



**CIAC**<sup>®</sup>  
Air conditioning

# FREEDOM

**INVERTER | B SERIES**



**INVERTER**  
TECHNOLOGY

**R-410A**  
REFRIGERANT





### FLOOR CEILING

- » Wired Controller
- » Build-in Pump
- » Central Controller
- » Digital Display
- » Long Distance Alarm
- » Anti-Cold Wind Switch
- » ON/OFF Controller
- » Emergency Using
- » Blue anti-corrosion treatment

**R-410A**  
REFRIGERANT



Indoor		CF43BX018-M3N1H	CF43BX024-M3N1H	CF43BX036-M3N1H	CF43BX048-M3N1H	CF43BX060-M3N1H	
Outdoor		CM43BX018-H3N1H	CM43BX024-H3N1H	CM43BX036-H3N1H	CM43BX048-H3N1H	CM43BX060-H3N1H	
Power supply (Indoor)	V- Ph-Hz	208-230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	
Power supply (Outdoor)	V- Ph-Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	
Cooling	Capacity (range)	Btu/h	18000(~/~)	24000(~/~)	36000(~/~)	48000(~/~)	
	Input	W	1440	1920	4509	5161	
	Rated current	A	6.6	8.78	20.6	23.6	
	EER	Btu/w	12.5	12.5	8	9.3	
	SEER	Btu/w	20	20	16	17.8	
Heating	Capacity (range)	Btu/h	18000(~/~)	24000(~/~)	38000(~/~)	60000(~/~)	
	Input	W	1636	1846	3978	4579	
	Rated current	A	7.49	8.44	18.2	20.96	
	COP	W/W	3.22	3.81	2.80	3.20	
	HSPF4	Btu/w	10.5	11	10	11	
HSPF5	Btu/w	8.8	9	8.7	9.4		
Heating at 17F (-8.33°C)	Rated capacity	Btu/h	/	/	/	/	
Heating at 5F (-15°C)	Rated capacity	Btu/h	10533	17705	22298	34601	
	COP	W/W	/	/	/	/	
Heating at -4F (-20°C)	Rated capacity	Btu/h	/	/	/	/	
Heating at -13F (-25°C)	Rated capacity	Btu/h	/	/	/	/	
Heating at -22F (-30°C)	Rated capacity	Btu/h	/	/	/	/	
MINIMUM CIRCUIT AMPACITY(Indoor)	A	1.9	2.5	1.9	2.3	3.0	
MAX.FUSE(Indoor)	A	15	15.0	15.0	15.0	15	
Indoor fan motor	Model		ZKFN-55-8-1	ZKFN-55-8-1	ZKFN-115-8-1	ZKFN-90-8-1	
	Qty						
	Input	W	100.0	100.0	130.0	96.0	
	RLA	A	1.5	/	/	/	
	Winding Resistance	Ω	-	/	/	/	
Speed(Hi/Mi/Lo)	r/min	950/850/750	1350/1260/1120	1300/1150/800	1320/1200/1120	1350/1050/850	
Indoor air flow (Hi/Mi/Lo)	m <sup>3</sup> /h	932/825/715	1290/1204/1017	1762/1559/1084	2300/1900/1700	2353/1749/1352	
Indoor air flow (Hi/Mi/Lo)	CFM	548.24/485.29/420.59	758.82/708.24/598.24	1036.47/917.06/637.65	1352.94/1117.65/1000.00	1384.12/1028.82/795.29	
Indoor noise level (Hi/Mi/Lo)	dB(A)	44.5/41.5/36.5	50/47/39.5	51.5/0/40.5	55.5/51.5/46.5	55/50/39	
Indoor unit	Dimension(W*D*H)	mm	1068x675x235	1068x675x235	1285x675x235	1650x675x235	
	Dimension(W*D*H)	inch	42.05x26.57x9.25	42.05x26.57x9.25	50.59x26.57x9.25	64.96x26.57x9.25	
	Packing (W*D*H)	mm	1145x755x318	1145x755x318	1360x755x318	1725x755x318	
	Packing (W*D*H)	inch	45.08x29.72x12.32	45.08x29.72x12.32	53.54x29.72x12.32	67.91x29.72x12.32	
