

Hiwall *INVERTER* V Series



Auto restart function

12 levels indoor fan speeds

5 levels outdoor fan speeds

Turbo mode

2 way draining

*Self diagnostics and
auto protection*

Piping Kit

*Auto defrosting**

Emergency use function

Refrigeration leakage detect

Low ambient cooling

*Anti cold air function**

*Louver position memory
function*

Interconnecting cable

Manual switch button

Silent mode

Auto swing

Bi-directional airflow

Timer

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

**On 30 & 36 kbtuh heat pump models only*



R-410A
REFRIGERANT

Hiwall **INVERTER** V Series

INDOOR UNIT MODEL NUMBER			CH43VX012-H1N1C	CH43VX009-H3N1C	CH43VX012-H3N1C	CH43VX018-H3N1C	CH43VX024-H3N1C	CH43VX030-H3N1H	CH43VX036-H3N1H
OUTDOOR UNIT MODEL NUMBER			CG43VX012PH1N1C	CG43VX009PH3N1C	CG43VX012PH3N1C	CG43VX018PH3N1C	CG43VX024PH3N1C	CG43VX030PH3N1H	CG43VX036PH3N1H
Power supply			V-Ph-Hz	115V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz	208/230V, 1Ph, 60Hz
Cooling (Standard conditions)	Nominal Capacity (range)	Btu/h	11500 (7600~13200)	9000 (6300~10350)	11500 (7400~12700)	17500 (15500~19125)	21000 (19700~24150)	30000 (26700~32100)	36000 (29654~38220)
	Input	W	991	720	963	1545	2110	2855	4256
	Current	A	8.60	3.19	4.2	6.7	9.0	12.4	18.40
	SEER	Btu/hr	21.0	19.0	21.0	21.0	18.5	18.6	17.5
	EER	W/W	11.60	12.50	11.90	11.30	9.90	10.50	8.50
Heating (Standard conditions)	Capacity	Btu/h	/	/	/	/	/	30000	36000
	Input	W	/	/	/	/	/	3250	4270
	Current	A	/	/	/	/	/	14.2	18.9
	COP	W/W	/	/	/	/	/	2.71	2.47
Rated Power Input			W	1850	2100	2950	2850	4800	4800
Rated Current			A	16.5	9.5	9.5	13.5	21	21
Starting current			A	6	0	5	/	/	/
Compressor	Model		KSK103D33UEZ3	KSK103D33UEZ3	KSK103D33UEZ3	KSN140D58UFZ	KSN140D58UFZ	KTF250D22UMT	KTF250D22UMT
	Type		ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	GMCC	GMCC	GMCC	GMCC	GMCC
	Capacity	W	2035/3255	2035/3255	2035/3255	4315	4315	8095	8095
	Input	W	325/826	325/826	325/826	1090	1090	2200	2200
	Rated current(RLA)	A	2.40/5.65	2.40/5.65	2.40/5.65	7	7	10	10
	Refrigerant oil/oil charge	ml	ESTER OIL VG74 310	ESTER OIL VG74 310	ESTER OIL VG74 310	ESTER OIL VG74 440	ESTER OIL VG74 440	VG74/670	VG74/670
Indoor fan motor	Model		ZKFP-20-8-113	YKFG-20-4-10L	ZKFP-20-8-6-7	ZKFP-30-8-3	YKFG-45-4-13	ZKFP-58-8-1-5	ZKFP-58-8-1-5
	Input	W	35.0	47.4	50.0	36.0	89.0	58.0	58.0
	Capacitor	uF	/	1.5	/	/	3	/	/
	Speed(Hi/Mi/Lo)	r/min	1200/1000/750	1050/900/700	1200/1000/750	1100/800/700	1100/900/800	1200/1050/950	1200/950/750
Indoor coil	a.Number of rows		2	2	2	2.0	2.0	2.0	2
	b.Tube pitch(a)x row pitch(b)	mm	21x13.37	21x13.37	21x13.37	21x13.37	21x13.37	21x13.37	21x13.37
	c.Fin spacing	mm	1.3	1.3	1.3	1.2	1.3	1.2	1.2
	d.Fin type (code)		Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum	Hydrophilic aluminum
	e.Tube outside dia.and type	mm	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube
	f.Coil length x height x width	mm	605x210x26.74+605x84x26.74	525x84x13.37+525x105x26.74+525x105x26.74	605x210x26.74+605x84x26.74	750x210x26.74+750x126x26.74	820x210x26.74+820x126x26.74	965x189x26.74+965x84x26.74+945x147x26.74	965x189x26.74+965x84x26.74+945x147x26.74
