



# Hiwall **INVERTER** Heat Pump BX Series



\*Wireless kit sold separately

→ *Wireless connection capable\**

---

→ *Corrosion resistant panels and stainless-steel screws*

---

→ *Eco Mode*

---

→ *Wireless remote control with "follow me" function*

---

→ *Golden anti-corrosion treatment in indoor and outdoor unit*

---

→ *Auto re-start*

---



\*Kit sold separately



Model Number	Indoor Unit		CH420B-X012-H1N1H	CH420B-X009-H3N1H	CH420B-X012-H3N1H	CH420B-X018-H3N1H	CH420B-X024-H3N1H
	Outdoor Unit		CG420B-X012PH1N1H	CG420B-X009PH3N1H	CG420B-X012PH3N1H	CG420B-X018PH3N1H	CG420B-X024PH3N1H
<b>AHRI Reference #</b>			<b>214521882</b>	<b>214521879</b>	<b>214521881</b>	<b>214521878</b>	<b>214521880</b>
Power supply		V-Ph-Hz	115V,1Ph,60Hz		208/230V,1Ph,60Hz		
Voltage range. Min - Max.		VAC	103-127		187-254		
Cooling Performance (as per AHRI)	Capacity Range	Btu/hr	(3800~12100)	(2900~10500)	(3800~13350)	(3900~20000)	(6200~24600)
	Rated Capacity	Btu/hr	12000	9000	12000	18000	24000
	Input (Range)	W	1165(239~1890)	715(220~950)	1111(239~1528)	1638(180~1950)	2520(292~2900)
	Current (Range)	A	10.13(2.07~16.5)	3.11(0.96~4.13)	4.9(1.05~6.78)	7.5(0.78~8.60)	11.2(1.95~12.7)
	EER (AHRI 210/240 - 2017)	Btu/hr/W	10.30	12.60	10.80	11.00	9.50
	SEER (AHRI 210/240 - 2017)	Btu/hr/W	20.00	21.50	20.50	19.50	18.50
	EER2 (AHRI 210/240 - 2023)	Btu/hr/W	10.30	12.60	10.80	11.00	9.50
	SEER2 (AHRI 210/240 - 2023)	Btu/hr/W	20.80	21.70	21.40	19.50	18.50
Heating Performance (as per AHRI)	Capacity Range	Btu/hr	(2730~12500)	(2400~10500)	(2730~13900)	(6300~19400)	(6800~26800)
	Rated Capacity	Btu/hr	12000	10000	12000	18800	24000
	Input (Range)	W	1154(376~1390)	905(190~1160)	1039(376~1390)	1806(375~1950)	2350(437~2900)
	Current (Range)	A	10.05(3.26~16)	3.94(0.83~5.04)	4.6(1.67~6.17)	7.9(1.63~8.50)	10.25(2.88~12.7)
	COP (AHRI 210/240 - 2023)	WW	3.05	3.24	3.38	3.05	2.99
	HSPF (AHRI 210/240 - 2017)	Btu/hr/W	10.80	10.00	10.70	10.00	10.20
	HSPF2 (AHRI 210/240 - 2023)	Btu/hr/W	8.70	9.40	9.20	8.70	8.60
MINIMUM CIRCUIT AMPACITY(Indoor)		A	3	3.0	3	3	3.0
MAX.FUSE(Indoor)		A	15	15	15	15	15
MINIMUM CIRCUIT AMPACITY(Outdoor)		A	18.5	12.0	15	15	19
MAX.FUSE(Outdoor)		A	25	15	15	20	30
Compressor	Model		KSN98D64UFZ3	KSK103D33UEZ3	KSN98D64UFZ3	KSN140D21UFZ	KTM240D43UKT
	Brand / Type		GMCC / ROTARY				GMCC / Twin-ROTARY
	Rated current(RLA)	A	12.98	7.0	7.5	10	14.25
	Refrigerant oil/oil charge	ml	ESTER OIL VG74 300±10	ESTER OIL VG74 310	ESTER OIL VG74 300±10	ESTER OIL VG74 440	ESTER OIL VG74 620
Indoor fan motor	Model		ZKFP-20-8-113	ZKFP-13-8-4	ZKFP-13-8-4	ZKFP-30-8-3-10	ZKFP-58-8-1-5
