



Mini-Split and Multi-Zone Air Conditioners and Heat Pumps

Residential/Light Commercial Catalog 2016



Gibson
Heating and Cooling Products

Gibson

Heating and Cooling Products

Complete comfort at your fingertips



Why choose Gibson?



Gibson has been a trusted brand in home appliances since their start manufacturing ice boxes in 1877. Today, the Gibson brand covers a diverse range of home heating and cooling solutions. These new ductless mini-split air conditioning systems offer the latest, most-advanced inverter technology to maximize efficiency and energy savings as well as provide superior, quiet comfort.

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Advantages of ductless mini-splits for whole home heating and cooling year round.

Spot cooling for room additions, hot/cold spots, server rooms.

The United States Department of Energy states that nearly 50% of utility bills go towards heating and cooling the home. Mini-splits offer faster payback than other traditional heating cooling systems. The high-efficiency of mini-splits along with their true zoning capability have proven to reduce heating and cooling bills by as much as 50%. This represents a 25% reduction in total utility costs.

Mini-split systems offer year-round heating and cooling comfort, even in cold climates. Soft start up and whisper quiet operation.

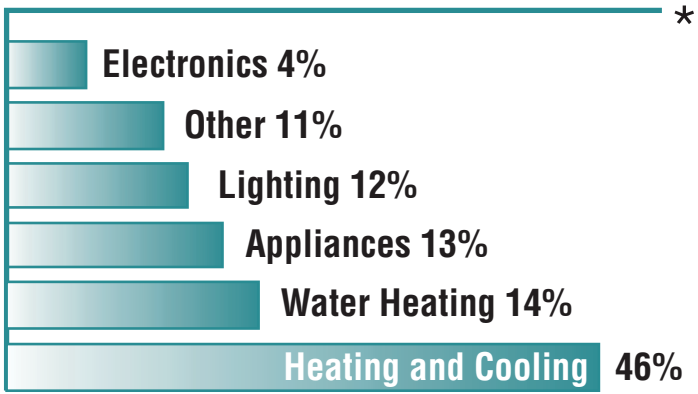
Inverter technology - Our mini-splits are so efficient and quiet because of inverter technology. The inverter converts AC voltage to DC voltage through a diode bridge (bridge rectifier) allowing power consumption to be modulated to nearly zero levels.

Single-zone mini-splits allow easy addition of heating and cooling to specific areas in the home. Room additions, hot and cold spots, and remodeling can present challenges in terms of adequately heating and cooling these spaces. Ductless mini-split systems are the perfect solution to provide year-round comfort.

These high-efficiency heat pump systems also provide tremendous energy savings.

Available in Cooling-Only models for warm climates, computer server rooms, garages, sun rooms, or anywhere additional cooling is desired.

Home Utility Costs



* Source: energystar.gov

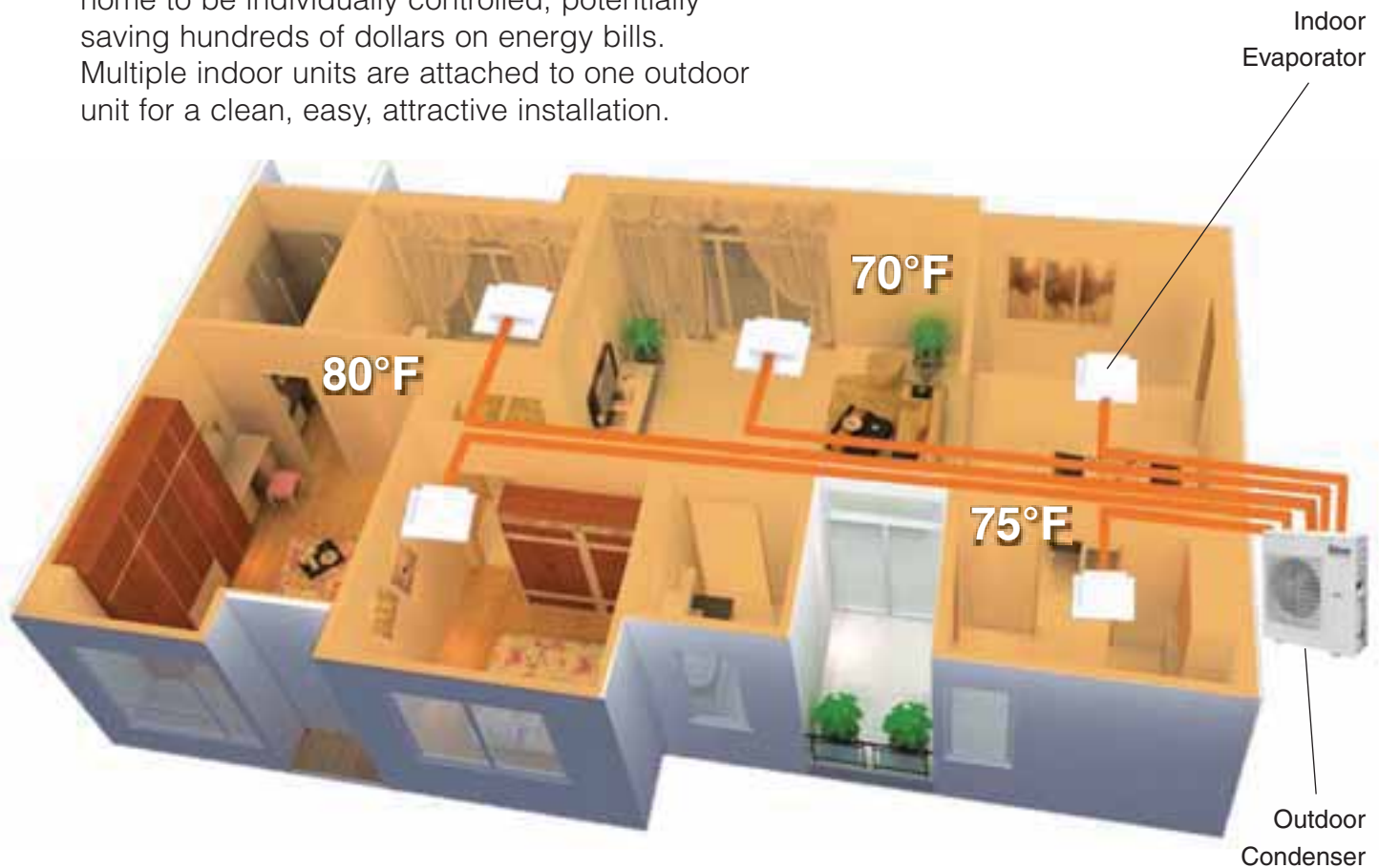
DSIRE
Database of State Incentives for Renewables & Efficiency

Check for local rebates on website at www.dsireusa.org



True Zoning Throughout Your Home

Multi-zone mini-splits allow each space in the home to be individually controlled, potentially saving hundreds of dollars on energy bills. Multiple indoor units are attached to one outdoor unit for a clean, easy, attractive installation.



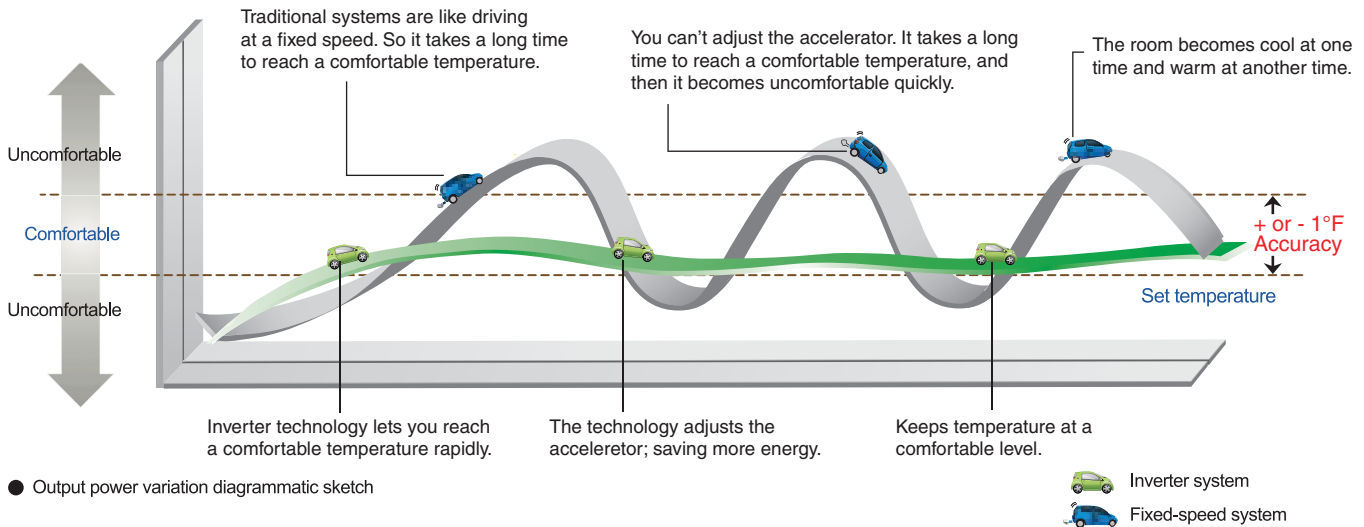
With multiple systems throughout your home, airflow can be selectively channeled where it's needed depending on changing climate conditions or activities during the course of a day. For example, you may choose to keep a bedroom cooler than the family room at night. By only conditioning selected areas according to need, you can lower your overall utility costs.

Aside from lowering utility costs, multiple systems can also help with other problematic scenarios. Vaulted ceilings, great rooms with connected kitchen and dining spaces, expanses of glass windows exposed to the sun from the south and/or winds from the north, and sprawling ranches with hard-to-reach rooms can all benefit from separate cooling systems in each area.



Mini-Split Technology

How Inverter Technology Saves Energy



Refrigeration System



High-efficiency and stable running compressor



High-efficiency and larger heat exchanger with optimized piping system



High-efficiency electronic expansion valve (EEV) controls refrigerant flow precisely



Optimized cross fan design with larger air volume and enhanced heat exchange efficiency



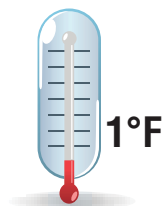
Optimized axial fan design with larger diameter to increase air volume and enhanced heat exchange efficiency

Eco-Friendly Refrigerant

R410-A



Faster Cooling



Precise Temperature Control



Energy Saving

Gold or Blue Fin Option

These optional coatings can improve the heating efficiency by accelerating the defrosting process and add significant resistance to salty air, rain and other corrosive elements.



Two-Stage Compressor

A two-stage compressor provides increased energy savings compared to a traditional compressor. Improved COP and EER up to 25%.



Two-Stage Compressor



Traditional Compressor

Easy to Handle

The outdoor unit is equipped with a handle for easier transportation and protection of wiring terminal and valves.



Improved Base Pan Design

Condensate water will flow easily and not freeze on the base pan. It also improves heating efficiency during low temperature operation.



