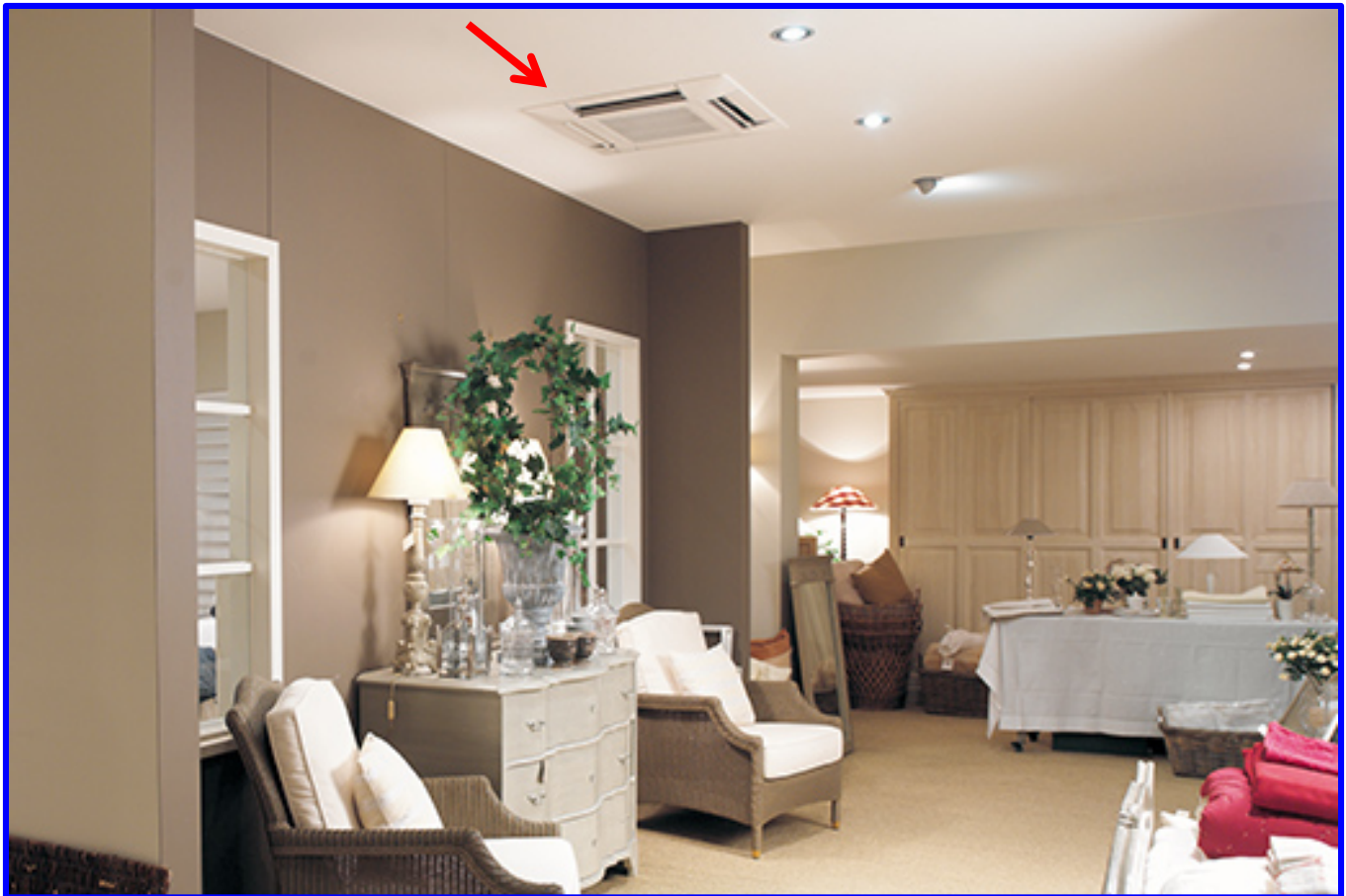


*Inverter **heat pump** cassette systems from*

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AIR CONDITIONERS

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Indoor Unit Specifications

Model			MCHINC12S	MCHINC18S
Power supply		V-ph-Hz	208-230~1-60	208-230~1-60
Cooling	Capacity	Btu/h	12000	16000
	EER	Btu/W	12.5	12.5
	SEER		19.5	20
Heating	Capacity	Btu/h	12000	18000
	HSPF4		10.2	10.5
	HSPF5		8.2	8.7
Minimum Circuit Ampacity		A	1.3	1.9
Max Fuse		A	15	15
Indoor Fan Motor	Model		ZKFP-46-8-1	ZKFP-46-8-1
	Qty		1	1
	Input	w	46(Output)	46(Output)
	RLA	A	1.0	1.5
	Speed (hi/mi/lo)	r/min	680 / 580 / 500	730 / 630 / 570
Indoor coil	Number of rows		2	2
	Tube pitch(a) x row pitch(b)	inch	0.83 x 0.53	0.83 x 0.53
	Fins/inch		19	19
	Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium
	Tube outside dia. and type	mm	Φ7, innergroove tube	Φ7, innergroove tube