	Net/Gross weight	Kg	25.9/31	26.5/31.4	31.3/37	39.8/46.4	46/50
	Net/Gross weight	lbs.	57.10/68.34	58.42/69.22	69.00/81.57	87.74/102.29	101.41/110.23
Drainage water pipe dia	mm	ODΦ25mm	ODΦ25mm	ODΦ25mm	ODΦ25mm	ODΦ25mm	
Qty/per 20' /40' /40'HQ	Indoor unit	102/220/252	102/220/252	92/188/213	72/147/167	72/147/167	
MINIMUM CIRCUIT AMPACITY(Outdoor)	A	15.0	18	35	35	0	
MAX.FUSE(Outdoor)	A	20	25	50	50	0	
Compressor	Model		ASM135D23UFZ	ATF235D22UMT	ATF310D43UMT	ATQ420D1UMU	
	Type		ROTARY	ROTARY	ROTARY	ROTARY	
	Brand		GMCC	GMCC	GMCC	GMCC	
	Capacity	W	4055	7135	9490	13100	
	Input	W	1035	1970	2600	3420	
	Rated current(RLA)	A	10	12	/	23.5	
Thermal protector position		NA	NA	NA	NA		
Refrigerant oil/oil charge	ml	VG74/450	VG74/670	VG74/1000	VG74/1400	VG74/1400	
Outdoor fan motor	Model		ZKFN-50-8-2	ZKFN-120-8-2	ZKFN-85-8-22-5	ZKFN-85-8-22-5	
	Input	W	115.0	150.0	126.0	126.0	
	RLA	A	0.6	0.6	/	1.2	
	Speed	r/min	850/750/700	850/750/700	950/750	800/700/600	
Outdoor air flow	m <sup>3</sup> /h	2500	3800	2529	7500		
Outdoor air flow	CFM	1470.59	2235.29	1487.65	4500.00		
Outdoor noise level	dB(A)	57.5	58.5	62.5	61.5		
Outdoor unit	Dimension(W*D*H)	mm	845x363x702	946x410x810	946x410x810	952x415x1333	
	Dimension(W*D*H)	inch	33.27x14.29x27.64	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48	
	Packing (W*D*H)	mm	965x395x775	1090x500x885	1090x500x885	1095x495x1480	
	Packing (W*D*H)	inch	37.99x15.55x30.12	42.91x19.69x34.45	42.91x19.69x34.45	43.11x19.49x58.27	
	Net/Gross weight	Kg	47.7/51	64/69	67.4/73	101/115	
	Net/Gross weight	lbs.	105.16/112.43	141.09/152.12	148.59/160.94	222.66/253.53	
Refrigerant type	oz	R410A/68.8	R410A/82.9	R410A/108	R410A/148		
Refrigerant precharge	ft	20	20	30	30		
Additional charge for each ft	oz	0.21	0.21	0.32	0.32		
Design pressure	PSIG	550/340	550/340	550/340	550/340		
Refrigerant piping	Liquid side/ Gas side	mm(inch)	6.35mm(1/4in)/12.7mm(1/2in)	9.52mm(3/8in)/15.9mm(5/8in)	9.52mm(3/8in)/15.9mm(5/8in)	9.52mm(3/8in)/15.9mm(5/8in)	
	Max. refrigerant pipe length	ft	30	50	65	65	
	Max. refrigerant pipe length	m	98.42	164.04	213.25	213.25	
	Max. difference in level	m	20	25	30	30	
	Max. difference in level	ft	65.62	82.02	98.42	98.42	
Room temperature	Indoor(cooling/heating)	°C	17~32.0~30	17~32.0~30	17~32.0~30	17~32.0~30	
	Outdoor(cooling/heating)	°C	-25~50/-25~30	-25~50/-25~30	-25~50/-25~30	-25~50/-25~30	
Application area (Cooling Standard)	m <sup>2</sup>	24~35	32~47	64~94	72~106		
Application area (cooling standard)	sq.ft	258.33~376.74	344.44~505.90	516.67~753.47	775.00~1140.97		
Qty/per 20' /40' /40'HQ	Outdoor unit	102/215/216	44/96/138	44/96/138	22/48/48		