Mini-Split Technology

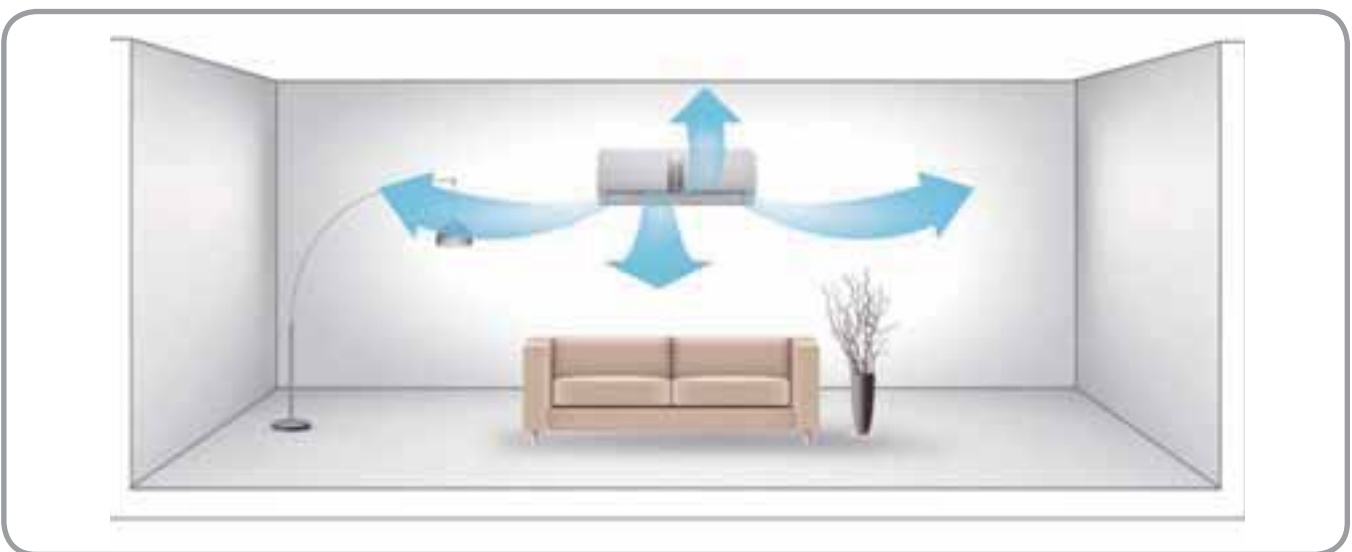
Turbo Cooling

Press the “Turbo” button on the remote control to enjoy increased airflow, which enables the indoor temperature to reach the set temperature in a shorter time.



4-Way Air Outlet

The louver can be vertically or horizontally adjusted so as to maximize airflow and comfort in the room.



Mini-Split Technology

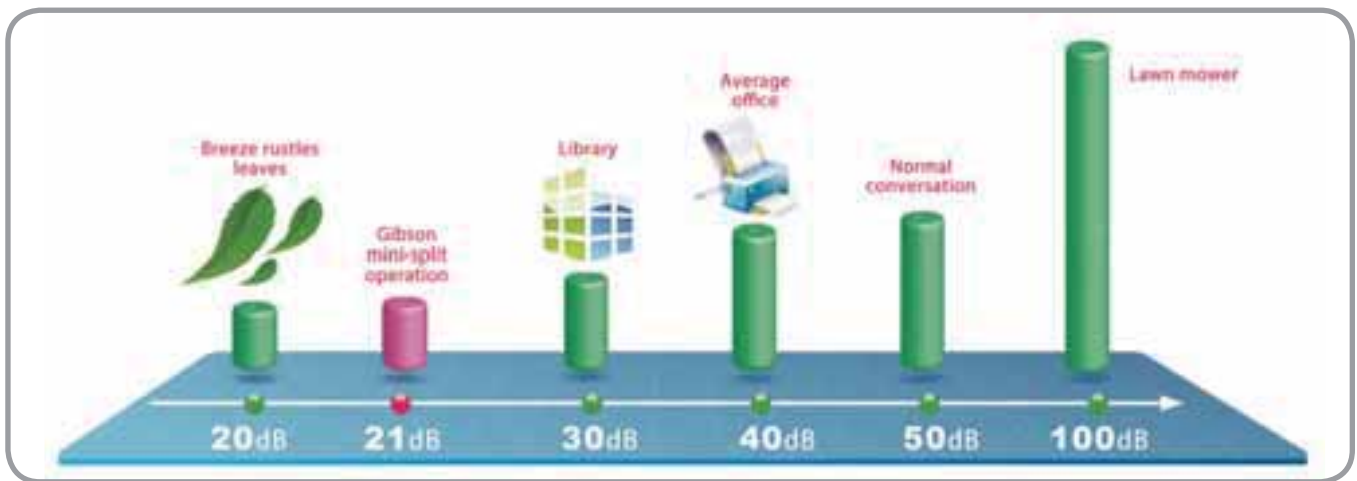
7 Fan Speeds

From super low to turbo, you can choose the desired airflow.



Low Noise

Operates as quietly as 21dB.

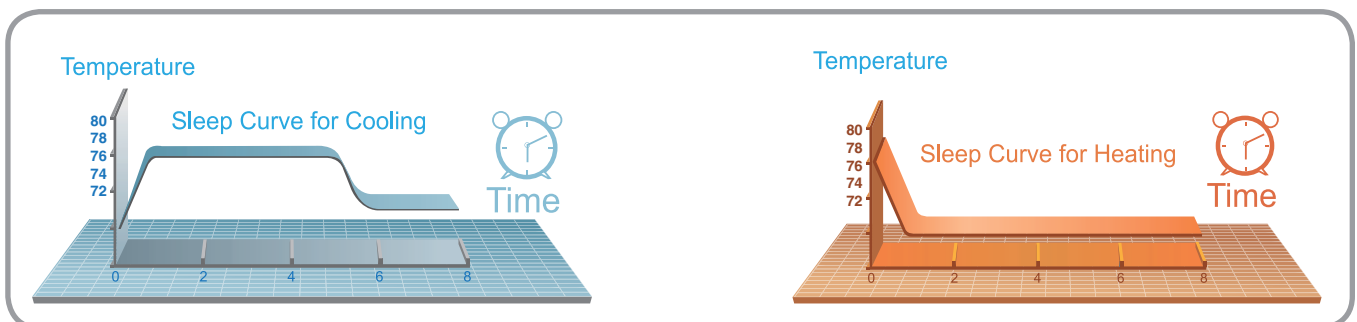


3 Sleep Set-Back Curves

Mode 1: Allows indoor temperature to automatically rise (when cooling) or drop (when heating).















Mode 2: Features unique refresh function, where the temperature is automatically ramped toward set the point before you wake up.


Mode 3: Programmable set-back function allows user to design personal settings in DIY mode.



Mini-Split Remote Control

The Perfect Temperature is Right at Your Fingertips

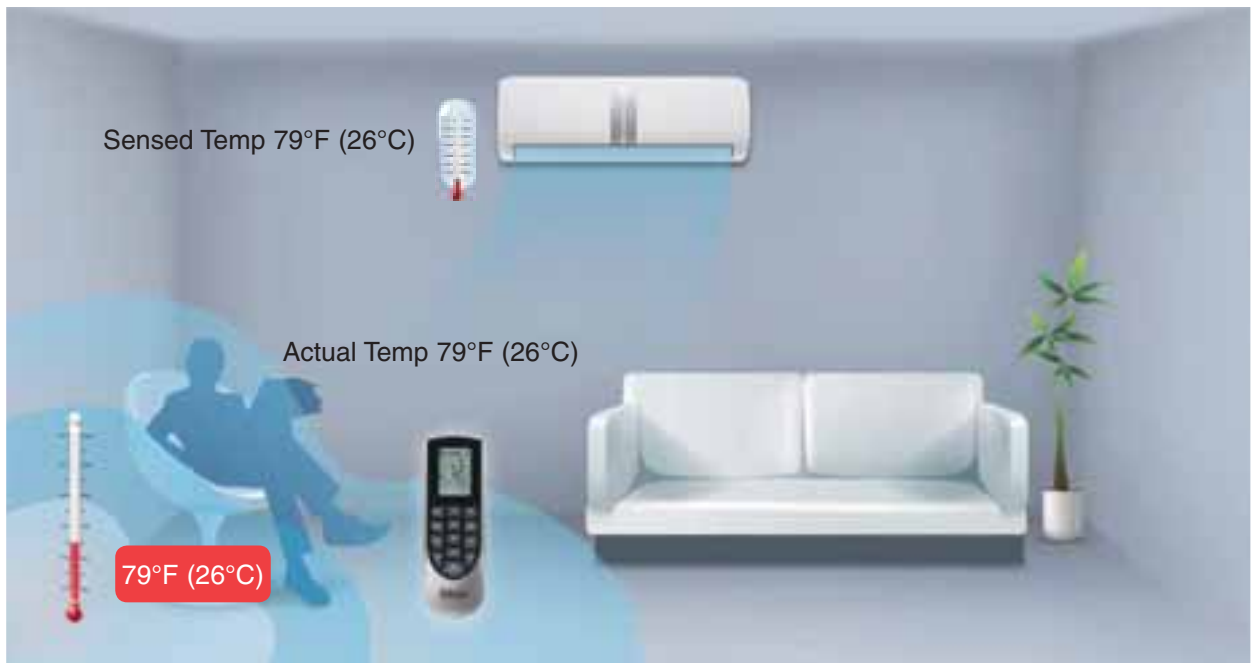
	Power
	Choose fan speeds and settings
	Change operation mode: Auto, Cool, Dry, Fan and Heat
	Raise set temperature; hold the button for 2 seconds to raise set temperature rapidly
	Decrease set temperature; hold the button for 2 seconds to decrease set temperature rapidly
	For rapid cooling or heating
	Press this button to set swing angle
	Set present time or display timer
	For turning off timer
	Operation of the unit will be adjusted according to temperature sensed by remote control to maximize your comfort
	Air conditioner will run according to the preset sleep temperature curve
	Turn on/off the light on the unit
	Start/stop indoor fan which is used for drying the component
	Change between inside and outside temperature



