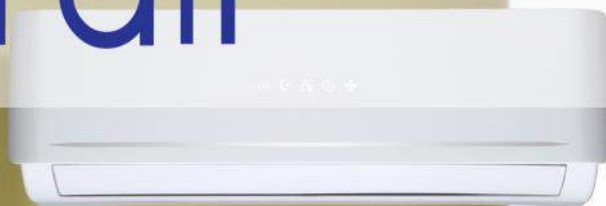


i cool air



“ Endless Comfort ”

2017 Product
Line up

Ductless Split Heat Pump
Single & Multi Zone

PTAC

Up to 22.5 SEER | 10.3 HSPF | 12.0 EER

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Split Model Line-up



Standard Features



Emergency Button



Intelligent Defrost



Anti-cold Wind



Auto-Restart



24H Timer



Low Temperature Cooling



Low Temperature Heating



Self-troubleshooting



Turbo Mode



Auto Mode

Single Zone Inverter 15 SEER / R410A



Indoor			IWSHN12A	IWSHN18B	IWSHN24B	IWSHN36B
Outdoor			IWSHO12A	IWSHO18B	IWSHO24B	IWSHO36B
Power Supply		V/Hz/Ph	115V/60Hz/1Ph	208~230V/60Hz/1Ph	208~230V/60Hz/1Ph	208~230V/60Hz/1Ph
Cooling	Capacity	BTU/h	12000	18000	22000	36000
	Input	W	1330	1880	2430	4235
	Rated Current	A	12	8.4	10.6	18.5
	EER	BTU/w	8.5	9.0	8.8	8.5
	SEER	BTU/w	15.5	15	15	18
Heating	Capacity	BTU/h	12000	18000	22000	36000
	Input	W	1200	1740	2120	3835
	Rated Current	A	11.2	9.2	11.1	16.7
	COP	w/w	2.9	2.9	3	2.75
	HSPF4	BTU/h	8.5	8.2	8.2	10
	HSPF5	BTU/h	7.5	7	6.5	8.0
Minimum Circuit Ampacity		A	15	12	15	28
MAX FUSE		A	20	20	20	35
Moisture Removal		L/h	1.6	2.5	2.8	4.0
Compressor	Model	L/h	ASN98D32UEZ	DA130MIC-31FZ	ATL165UDJPC8MU	ATF250D22UMT
	Type		ROTARY	ROTARY	ROTARY	ROTARY
	Brand		GMCC	GMCC	HITACHI	GMCC
	Capacity	BTU/h	9894	13443	15490	25760
	Input	W	735	1005	1445	2070
	Rated Current (RLA)	A	5.25	3.95	6.2	17
	Refrigeration Oil/Oil Charge	Oz	12.5	16.2	29.8	22.7
Indoor Fan Motor	Model		RPG15E	ZWK465A00220	RPG50E	ZKFP-56-6-1
	Brand		WELLNG	BROAD-OCEAN	WELLNG	WELLNG
	Speed(Hi/Mi/Lo)	r/min	1200/1100/950	1050/950/900	1150/1050/950	1200/1050/750
Indoor Air Flow(Hi)		CFM	323	441	617	853
Indoor Noise Level(Hi/Mi/Lo)		dB(A)	40/37/34	44/39/34	50/46/42	52/44/36
Indoor Unit	Dimension(W"D"H)	inch	30.31*9.45*7.09	35.43*10.71*7.64	40.67*12.32*7.95	49.57*11.10*14.25
	Packing(W"D"H)	inch	33.67*12.01*10.04	36.78*14.37*11.73	43.43*15.75*11.81	52.76*17.72*14.96
	Net/Gross Weight	lbs.	19.84/22.05	24.25/28.66	29.76/39.68	43.2/56.6
Outdoor Fan motor	Model		YDK30-6W	YDK45N-6N	YDK80-6U	ZKFN-120-8-2
	Brand		WELLNG	WELLNG	WELLNG	WELLNG
	Input	W	30	45	85	150
	RLA	A	0.68	0.48	0.9	0.6
	Speed(High)	r/min	870	830	890	810
Outdoor Noise Level		dB(A)	52	55	58	63
Outdoor Unit	Dimension(W"D"H)	inch	27.56*10.08*21.65	30.71*11.42*23.82	35.51*12.09*25.59	37.24*16.14*31.89
	Packing(W"D"H)	inch	31.61*14.21*23.62	34.76*16.22*25.74	39.96*16.73*28.35	42.91*19.69*34.45
	Net/Gross Weight	lbs	61.73/71.21	81.57/88.19	110.23/130.27	143.3/153.22
Refrigerant type / Refrigerant Charge		Oz	R410A/32.81	R410A/48.68	R410A/63.49	R410A/119.9
Refrigerant Precharge		Oz	25	25	25	25
Additional Charge for each ft		Oz	0.32	0.32	0.32	0.32
Design Pressure		PSIG	650	650	650	550
Refrigerant Piping	Liquid Side/ Gas Side	inch	1/4" / 3/8"	1/4" / 1/2"	3/8" / 5/8"	3/8" / 5/8"
	Max. Refrigerant pipe length	Ft	50	50	50	213
	Max. Difference in level	Ft	16.4	16.4	16.4	98
Connection wiring			16AWG*4 Standard	16AWG*4 Standard	16AWG*4 Standard	16AWG*4 Standard
Thermostat Type			Remote control	Remote control	Remote control	Remote control
Operation Temperature	Indoor (Cooling/Heating)	°F	62~86	62~86	62~86	62~90
	Outdoor (Cooling/Heatng)	°F	5~122	5~122	5~122	5~122
Application Area (Cooling /Standard)		sq.ft	183~269	258~430	323~517	517~757
Annual Energy Consumption(3mo,8Hr/Day, 750 Hours)		kWh	800	1220	1450	3176