	Coil length x height x width	inch	53.54 x 8.27 x 1.05	53.54 x 8.27 x 1.05
	Number of circuits		4	4
Indoor air flow (Hi/Med/Lo)		CFM	380	550
Indoor noise level (Hi/Mid/Lo)		dB(A)	42 / 38 / 33	44 / 40 / 38
Indoor Unit	Dimension (W x D x H) (body)	inch	22.44 x 22.44 x 10.24	22.44 x 22.44 x 10.24
	Packing (W x D x H) (body)	inch	25.79 x 25.79 x 11.42	25.79 x 25.79 x 11.42
	Dimension (W x D x H) (panel)	inch	25.47 x 25.47 x 1.97	25.47 x 25.47 x 1.97
	Packing (W x D x H) (panel)	inch	28.15 x 28.15 x 4.84	28.15 x 28.15 x 4.84
	Net/Gross weight (body)	lbs.	35.27 / 41	35.49 / 41.23
	Net/Gross weight (panel)	lbs.	5.51 / 9.92	5.51 / 9.92
Design pressure		PSIG	540 / 300 PSIG	550 / 340 PSIG
Drainage water pipe dia.		mm	ODΦ25	ODΦ25
Refrigerant piping	Liquid side/ Gas side	mm	Φ6.35/Φ12.7 (1/4"/1/2")	Φ6.35/Φ12.7 (1/4"/1/2")
Controller			Remote control	Remote control
Room Temperature	Cooling	°F	62~90	62~90
	Heating	°F	32~86	32~86
Operation Temperature		°F	62~86	62~86