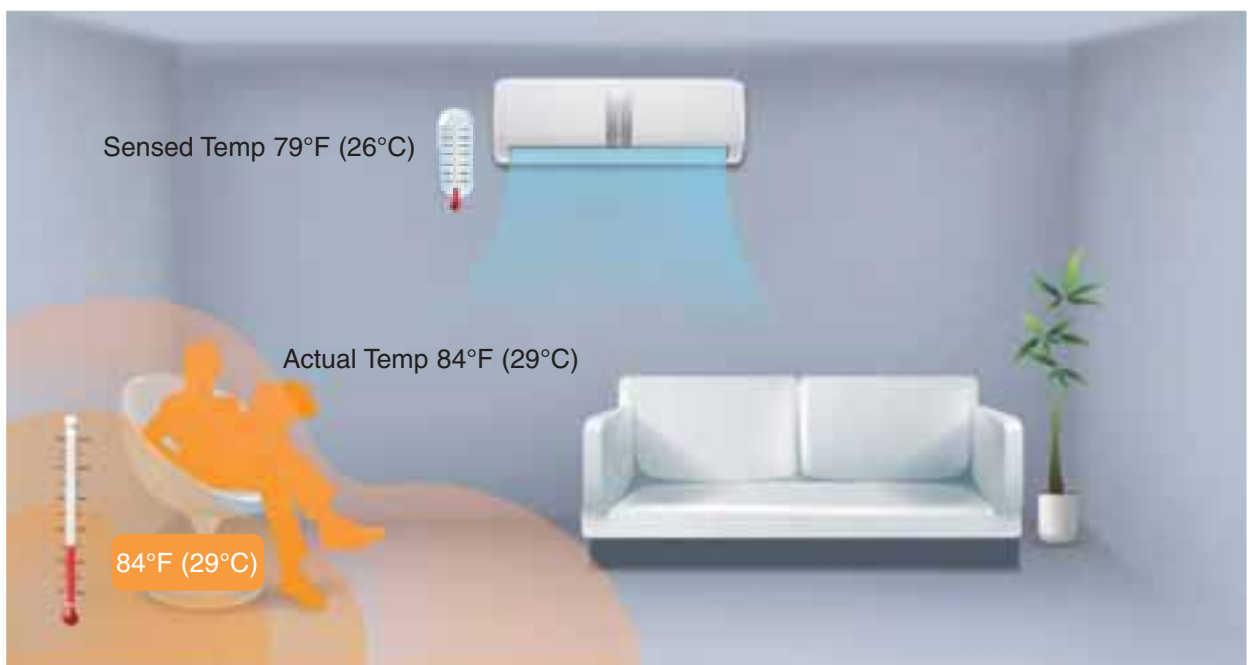
Mini-Split Remote Control

Now your thermostat can be wherever you are, for perfect temperature control. The mini sensor in the remote control can sense its surrounding temperature, and transmit the signal back to the indoor unit. The unit adjusts airflow volume and temperature accordingly so as to provide maximum comfort.

Remote with IFeel



Remote without IFeel



Indoor Air Quality

Breathe easier with these features for cleaner indoor air.

Auto Clean (X-Fan)

After set point temperature is satisfied, fan continues to run to dry inside of indoor unit preventing growth of mold and bacteria.



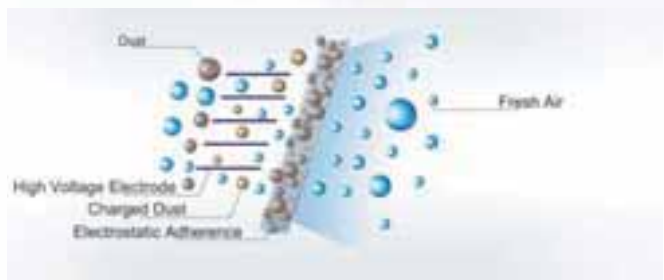
Cold Plasma

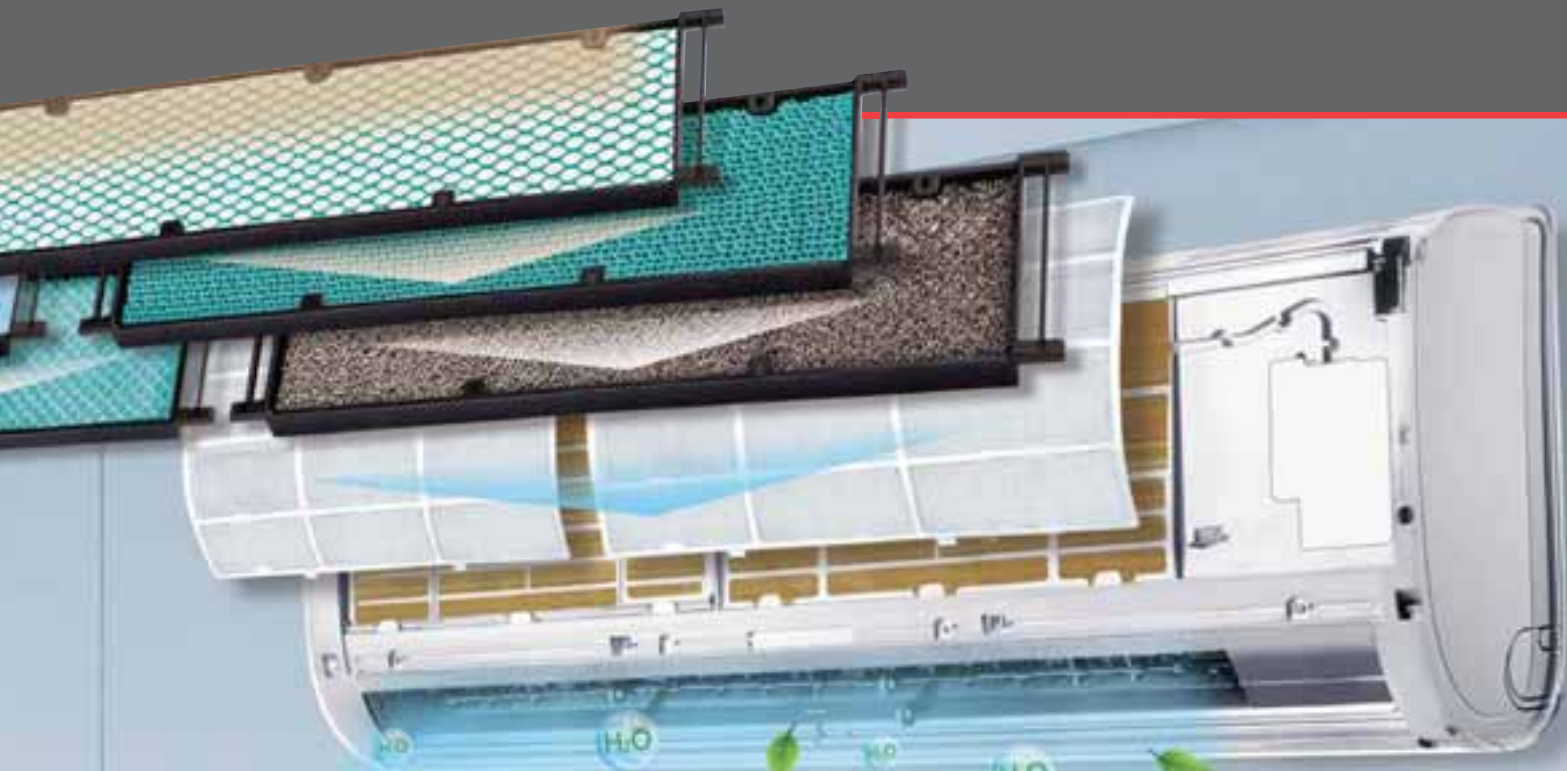
Effective sterilization with more than 90% of bacteria killed. Odor removal. Improved indoor air quality.



Electrostatic Dust Filtration

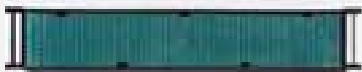
By making use of the principle of electrostatic adherence, it can effectively absorb the dust from the air. Detachable design makes for easy complete cleaning to ensure quality air.





Photocatalytic Filter

This filter is able to completely oxidize and degrade organic contaminants. It can effectively eliminate 99.9% of bacteria, viruses and unpleasant odors.



Catechin Filter

Catechin is extracted from green tea. It can effectively eliminate 95% of carcinogenic agents, such as staphylococcus, streptococcus, salmonella, etc.



Active Carbon Filter

Active carbon can effectively absorb smoke, pet odors, and other unpleasant odors.



Silver Ion Filter

Silver ion is able to sterilize 99% of bacteria by suppressing proliferation of mold and bacteria and preventing the causes of unpleasant odors.



Multi-function Filter

Combine 3 filters from 6 different types including acarobacterium filter, silver ion filter, catechin filter, chitin filter, formaldehyde beater filter and Vitamin C filter to meet your various needs simultaneously.

Installation Techniques

What You Need To Install Ductless Mini-Splits

At their core, ductless mini-splits are still a simple refrigeration system. They just use advanced technologies like inverters, electronic expansion valves, and numerous sensors in both the indoor and outdoor units to modulate and maintain comfort in more efficient manner than conventional systems.

Regardless of your experience in the industry, there are a few important tips that will help ensure a high quality trouble-free installation with NO CALL BACKS.

Invest in the Right Tools - Trying to do the job right is nearly impossible if you don't have the right tools.

Flare Nut Torque Wrench – Torqueing to proper specs is essential to a quality installation. Leaks can occur over time with expansion and contraction if not tightened to the proper specs.

Multi-Meter with Diode Setting and Needle Probes – Mini-splits convert incoming AC voltage to DC through a diode bridge (bridge rectifier). The ability to check diode functionality is essential to the troubleshooting process. Standard meter probes cannot get into small harness casings.

45° Flaring Tool - Residential mini-splits are connected with flare fittings. Reason: the systems are only equipped with a small strainer to keep large debris out of the compressor. We do not allow soldering because debris can plug the strainer or damage the compressor. We do not allow filter dryers.

Do you know that R410-A flare fittings are 45°?

This means your standard 37° flaring tool will not make the proper flare and may leak.



Flare Nut Torque Wrench



45° Flaring Tool



Meter with Diode Setting/
Needle Probes

Installation Step-By-Step

STEP 1 - Mount Condenser

18'x36' Pad, brackets to elevate from snow, risers, concrete, bricks, etc.



Mounting Brackets/Pads

STEP 2 - Mount Indoor Unit

Install mounting plate with slight slope for drainage. Drill 3" hole through interior and exterior wall with slight downward slope for drainage.



Mounting Bracket/3" Hole

STEP 3 - Connect Piping, Wiring & Drain



EZ-Pull® Line Sets with PE Hard Shell Insulation

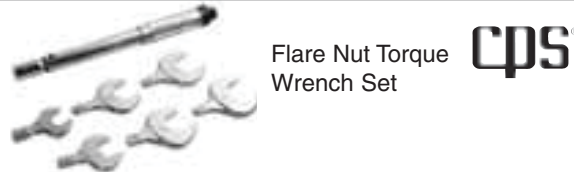
EZ-In™ Wire

45° Orbital Flaring Tool

Drain Hose

STEP 4 - Torque Flare Fittings

Flare nut torque wrench. Essential for trouble free, leak free installation.



Flare Nut Torque Wrench Set

STEP 5 - Nitrogen and Bubble Leak Test

Pressure test with nitrogen at 500 psi. Cal Blue® bubble test all connections. Nitrogen will help dry out piping and enable quicker evacuation.



VN-500

WESTERN ENTERPRISES

Nu-Calgon

Soap Bubbles

STEP 6 - Vacuum Test

Pull vacuum to 500 microns. Wait a minimum 2 hours to ensure pressure is holding.



cps

STEP 7 - System Test

Service valves should not be opened before all other steps are complete. Expansion device will drive closed and require resetting operation. For heat pump, check both modes for proper performance.