Multi Zone Cassette Type Indoor Unit



Model			ICMHN09B	ICMHN12B	ICMHN18B	ICMHN24B
TYPE			CASSETTE	CASSETTE	CASSETTE	CASSETTE
Power Supply		V/Hz/Ph	208~230V/60Hz/1Ph	208~230/60Hz/1Ph	208~230/60Hz/1Ph	208~230/60Hz/1Ph
Cooling	Capacity	BTU/h	9000	12000	18000	24000
	EER	BTU/W	13	14	12.5	12.5
	SEER		20	21.5	20	20
Heating at 47F	Capacity	BTU/h	10000	12000	18000	24400
	COP	w/w	3.44	3.9	3.22	3.2
	HSPF4		10.5	10.5	10.3	10.5
	HSPF5		8.4	8.4	8.8	8.4
Heating at 17F	Rated Capacity	BTU/h	5800	7500	12000	15800
Minimum Circuit Ampacity		A	10	12	15	18
MAX FUSE		A	15	15	20	25
Indoor Fan Motor	Model		ZKFP-46-8-1	ZKFP-46-8-1	ZKFP-46-8-1	ZKFP-46-8-1
	Q'ty		1	1	1	1
	Input	W	45	45	45	58
	RLA	A	0.9	1	1.5	2
Indoor Air Flow(Hi/Mi/Lo)		CFM	374/301/257	379/309/261	560/483/415	700/636/573
Indoor Noise Level		dB(A)	41/37/33	43/39/36	44/39/36	51/47/43
Indoor Unit	Dimension(W"D"H) (Body)	inch	22.44*22.44*10.24	22.44*22.44*10.24	22.44*22.44*10.24	33.07*33.07*8.07
	Packing(W"D"H) (Body)	inch	25.79*25.79*11.42	25.79*25.79*11.42	25.79*25.79*11.42	35.43*35.43*8.54
	Dimension(W"D"H) (Panel)	inch	25.47*25.47*1.97	25.47*25.47*1.97	25.47*25.47*1.97	37.4*37.4*2.17
	Packing(W"D"H) (Panel)	inch	28.15*28.15*4.84	28.15*28.15*4.84	28.15*28.15*4.84	40.75*40.75*3.54
	Net/Gross (Body)	lbs	31.97/38.14	35.27/41	35.49/41.23	46.3/54.23
	Net/Gross (Panel)	lbs	5.51/9.92	5.51/9.92	5.51/9.92	11.02/17.64
Design Pressure		PSIG	540/330	540/300	550/340	550/340
Drainage Water Pipe (Diameter)		inch	1"	1"	1"	1"
Refrigerant Piping	Liquid Side/ Gas Side	inch	1/4" /3/8"	1/4" / 1/2"	1/4" / 1/2"	3/8" /5/8"
Controller			Remote Control	Remote Control	Remote Control	Remote Control
Room Temperature	Cooling	°F	62~90	62~90	62~90	62~90
	Heating	°F	32~86	32~86	32~86	32~86
Operation Temperature		°F	62~86	62~86	62~86	62~86
Moisture Removal		L/H	1	1.2	2	2.6

