

2. Specifications

2.1 Unit Specifications

Model			GWH09KF-K3DNA5B	GWH12KF-K3DNA5B	
Product Code			CB14600300	CB14600310	
Power Supply	Rated Voltage	V~	220-240	220-240	
	Rated Frequency	Hz	50	50	
	Phases		1	1	
Power Supply Mode			Indoor	Indoor	
Cooling Capacity (Min~Max)		W	2650(450~3230)	3530(600~3960)	
Heating Capacity (Min~Max)		W	3520(450~4100)	4100(600~5130)	
Cooling Power Input (Min~Max)		W	800(200~1350)	1100(220~1450)	
Heating Power Input (Min~Max)		W	950(200~1450)	1135(220~1550)	
Cooling Power Current		A	3.55	4.88	
Heating Power Current		A	4.21	5.04	
Rated Input		W	1550	1650	
Rated Current		A	6.88	7.32	
Air Flow Volume(SH/H/M/L/SL)		m ³ /h	600/520/370/280/-	680/560/410/300/-	
Dehumidifying Volume		L/h	1	1.2	
EER		W/W	3.30	3.21	
COP		W/W	3.70	3.61	
SEER		W/W	/	/	
HSPF		W/W	/	/	
Application Area		m ²	12-18	16-24	
Indoor Unit	Model of indoor unit		GWH09KF-K3DNA5B/I	GWH12KF-K3DNA5B/I	
	Fan Type		Cross-flow	Cross-flow	
	Diameter Length(DXL)		mm	Φ92X594	Φ92X594
	Fan Motor Cooling Speed (SH/H/M/L/SL)		r/min	1300/1100/900/700/-	1350/1150/950/750/-
	Fan Motor Heating Speed (SH/H/M/L/SL)		r/min	1300/1140/980/820/-	1350/1190/1020/850/-
	Output of Fan Motor		W	10	10
	Fan Motor RLA		A	0.16	0.16
	Fan Motor Capacitor		μF	1.2	1.2
	Input of Heater		W	0	0
	Evaporator Form			Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter		mm	Φ7	Φ7
	Row-fin Gap		mm	2-1.4	2-1.4
	Coil Length (LXDXW)		mm	610X24X294	610X24X294
	Swing Motor Model			MP24BA	MP24BA
	Output of Swing Motor		W	1.5	1.5
	Fuse		A	PCB 3.15A	PCB 3.15A
	Sound Pressure Level (SH/H/M/L/SL)		dB (A)	41/38/30/24/-	42/39/31/25/-
	Sound Power Level (SH/H/M/L/SL)		dB (A)	51/48/40/34/-	52/49/41/35/-
	Dimension (WXHXD)		mm	770X283X201	770X283X201
	Dimension of Carton Box (L/W/H)		mm	844X342X261	844X342X261
	Dimension of Package (L/W/H)		mm	847X345X276	847X345X276
	Net Weight		kg	8	9
	Gross Weight		kg	11	12

Outdoor Unit	Model of Outdoor Unit		GWH09KF-K3DNA5B/O	GWH12KF-K3DNA5B/O
	Compressor Manufacturer/Trademark		Daikin Compressor Industries /daikin	Daikin Compressor Industries/daikin
	Compressor Model		1YC23AEXD	1YC23AEXD
	Compressor Oil		DAPHEN FVC50K	DAPHEN FVC50K
	Compressor Type		Rotary	Rotary
	L.R.A.	A	4	4
	Compressor RLA	A	4	4
	Compressor Power Input	W	600W	600W
	Overload Protector		CS-7SA	CS-7SA
	Throttling Method		Capillary	Capillary
	Operation temp	℃	16~30	16~30
	Ambient temp (cooling)	℃	-15-46	-15-46
	Ambient temp (heating)	℃	-15-24	-15-24
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Rows-fin Gap	mm	1-1.4	2-1.4
	Coil Length (LXD _X W)	mm	647X19.05X528	647X38.1X528
	Fan Motor Speed	rpm	930	930
	Output of Fan Motor	W	30	30
	Fan Motor RLA	A	0.236	0.236
	Fan Motor Capacitor	μF	2	2
	Air Flow Volume of Outdoor Unit	m ³ /h	1600	1600
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	370	370
	Defrosting Method		Automatic Defrosting	Automatic Defrosting
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	3.8	3.8
	Permissible Excessive Operating Pressure for the Suction Side	MPa	1.2	1.2
	Sound Pressure Level (H/M/L)	dB (A)	51/-/-	53/-/-
	Sound Power Level (H/M/L)	dB (A)	61/-/-	63/-/-
	Dimension (WXHXD)	mm	710X318X550	710X318X550
Dimension of Carton Box (L/W/H)	mm	771X348X592	771X348X592	
Dimension of Package (L/W/H)	mm	774X351X607	774X351X607	
Net Weight	kg	28	30	
Gross Weight	kg	32	34	
Refrigerant		R410A	R410A	
Refrigerant Charge	kg	0.74	1	
Connection Pipe	Length	m	5	5
	Gas Additional Charge	g/m	30	20
	Outer Diameter Liquid Pipe	mm	Φ6	Φ6
	Outer Diameter Gas Pipe	mm	Φ9.52	Φ9.52
	Max Distance Height	m	10	10
	Max Distance Length	m	15	20