SC440

STEP 8 - Cover Lines

Cap off your job professionally with SlimDuct® line covers. There are many styles to choose from and they are paintable.

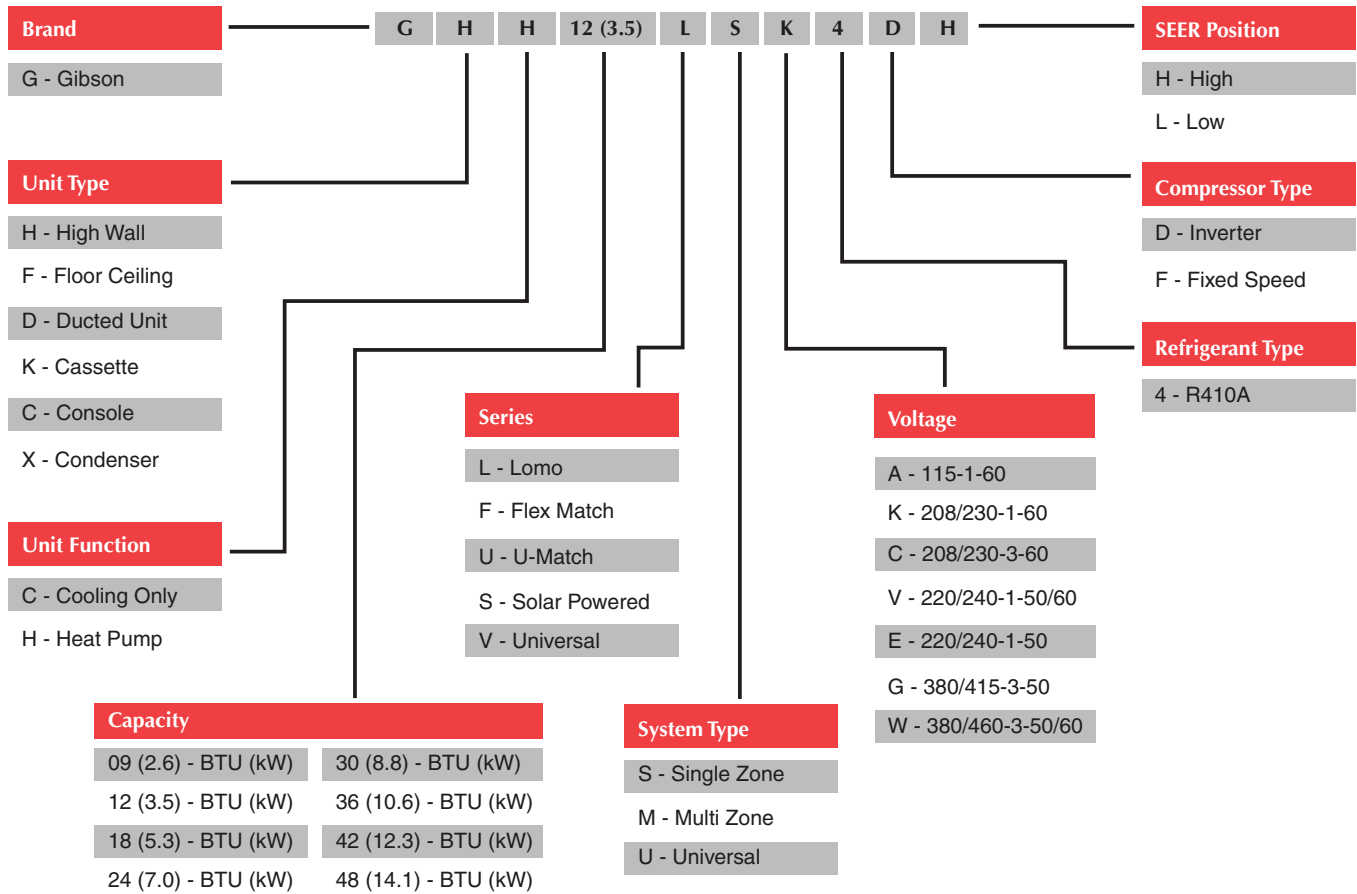


Line Covers

Ask your Gibson sales representative for more details.

Mini-Splits

Mini-Split Single-Zone & Multi-Zone Nomenclature



Systems Lineup

Single-Zone Systems:

- Cooling-Only Systems 115V and 230V.
- Heat Pump Systems 115V and 230V.

Multi-Zone Systems:

- Heat Pump Multi-Zone Systems 1.5 to 5 Ton 230V.



All inverter-driven mini-split systems include three DC motors which may help these units qualify for local rebates.

5 different styles of indoor units to match any interior décor.



High Wall



Ducted



Cassette



Floor/Ceiling



Console

Select Your Size

Load Calculation

Always perform a load calculation before selecting products.

Single-Zone Cooling-Only Mini-Splits 9K to 36K BTU – Up to 23 SEER



R410-A

Key Features	
Single-Zone	1 to 1 Match
Maximum Pipe Length ft./m	82ft./25m (check specific model)
Ph-V-Hz	1-115-60 & 1-208/230-60
Cooling/Heating Range F(C)	-4°F(-18°C) /5°F(-15°C)
SEER/HSPF	Up to 23/10.2

Single-Zone Cooling-Only Available Sizes in 9K to 36K BTU

Features	9K	12K	18K	24K	30K	36K
Up to 23 SEER	•	•	•	•	•	•
16 SEER	•	•	•	•		
1Ph-115V-60Hz	•	•				
1Ph-208/230V-60Hz	•	•	•	•	•	•

Single-Zone Heat Pump Available Sizes in 9K to 36K BTU

Features	9K	12K	18K	24K	30K	36K
Up to 23 SEER	•	•	•	•	•	•
16 SEER	•	•	•	•	•	•
1Ph-115V-60Hz	•	•				
1Ph-208/230V-60Hz	•	•	•	•	•	•

Cooling-Only Models



Up to 23 SEER - 9K to 36K BTU

Single-Zone Cooling-Only

Mini-Splits 9K to 12K BTU – Up to 23 SEER

Wired Remote
Controller

Remote



R410-A

Model	Indoor Unit		GHC09(2.6)LSA4DH	GHC12(3.5)LSA4DH	GHC09(2.6)LSK4DH	GHC12(3.5)LSK4DH
	Outdoor Unit		GXC09(2.6)LSA4DH	GXC12(3.5)LSA4DH	GXC09(2.6)LSK4DH	GXC12(3.5)LSK4DH
Function	Cooling					
Capacity	Btu/h	9000(2800-11000)		12000(3100-13000)	9000(3100-9600)	
SEER	Btu/W	23		22	23	
Power Supply	Ph-V-Hz	1-115-60			1-208/230-60	
Power Input	W	990(100-1270)		990(170-1300)	630(160-1300)	
Rated Current	A	11.27		11.54	5.8	
Airflow Volume	Indoor	CFM	400/288/241/171			
Indoor Unit						
Sound Pressure Level	Indoor	dB(A)(SH/H/M/L)	43/38/32/26	45/40/34/28	43/39/35/27	
Outline Dimension	WxHxD	mm	845 x 289 x 209			
		inch	33.26 x 11.37 x 8.28	33.26 x 11.37 x 8.22	33.26 x 11.37 x 8.28	
Package Dimension	WxHxD	mm	921 x 379 x 281			
		inch	36.26 x 11.06 x 14.92			36.26 x 11.06 x 14.9
Net Weight/Gross Weight	Indoor	kg	10.5/12.5			10/12
		lb	23.15/27.56			22/26.5
Outdoor Unit						
Sound Pressure Level	Outdoor	dB(A)	53			54
Piping Connection	Gas	inch (mm)	3/8 (9.52)	1/2 (12)	3/8 (9.52)	
	Liquid	inch (mm)	1/4 (6.35)			
Outline Dimension	WxHxD	mm	848 x 540 x 320			848 x 592 x 320
		inch	33.38 x 23.30 x 12.59			33.39 x 23.31 x 12.59
Package Dimension	WxHxD	mm	881 x 595 x 363			881 x 645 x 363
		inch	34.68 x 14.9 x 23.43			34.68 x 14.29 x 25.39
Net Weight/Gross Weight	Outdoor	kg	28.5/31	33.5/36.5	33/35.5	
		lb	62.8/68.4	73.8/80.5	77.17/83.79	
Loading Quantity	40'GP	sets	196			
	40'HQ	sets	226			

Cooling-Only Models

Up to 23 SEER - 9K to 36K BTU (continued)

Single-Zone Cooling-Only

Mini-Splits 18K to 36K BTU – Up to 23 SEER



R410-A

Model	Indoor Unit		GHC18(5.3)LSK4DH	GHC24(7.0)LSK4DH	GHC30(8.8)LSK4DH	GHC36(10.6)LSK4DH	
	Outdoor Unit		GXC18(5.3)LSK4DH	GXC24(7.0)LSK4DH	GXC30(8.8)LSK4DH	GXC36(10.6)LSK4DH	
Function	Cooling						
Capacity	Btu/h	18000(6800-20000)		22000(6824-27296)	28000	33600	
SEER	Btu/W	20		20	18		
Power Supply	Ph-V-Hz	1-208/230-60					
Power Input	W	1435		1830	2700	4000	
Rated Current	A	10.39		14.49	11.5	17.7	
Airflow Volume	Indoor	CFM	530/488/412/335	706/647/588/530	706	736	
Indoor Unit							
Sound Pressure Level	Indoor	dB(A)(SH/H/M/L)	47/43/40/39	48/44/40/36	52/48/43/35	54/49/44/37	
Outline Dimension	WxHxD	mm	970 x 300 x 224	1078 x 325 x 246	1350 x 326 x 253		
		inch	38.19 x 11.81 x 8.82	42.44 x 12.79 x 9.69	53.2 x 12.8 x 10.0		
Package Dimension	WxHxD	mm	1041 x 383 x 320	1148 x 413 x 350	1441 x 421 x 358		
		inch	40.98 x 15.08 x 12.59	45.19 x 16.26 x 13.78	56.7 x 16.6 x 14.1		
Net Weight/Gross Weight	Indoor	kg	12.5/15.5	15.5/19	19/23.5		
		lb	27.6/34.2	34.2/41.9	41.9/51.8		
Outdoor Unit							
Sound Pressure Level	Outdoor	dB(A)	55	59	61	62	
Piping Connection	Gas	inch (mm)	1/4 (6)		5/8 (16)		
	Liquid	inch (mm)	5/8 (16)		1/4 (6.35)		
Outline Dimension	WxHxD	mm	955 x 700 x 396	980 x 790 x 427	980 x 790 x 427		
		inch	37.59 x 27.56 x 15.59	38.58 x 31.10 x 16.81	38.6 x 31.1 x 16.8		
Package Dimension	WxHxD	mm	1029 x 750 x 458	1083 x 488 x 855	1083 x 855 x 488		
		inch	40.51 x 29.53 x 18.03	42.63 x 19.21 x 33.66	42.6 x 19.2 x 33.6		
Net Weight/Gross Weight	Outdoor	kg	48/52.5	62/67	69/74	72/76	
		lb	105.8/115.8	136.7/147.7	152.1/163.2	258.8/167.6	
Loading Quantity	40'GP	sets	127	87	78		
	40'HQ	sets	146	107	99		