Multi Zone Wall Mount Indoor Unit



Model			IWMHN09B	IWMHN12B	IWMHN18B
TYPE			WALL MOUNT	WALL MOUNT	WALL MOUNT
Power Supply		V/Hz/Ph	208~230V/60Hz/1Ph	208~230V/60Hz/1Ph	208~230V/60Hz/1Ph
Indoor Fan Motor	Model		ZKFP-20-8-6	ZKFP-20-8-6	ZKFP-58-8-1
	Brand		WELLING	WELLING	WELLING
	Input	W	22	22	58(OUTPUT)
	RLA	A	0.25	0.25	0.4
Indoor Air Flow (Hi/Mi/Lo)		CFM	264/205/141	36/212/147	559/365/306
Indoor Noise Level (Hi/Mi/Lo)		dB(A)	39/-/24.6	39/-/25	45.5/-/34.5
Indoor Unit	Dimension (W*D*H)	Inch	31.57*7.44*11.69	31.57*7.44*11.69	42.52*8.90*13.19
	Packing (W*D*H)	Inch	34.45*11.22*14.76	34.45*11.22*14.76	45.47*16.34*12.4
	Net/Gross Weight	lbs	18.1/22.0	18.1/22.0	20.1/37.0
Thermostat			Remote Control	Remote Control	Remote Control
Operation Temperature	Indoor (Cooling/Heating)	°F	62~90/32~86	62~90/32~86	62~90/32~86
Application Area		sq.ft	129~189	172~252	251~368
Moisture Removal		L/H	0.9	1.2	2

Multi Zone Outdoor Unit / Up to 4 Zone / 22 SEER



Model			IWMHO27B	IWMHO36B
Power Supply		V/Hz/Ph	208~230V, 60Hz, 1 PH	208~230V, 60Hz, 1 PH
Cooling	Capacity	BTU/h	27000	36000
	EER	BTU	12	10.9
	SEER		22	22.5
Heating at 47°F	Capacity	BTU/h	28000	36000
	COP		3.7	3.1
	HSPF4		9.8	10.3
	HSPF5		8	9
Heating at 17°F	Rated Capacity	BTU/h	16800	25400
Heating at 5°F	Maximum Capacity		20900	28800
Minimum Circuit Ampacity		A	25.0	30.0
Max Fuse		A	35.0	45.0
Compressor	Model		ATF235D22UMT	ATF310D43UMT
	Type		ROTARY	ROTARY
	Brand		GMCC	GMCC
	Capacity	BTU/h	24345	32380
	Input	W	1970	2600
	Rated Current(RLA)	A	20.0	22.0
	Refrigerant Oil/Oil Charge	Oz	22.66	33.81
Outdoor Fan Motor	Model		ZKFN-120-8-2	ZFKN-120-8-2
	Brand		WELLING	WELLING
	Input	W	150	150
	RLA	A	0.9	1.3
	Speed	r/min	150/200/250/300/400/500/600/750/900/1000	150/200/250/300/400/500/600/750/900/1000
Outdoor Air Flow		CFM	2130	2130
Outdoor Noise Level		dB(A)	63.4	62.3
Outdoor Unit	Dimension(W*D*H)	inch	37.24*16.14*31.89	37.24*16.14*31.89
	Packing(W*D*H)	inch	42.91*19.69*34.45	42.91*19.69*34.45
	Net/Gross Weight	lbs	149.91/160.94	156.53/167.55
Refrigerant Type		Oz	R410A/98.8	R410A/105.8
Refrigerant Precharge (Total Pipe length)		ft	25	25
Additional Charge For each ft		Oz	0.161	0.161
Design Pressure		PSIG	550/340	550/340
Refrigerant Piping	Liquid Side/ Gas Side	inch	1/4" / (3/8")	4X 1/4" / (3 X 3/8" / 1 X 1/2")
	Max. length for all rooms	ft	148	197
	Max length for one indoor unit	ft	98	115
	Max Height in & out door	ft	49	49
	Max heights in & in	ft	33	33
Ambient Temperature	Cooling	°F	-13~122	-13~122
	Heating	°F	-13~86	13~86
Annual Energy Consumption(3 Mo/8 hr/day, 750 hours)		kWh	1688	2477

Indoor Unit Match Combination





Multi DC Outdoor Unit		Available Indoor Unit Capacity	Two Indoor Units	Three Indoor Units	Four Indoor Units
1 drive 2	IWMHO27B	Wall mounted : 9K/12K Cassette : 9K/12K	9+9		
			9+12		
			12+12		
1 drive 3	IWMHO27B	Wall mounted : 9K/12K/18K Cassette : 9K/12K/18K	9+9	9+9+9	
			9+12	9+9+12	
			9+18	9+9+18	
			12+12	9+12+12	
			12+18	12+12+12	
			18+18		
			18+18		
1 drive 4	IWMHO36B	Wall mounted : 9K/12K/18K Cassette : 9K/12K/18K/24K	9+9	9+9+9	9+9+9+9
			9+12	9+9+12	9+9+9+12
			9+18	9+9+18	9+9+9+18
			9+24	9+12+12	9+9+12+12
			12+12	9+12+18	9+9+12+18
			12+18	9+18+18	9+12+12+12
			12+24	12+12+12	12+12+12+12
			18+18	12+12+18	
				12+18+18	
				12+12+24	

