominal	kW	1.25	2	2.94
MAX OPERATING CURRENT		A	19.0	27.2	27.2
POWER SUPPLY CABLE		No. x mm^2	3G4	3G4	3G4
SOUND					
SOUND PRESSURE LEVEL*13			53	44	50
SOUND POWER LEVEL			67	63	70
SIZE AND WEIGHT					
WIDTH (A)		mm	950	1110	1050
DEPTH (B)		mm	355	505	370
HEIGHT (H)		mm	943	870	1338
WEIGHT		kg	70	107	116

Notes: The cooling capacity does not consider the supply fan motor thermal load. 1. Gross value based on return air of 27ºC - 47%RH; Ambient Temperature 35ºC; ESP=20PA; Interconnecting pipework length 5m. 2. SHR = Sensible Cooling Capacity / Total Cooling Capacity. 3. EER = Energy Efficiency Ratio. b 4. Rubber pipe - referred to internal diameter. 5. Minimum section. 6. External Static Pressure. 7. Corresponding to the nominal ESP=20Pa. 8. As per ISO 3744. Sound pressure level on air return at 1m. 9. All data refers to a single outdoor unit / circuit. 11. In one direction. 12. Additional refrigerant required for pipework separation greater than the standard. 13. 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.

Systems with Three-Phase Outdoor Units

System Information			009	013	022	028	038	044
INDOOR UNIT TYPECODE			s-MEXT-G00-DX-F1-009-S	s-MEXT-G00-DX-F1-013-S	s-MEXT-G00-DX-F2-022-S	s-MEXT-G00-DX-F3-028-S	s-MEXT-G00-DX-F3-038-D	s-MEXT-G00-DX-F3-044-D
INDOOR UNIT POWER SUPPLY		V/ph/Hz	230/1/50	230/1/50	230/1/50	400/3+N/50	400/3+N/50	400/3+N/50
QUANTITY OF OUTDOOR UNITS		Pcs	1	1	1	1	2	2
OUTDOOR UNIT TYPECODE			PUZ-ZM100YDA	PUZ-ZM125YDA	PUZ-ZM250YKA2	PUZ-ZM250YKA2	PUZ-ZM200YKA2	PUZ-ZM250YKA2
OUTDOOR UNIT 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

Indoor Unit Data			009	013	022	028	038	044
PERFORMANCE								
COOLING CAPACITY*1	Total	kW	10.1	11.9	22.6	28.0	39.0	42.5
	Sensible	kW	8.9	10.2	19.3	26.2	33.6	35.3
SHR*2			0.88	0.86	0.85	0.94	0.86	0.83
SYSTEM EER*3	Nominal	kW/kW	4.30	3.49	3.18	2.68	3.58	2.88
REFRIGERANT								
TYPE			R32	R32	R32	R32	R32	R32
NUMBER OF CIRCUITS		No.	1	1	1	1	2	2
CONNECTIONS								
REFRIGERANT PIPE	Gas	Ø Inch	5/8"	5/8"	1"	1"	1"	1"
	Liquid	Ø Inch	3/8"	3/8"	1/2"	1/2"	3/8"	1/2"
CONDENSATE*4		Ø mm	19	19	19	19	19	19
POWER SUPPLY CABLE*5		No. x mm^2	3G1.5	3G1.5	3G1.5	5G1.5	5G1.5	5G1.5
ELECTRICAL DATA								
STARTING CURRENT (SA)		A	2	2.8	3.3	3.8	3.8	3.8
MAX ABSORBED CURRENT (FLA)		A	27.8	27.6	35.9	28.8	28.8	28.8
FANS (EC)								
QUANTITY		No.	1	1	2	1	1	1
AIRFLOW		m^3/h	2500	2800	5000	7600	8800	10000
NOMINAL ESP*6		Pa	20	20	20	20	20	20
POWER INPUT*7		kW	0.35	0.47	0.70	0.64	1.43	1.96
ELECTRICAL HEATERS								
STEPS		No.	2	2	3	3	3	3
POWER INPUT		kW	2.6	2.6	3.9	9.0	9.0	9.0
HUMIDIFIER								
CAPACITY		kg/h	3.0	3.0	3.0	8.0	8.0	8.0
POWER INPUT		kW	2.3	2.3	2.3	6.0	6.0	6.0
SOUND*8								
SOUND PRESSURE LEVEL		dB(A)	57	61	60	60	63	67
SOUND POWER LEVEL		dB(A)	73	77	76	76	79	83
FILTERS								
EFFICIENCY CLASS	ISO EN 16890	COARSE	60%	60%	60%	60%	60%	60%
SIZE AND WEIGHT*8								
FRAME SIZE			F1	F1	F2	F3	F3	F3
WIDTH (A)		mm	600	600	1000	1000	1000	1000
DEPTH (B)		mm	500	500	500	890	890	890
HEIGHT (H)		mm	1980	1980	1980	1980	1980	1980
NET WEIGHT	Upflow (O)	kg	106	110	165	237	237	237
	Downflow (U)	kg	115	120	175	247	247	247