Outdoor Unit
Cutaway View

Cooling-Only Models

16 SEER - 9K to 24K BTU

Single-Zone Cooling-Only

Mini-Splits 9K to 12K BTU – 16 SEER



R410-A

Model		Indoor Unit	GHC09(2.6)LSA4DL	GHC12(3.5)LSA4DL	GHC09(2.6)LSK4DL	GHC12(3.5)LSK4DL
		Outdoor Unit	GXC09(2.6)LSA4DL	GXC12(3.5)LSA4DL	GXC09(2.6)LSK4DL	GXC12(3.5)LSK4DL
Function		Cooling				
Capacity	Btu/h	9000(2764-10918)	12000(3753-12500)	9000	12000	
SEER	Btu/W	16				
Power Supply	Ph-V-Hz	1-115-60		1-208/230-60		
Power Input	W	823	1155	900	1300	
Rated Current	A	11.27	13	5.8	6	
Airflow Volume	Indoor	CFM	317	400	317	400
Indoor Unit						
Sound Pressure Level	Indoor	dB(A)(SH/H/M/L)	42/38/32/28	43/39/35/29	43/38/34/28	45/39/35/29
Outline Dimension	WxHxD	mm	790 x 275 x 200	845 x 289 x 209	790 x 275 x 200	845 x 289 x 209
		inch	31.1 x 10.8 x 7.8	33.3 x 11.4 x 8.3	31.1 x 10.8 x 7.9	33.3 x 11.4 x 8.2
Package Dimension	WxHxD	mm	866 x 367 x 271	921 x 379 x 281	866 x 367 x 271	921 x 379 x 281
		inch	34.1 x 14.4 x 10.7	36.3 x 14.9 x 11.1	34.1 x 14.4 x 10.7	36.1 x 15 x 11
Net Weight/Gross Weight	Indoor	kg	9/11	10.5/12.5	9/11	10.5/12.5
		lb	19.8/24.3	29/31.5	19.8/24.3	23.2/27.6
Outdoor Unit						
Sound Pressure Level	Outdoor	dB(A)	51	52	53	
Piping Connection	Gas	inch (mm)	3/8 (9.52)			
	Liquid	inch (mm)	1/4 (6)		1/4 (6.35)	
Outline Dimension	WxHxD	mm	848 x 540 x 320		776 x 540 x 320	
		inch	33.4 x 21.3 x 12.6		30.6 x 21.2 x 12.6	
Package Dimension	WxHxD	mm	881 x 363 x 595	881 x 595 x 363	823 x 595 x 358	
		inch	34.7 x 14.3 x 23.4	34.7 x 23.4 x 14.3	32.4 x 23.4 x 41.1	34.7 x 23.4 x 14.3
Net Weight/Gross Weight	Outdoor	kg	27/29.5	29/31.5	29.5/32	31.5/34
		lb	59.5/65	63.9/69.5	65.0/70.6	69.5/75.0
Loading Quantity	40'GP	sets	210	196	224	212
	40'HQ	sets	254	240	262	245

Cooling-Only Models

16 SEER - 9K to 24K BTU (continued)

Single-Zone Cooling-Only

Mini-Splits 18K to 24K BTU – 16 SEER



Model	Indoor Unit		GHC18(5.3)LSK4DL	GHC24(7.0)LSK4DL
	Outdoor Unit		GXC18(5.3)LSK4DL	GXC24(7.0)LSK4DL
Function	Cooling			
Capacity	Btu/h		18000	22000
SEER	Btu/W		16	
Power Supply	Ph-V-Hz		1-208/230-60	
Power Input	W		1800	2250
Rated Current	A		7.98	10
Airflow Volume	Indoor	CFM	470	706
Indoor Unit				
Sound Pressure Level	Indoor	dB(A)(SH/H/M/L)	46/42/39/36	48/44/40/36
Outline Dimension	WxHxD	mm	970 x 300 x 224	1078 x 325 x 242
		inch	38.2 x 11.8 x 8.8	42.4 x 12.8 x 9.6
Package Dimension	WxHxD	mm	1041 x 383 x 320	1148 x 413 x 350
		inch	41 x 15 x 12.6	45 x 16.1 x 13.2
Net Weight/Gross Weight	Indoor	kg	12.5/15.5	17/20.5
		lb	27.6/34.2	37.5/45.2
Outdoor Unit				
Sound Pressure Level	Outdoor	dB(A)	56	59
Piping Connection	Gas	inch (mm)	1/2 (12)	5/8 (16)
	Liquid	inch (mm)	1/4 (6.35)	
Outline Dimension	WxHxD	mm	955 x 700 x 396	
		inch	37.6 x 27.5 x 15.6	
Package Dimension	WxHxD	mm	1029 x 750 x 458	
		inch	40.5 x 18 x 29.5	
Net Weight/Gross Weight	Outdoor	kg	41/45.5	47/51.5
		lb	90.4/100.3	103.6/113.5
Loading Quantity	40'GP	sets	127	118
	40'HQ	sets	146	131



Remote



Heat Pump Models

Up to 23 SEER - 9K to 36K BTU

Single-Zone Heat Pump

Mini-Splits 9K to 12K BTU – Up to 23 SEER



R410-A

Model	Indoor Unit		GHH09(2.6)LUA4DH	GHH12(3.5)LUA4DH	GHH09(2.6)LUK4DH	GHH12(3.5)LUK4DH
	Outdoor Unit		GXH09(2.6)LSA4DH	GXH12(3.5)LSA4DH	GXH09(2.6)LSK4DH	GXH12(3.5)LSK4DH
Function			Cooling/Heating			
Capacity	Cooling	Btu/h	9000(2800-11000)	12000(3500-14600)	9000(3500-9600)	12000(3100-13000)
	Heating	Btu/h	9900(2100-14000)	12200(2800-16600)	11000(560-12000)	13000(2400-14000)
SEER/HSPF		Btu/W (HSPF)	23 (10)	22 (10)	23 (9)	22 (8.9)
Power Supply		Ph-V-Hz	1-115-60		1-208/230-60	
Power Input	Cooling	W	990(100-1270)	990(170-1300)	630(160-1300)	1000(220-1350)
	Heating	W	930(140-1200)	990(170-1350)	1020(160-1350)	1100(400-1400)
Rated Current	Cooling	A	11.27	11.54	5.8	6.0
	Heating	A	11.27	11.98	6.0	6.3
Airflow Volume	Indoor	CFM	400/288/241/171		376/288/241/171	400/288/241/171
Indoor Unit						
Sound Pressure Level	Indoor	dB(A)(SH/H/M/L)	43/38/32/26	45/40/34/28	43/39/35/29	45/39/35/29
Outline Dimension	WxHxD	mm	845 x 289 x 209			
		inch	33.26 x 11.37 x 8.28	33.26 x 11.37 x 8.22	33.26 x 11.37 x 8.28	33.26 x 11.37 x 8.23
Package Dimension	WxHxD	mm	921 x 379 x 281			
		inch	36.26 x 11.06 x 14.92			36.26 x 11.06 x 14.9
Net Weight/Gross Weight	Indoor	kg	10.5/12.5		10/12	
		lb	23.15/27.56		22/26.5	
Outdoor Unit						
Sound Pressure Level	Outdoor	dB(A)	53			54
Piping Connection	Gas	inch (mm)	3/8 (9.52)	1/2 (12)	3/8 (9.52)	1/2 (12)
	Liquid	inch (mm)	1/4 (6.35)			
Outline Dimension	WxHxD	mm	848 x 540 x 320			848 x 592 x 320
		inch	33.38 x 23.30 x 12.59			33.39 x 23.31 x 12.59
Package Dimension	WxHxD	mm	881 x 595 x 363			881 x 645 x 363
		inch	34.68 x 14.9 x 23.43			34.68 x 14.29 x 25.39
Net Weight/Gross Weight	Outdoor	kg	32.5/35	35/38	35.5/38	39/42
		lb	71.67/79.2	77.17/83.79	78.3/83.8	86/92.6
Loading Quantity	40'GP	sets	196			
	40'HQ	sets	226			

Heat Pump Models

Up to 23 SEER - 9K to 36K BTU (continued)

Single-Zone Heat Pump

Mini-Splits 12K to 36K BTU – Up to 23 SEER



Model		Indoor Unit	GHH18(5.3)LUK4DH	GHH24(7.0)LUK4DH	GHH30(8.8)LUK4DH	GHH36(10.6)LUK4DH
		Outdoor Unit	GXH18(5.3)LSK4DH	GXH24(7.0)LSK4DH	GXH30(8.8)LSK4DH	GXH36(10.6)LSK4DH
Function		Cooling/Heating				
Capacity	Cooling	Btu/h	18000(6800-20000)	22000(6800-27300)	28000	33600
	Heating	Btu/h	19800(7340-23500)	23000(6800-30700)	28400	34600
SEER/HSPF		Btu/W (HSPF)	20 (10)	20 (9)	18 (9)	
Power Supply		Ph-V-Hz	1-208/230-60			
Power Input	Cooling	W	1435	1830(450-3000)	2700	4000
	Heating	W	1730	2000(450-3000)	2900	3800
Rated Current	Cooling	A	10.39	14.49	11.5	17.7
	Heating	A	12.56	14.49	12	16.5
Airflow Volume	Indoor	CFM	530/488/412/335	706/647/588/530	706	736
Indoor Unit						
Sound Pressure Level	Indoor	dB(A)(SH/H/M/L)	47/43/40/39	48/44/40/36	52/48/43/35	
Outline Dimension	WxHxD	mm	970 x 300 x 224	1078 x 325 x 242	1350x326x253	
		inch	38.19 x 11.81 x 8.82	42.44 x 12.79 x 9.68	53.2x12.8x10.0	
Package Dimension	WxHxD	mm	1041 x 383 x 320	1148 x 413 x 350	1441x421x358	
		inch	40.98 x 15.08 x 12.59	45.19 x 16.26 x 13.78	56.7x16.6x14.1	
Net Weight/Gross Weight	Indoor	kg	12.5/15.5	15.5/19	19/23.5	
		lb	27.6/34.2	34.2/41.9	41.9/51.8	
Outdoor Unit						
Sound Pressure Level	Outdoor	dB(A)	55	59	61	62
Piping Connection	Gas	inch (mm)	1/4 (6.35)	5/8 (16)		
	Liquid	inch (mm)	5/8 (16)	1/4 (6.35)		
Outline Dimension	WxHxD	mm	955 x 700 x 396	980 x 790 x 427		
		inch	37.59 x 27.56 x 15.59	38.58 x 31.10 x 16.81	38.6 x 31.1 x 16.8	
Package Dimension	WxHxD	mm	1029 x 750 x 458	1083 x 488 x 855	1083 x 855 x 488	
		inch	40.51 x 29.53 x 18.03	42.63 x 19.21 x 33.66	42.6 x 19.2 x 33.6	
Net Weight/Gross Weight	Outdoor	kg	48/52.5	64.5/69.5	70/75	73/77
		lb	105.8/115.8	142.2/153.2	154.4/165.4	161/169.8
Loading Quantity	40'GP	sets	127	87	78	
	40'HQ	sets	146	107	99	