	Speed(Hi/Mi/Lo)	r/min	850/750/450	1050/810/690	1250/1070/800	1200/1000/700	1200/1080/600
Indoor air flow (Hi/Mi/Lo)		m3/h	510/410/300	419/300/240	495/335/265	780/560/460	929/684/562
		CFM	300/241/176	246/176/141	291/197/155	458/329/270	546/402/330
Indoor sound level (Hi/Mi/Lo)		dB(A)	41/35/26.5	37/28/20	41/35/24	45/38/30.0	45/39.5/36
Indoor unit	Dimension(W*D*H)	mm	802x200x295	729x200x292	802x200x295	971x228x321	1082x234x337
	Dimension(W*D*H)	inch	31.57x7.87x11.61	28.70x7.87x11.50	31.57x7.87x11.61	38.23x8.98x12.64	42.60x9.21x13.27
	Packing (W*D*H)	mm	875x285x380	790x270x375	875x285x380	1045x305x405	1155x415x315
	Packing (W*D*H)	inch	34.45x11.22x14.96	31.10x10.63x14.76	34.45x11.22x14.96	41.14x12.01x15.94	45.47x16.34x12.40
	Net/Gross weight	kg	8.4/10.9	8.0/10.2	8.5/10.9	11.1/14.4	13.6/17.3
	Net/Gross weight	lb	18.52/24.03	17.64/22.49	18.74/24.03	24.47/31.75	29.98/38.14
Outdoor fan motor	Model		ZKFN-34-10-1-3	ZKFN-34-10-1-3	ZKFN-34-10-1-3	ZKFN-34-10-1-3	ZKFN-80-8-3
	Speed	r/min	780/700/600	800/600	780/700/600	950/800/650/450	810/720
Outdoor air flow		m3/h	2100	2200	2100	2100	3000
Outdoor air flow		CFM	1235.29	1294.12	1235.29	1235.29	1764.71
Outdoor sound level		dB(A)	53.5	54.5	53.5	57	60
Expansion device		/	Capillary				Throttle valve
Outdoor unit	Dimension(W*D*H)	mm	765x303x555	765x303x555	765x303x555	805x330x554	890x342x673
	Dimension(W*D*H)	inch	30.12x11.93x21.85	30.12x11.93x21.85	30.12x11.93x21.85	31.69x12.99x21.81	35.04x13.46x26.50
	Packing (W*D*H)	mm	887x337x610	887x337x610	887x337x610	915x370x615	995x398x740
	Packing (W*D*H)	inch	34.92x13.27x24.02	34.92x13.27x24.02	34.92x13.27x24.02	36.02x14.57x24.21	39.17x15.67x29.13
	Net/Gross weight	kg	28.2/30.7	25.0/27.6	26.9/29.4	33.5/36.2	44.4/47.4
	Net/Gross weight	lb	62.17/67.68	55.11/60.85	59.30/64.82	73.85/79.81	97.88/104.50
Refrigerant	Type		R410A				
	Charge	kg / oz	0.81 kg / 29 oz.	0.72 kg / 25.4 oz.	0.81 kg / 29 oz.	1.35 kg / 48 oz.	1.78 kg / 63 oz.
	Additional charge	g/m	15				30
oz/ft		0.16				0.32	
Design pressure		PSIG	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)
	Max. refrigerant length	m / ft.	25 m / 82 ft.			30 m / 98 ft.	50 m / 164 ft.
	Max. Vertical separation	m / ft.	10 m / 32.8 ft.			20 m / 65.6 ft.	25 m / 82 ft.
Refrigerant Piping Kit		m	3m Piping kit included				
Connection wiring			16#x4//				
Control type			Wireless Remote Control				
Temperature Ranges	Indoor(cooling)	°C / F	16 ~ 32 C / 61 ~ 89 F				
	Indoor(heating)	°C / F	0 ~ 30 C / 32 ~ 86 F				
	Outdoor(cooling)	°C / F	-15 ~ 50 C / 5 ~ 122 F				
	Outdoor(heating)	°C / F	-15 ~ 24 C / 5 ~ 75 F				
Qty/per 20' /40' /40'HQ			98/208/250	111/228/260	98/208/250	86/174/204	64/134/156