### CASSETTE

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**R-410A**  
REFRIGERANT



Indoor		CK43BX009-C3N1H	CK43BX012-C3N1H	CK43BX018-C3N1H	CK43BX024-C3N1H	CK43BX036-C3N1H	CK43BX048-C3N1H	
Outdoor		CM43BX009-H3N1H	CM43BX012-H3N1H	CM43BX018-H3N1H	CM43BX024-H3N1H	CM43BX036-H3N1H	CM43BX048-H3N1H	
Power supply (Indoor)	V- Ph-Hz	208-230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	
Power supply (Outdoor)	V- Ph-Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	
Cooling	Capacity (range)	9000(/~)	12000(/~)	18000(/~)	24000(/~)	36000(/~)	48000(/~)	
	Input	W	692	858	1440	1920	5053	
	Rated current	A	3.17	3.9	6.59	8.79	16.7	23.1
	EER	Btu/w	13	14	12.5	12.5	9.0	9.5
	SEER	Btu/w	20	21.5	20	20	17.5	16.8
Heating	Capacity (range)	10000(/~)	12000(/~)	18000(/~)	24400(/~)	38000(/~)	50000(/~)	
	Input	W	910	951	1636	2218	3700	4727
	Rated current	A	4	4.2	7.49	10.18	16.93	21.6
	COP	W/W	3.22	3.7	3.22	3.22	3.01	3.10
	HSPF4	Btu/w	10.5	10.5	10.3	10.5	10.5	11
HSPF5	Btu/w	8.4	8.4	8.8	8.4	9.1	9.4	
Heating at 5F (-15°C)	Rated capacity	Btu/h	7878	8462	9410	15471	28000	35410
MINIMUM CIRCUIT AMPACITY(Indoor)	A	1.2	/	/	2.5	1.9	2	
MAX FUSE(Indoor)	A	15.0	/	/	15	15	15.0	
Indoor fan motor	Model	ZKFP-46-8-1	ZKFP-46-8-1	/	ZKFP-42-8-1	ZKFP-124-8-2	ZKFN-170-8-1	
	Input	W	45.0	45.0	58.0	141.0	232.0	
	RLA	A	/	/	0.332	0.93	/	
	Speed(Hi/Mi/Lo)	r/min	600/520/460	/	/	600/520/450	720/630/560	950/900/800/700
Indoor air flow (Hi/Mi/Lo)	m3/h	600/520/460	/	/	1162/1042/918	1861/1628/1447	2000/1750/1450	
Indoor air flow (Hi/Mi/Lo)	CFM	352.94/305.89/270.59	/	/	683.53/612.94/540.00	1094.71/957.65/851.18	1176.47/1029.41/852.94	
Indoor noise level (Hi/Mi/Lo)	dB(A)	38.5/34.5/30.5	41/38.5/33.5	41/38.5/33.5	48.5/46.5/40.5	52.5//46.5	54.5/51.5/46.5	
Indoor unit	Dimension(W*D*H)	mm	570x570x260	570x570x260	840x840x205	840x840x245	840x840x287	
	Dimension(W*D*H)	inch	22.44x22.44x10.24	22.44x22.44x10.24	33.07x33.07x8.07	33.07x33.07x9.65	33.07x33.07x11.30	
	Packing (W*D*H)	mm	662x662x317	662x662x317	900x900x225	900x900x265	900x900x307	
	Packing (W*D*H)	inch	26.06x26.06x12.48	26.06x26.06x12.48	35.43x35.43x8.86	35.43x35.43x10.43	35.43x35.43x11.50	
	Net/Gross weight	Kg	14.5/17.3	16/18.6	21/24.6	26.4/30	28.7/32.9	28.7/32.9
	Net/Gross weight	lbs.	31.97/38.14	35.27/41.01	46.30/54.23	58.20/66.14	63.27/72.53	63.27/72.53
Drainage water pipe dia	mm	ODΦ25mm	ODΦ25mm	ODΦ32mm	ODΦ32mm	ODΦ32mm	ODΦ32mm	
Qty'per 20' /40' /40'HQ	Indoor unit	186/375/429	186/375/429	/	/	/	100/212/238	
MINIMUM CIRCUIT AMPACITY(Outdoor)	A	10	12	18	35	35	35	