Heat Pump Models

16 SEER - 9K to 24K BTU

Single-Zone Heat Pump

Mini-Splits 9K to 12K BTU – 16 SEER



R410-A

Model	Indoor Unit		GHH09(2.6)LSA4DL	GHH12(3.5)LSA4DL	GHH09(2.6)LSK4DL	GHH12(3.5)LSK4DL
	Outdoor Unit		GXH09(2.6)LSA4DL	GXH12(3.5)LSA4DL	GXH09(2.6)LSK4DL	GXH12(3.5)LSK4DL
Function		Cooling/Heating				
Capacity	Cooling	Btu/h	9000(2764-10918)	12000(3753-12500)	9000	12000
	Heating	Btu/h	9600	13000	9500	13000
SEER/HSPF		Btu/W (HSPF)	16 (9)			
Power Supply		Ph-V-Hz	1-115-60		1-208/230-60	
Power Input	Cooling	W	823	1155	900	1300
	Heating	W	-		800	1250
Rated Current	Cooling	A	11.27	13	5.8	6
	Heating	A	-		6	6.7
Airflow Volume	Indoor	CFM	317	400	317	400
Indoor Unit						
Sound Pressure Level	Indoor	dB(A)(SH/H/M/L)	42/38/32/28	43/39/35/29	43/38/34/28	45/39/35/29
Outline Dimension	WxHxD	mm	790 x 275 x 200	845 x 289 x 209	790 x 275 x 200	845 x 289 x 209
		inch	31.1 x 10.8 x 7.8	33.3 x 11.4 x 8.3	31.1 x 10.8 x 7.9	33.3 x 11.4 x 8.2
Package Dimension	WxHxD	mm	866 x 367 x 271	921 x 379 x 281	866 x 367 x 271	921 x 379 x 281
		inch	34.1 x 14.4 x 10.7	36.3 x 14.9 x 11.1	34.1 x 14.4 x 10.7	36.1 x 15 x 11
Net Weight/Gross Weight	Indoor	kg	9/11	10.5/12.5	9/11	10.5/12.5
		lb	19.8/24.3	29/31.5	19.8/24.3	23.2/27.6
Outdoor Unit						
Sound Pressure Level	Outdoor	dB(A)	51		52	53
Piping Connection	Gas	inch (mm)	3/8 (9.52)			
	Liquid	inch (mm)	1/4 (6.35)			
Outline Dimension	WxHxD	mm	848 x 540 x 320		776 x 540 x 320	
		inch	33.4 x 21.3 x 12.6		30.6 x 21.2 x 12.6	
Package Dimension	WxHxD	mm	881 x 363 x 595	881 x 595 x 363	823 x 595 x 358	
		inch	34.7 x 14.3 x 23.4	34.7 x 23.4 x 14.3	34.7 x 14.3 x 23.4	34.7 x 23.4 x 14.3
Net Weight/Gross Weight	Outdoor	kg	27/29.5	29/31.5	30/32.5	32/34.5
		lb	59.5/65	63.9/69.5	66.2/71.7	70.6/76.1
Loading Quantity	40'GP	sets	210	196	224	212
	40'HQ	sets	254	240	262	245

Heat Pump Models

16 SEER - 9K to 24K BTU (continued)

Single-Zone Heat Pump

Mini-Splits 18K to 24K BTU – 16 SEER



Model		Indoor Unit	GHH18(5.3)LSA4DL	GHH24(7.0)LSA4DL	GHH30(8.8)LSK4DL	GHH36(10.6)LSK4DL
		Outdoor Unit	GXH18(5.3)LSA4DL	GXH24(7.0)LSA4DL	GXH30(8.8)LSK4DL	GXH36(10.6)LSK4DL
Function		Cooling/Heating				
Capacity	Cooling	Btu/h	18000	22000	28000	33600
	Heating	Btu/h	19000	23000	28400	34600
SEER/HSPF		Btu/W (HSPF)	16 (9)		16 (8.2)	
Power Supply		Ph-V-Hz	1-208/230-60			
Power Input	Cooling	W	1920	2250	2700	3900
	Heating	W	2000	2280	2800	3800
Rated Current	Cooling	A	8.5	10.0	11.5	17.0
	Heating	A	8.9	10.1	12.0	16.5
Airflow Volume	Indoor	CFM	470	760	706/618/0/530/0/412/0	736/647/0/530/0/412/0
Indoor Unit						
Sound Pressure Level	Indoor	dB(A)(SH/H/M/L)	46/42/39/36	48/44/40/36	56/53/46/41	
Outline Dimension	WxHxD	mm	970 x 300 x 224	1078 x 325 x 242	1350 x 326 x 253	
		inch	38.2 x 11.8 x 8.8	42.4 x 12.8 x 9.6	53.15 x 12.835 x 9.961	
Package Dimension	WxHxD	mm	1041 x 383 x 320	1148 x 413 x 350	1441 x 421 x 358	
		inch	41 x 15 x 12.6	45 x 16.1 x 13.2	56.732 x 16.575 x 14.094	
Net Weight/Gross Weight	Indoor	kg	12.5/15.5	17/20.5	19/26	
		lb	27.6/34.2	37.5/45.2	41.9/57.3	
Outdoor Unit						
Sound Pressure Level	Outdoor	dB(A)	56	59	62	65
Piping Connection	Gas	inch (mm)	1/2 (12)	5/8 (16)		
	Liquid	inch (mm)	1/4 (6.35)		1/4 (6)	
Outline Dimension	WxHxD	mm	955 x 700 x 396		980 x 790 x 427	
		inch	37.6 x 27.5 x 15.6		38.583 x 31.102 x 16.811	
Package Dimension	WxHxD	mm	1029 x 750 x 458		1083 x 488 x 855	
		inch	40.5 x 18 x 29.5		42.638 x 19.213 x 33.661	
Net Weight/Gross Weight	Outdoor	kg	43.5/48	50/54.5	70/74	73/77
		lb	95.9/105.8	110.2/120.1	154.4/163.2	161.0/169.8
Loading Quantity	40'GP	sets	127	118	78	
	40'HQ	sets	146	131	99	

Heat Pump Models

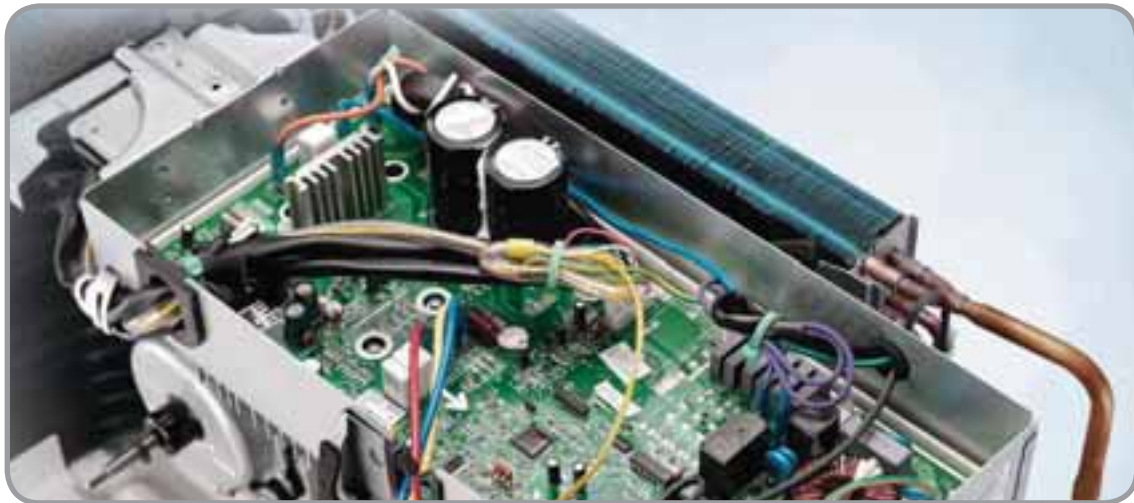
High-Efficiency Quiet Fan

Gibson's transparent axial fan is resistant to high temperature and operates quietly.



High-Temp-Resistant PCB

Fireproof metal casting and temperature-resistant printed circuit board allow trouble-free operation up to 185° F (85° C).



Integrated Evaporator

Compact design minimizes indoor unit size while greatly enhancing heat exchange capability.



Integrated Design

Integrated rear base and water tray design avoid water leakage and reduce noise.

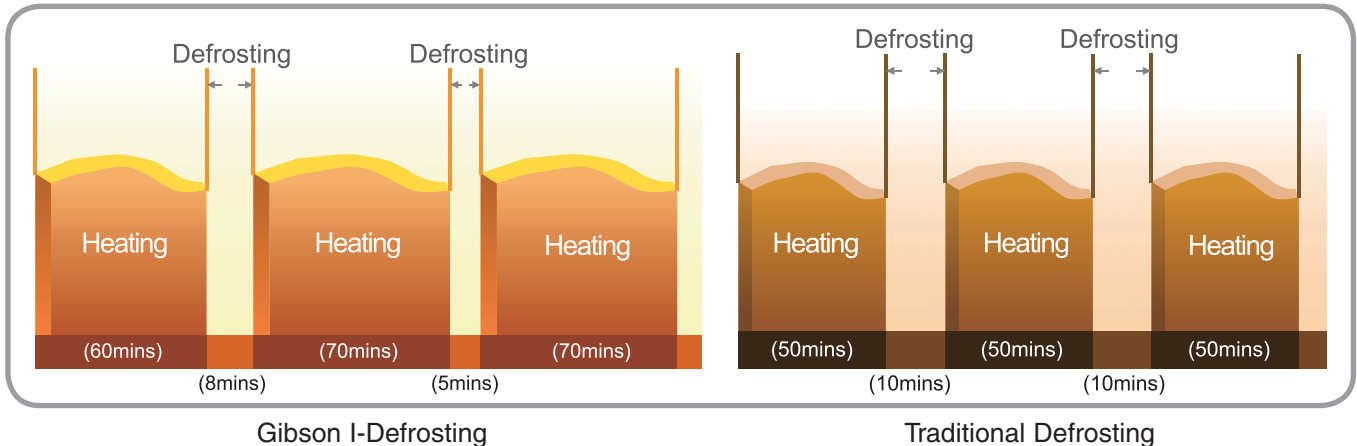


Heat Pump Models

Intelligent Defrosting

Maximize heating comfort with shorter defrosting time. Traditional defrosting works by setting time, e.g., defrosting process is on for 10 minutes at each 50 minute interval.

Gibson I-Defrosting is only performed when needed, which reduces energy waste by eliminating the unnecessary defrosting process.