	g.Number of circuits		2	2	2	4	4	5	5
Indoor air flow (Hi/Mi/Lo)			m3/h	595/496/378	410/350/250	550/430/300	900/750/600	988/776/562	1350/1050/800
Indoor noise level (Hi/Mi/Lo)			dB(A)	40.5/35/26	38.5/33.5/25.5	40/34/25	42/34.5/28	45.5/39/35	51.5/47.5/44
Indoor unit	Dimension(W*D*H)	mm	802x189x297	722x187x290	802x189x297	965x215x319	1080x226x335	1259x282x362	1259x282x362
	Packing (W*D*H)	mm	875x285x380	790x270x375	875x285x380	1045x305x410	1155x415x320	1340x450x385	1340x450x385
	Net/Gross weight	kg	8.6/11	7.4/9.8	8.8/11.3	11.4/14	14.3/17.9	17/22.9	18.3/23.9
	Model		ZKFN-34-8-1	ZKFN-34-10-1-3	ZKFN-34-8-1	ZKFN-34-10-1-3 310	ZKFN-34-10-1-3	ZKFN-120-8-2	ZKFN-120-8-2
Outdoor fan motor	Input	W	/	/	/	/	/	/	150
	Speed	r/min	850/500	850/500	850/500	900/450	950/700/600	900/750	1150/1050/900/850
	a.Number of rows		1	1	1	2.0	2.0	2.6	3
	b.Tube pitch(a)x row pitch(b)	mm	14.5x12.56	19.5x11.6	14.5x12.56	19.5x11.6	19.5x11.6	21x13.37	21x13.37
Outdoor coil	c.Fin spacing	mm	1.2	1.2	1.2	1.2	1.2	1.4	1.4
	d.Fin type (code)		Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium	Unhydrophilic aluminium	Hydrophilic aluminium	Hydrophilic aluminium
	e.Tube outside dia.and type	mm	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ5,Inner groove tube	Φ7,Inner groove tube	Φ7,Inner groove tube
	f.Coil length x height x width	mm	750x464x12.56	740x468x11.6	750x464x12.56	760x507x23.2	875x507x23.2	1010x756x26.74+598x756x13.37	1000x756x13.37+980x756x13.37+965x756x13.37
	g.Number of circuits		2	2	2	4	4	6	6
Outdoor air flow			m3/h	1800	1800	1800	2100	2300	3800
Outdoor noise level			dB(A)	52	54.0	53	57.0	56.0	63.5
Outdoor unit	Dimension(W*D*H)	mm	720x270x495	720x270x495	720x270x495	765x303x555	805x330x554	946x410x810	946x410x810
	Packing (W*D*H)	mm	835x300x540	835x300x540	835x300x540	887x337x610	915x370x615	1090x500x885	1090x500x885
	Net/Gross weight	kg	23.2/25	21.49/23.16	22.1/23.9	27.9/30.3	30.5/33.1	64.3/68.9	68.1/72.1
Refrigerant type			kg	R410A/0.65	R410A/0.57	R410A/0.65	R410A/0.9	R410A/2.75	R410A/3.4
Design pressure			MPa	///	///	///	///	///	///
Refrigerant piping	Liquid side/ Gas side	mm(inch)	6.35mm(1/4in)/12.7mm(1/2in)	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)
	Max. refrigerant pipe length	m	25	25	25	30	30	50	65
	Max. difference in level	m	10	10	10	20	20	25	30
Connection wiring				16#x4//	16x4	16x4	16x4	16x4	16x4
Plug type				//no-plug	no-plug	14x3/no-plug	no-plug	no-plug	no-plug
Thermostat type				Remote Control	Remote Control	Remote Control	Remote Control	Remote Control	Remote Control
Operation temperature			℃	17~30	17~30	17~30	17~30	17~30	17~30
Room temperature	Indoor(cooling/ heating)	℃	17~32//	17~32//	17~32//	17~32//	17~32//	17~32/0~30	17~32/0~30
	Outdoor(cooling/heating)	℃	-15~50//	-15~50//	-15~50//	0~50//	0~50//	-15~50/15~30	-30~50/30~30
Application area (Cooling Standard)			m²	15~22	12~18	15~22	23~33	28~41	48~70
Qty'per 20' /40' /40'HQ				130/276/302	138/282/312	130/276/302	87/170/203	78/168/194	36/76/88



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