MAX FUSE(Outdoor)	A	15	15	25	50	50	50	
Compressor	Model	ASN98D22UFZ	ASM98D32UFZ	/	ATF235D22UMT	ATF310D43UMT	ATQ420D1UMJ	
	Type	ROTARY	ROTARY	/	ROTARY	ROTARY	ROTARY	
	Brand	GMCC	GMCC	/	GMCC	GMCC	GMCC	
	Capacity	W	2935	2958	7135	9490	13100	
	Input	W	748	730	1970	2600	3420	
	Rated current(RLA)	A	5.5	6.8	12	/	23.5	
Refrigerant oil/oil charge	ml	VG74/370	VG74/340	/	VG74/670	VG74/1000	VG74/1400	
Outdoor fan motor	Model	ZKFN-34-8-1-3	ZKFN-34-8-1-3	/	ZKFN-120-8-2	ZKFN-120-8-2	ZKFN-85-8-22-5	
	Input	W	/	/	150.0	150.0	126.0	
	RLA	A	0.4	0.4	0.6	/	1.2	
	Speed	r/min	800/750/650	800/700/650	/	850/750/700	950/750	800/700/600
Outdoor air flow	m3/h	2000	2000	/	3800	2529	7650	
Outdoor air flow	CFM	1176.47	1176.47	/	2235.29	1487.65	4500.00	
Outdoor noise level	dB(A)	52	55	57.5	58.5	63.5	61.5	
Outdoor unit	Dimension(W*D*H)	mm	770x300x555	800x333x554	xx	946x410x810	946x415x1333	
	Dimension(W*D*H)	inch	30.31x11.81x21.85	31.50x13.11x21.81	xx	37.24x16.14x31.89	37.48x16.34x52.48	
	Packing (W*D*H)	mm	900x345x595	920x390x625	xx	1090x500x885	1095x495x1480	
	Packing (W*D*H)	inch	35.43x13.58x23.43	36.22x15.35x24.61	xx	42.91x19.69x34.45	43.11x19.49x58.27	
	Net/Gross weight	Kg	30.5/32.5	36.5/39.1	/	64/69	67.4/73	101/115
	Net/Gross weight	lbs.	67.24/71.65	80.47/86.20	/	141.09/152.12	148.59/160.94	222.66/253.53
Refrigerant type	oz	R410A/38.8	R410A/40.6	/	R410A/82.9	R410A/108	R410A/148	
Refrigerant precharge	ft	15	15	/	30	30	30	
Additional charge for each ft	oz	0.16	0.16	/	0.21	0.32	0.32	
Design pressure	PSIG	550/340	550/340	550/340	550/340	550/340	550/340	
Refrigerant piping	Liquid side/ Gas side	mm (inch)	6.35mm(1/4in)/9.52mm(3/8in)	6.35mm(1/4in)/12.7mm(1/2in)	6.35mm(1/4in)/12.7mm(1/2in)	9.52mm(3/8in)/15.9mm(5/8in)	9.52mm(3/8in)/15.9mm(5/8in)	
	Max. refrigerant pipe length	m	25	25	30	50	65	
	Max. refrigerant pipe length	ft	82.02	82.02	98.42	164.04	213.25	
	Max. difference in level	m	10	10	20	25	30	
	Max. difference in level	ft	32.81	32.81	65.62	82.02	98.42	
Room temperature	Indoor(cooling/ heating)	°C	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30	
	Outdoor(cooling/heating)	°C	-25~50/-25~30	-25~50/-25~30	-25~50/-25~30	-25~50/-25~30	-25~50/-25~30	
Application area (Cooling Standard)	m <sup>2</sup>	12~18	16~23	24~35	32~47	64~94	84~94	
Application area (cooling standard)	sq.ft	129.17~193.75	172.22~247.57	258.33~376.74	344.44~505.90	516.67~753.47	688.89~1011.81	
Qty'per 20' /40' /40'HQ	Outdoor unit	166/344/344	108/219/292	/	44/96/138	44/96/138	22/48/48	