The above data is subject to change without notice. Please refer to the nameplate of the unit.

Specifications

Model			GWH12KF-K3DNA6B	
Product Code			CB146008000	
Power Supply	Rated Voltage	V~	220-240	
	Rated Frequency	Hz	50	
	Phases		1	
Power Supply Mode			Indoor	
Cooling Capacity (Min~Max)		W	3530(600~3960)	
Heating Capacity (Min~Max)		W	4100(600~5130)	
Cooling Power Input (Min~Max)		W	1100(220~1450)	
Heating Power Input (Min~Max)		W	1135(220~1550)	
Cooling Power Current		A	4.88	
Heating Power Current		A	5.04	
Rated Input		W	1650	
Rated Current		A	7.32	
Air Flow Volume(SH/H/M/L/SL)		m ³ /h	680/560/410/300/-	
Dehumidifying Volume		L/h	1.2	
EER		W/W	3.21	
COP		W/W	3.61	
SEER		W/W	/	
HSPF		W/W	/	
Application Area		m ²	16-24	
Indoor Unit	Model of indoor unit		GWH12KF-K3DNA6B/I	
	Fan Type		Cross-flow	
	Diameter Length(DXL)		mm	Φ92X594
	Fan Motor Cooling Speed (SH/H/M/L/SL)		r/min	1350/1150/950/750/-
	Fan Motor Heating Speed (SH/H/M/L/SL)		r/min	1350/1190/1020/850/-
	Output of Fan Motor		W	10
	Fan Motor RLA		A	0.16
	Fan Motor Capacitor		μF	1.2
	Input of Heater		W	0
	Evaporator Form			Aluminum Fin-copper Tube
	Pipe Diameter		mm	Φ7
	Row-fin Gap		mm	2-1.4
	Coil Length (LXDXW)		mm	610X24X294
	Swing Motor Model			MP24BA
	Output of Swing Motor		W	1.5
	Fuse		A	PCB 3.15A
	Sound Pressure Level (SH/H/M/L/SL)		dB (A)	42/39/31/25/-
	Sound Power Level (SH/H/M/L/SL)		dB (A)	52/49/41/35/-
	Dimension (WXHXD)		mm	770X283X201
	Dimension of Carton Box (L/W/H)		mm	841X339X246
	Dimension of Package (L/W/H)		mm	844X342X261
	Net Weight		kg	9
	Gross Weight		kg	12

Outdoor Unit	Model of Outdoor Unit		GWH12KF-K3DNA5B/O
	Compressor Manufacturer/Trademark		Daikin Compressor Industries/daikin
	Compressor Model		1YC23AEXD
	Compressor Oil		DAPHEN FVC50K
	Compressor Type		Rotary
	L.R.A.	A	4
	Compressor RLA	A	4
	Compressor Power Input	W	600W
	Overload Protector		CS-7SA
	Throttling Method		Capillary
	Operation temp	°C	16~30
	Ambient temp (cooling)	°C	-15-46
	Ambient temp (heating)	°C	-15-24
	Condenser Form		Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7
	Rows-fin Gap	mm	2-1.4
	Coil Length (LXDXW)	mm	647X38.1X528
	Fan Motor Speed	rpm	930
	Output of Fan Motor	W	30
	Fan Motor RLA	A	0.236
	Fan Motor Capacitor	μF	2
	Air Flow Volume of Outdoor Unit	m ³ /h	1600
	Fan Type		Axial-flow
	Fan Diameter	mm	370
	Defrosting Method		Automatic Defrosting
	Climate Type		T1
	Isolation		I
	Moisture Protection		IP24
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	3.8
	Permissible Excessive Operating Pressure for the Suction Side	MPa	1.2
	Sound Pressure Level (H/M/L)	dB (A)	53/-/-
	Sound Power Level (H/M/L)	dB (A)	63/-/-
	Dimension (WXHXD)	mm	658X550X275
Dimension of Carton Box (L/W/H)	mm	768X345X577	
Dimension of Package (L/W/H)	mm	771X348X592	
Net Weight	kg	30	
Gross Weight	kg	34	
Refrigerant		R410A	
Refrigerant Charge	kg	1	
Connection Pipe	Length	m	5
	Gas Additional Charge	g/m	20
	Outer Diameter Liquid Pipe	mm	Φ6
	Outer Diameter Gas Pipe	mm	Φ9.52
	Max Distance Height	m	10
	Max Distance Length	m	20