Indoor Unit Specifications

Model			MCHIC24S	MCHIC36S	MCHIC48S
Power supply		V-ph-Hz	208~230-1-60	208~230-1-60	208~230-1-60
Cooling	Capacity	Btu/h	24000	36000	46000
	EER	Btu/W	10.2	8	8.8
	SEER		16.5	15	15.5
Heating	Capacity	Btu/h	24000	36000	47000
	HSPF4		9.0	9.0	9.0
	HSPF5		7.4	7.5	7.9
Minimum Circuit Ampacity		A	2.0	1.9	2.0
Max Fuse		A	25	15	15
Indoor Fan Motor	Model		WZDK42-38G	WZDK124-38G	WZDK124-38G
	Qty		1	1	1
	Input	w	42	124	124
	RLA	A	2	1.5	1.6
	Speed (hi/mi/lo)	r/min	600 / 530 / 460	720 / 630 / 560	720 / 630 / 560
Indoor coil	Number of rows		2	3	3
	Tube pitch(a) x row pitch(b)	inch	0.83 x 0.53	0.83 x 0.53	0.83 x 0.53
	Fins/inch		18	18	18
	Fin type (code)		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	Tube outside dia. and type	mm	Φ7,inner grooved tube	Φ7,inner grooved tube	Φ7,inner grooved tube
	Coil length x height x width	inch	79.13 x 6.61 x 1.05	81.89 x 8.27 x 1.58	81.89 x 9.92 x 1.58
	Number of circuits		8	10	12
Indoor air flow (Hi/Med/Lo)		CFM	736/647/559	1060/940/820	1190/1000/850
Indoor noise level (Hi/Mid/Lo)		dB(A)	51 / 47 / 43	52 / 47 / 44	52 / 48 / 44
Indoor Unit	Dimension (W x D x H) (body)	inch	33.07 x 33.07 x 8.07	33.07 x 33.07 x 9.65	33.07 x 33.07 x 11.3
	Packing (W x D x H) (body)	inch	35.43 x 35.43 x 8.86	35.43 x 35.43 x 10.43	35.43 x 35.43 x 11.5
	Dimension (W x D x H) (panel)	inch	37.4 x 37.4 x 2.17	37.4 x 37.4 x 2.17	37.4 x 37.4 x 2.17
	Packing (W x D x H) (panel)	inch	40.75 x 40.75 x 3.54	40.75 x 40.75 x 3.54	40.75 x 40.75 x 3.54
	Net/Gross weight (body)	lbs.	45.19 / 52.91	55.12 / 62.83	63.93 / 73.85
	Net/Gross weight (panel)	lbs.	11.02 / 17.64	11.02 / 17.64	11.02 / 17.64
Design pressure		PSIG	550 / 340 PSIG	550 / 340 PSIG	550 / 340 PSIG
Drainage water pipe dia.		mm	ODΦ32	ODΦ32	ODΦ32
Refrigerant piping	Liquid side/ Gas side	mm	Φ9.52/Φ15.9 (3/8"/5/8")	Φ9.52/Φ15.9 (3/8"/5/8")	Φ9.52/Φ15.9 (3/8"/5/8")
Controller			RG05F2/BGEU1	RG05F2/BGEU1	RG05F2/BGEU1
Room Temperature	Cooling	°F	62~90	62~90	62~90
	Heating	°F	32~86	32~86	32~86
Operation Temperature		°F	62~86	62~86	62~86



Outdoor Unit Specifications

Model			MROHNC12AS	MROHNC18AS
Power supply		V- Ph-Hz	208-230~1-60	208-230~1-60
Max. fuse		A	15	25
Minimum circuit ampacity		A	9	18
Compressor	Model		ATM115D43UFZ2	ATF235D22UMT
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	Btu/h	11430	24345
	Input	W	870	1970
	Rated current (RLA)	A	5.65	12.90
	Refrigerant oil	ml	ESTER OIL VG74 / 500	POE(VG74)/670
Outdoor fan motor	Model		ZKFN-40-8-1L	ZKFN-50-8-2
	Qty		1	1
	Input	W	40(Output)	50(Output)
	RLA	A	0.38	0.42
	Speed	r/min	810	850
Outdoor coil	Number of rows		2	2
	Tube pitch(a) × row pitch(b)	inch	1 x 0.87	1x0.87
	Fins/inch		18	18
	Fin type		Hydrophilic aluminium	Hydrophilic aluminium
	Tube outside dia. and type	mm	Φ9.52, innergroove tube	Φ9.52, innergroove tube
	Coil length x height x width	inch	33.86 x 20 x 1.73	28.74 x 25.98 x 1.73
	Number of circuits		4	4
Outdoor air flow (Max.)		CFM	1180	1355
Outdoor noise level		dB(A)	57	59
Throttle type			Capillary +EXV	Capillary +EXV
Outdoor Unit	Dimension (W×D×H)	inch	31.5 x 13.11 x 21.81	33.27 x 14.29 x 27.64
	Packing (W×D×H)	inch	36.22 x 15.35 x 24.21	37.99 x 15.55 x 29.72
	Net/ Gross weight	lbs.	88.18 / 93.7	107.4 / 115.1
Refrigerant type/Quantity	Type/Charged volume	Oz	R410A / 52.9	R410A / 68.8
Refrigerant precharge		ft	25	25
Additional charge for each ft		oz	0.16	0.16
Design pressure		PSIG	550 / 340	550 / 340
Refrigerant piping	Liquid side/ Gas side	mm (inch)	Φ6.35/Φ12.7 (1/4"/1/2")	Φ6.35/Φ12.7 (1/4"/1/2")
	Max. pipe length	ft	82	98
	Max. difference in level	ft	33	66
Ambient Temperature	Cooling	°F	-22~122	-22~122
	Heating	°F	-22~86	-22~86