Functions for Low Ambient Temperature

46°F (8°C) Heating Freeze Protection

Maintain the room temperature steadily at 46°F (8°C) and prevent winter freezing when room is unoccupied for long periods.

5°F (-15°C) Cooling - Reliable operation at 5°F (-15°C) cooling. As the outdoor temperature changes, the frequency of compressor and the speed of fan adjusts accordingly.

-4°F (-20°C) Heating - Reliable operation at -4°F (-20°C) heating is supported by Gibson's electrical heating chassis, preheating technology and system modulation.

Cold Air Prevention

Fan delay allows the copper pipe to be heated in advance, so the air will not be blown out before it reaches the set temperature.



Solar Hybrid Power



Single-Zone Solar Hybrid Power
 12K and 18K BTU – 20 SEER
 Energy savings up to 97%

Key Features	
Single Zone	1 to 1 Match
Minimum/Maximum Pipe Length ft./m	10ft.(3m)/66ft.(20m)
Ph-V-Hz	1-208/230-60
EER/COP/SEER/HSPF	12/10.9/20/9.6

Solar Hybrid Power

20 SEER - 12K to 18K BTU

Single-Zone Solar Hybrid Powered Heat Pump 12K and 18K BTU – 20 SEER

Primary power is 208/230V, but will automatically bypass to solar whenever solar power is available, further reducing energy consumption by as much as 97% in cooling mode.

Solar panels purchased separately.

Solar Hybrid Power (SHP) Heat Pump with intelligent power supply management can freely switch 3 different power supply modes to meet various demands.

3 Power Supply Modes

Mode without Battery

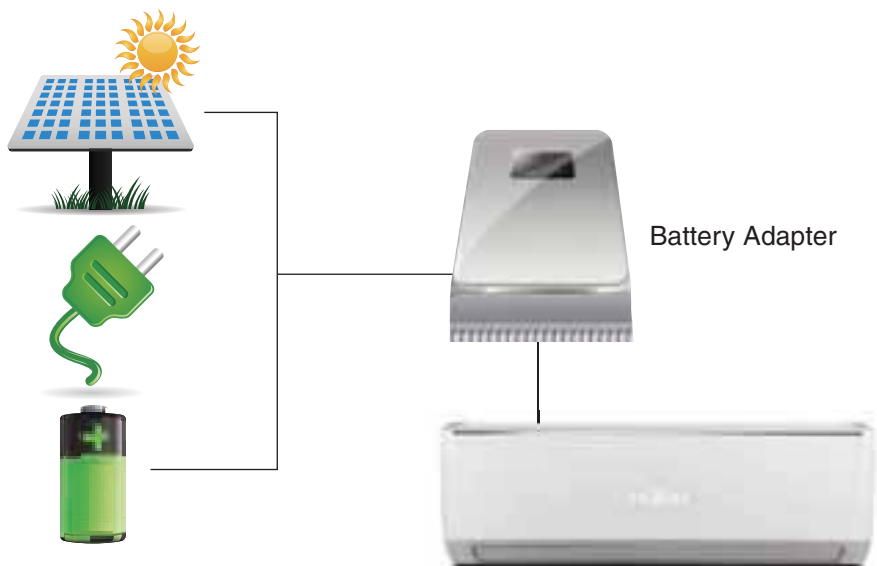
- Electricity from solar power, together with commercial electricity, are directly supplied to system.

Mode with Battery

- Electricity from solar power is first stored in battery and then supplied to the system by adapter, together with commercial electricity.

Mode without Commercial Electricity

- Commercial electricity is cut off and the power supply of the unit is completely from solar power.



Solar Hybrid Power

20 SEER - 12K to 18K BTU (continued)

Single-Zone Solar Hybrid Powered Heat Pump

Mini-Splits 12K and 18K BTU – 20 SEER



R410-A

Model	Indoor Unit		GHH12(3.5)SSK4DH	GHH18(5.3)SSK4DH
	Outdoor Unit		GXH12(3.5)SSK4DH	GXH18(5.3)SSK4DH
Capacity (L/S/H)	Cooling	Btu/h	4500/12000/14000	6000/18000/22350
	Heating	Btu/h	3250/13000/14500	4100/25000/25000
Electrical Data				
Power Supply		Ph-V-Hz	1-208/230-60	
Power Input Rate (L/S/H)	Cooling	W	120/1000/1450	300/1500/2650
	Heating	W	220/1200/1500	335/2750/2750
Solar Power Data				
Open Circuit Voltage		V	22~165	
Short Circuit Current		A	9	
Maximum Output Power		W	1000	
Performance				
EER	Cooling	Btu/W	12	
COP	Heating	Btu/W	10.9	9.07
SEER	Cooling	Btu/h/W	20	18
HSPF	Heating	Btu/h/W	9.6	10.2
Airflow	Indoor Unit	CFM	310	500
Noise (H/M/L)	Indoor Unit	dB(A)	36/22/26	44/40/35
	Outdoor Unit	dB(A)	55(H)	54(H)
With Solar Power of 1150W				
Electric Power Input Rate (L/S/H)	Cooling	W	30/30/450	30/500/650
	Heating	W	30/200/500	30/1750/1750
Energy Saving Rate	Cooling		97%	67%
	Heating		80%	36%
Dimension & Weight				
Body Dimension (WxHxD)	Indoor Unit	mm	845 x 275 x 180	940 x 298 x 200
		inch	33.27 x 10.83 x 7.09	37.01 x 11.73 x 7.87
	Outdoor Unit	mm	848 x 540 x 320	955 x 700 x 396
		inch	33.39 x 21.26 x 12.60	15.35 x 27.56 x 13.39
Package Dimension (WxHxD)	Indoor Unit	mm	918 x 370 x 258	1013 x 300 x 383
		inch	36.00 x 14.00 x 10.00	39.88 x 15.55 x 11.34
	Outdoor Unit	mm	881 x 595 x 363	1029 x 750 x 458
		inch	34.57 x 22.83 x 14.16	40.51 x 29.53 x 18.03
Net Weight/Gross Weight	Indoor Unit	kg	11/14	13/17
		lb	24.3/30.9	28.7/37.5
	Outdoor Unit	kg	40/44	50/55
		lb	88.2x97.0	110.3x121.3
Loading Quantity (not including solar panel)			ENERGY STAR	ENERGY STAR
40'GP		sets	210	130
40'HQ		sets	244	146

Piping for Single-Zone Systems



	Minimum Pipe Length 10ft. (3m)	Add refrigerant if over 17ft. (5m)	Maximum Pipe Length 66ft. (20m) - Do Not Exceed
	No need to add refrigerant	Add 0.2oz./ft. (15g/m)	

Connection Piping Chart

Models may vary. Check chart for specific models.

Cooling-Only

		GXC12(3.5)LSA2FL	GXC12(3.5)LSK2FL	GXC18(5.3)LSK2FL	GXC24(7.0)LSK2FL
Connection Pipe Specifications	Outside Diameter of Liquid Pipe	in.(mm) 1/4in.(6mm)			
	Outside Diameter of Gas Pipe	in.(mm) 1/2in.(12mm)			
	Minimum Pipe Length (do not go below)	ft.(m) 10ft.(3m)			
	Add Length (add refrigerant over this length)	ft.(m) 17ft.(5m)			
	Gas Additional Charge	oz./ft.(g/m) 0.2oz./ft.(15g/m)			
	Maximum Height (do not exceed)	ft.(m) 33ft.(10m)			
	Maximum Pipe Length (do not exceed)	ft.(m)	66ft.(20m)	82ft.(25m)	

Heat Pump

		GXH12(3.5)LSA2FL	GXH12(3.5)LSK2FL	GXH18(5.3)LSK2FL	GXH24(7.0)LSK2FL
Connection Pipe Specifications	Outside Diameter of Liquid Pipe	in.(mm) 1/4in.(6mm)			
	Outside Diameter of Gas Pipe	in.(mm) 1/2in.(12mm)			16mm(5/8in.)
	Minimum Pipe Length (do not go below)	ft.(m) 10ft.(3m)			
	Add Length (add refrigerant over this length)	ft.(m) 17ft.(5m)			
	Gas Additional Charge	oz./ft.(g/m)	0.2oz./ft.(15g/m)		50g/m(0.5oz./ft.)
	Maximum Height (do not exceed)	ft.(m)	33ft.(10m)		
	Maximum Pipe Length (do not exceed)	ft.(m)	66ft.(20m)	82ft.(25m)	

Flex Match Systems

Multi-Zone Mini-Split Heat Pump Condensers
18K to 42K BTU – Up to 22 SEER



R410-A

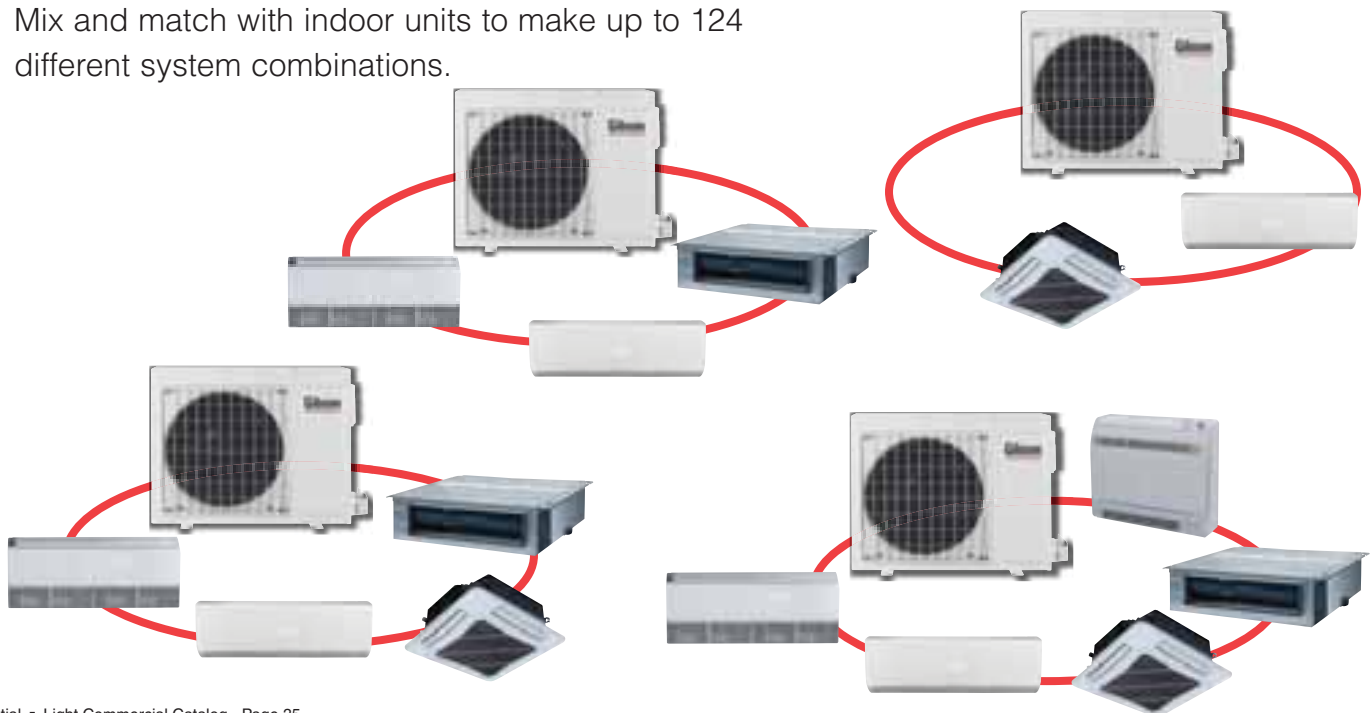


-4°F (-20°C) Low Ambient Heating

Some condensers are equipped with up to 5 sets of service valves that connect directly to indoor units.