The above data is subject to change without notice. Please refer to the nameplate of the unit.

1. Safety Precautions

Installing, starting up, and servicing air conditioner can be hazardous due to system pressure, electrical components, and equipment location, etc.


Only trained, qualified installers and service personnel are allowed to install, start-up, and service this equipment.


Untrained personnel can perform basic maintenance functions such as cleaning coils. All other operations should be performed by trained service personnel.

When handling the equipment, observe precautions in the manual and on tags, stickers, and labels attached to the equipment. Follow all safety codes. Wear safety glasses and work gloves. Keep quenching cloth and fire extinguisher nearby when brazing.

Read the instructions thoroughly and follow all warnings or cautions in literature and attached to the unit. Consult local building codes and current editions of national as well as local electrical codes.

Recognize the following safety information:

 **Warning** Incorrect handling could result in personal injury or death.

 **Caution** Incorrect handling may result in minor injury, or damage to product or property.

- Make sure the outdoor unit is installed on a stable, level surface with no accumulation of snow, leaves, or trash beside.
- Make sure the ceiling/wall is strong enough to bear the weight of the unit.
- Make sure the noise of the outdoor unit does not disturb neighbors.
- Follow all the installation instructions to minimize the risk of damage from earthquakes, typhoons or strong winds.
- Avoid contact between refrigerant and fire as it generates poisonous gas.
- Apply specified refrigerant only. Never have it mixed with any other refrigerant. Never have air remain in the refrigerant line as it may lead to rupture and other hazards.
- Make sure no refrigerant gas is leaking out when installation is completed.
- Should there be refrigerant leakage, the density of refrigerant in the air shall in no way exceed its limited value, or it may lead to explosion.
- Keep your fingers and clothing away from any moving parts.
- Clear the site after installation. Make sure no foreign objects are left in the unit.
- Always ensure effective grounding for the unit.

Warning

All electric work must be performed by a licensed technician according to local regulations and the instructions given in this manual.

- Before installing, modifying, or servicing system, main electrical disconnect switch must be in the OFF position. There may be more than 1 disconnect switch. Lock out and tag switch with a suitable warning label.
- Never supply power to the unit unless all wiring and tubing are completed, reconnected and checked.
- This system adopts highly dangerous electrical voltage. Incorrect connection or inadequate grounding can cause personal injury or death. Stick to the wiring diagram and all the instructions when wiring.
- Have the unit adequately grounded in accordance with local electrical codes.
- Have all wiring connected tightly. Loose connection may lead to overheating and a possible fire hazard.

All installation or repair work shall be performed by your dealer or a specialized subcontractor as there is the risk of fire, electric shock, explosion or injury.

Caution

- Never install the unit in a place where a combustible gas might leak, or it may lead to fire or explosion.
- Make a proper provision against noise when the unit is installed at a telecommunication center or hospital.
- Provide an electric leak breaker when it is installed in a watery place.
- Never wash the unit with water.
- Handle unit transportation with care. The unit should not be carried by only one person if it is more than 20kg.
- Never touch the heat exchanger fins with bare hands.
- Never touch the compressor or refrigerant piping without wearing glove.
- Do not have the unit operate without air filter.
- Should any emergency occur, stop the unit and disconnect the power immediately.
- Properly insulate any tubing running inside the room to prevent the water from damaging the wall.

