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CAC-AHC-18 SERIES

SPLIT SYSTEM
HEAT PUMP
INVERTER

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CAC-AHC-18 SERIES



CAC-18 Series (Top-Discharge Condensing Unit) Technical Specifications

Model			CAC2413H18	CAC3613H18	CAC4813H18	CAC6013H18
Electrical Data	Voltage-Phase-Hz	V-Ph-Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
	Minimum Circuit Ampacity	A	17.7	24.2	31.9	36.5
	Max. Overcurrent Protection	A	30	40	50	60
	Min / Max Volts	V	187 / 253	187 / 253	187 / 253	187 / 253
Cooling	Capacity	Btu/h	24,000	34,500	47,000	56,000
	EER	Btu/h.W	11.6	11.6	11.6	10.8
	SEER	Btu/h.W	17.5	17.5	17.5	17.5
Heating	Capacity	Btu/h	24,000	34,500	46,500	55,000
	HSPF	Btu/h.W	9.5	9.0	9.5	9.5
Compressor	Model	-	ATM240D57UFT	ATM240D57UFT	MNB42FCKMC-L	MNB42FCKMC-L
	Brand	-	GMCC	GMCC	Mitsubishi	Mitsubishi
	Type	-	Twin-Rotary DC	Twin-Rotary DC	Twin-Rotary DC	Twin-Rotary DC
	Capacity	W	9900	9900	15900	15900
	Input	W	3300	3300	5140	5140
	Rated Current (RLA)	A	16.3	16.3	18.6	18.6
	Locked Rotor Amp (LRA)	A	-	-	118.9	118.9
	Thermal Protector	µF	Internal	Internal	Internal	Internal
	Capacity	W/h	7130±5%	7130±5%	13780±5%	13780±5%
	Input	W	2200±5%	2200±5%	4040±5%	4040±5%
	Rated current (RLA)	A	9.7	9.7	11.80	11.80
	Refrigerant Oil	ml	870	870	1400	1400
	RLA	-	13.5	18.5	27.2	27.2
	LRA	-	45	45	58.1	58.1
Outdoor Motor	Model	-	YDK-110-8P2-AL	YDK-110-8P2-AL	WZDK200-310G	WZDK200-310G
	Brand	-	Chigo	Chigo	Panasonic	Panasonic
	Type	-	AC	AC	DC	DC
	Rated HP	W	1/6	1/6	1/3	1/3
	Capacitor	µF	6	6	/	/
	Speed	rpm	870	870	1050	1050
	FLA	A	0.8	1	2.5	2.5
Outdoor Motor	Material	-	Metal	Metal	Metal	Metal
	Type	-	Axial Flow	Axial Flow	Axial Flow	Axial Flow
	Diameter	in / cm	23.62 / 9.30	23.62 / 9.30	23.62 / 9.30	23.62 / 9.30
	Height	in / cm	2.75 / 1.08	4.5 / 1.77	4.5 / 1.77	4.5 / 1.77
	Air Flow	CFM	2400	2950	4100	4100
Outdoor Motor	Number of Row	-	1	2	2	2
	Tube Outside Dia	mm / in	7 / 0.28	7 / 0.28	7 / 0.28	7 / 0.28
Outdoor Noise Level	-	dB(A)	75	77	79	79
Outdoor Unit	Dimension (W×H×D)	mm / in	740×633×740 / 29.12×25×29.12	740×633×740 / 29.12×25×29.12	740×835×740 / 29.12×32.87×29.12	740×835×740 / 29.12×32.87×29.12
	Packing (W×H×D)	mm / in	760×660×760 / 30×26×30	760×660×760 / 30×26×30	760×875×760 / 30×34.44×30	760×875×760 / 30×34.44×30
	Net / Gross Weight	kg / lb	71-75 / 157-165	71-75 / 157-165	91-96 / 201-211	91-96 / 201-211
Refrigerant Type	-	-	R410A	R410A	R410A	R410A
Refrigerant Quantity	-	kg / lb	3.35 / 7.38	3.35 / 7.38	4.85 / 10.69	4.85 / 10.69
Refrigerant System	Liquid Side / Gas Side	in	3/8 / 3/4	3/8 / 3/4	3/8 / 7/8	3/8 / 7/8
	Factory Charge R410A	oz	114	114	166	166
	Metering Device	-	EEV	EEV	EEV	EEV
Operating Temperatures	-	°F / °C	5 - 118 / -15 - 47.77	5 - 118 / -15 - 47.77	5 - 118 / -15 - 47.77	5 - 118 / -15 - 47.77
Shipping per STD40HQ	-	pcs	180	180	135	135

