

Series		Energy Star	Energy Star	Energy Star	Energy Star	Energy Star	
Capacity		12K	9K	12K	18K	24K	
Indoor unit model		CHF12CA(I)	CHF09CD(I)	CHF12CD(I)	CHF18CD(I)	CHF24CD(I)	
Outdoor unit model		CPP12CA(O)	CZP09CD(O)	CZP12CD(O)	CZP18CD(O)	CZP24CD(O)	
Power supply	Rated	V, Ph, Hz	115, 1, 60	208/230, 1, 60	208/230, 1, 60	208/230, 1, 60	
	Voltage range	V	103.5-126.5	187-253	187-253	187-253	
Cooling	Rated Capacity (range)	Btu/h	12000(3250-13200)	9000(2500-11900)	12000(3600-13300)	18000(2000-19300)	24000(9200-26800)
	Input power	W	923	600	880	1440	1714
	Rated current	A	8	2.61	3.82	6.45	8
	EER	Btu/w	13	15	13.7	12.5	14
	SEER	Btu/w	23	25.5	23.2	22.6	22
Heating at 47°F	Rated Capacity (range)	Btu/h	12000(5000-12200)	10000(3400-13000)	12000(4500-13500)	19000(6200-21000)	25000(10350-27000)
	Input power	W	1000	742	945	1650	1953
	Rated current	A	8.7	3.23	4.1	7.4	8.7
	COP	W/W	3.52	3.95	3.72	3.37	3.75
	HSPF4	Btu/w	11.6	12.2	13.2	12	12
Heating at 17°F (AHR)	HSPF5	Btu/w	9	10.0	11	10	10
Heating at 5°F (-15°C)	Rated capacity	Btu/h	8500	9500	10000	15600	16500
	Rated capacity	Btu/h	7100	8300	9500	12200	15800
MINIMUM CIRCUIT AMPACITY (Outdoor unit)	COP	W/W	2	1.85	1.8	2.2	1.9
	A	A	19.0	13.0	13.0	17.0	22.0
MAX.FUSE (Outdoor unit)	A	A	25.0	15.0	15.0	20.0	30.0
Indoor air flow (Hi/Mi/Lo)		m3/h	600/500/400	570/390/300	570/390/300	890/640/520	1039/704/542
Indoor air flow (Hi/Mi/Lo)		CFM	352.94/294.12/235.29	335.29/229.41/176.47	335.29/229.41/176.47	523.53/376.47/305.88	611.18/414.12/318.82
Indoor noise level (Hi/Mi/Lo)		dB(A)	40.5/35/23.5	38/34/23	36/33.5/22.5	46.5/43/32.5	44/39/5/34
Indoor unit	Dimension(W*D*H)	mm	795x225x295	795x225x295	795x225x295	965x239x319	1140x275x370
	Packing (W*D*H)	inch	31.30x8.86x11.61	31.30x8.86x11.61	31.30x8.86x11.61	37.99x9.41x12.56	44.88x10.83x14.57
	Packing (W*D*H)	mm	870x370x305	870x370x305	870x370x305	1045x400x325	1230x455x355
	Net/Gross weight	Kg	10.4/13.2	10.4/13.1	10.4/13.1	14.1/15.7	19.8/24.9
	Net/Gross weight	lbs.	22.93/29.10	22.71/28.88	22.93/28.88	27.12/35.71	43.65/54.89
Refrigerant piping	Liquid side/Gas side	mm	6.35/12.7	6.35/9.52	6.35/12.7	6.35/12.7	9.52/15.9
		inch	1/4" / 1/2"	1/4" / 3/8"	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"
Outdoor air flow (Max.)		m3/h	1350	1200	2200	3000	3800
Outdoor air flow (Max.)		CFM	794	1294	1294	1765	2235
Outdoor noise level (Sound pressure)		dB(A)	54	53	53.5	58	60
Throttle type			Capillary +EXV	Capillary +EXV	Capillary +EXV	Capillary +EXV	Capillary +EXV
Outdoor unit	Dimension (WxDxH)	mm	765x303x555	765x303x555	765x303x555	890x342x673	946x410x810
		inch	30.12x11.93x21.85	30.12x11.93x21.85	30.12x11.93x21.85	35.04x13.46x26.50	37.24x16.14x31.89
	Packing (WxDxH)	mm	887x337x610	887x337x610	887x337x610	995x398x740	1090x500x885
		inch	34.92x13.27x24.02	34.92x13.27x24.02	34.92x13.27x24.02	39.17x13.67x29.13	42.91x19.69x34.84
Refrigerant	Type/Charged	kg	30.3/32.8	28.9/31.3	28.9/31.3	43.1/46.2	56.6/61.2
		lbs.	66.80/72.31	63.71/69.00	63.71/69.00	95.02/101.85	124.78/134.92
Refrigerant precharge	oz	g	R410A/1120	R410A/1080	R410A/1080	R410A/1600	R410A/2350
		oz	R410A/39.5	R410A/38.1	R410A/38.1	R410A/56.44	R410A/82.89
Additional charge for each ft		g/m	15	15	15	15	30
Design pressure		oz/ft	0.16	0.16	0.16	0.16	0.32
Refrigerant piping	Liquid side/Gas side	PSIG	550/340	550/340	550/340	550/340	550/340
		mm	6.35/12.7	6.35/9.52	6.35/12.7	6.35/12.7	9.52/15.9
	Max. pipe length	inch	1/4" / 1/2"	1/4" / 3/8"	1/4" / 1/2"	1/4" / 1/2"	3/8" / 5/8"
		m	25.0	25.0	25.0	25.0	50.0
		ft	82.0	82.0	82.0	98.0	164.0
Max. difference in level	m	10.0	10.0	10.0	20.0	25.0	
	ft	32.8	32.8	32.8	66.0	82.0	
Connection wiring			16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded	16AWG*4 Stranded, unshielded
Indoor Ambient temperature	Cooling	°C	16~32	16~32	16~32	16~32	16~32
		°F	60~90	60~90	60~90	60~90	60~90
	Heating	°C	0~30	0~30	0~30	0~30	0~30
		°F	32~86	32~86	32~86	32~86	32~86
Outdoor Ambient temperature	Cooling	°C	-25~50	-25~50	-25~50	-25~50	-25~50
		°F	-13~122	-13~122	-13~122	-13~122	-13~122
	Heating	°C	-25~24	-25~24	-25~24	-25~24	-25~24
		°F	-13~75	-13~75	-13~75	-13~75	-13~75