2. Specifications

2.1 Unit Specifications

Model			GWH18KG-K3DNA5C	GWH24KG-K3DNA5C	
Product Code			CB14600720	CB14600610	
Power Supply	Rated Voltage	V~	220-240	220-240	
	Rated Frequency	Hz	50	50	
	Phases		1	1	
Power Supply Mode			Outdoor	Outdoor	
Cooling Capacity (Min~Max)		W	5300(1050~6500)	6450(1500~7000)	
Heating Capacity (Min~Max)		W	5700(1000~7000)	7000(1200~7800)	
Cooling Power Input (Min~Max)		W	1600(360~2500)	1985(350~2500)	
Heating Power Input (Min~Max)		W	1578(350~2600)	1930(350~2700)	
Cooling Power Current		A	7.10	8.80	
Heating Power Current		A	7.00	8.56	
Rated Input		W	2600	2700	
Rated Current		A	12.06	11.98	
Air Flow Volume(SH/H/M/L/SL)		m ³ /h	800/680/560/460/-	950/800/650/550/-	
Dehumidifying Volume		L/h	1.8	2.0	
EER		W/W	3.31	3.25	
COP		W/W	3.61	3.62	
SEER		W/W	-	-	
HSPF		W/W	-	-	
Application Area		m ²	23-34	27-42	
Indoor Unit	Model of indoor unit		GWH18KG-K3DNA5C/I	GWH24KG-K3DNA5C/I	
	Fan Type		Cross-flow	Cross-flow	
	Diameter Length(DXL)		mm	Φ98X650	Φ98X765
	Fan Motor Cooling Speed (SH/H/M/L/SL)		r/min	1300/1100/950/800/-	1250/1100/950/800/-
	Fan Motor Heating Speed (SH/H/M/L/SL)		r/min	1400/1200/1050/900/-	1300/1100/1000/850/-
	Output of Fan Motor		W	20	35
	Fan Motor RLA		A	0.31	0.31
	Fan Motor Capacitor		μF	1.5	2.5
	Input of Heater		W	-	-
	Evaporator Form			Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter		mm	Φ7	Φ7
	Row-fin Gap		mm	2-1.4	2-1.5
	Coil Length (LXDXW)		mm	657X25.4X304.8	765X25.4X342.9
	Swing Motor Model			MP28VB	MP35XX
	Output of Swing Motor		W	2.0	2.50
	Fuse		A	PCB 3.15A	PCB 3.15A
	Sound Pressure Level (SH/H/M/L/SL)		dB (A)	45/40/37/32/-	46/42/37/32/-
	Sound Power Level (SH/H/M/L/SL)		dB (A)	55/50/47/42/-	56/52/47/42/-
	Dimension (WXHXD)		mm	865X305X215	1008X319X221
	Dimension of Carton Box (L/W/H)		mm	945X380X295	1073X395X313
	Dimension of Package (L/W/H)		mm	948X383X310	1076X398X328
Net Weight		kg	12	15	
Gross Weight		kg	16	20	