AHC-18 Series (Air Handler Unit) Technical Specifications

Model			AHC24H18	AHC36H18	AHC48H18	AHC60H18
Power Supply	Voltage-Phase-Hz	V-Ph-Hz	208/230-1-60	208/230-1-60	208/230-1-60	208/230-1-60
Cooling	Capacity	Btu/h	24,000	34,500	47,000	56,000
	SEER	Btu/h.W	17.5	17.5	17.5	17.5
Heating	Capacity	Btu/h	24,000	34,500	46,500	56,000
	HSPF	-	9.5	9.0	9.5	9.5
Indoor Coil	Number of Rows	-	4×2	4×2	5×2	5×2
	Tube Outside Dia. / Type	-	7mm / Innergroove Tube	7mm / Innergroove Tube	7mm / Innergroove Tube	7mm / Innergroove Tube
	Fin spacing / Thickness / Type	in / in - mm / mm	0.062 / 0.0037 - 1.6 / 0.095 / Hydrophilic Aluminium			
Indoor Motor	Tube Pitch(a) × Row Pitch(b)	in / mm	0.52 × 0.82 / 13.37 × 21	0.52 × 0.82 / 13.37 × 21	0.52 × 0.82 / 13.37 × 21	0.52 × 0.82 / 13.37 × 21
	Type	-	ECM	ECM	ECM	ECM
	Rated HP	HP	1/3	1/2	3/4	3/4
Indoor Fan	Rated RPM	r/min	1050	1050	1050	1050
	FLA	-	2.8	4.1	6.0	6.0
	Material	-	Galvanized Plate	Galvanized Plate	Galvanized Plate	Galvanized Plate
	Type	-	Centrifugal	Centrifugal	Centrifugal	Centrifugal
Indoor Air Flow	Diameter	in / mm	11 / 279.4	11 / 279.4	11 / 279.4	11 / 279.4
	Height	in / mm	10.62 / 269.74	10.62 / 269.74	10.62 / 269.74	10.62 / 269.74
	Material	-	Galvanized Plate	Galvanized Plate	Galvanized Plate	Galvanized Plate
ESP	-	Pa	25	37.5	50	50
Indoor Noise Level	-	dB(A)	63	66	67	68
Metering Device	Throttle Type	-	TXV	TXV	TXV	TXV
	Model Number	-	3TR	3TR	5TR	5TR
Electrical Data	Minimum Circuit Ampacity	-	3.5	5.1	7.5	7.5
	Max. Overcurrent Protection	-	15	15	15	15
	Min / Max Volts	V	187 / 253	187 / 253	187 / 253	187 / 253
Indoor Unit	Dimension (W×H×D)	mm	500×1162×560	500×1162×560	560×1350×620	560×1350×620
		in	19.66×45.75×22	19.66×45.75×22	22×53.12×24.5	22×53.12×24.5
	Packing (W×H×D)	mm	580×1210×650	580×1210×650	640×1390×710	640×1390×710
		in	22.31×47.62×25.60	22.31×47.62×25.60	25.20×54.75×28	25.20×54.75×28
	Net / Gross Weight	kg	57 / 63	57 / 63	77 / 85	77 / 85
		lb	126 / 139	126 / 139	170 / 188	170 / 188
Refrigerant Piping Liquid Side / Gas Side	-	in	3/8 / 3/4	3/8 / 3/4	3/8 / 7/8	3/8 / 7/8
Shipping per STD40HQ	-	pcs	154	154	104	104



Field Installed Electric Heat Kits (Optional)

MODEL	PART NUMBER	DESCRIPTION
81-23259-00	ECHK-05A	5 kW Electric Strip heater
81-23258-00	ECHK-08A	7.5 kW Electric Strip heater
81-23257-00	ECHK-10A	10 kW Electric Strip heater
81-23256-00	ECHK-15A	15 kW Electric Strip heater
81-23255-00	ECHK-20A	20 kW Electric Strip heater