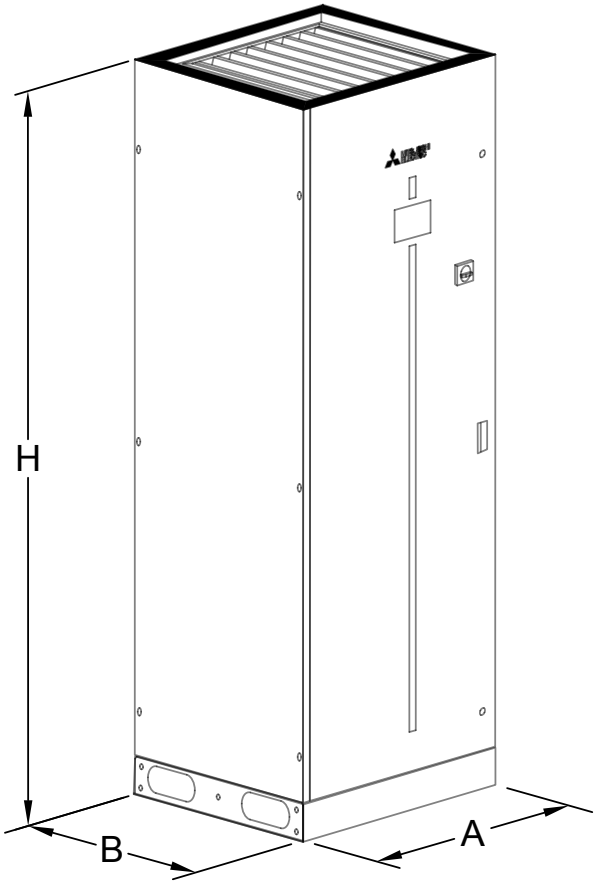
Outdoor Unit(s) Data*10			PUZ-ZM100YDA	PUZ-ZM125YDA	PUZ-ZM250YKA2	PUZ-ZM250YKA2	PUZ-ZM200YKA2	PUZ-ZM250YKA2
INSTALLATION								
PIPEWORK SEPARATION*11	Standard		40	40	30	30	30	30
	Max*12		100	100	100	100	100	100
ELECTRICAL DATA								
POWER INPUT	Nominal	kW	2	2.94	6.41	9.67	4.73	6.41
MAX OPERATING CURRENT		A	8.7	9.7	22.5	22.5	22.5	22.5
POWER SUPPLY CABLE		No. x mm^2	5G1.5	5G1.5	5G6	5G6	5G6	5G6
SOUND								
SOUND PRESSURE LEVEL*13			44	50	62	62	62	62
SOUND POWER LEVEL			63	70	77	77	77	77
SIZE AND WEIGHT								
WIDTH (A)		mm	1110	1050	1050	1050	1050	1050
DEPTH (B)		mm	505	370	370	370	370	370
HEIGHT (H)		mm	870	1338	1338	1338	1338	1338
WEIGHT		kg	114	125	135	135	137	135

Notes: The cooling capacity does not consider the supply fan motor thermal load. 1. Gross value based on return air of 27ºC - 47%RH; Ambient Temperature 35ºC; ESP=20PA; Interconnecting pipework length 5m. 2. SHR = Sensible Cooling Capacity / Total Cooling Capacity. 3. EER = Energy Efficiency Ratio. b 4. Rubber pipe - referred to internal diameter. 5. Minimum section. 6. External Static Pressure. 7. Corresponding to the nominal ESP=20Pa. 8. As per ISO 3744. Sound pressure level on air return at 1m. 9. All data refers to a single outdoor unit / circuit. 11. In one direction. 12. Additional refrigerant required for pipework separation greater than the standard. 13. 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.

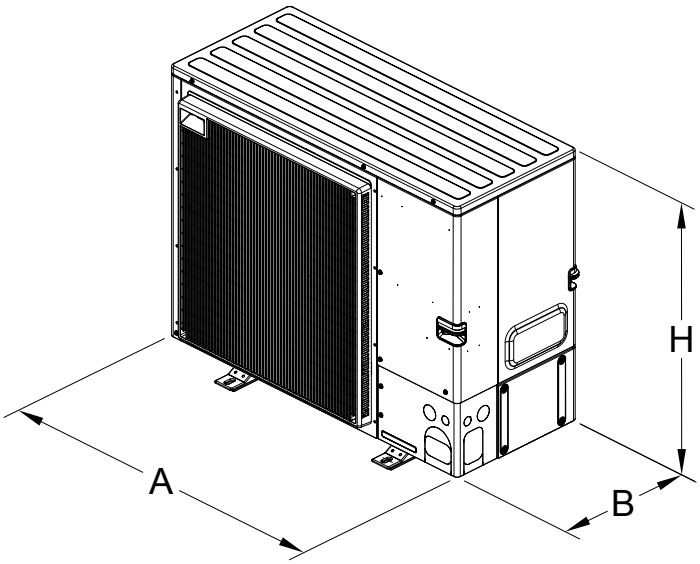
s-MEXT DIMENSIONS

mm

INDOOR UNIT



OUTDOOR UNIT



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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), R290 (GWP:3), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), 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. In case of Regulation (EU) No.626/2011 from IP CC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of February 2025

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