2. Specifications

2.1 Unit Specifications

Model			GWH18KG-K3DNA5C	GWH24KG-K3DNA5C	
Product Code			CB14600720	CB14600610	
Power Supply	Rated Voltage	V~	220-240	220-240	
	Rated Frequency	Hz	50	50	
	Phases		1	1	
Power Supply Mode			Outdoor	Outdoor	
Cooling Capacity (Min~Max)		W	5300(1050~6500)	6450(1500~7000)	
Heating Capacity (Min~Max)		W	5700(1000~7000)	7000(1200~7800)	
Cooling Power Input (Min~Max)		W	1600(360~2500)	1985(350~2500)	
Heating Power Input (Min~Max)		W	1578(350~2600)	1930(350~2700)	
Cooling Power Current		A	7.10	8.80	
Heating Power Current		A	7.00	8.56	
Rated Input		W	2600	2700	
Rated Current		A	12.06	11.98	
Air Flow Volume(SH/H/M/L/SL)		m ³ /h	800/680/560/460/-	950/800/650/550/-	
Dehumidifying Volume		L/h	1.8	2.0	
EER		W/W	3.31	3.25	
COP		W/W	3.61	3.62	
SEER		W/W	-	-	
HSPF		W/W	-	-	
Application Area		m ²	23-34	27-42	
Indoor Unit	Model of indoor unit		GWH18KG-K3DNA5C/I	GWH24KG-K3DNA5C/I	
	Fan Type		Cross-flow	Cross-flow	
	Diameter Length(DXL)		mm	Φ98X650	Φ98X765
	Fan Motor Cooling Speed (SH/H/M/L/SL)		r/min	1300/1100/950/800/-	1250/1100/950/800/-
	Fan Motor Heating Speed (SH/H/M/L/SL)		r/min	1400/1200/1050/900/-	1300/1100/1000/850/-
	Output of Fan Motor		W	20	35
	Fan Motor RLA		A	0.31	0.31
	Fan Motor Capacitor		μF	1.5	2.5
	Input of Heater		W	-	-
	Evaporator Form			Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter		mm	Φ7	Φ7
	Row-fin Gap		mm	2-1.4	2-1.5
	Coil Length (LXDXW)		mm	657X25.4X304.8	765X25.4X342.9
	Swing Motor Model			MP28VB	MP35XX
	Output of Swing Motor		W	2.0	2.50
	Fuse		A	PCB 3.15A	PCB 3.15A
	Sound Pressure Level (SH/H/M/L/SL)		dB (A)	45/40/37/32/-	46/42/37/32/-
	Sound Power Level (SH/H/M/L/SL)		dB (A)	55/50/47/42/-	56/52/47/42/-
	Dimension (WXHXD)		mm	865X305X215	1008X319X221
	Dimension of Carton Box (L/W/H)		mm	945X380X295	1073X395X313
	Dimension of Package (L/W/H)		mm	948X383X310	1076X398X328
Net Weight		kg	12	15	
Gross Weight		kg	16	20	

Outdoor Unit	Model of Outdoor Unit		GWH18KG-K3DNA5C/O	GWH24KG-K3DNA5C/O
	Compressor Manufacturer/Trademark		China Resources (Shenyang) Sanyo CO.,LTD/Sanyo	China Resources (Shenyang) Sanyo CO.,LTD/Sanyo
	Compressor Model		C-6RZ146H1A	C-6RZ146H1A
	Compressor Oil		FV50S	FV50S
	Compressor Type		Rotary	Rotary
	L.R.A.	A	41	41
	Compressor RLA	A	8.40	8.40
	Compressor Power Input	W	1640	1640
	Overload Protector		1NT11L-3979	1NT11L-3979
	Throttling Method		Capillary	Electron expansion valve
	Operation temp	°C	16~30	16~30
	Ambient temp (cooling)	°C	-15~48	-15~48
	Ambient temp (heating)	°C	-15~24	-15~24
	Condenser Form		Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
	Pipe Diameter	mm	Φ7	Φ7
	Rows-fin Gap	mm	2-1.4	2-1.4
	Coil Length (LXDXW)	mm	853X38.1X660	853X38.1X660
	Fan Motor Speed	rpm	690	690
	Output of Fan Motor	W	60	60
	Fan Motor RLA	A	0.58	0.58
	Fan Motor Capacitor	μF	3.5	3.5
	Air Flow Volume of Outdoor Unit	m ³ /h	3200	3200
	Fan Type		Axial-flow	Axial-flow
	Fan Diameter	mm	Φ520	Φ520
	Defrosting Method		Automatic Defrosting	Automatic Defrosting
	Climate Type		T1	T1
	Isolation		I	I
	Moisture Protection		IP24	IP24
	Permissible Excessive Operating Pressure for the Discharge Side	MPa	3.0	3.8
	Permissible Excessive Operating Pressure for the Suction Side	MPa	0.9	1.2
	Sound Pressure Level (H/M/L)	dB (A)	54/-/-	54/-/-
	Sound Power Level (H/M/L)	dB (A)	64/-/-	64/-/-
	Dimension (WXHXD)	mm	955X700X396	955X700X396
Dimension of Carton Box (L/W/H)	mm	1026X455X735	1026X455X735	
Dimension of Package (L/W/H)	mm	1029X458X750	1029X458X750	
Net Weight	kg	52	52	
Gross Weight	kg	57	57	
Refrigerant		R410A	R410A	
Refrigerant Charge	kg	1.25	1.40	
Connection Pipe	Length	m	5	5
	Gas Additional Charge	g/m	20	20
	Outer Diameter Liquid Pipe	mm	Φ6	Φ6
	Outer Diameter Gas Pipe	mm	Φ12	Φ12
	Max Distance Height	m	10	10
	Max Distance Length	m	25	25

The above data is subject to change without notice. Please refer to the nameplate of the unit.