### CONSOLE

- » Wired Controller
- » Central Controller
- » Long Distance Alarm
- » ON/OFF Controller
- » Blue anti-corrosion treatment
- » Build-in Pump
- » Digital Display
- » Anti-Cold Wind Switch
- » Emergency Using

**R-410A**  
REFRIGERANT



Indoor		Outdoor		CF43BX012-M3N1H
Power supply (Indoor)			V- Ph-Hz	CM43BX012-H3N1H
Power supply (Outdoor)			V- Ph-Hz	208-230V,1Ph, 60Hz
Cooling	Capacity (range)		Btu/h	12000(/~/)
	Input		W	923
	Rated current		A	4.22
	EER		Btu/w	13
	SEER		Btu/w	20.5
Heating	Capacity (range)		Btu/h	12000(/~/)
	Input		W	960
	Rated current		A	4.39
	COP		W/W	3.66
	HSPF4		Btu/w	10
	HSPF5		Btu/w	8
Heating at 5F (-15°C)	Rated capacity		Btu/h	8550
MINIMUM CIRCUIT AMPACITY(Indoor)			A	1.3
Indoor fan motor	Model			ZKFP-20-8-2-1
	Speed(Hi/Mi/Lo)		r/min	810/780/680/530
Indoor air flow (Hi/Mi/Lo)			m3/h	620/541/421
Indoor air flow (Hi/Mi/Lo)			CFM	364.71/318.24/247.65
Indoor noise level (Hi/Mi/Lo)			dB(A)	45//34.5
Indoor unit	Dimension(W*D*H)		mm	700x600x210
	Dimension(W*D*H)		inch	27.56x23.62x8.27
	Packing (W*D*H)		mm	780x685x300
	Packing (W*D*H)		inch	30.71x26.97x11.81
	Net/Gross weight		Kg	14.8/18.6
	Net/Gross weight		lbs.	32.63/41.01
Drainage water pipe dia			mm	ODΦ16mm
Qty'per 20' /40' /40'HQ			Indoor unit	168/343/392
MINIMUM CIRCUIT AMPACITY(Outdoor)			A	12
MAX.FUSE(Outdoor)			A	15
Compressor	Model			ASM98D32UFZ
	Type			ROTARY
	Brand			GMCC
	Capacity		W	2958
	Input		W	730
	Rated current(RLA)		A	6.8
	Thermal protector position			NA
	Capacitor		uF	0.0
	Refrigerant oil/oil charge		ml	VG74/340
Outdoor fan motor	Model			ZKFN-34-8-1-3
	RLA		A	0.4
	Speed		r/min	800/700/650
Outdoor air flow			m3/h	2000
Outdoor air flow			CFM	1176.47
Outdoor noise level			dB(A)	55.5
Outdoor unit	Dimension(W*D*H)		mm	800x333x554
	Dimension(W*D*H)		inch	31.50x13.11x21.81
	Packing (W*D*H)		mm	920x390x625
	Packing (W*D*H)		inch	36.22x15.35x24.61
	Net/Gross weight		Kg	36.5/39.1
	Net/Gross weight		lbs.	80.47/86.20
Refrigerant type			oz	R410A/40.6
Refrigerant precharge			ft	15
Additional charge for each ft			oz	0.16
Design pressure			PSIG	550/340
Refrigerant piping	Liquid side/ Gas side		mm(inch)	6.35mm(1/4in)/12.7mm(1/2in)
	Max. refrigerant pipe length		m	25
	Max. refrigerant pipe length		ft	82.02
	Max. difference in level		m	10
	Max. difference in level		ft	32.81
Room temperature	Indoor(cooling/heating)		°C	17~32/0~30
	Outdoor(cooling/heating)			-25~50/-25~30
Application area (Cooling Standard)			m <sup>2</sup>	16~23
Application area (cooling standard)			sq.ft	172.22~247.57
Qty'per 20' /40' /40'HQ			Outdoor unit	108/219/292