Note: If total indoor units load exceeds nominal capacity of outdoor unit, the practical output capacity of every indoor unit will be correspondingly attenuated.
Outdoor unit Capacity*0.66<= Indoor unit total capacity <= Outdoor unit Capacity 1.33




Packaged Terminal A/C



Standard Features

-  - User friendly LED Digital Display Control
-  - Large Ventillation door allows more fresh air intake
-  - Auto restart after power failure
-  - 3 Fan Speed for optimal comfort level
-  - Automatic defrost

Optional Features

-  - Easy to use wireless remote control
-  - Wired wall mount control
-  - Wired Wall mount control w/ weekly schedule

Packaged Terminal A/C



Model		IPH12K20B	
Power Supply		V/Hz/Ph	208~230V/60Hz/1Ph
Cooling	Capacity	BTU/h	12000/11800
	Input	W	1142/1124
	Rated Current	A	4.97/5.4
	EER	BTU/h/W	10.5
Heating (Heat Pump)	Capacity	BTU/h	10800/10500
	Input	W	990/963
	Current	A	4.3/4.63
	COP	W/W	3.20
Heating (PTC)	Capacity	BTU/h	10900/8900
	Input	W	3519/2850
	Current	A	15.3/13.7
Starting Current		A	25.9
Compressor	Model	-	PA108M1C-3FZDU
	Type	-	ROTARY
	Brand	-	GMCC
	Capacity	BTU/h	10714/10850
	Input	W	1045/1050
	Rated Current(RLA)	A	5.0/4.55
	Locked Rotor Amp(LRA)	A	25.9
	Thermal Protector	A	B185-135-141C
	Thermal Protector Position	-	External
	Capacitor	uF	35
Refrigerant Oil / Oil Charge	Oz	11.83	
Indoor Side Fan Motor	Model	-	YDK20-6B5
	Brand	-	Welling
	Input	W	35.5
	Capacitor	uF	1.0
	Speed(Hi/Mi/Lo)	r/min	1110/1070/1040
Outdoor Side Fan Motor	Model	-	YDK40-4B
	Brand	-	Welling
	Input	W	87
	Capacitor	uF	3.0
	Speed(Hi)	r/min	1590
	a. Number of rows	-	3
	b. Tube pitch(a) x row pitch(b)	mm	21x13.37
	c. Fin Spacing	mm	1.2
	d. fin type (code)	-	Hydrophilic aluminum
	e. Tube outside dia. And type	mm	Φ7, innergroove tube
f. Coil length x Height x Width	mm	700 x 252 x 40.11	
g. Number of Circuits	-	3	
Indoor Side Air Flow (Hi/Mi/Lo)		m3/h	740/720/700
Indoor Side Noise Level (Hi/Mi/Lo)		dB(A)	53/50/45
Condenser	a. Number of rows	-	3
	b. Tube pitch(a) x row pitch(b)	mm	21 x 13.37
	c. Fin Spacing	mm	1.2
	d. fin type (code)	-	Hydrophilic aluminum
	e. Tube outside dia. And type	mm	Φ7, innergroove tube
	f. Coil length x Height x Width	mm	635 x 357 x 40.11
	g. Number of Circuits	-	3
Outdoor Side Noise Level(Hi)		dB(A)	66
Refrigerant Type		Oz	R410A/31.39 Oz
Design Pressure		PSIG	540/300
Connection Wiring		-	12AWGx3
Plug Type		-	LCDI6-20P
Control Type		-	Electronic Control
Operation Temp	Indoor (Cooling / Heating)	°F	62~90°F / 32~80°F
	Outdoor (Cooling/Heating)	°F	64~109°F / 23~76°F
Application Area (Cooling EPA)		sq.ft	450~500
Dimension (W x D x H)		Inch	42 x 21 x 16
Packing (W x D x H)		Inch	45 x 25.4 x 19.3
Net / Gross Weight		lbs.	117.9 / 143.3
Indoor Fan Motor	FLA / Output	A/Wat	0.155 / 21
Outdoor Fan Motor	FLA / Output	A/Wat	0.41 / 58
Min. Circuit Ampacity	MCA	A	20
Annual Energy Consumption		Kw.H	857
Moisture Removal		L/H	1.2



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