Outdoor Unit Specifications

Model			MROHC24AS	MROHC36AS	MROHC48AS
Power supply		V- Ph-Hz	208-230V~ 60Hz, 1Ph	208~230-1-60	208~230-1-60
Max. fuse		A	25.0	50	55
Minimum circuit ampacity		A	15.0	30	35
Compressor	Model		DA250S2C-30MT	TNB306FPGMC-L	MNB36FAAMC-L
	Type		Twin-rotary	Twin-rotary	Twin-rotary
	Brand		GMCC	Mitsubishi	Mitsubishi
	Capacity	Btu/h	26289	33711	40603
	Input	W	2120	3010	3520
	Rated current (RLA)	A	8.85	22	23.5
	Refrigerant oil	ml	ESTER OIL VG74/820	1070	1400
Outdoor fan motor	Model		WZDK72-38G	WZDK180-38G	WZDK85-38G
	Qty		1	1	2
	Input	W	72(Output)	180(Output)	85(Output)
	RLA	A	0.55	1	1.2
	Speed	r/min	800	860	1000
Outdoor coil	Number of rows		3	2	2
	Tube pitch(a) x row pitch(b)	inch	0.83x0.53	0.87x0.75	0.87x0.75
	Fins/inch		18	16	16
	Fin type		Hydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	Tube outside dia. and type	mm	Φ7,innergroove tube	Φ7.94,inner grooved tube	Φ7.94, inner groove tube
	Coil length x height x width	inch	30.56 x 31.42 x 1.58	34.84 x 35.51 x 1.5	39.17 x 51.97 x 1.5
	Number of circuits		6	4	10
Outdoor air flow (Max.)		CFM	2060	3240	4240
Outdoor noise level		dB(A)	60	66	64
Throttle type			Capillary +EXV	Capillary +EXV	Capillary +EXV
Outdoor Unit	Dimension (W×D×H)	inch	35.43 x 12.40 x 33.86	38.98 x 13.58 x 37.99	36.93 x 15.43 x 53.9
	Packing (W×D×H)	inch	41.06 x 15.55 x 36.02	44.09 x 17.13 x 43.31	43.11 x 19.49 x 59.25
	Net/ Gross weight	lbs.	130.07 / 138.89	160.94 / 182.98	220.46 / 251.33
Refrigerant type/Quantity	Type/Charged volume	Oz	R410A / 85.7	R410A / 97	R410A / 152
Refrigerant precharge		ft	25	25	25
Additional charge for each ft		oz	0.32	0.32	0.32
Design pressure		PSIG	550 / 340	550 / 340	550 / 340
Refrigerant piping	Liquid side/ Gas side	Mm (inch)	Φ9.52/Φ15.9 (3/8"/5/8")	Φ9.52/Φ15.9 (3/8"/5/8")	Φ9.52/Φ15.9 (3/8"/5/8")
	Max. pipe length	ft	164	213	213
	Max. difference in level	ft	82	98	98
Ambient Temperature	Cooling	°F	5~122	5~122	5~122
	Heating	°F	5~76	5~76	5~76



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