**R-410A**  
REFRIGERANT



## OUTDOOR UNITS

- » Wired Controller
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Outdoor Unit Model Number		CM43BX009-H3N1H	CM43BX012-H3N1H	CM43BX018-H3N1H	CM43BX024-H3N1H	CM43BX036-H3N1H	CM43BX048-H3N1H	CM43BX060-H3N1H	
System type				Heat pump					
Power supply	V- Ph-Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208-230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	208/230V,1Ph, 60Hz	
MINIMUM CIRCUIT AMPACITY(Outdoor)	A	15.0	18	35	35	0			
MINIMUM CIRCUIT AMPACITY(Outdoor)	A	20	25	50	50	/			
Compressor	Model	ASN98D22UFZ	ASM98D32UFZ	ASM135D23UFZ	ATF235D22UMT	ATF310D43UMT	ATQ420D1UMU	ATQ420D1UMU	
	Type	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	
	Brand	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	
	Capacity	W	2935	2958	4055	7135	9490	13100	13100
	Input	W	748	730	1035	1970	2600	3420	3420
	Rated current(RLA)	A	5.5	6.8	10	12	/	23.5	0
	Thermal protector position		NA	NA	NA	NA	NA	NA	NA
	Capacitor	uF	/	0.0	/	/	/	/	/
	Refrigerant oil/oil charge	ml	VG74/370	VG74/340	VG74/450	VG74/670	VG74/1000	VG74/1400	VG74/1400
Outdoor fan motor	Model	ZKFN-34-8-1-3	ZKFN-34-8-1-3	ZKFN-50-8-2	ZKFN-120-8-2	ZKFN-120-8-2	ZKFN-85-8-22-5	ZKFN-85-8-22-5	
	Input	W	/	115.0	150.0	150.0	126.0	126.0	
	RLA	A	0.4	0.6	0.6	/	1.2	0	
	Speed	r/min	800/700/650	800/700/650	850/750/700	850/750/700	800/700/600	900/800	
Outdoor air flow	m <sup>3</sup> /h	2000	2000	2500	3800	2529	7650	7500	
Outdoor air flow	CFM	1176.47	1176.47	1470.59	2235.29	1487.65	4500.00	4411.76	
Outdoor noise level	dB(A)	54.5	55	59	59	63.5	62.5	64	
Outdoor unit	Dimension(W*D*H)	mm	770x300x555	800x333x554	845x363x702	946x410x810	946x410x810	952x415x1333	952x415x1333
	Dimension(W*D*H)	inch	30.31x11.81x21.85	31.50x13.11x21.81	33.27x14.29x27.64	37.24x16.14x31.89	37.24x16.14x31.89	37.48x16.34x52.48	37.48x16.34x52.48
	Packing (W*D*H)	mm	900x345x595	920x390x625	965x395x775	1090x500x885	1090x500x885	1095x495x1480	1095x495x1480
	Packing (W*D*H)	inch	35.43x13.58x23.43	36.22x15.35x24.61	37.99x15.55x30.12	42.91x19.69x34.45	42.91x19.69x34.45	43.11x19.49x58.27	43.11x19.49x58.27
	Net/Gross weight	Kg	30.5/32.5	36.5/39.1	47.7/51	64/69	67.4/73	101/115	102.1/115.4
	Net/Gross weight	lbs.	67.24/71.65	80.47/86.20	105.16/112.43	141.09/152.12	148.59/160.94	222.66/253.53	225.09/254.41
Refrigerant type	oz	R410A/38.8	R410A/40.6	R410A/68.8	R410A/82.9	R410A/108	R410A/148	R410A/163	
Refrigerant precharge	ft	15	15	20	20	30	30	30	
Additional charge for each ft	oz	0.16	0.16	0.21	0.21	0.32	0.32	0.32	
Design pressure	PSIG	550/340	550/340	550/340	550/340	550/340	550/340	550/340	
Refrigerant piping	Liquid side/ Gas side	mm(inch)	6.35mm(1/4in) /9.52mm(3/8in)	6.35mm(1/4in) / 12.7mm(1/2in)	6.35mm(1/4in) /12.7mm(1/2in)	9.52mm(3/8in) /15.9mm(5/8in)	9.52mm(3/8in) /15.9mm(5/8in)	9.52mm(3/8in) /15.9mm(5/8in)	9.52mm(3/8in) /19mm(3/4in)
	Max. refrigerant pipe length	m	25	25	30	50	65	65	65
	Max. refrigerant pipe length	ft	82.02	82.02	98.42	164.04	213.25	213.25	213.25
	Max. difference in level	m	10	10	20	25	30	30	30
	Max. difference in level	ft	32.81	32.81	65.62	82.02	98.42	98.42	98.42
Room temperature	Indoor(cooling/ heating)	°C	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30	17~32/0~30
	Outdoor(cooling/heating)	°C	-25~50/-25~30	-25~50/-25~30	-25~50/-25~30	-25~50/-25~30	-25~50/-25~30	-25~50/-25~30	-25~50/-25~30
Application area (Cooling Standard)	m <sup>2</sup>	12~18	16~23	24~35	32~47	48~70	64~94	76~111	
Application area (cooling standard)	sq.ft	129.17~193.75	172.22~247.57	258.33~376.74	344.44~505.90	516.67~753.47	688.89~1011.81	818.06~1194.79	
Qty per 20' /40' /40'HQ	Outdoor unit	166/344/344	108/219/292	102/215/216	44/96/138	44/96/138	22/48/48	22/48/48	



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