Model		GXH18(5.3)FMK4DH	GXH24(7.0)FMK4DH	GXH30(8.8)LSK4DH	GXH36(10.6)LSK4DH	GXH42(12.3)FMK4DH
Maximum # of Indoor Units		1 to 2	2 to 3	2 to 4	2 to 5	2 to 5
Maximum Pipe Length	m/ft	20/66	60/197	70/230	70/230	80/262
Power Supply	Ph-V-Hz	1-208/230-60				
Cooling/Heating Range	F(C)	23~118°F (-5~48°C)/-4~81°F(-20~27C)				
SEER/HSPF		16/9				
Connectable Capacity		50% to 135% of the outdoor unit rating				

Mix and match with indoor units to make up to 124 different system combinations.



Flex Match Systems

Multi-Zone Indoor Units
9K to 24K BTU – Up to 22 SEER



High Wall Unit	Ducted Unit	4-Way Cassette Unit	Console Unit	Floor/Ceiling Unit
GHH09(2.6)LUK4DH	GDH09(2.6)FMK4DH	GKH12(3.5)FMK4DH	GCH09(2.6)FMK4DH	GFH09(2.6)FMK4DH
GHH12(3.5)LUK4DH	GDH12(3.5)FMK4DH	GKH18(5.3)FMK4DH	GCH12(3.5)FMK4DH	GFH12(3.5)FMK4DH
GHH18(5.3)LUK4DH	GDH18(5.3)FMK4DH	GKH24(7.0)FMK4DH	GCH18(5.3)FMK4DH	GFH18(5.3)FMK4DH
GHH24(7.0)LUK4DH	GDH21(6.2)FMK4DH			GFH24(7.0)FMK4DH
	GDH24(7.0)FMK4DH			

Flex Match Indoor Units (Mix and Match in Allowable Combinations)					
Capacity	9,000	12,000	18,000	21,000	24,000
Wall Mounted Unit	•	•	•		•
Ducted Unit	•	•	•	•	•
Cassette Unit		•	•		•
Console Unit	•	•	•		
Floor/Ceiling Unit	•	•	•		•

Flex Match Systems

Easy Installation

		SPECIFICATIONS				
		GXH18(5.3)FMK4DH	GXH24(7.0)FMK4DH	GXH30(8.8)FMK4DH	GXH36(10.6)FMK4DH	GXH42(12.3)FMK4DH
Minimum Pipe Length (Total)	ft(m)	33(10)				
Add Refrigerant If Over	ft(m)	33(10)	98(30)	131(40)		
Additional Charge	oz/ft(g/m)	0.2(20)				
Max. Height (IDU to IDU)	ft(m)	33(10)			25(7.5)	
Maximum Height (IDU↔ODU)	ft(m)	33(10)			49(15)	
Maximum Length (Single Unit)	ft(m)	33(10)	66(20)	82(25)		
Maximum Length Distance (Total System)	ft(m)	66(20)	197(60)	230(70)	246(75)	



Flex Match Matrix






Flex Match systems allow you to mix and match indoor units of any available style with outdoor units according to the color matching charts.

Up to 22 SEER

Outdoor Unit Line Up Allowable Combinations

GXH18(5.3)FMK4DH 5 Combinations  For use with any matching color listed at right 9 or 12	One Indoor Unit	Two Indoor Units	
	9	9+9	
	12	9+12	
		12+12	
GXH24(7.0)FMK4DH 8 Combinations  For use with any matching color listed at right 9, 12, or 18	Two Indoor Units	Three Indoor Units	
	9+9	9+9+9	
	9+12	9+9+12	
	9+18		
	9+21		
	12+12		
12+18			
GXH30(8.8)FMK4DH 20 Combinations  For use with any matching color listed at right 9, 12, 18, 21, or 24	Two Indoor Units	Two Indoor Units	Three Indoor Units
	9+9	12+24	9+9+24
	9+12	18+18	9+12+12
	9+18	18+21	9+12+18
	9+21	Three Indoor Units	Four Indoor Units
	9+24	9+9+9	9+9+9+9
	12+12	9+9+12	9+9+9+12
	12+18	9+9+18	
	12+21	9+9+21	
GXH36(10.6)FMK4DH 41 Combinations  For use with any matching color listed at right 9, 12, 18, 21, or 24	Two Indoor Units	Three Indoor Units	Three Indoor Units
	9+9	9+9+9	12+18+18
	9+12	9+9+12	Four Indoor Units
	9+18	9+9+18	9+9+9+9
	9+21	9+9+21	9+9+9+12
	9+24	9+9+24	9+9+9+18
	12+12	9+12+12	9+9+9+21
	12+18	9+12+18	9+9+12+12
	12+21	9+12+21	9+9+12+18
	12+24	9+12+24	9+12+12+12
	18+18	9+18+18	12+12+12+12
	18+21	9+18+21	Five Indoor Units
	18+24	12+12+12	9+9+9+9+9
	21+21	12+12+18	9+9+9+9+12
21+24	12+12+21		
24+24	12+12+24		
GXH42(12.3)FMK4DH 56 Combinations  For use with any matching color listed at right 9, 12, 18, 21, or 24	Two Indoor Units	Three Indoor Units	Four Indoor Units
	9+9	9+9+24	9+9+9+9
	9+12	9+12+12	9+9+9+12
	9+18	9+12+18	9+9+9+18
	9+21	9+12+21	9+9+9+21
	9+24	9+12+24	9+9+9+24
	12+12	9+18+18	9+9+12+12
	12+18	9+18+21	9+9+12+18
	12+21	9+18+24	9+9+12+21
	12+24	9+21+21	9+9+12+24
	18+18	9+21+24	9+12+12+12
	18+21	12+12+12	9+12+12+18
	18+24	12+12+18	9+12+12+21
	21+21	12+12+21	12+12+12+12
	21+24	12+12+24	Five Indoor Units
	24+24	12+18+18	9+9+9+9+9
	Three Indoor Units	12+18+21	9+9+9+9+12
	9+9+9	12+18+24	9+9+9+9+18
9+9+12	12+21+21	9+9+9+12+12	
9+9+18	18+18+18	9+9+12+12+12	
9+9+21			

Indoor Unit Line Up

High Wall Unit												
GHH09(2.6)LUK4DH												
GHH12(3.5)LUK4DH												
GHH18(5.3)LUK4DH												
GHH24(7.0)LUK4DH												
Available in:							Match condenser by color					
9,000							9,000	9,000	9,000	9,000	9,000	9,000
12,000							12,000	12,000	12,000	12,000	12,000	12,000
18,000								18,000	18,000	18,000	18,000	18,000
24,000									24,000	24,000	24,000	24,000
Ducted Unit												
GDH09(2.6)FMK4DH												
GDH12(3.5)FMK4DH												
GDH18(5.3)FMK4DH												
GDH21(6.2)FMK4DH												
GDH24(7.0)FMK4DH												
Available in:							Match condenser by color					
9,000							9,000	9,000	9,000	9,000	9,000	9,000
12,000							12,000	12,000	12,000	12,000	12,000	12,000
18,000								18,000	18,000	18,000	18,000	18,000
21,000									21,000	21,000	21,000	21,000
24,000									24,000	24,000	24,000	24,000
4-Way Cassette Unit												
GKH12(3.5)FMK4DH												
GKH18(5.3)FMK4DH												
GKH24(7.0)FMK4DH												
Available in:							Match condenser by color					
12,000							12,000	12,000	12,000	12,000	12,000	12,000
18,000								18,000	18,000	18,000	18,000	18,000
24,000									24,000	24,000	24,000	24,000
Console Unit												
GCH09(2.6)FMK4DH												
GCH12(3.5)FMK4DH												
GCH18(5.3)FMK4DH												
Available in:							Match condenser by color					
9,000							9,000	9,000	9,000	9,000	9,000	9,000
12,000							12,000	12,000	12,000	12,000	12,000	12,000
18,000								18,000	18,000	18,000	18,000	18,000
Floor/Ceiling Unit												
GFH09(2.6)FMK4DH												
GFH12(3.5)FMK4DH												
GFH18(5.3)FMK4DH												
GFH24(7.0)FMK4DH												
Available in:							Match condenser by color					
9,000							9,000	9,000	9,000	9,000	9,000	9,000
12,000							12,000	12,000	12,000	12,000	12,000	12,000
18,000								18,000	18,000	18,000	18,000	18,000
24,000									24,000	24,000	24,000	24,000

Using combinations other than directed is expressly prohibited. Contact a licensed HVAC contractor.

Flex Match - Product Specifications



Heat Pump Condenser Outdoor Unit

Model	Heat Pump		GXH18(5.3)FMK4DH	GXH24(7.0)FMK4DH	GXH30(8.8)FMK4DH
Capacity	Cooling	Btu/h	18000	26000	29000
	Heating	Btu/h	19000	29000	31600
SEER/HSPF			22.0/9.0	20.5/10.2	21/10.2
Power Supply		Ph-V-Hz	1-208/230-60		
Power Input	Cooling	kW	1.65	2.74	2.42
	Heating	kW	1.61	2.32	2.47
Refrigerant Charge Volume		lb (kg)	3.5 (1.6)	4.9 (2.2)	6.2 (2.8)
Sound Pressure Level		dB(A)	63	59	
Dimension (WxDxH)	Outline	inch	37 x 16 x 28	39 x 17 x 31	
	Package	inch	41 x 18 x 30	43 x 19 x 34	
Net Weight/Gross Weight		lb (kg)	114/123 (52/56)	153/164 (69.5/74.5)	145/154 (66/70)
Connecting Pipe Diameter	Gas	inch (mm)	3/8 (9.52)		
	Liquid	inch (mm)	1/4 (6)		
Maximum Equivalent Connection Pipe Length		ft (m)	66 (20)	197 (60)	230 (70)
Maximum Drive Indoor Unit Number		Unit	2	3	4
Loading Quantity	40'GP/40'HQ	-	171/171	96/144	132/160

Model	Heat Pump		GXH36(10.6)FMK4DH	GXH42(12.3)FMK4DH
Capacity	Cooling	Btu/h	34000	39000
	Heating	Btu/h	42500	45000
SEER/HSPF			21/10.2	
Power Supply		Ph-V-Hz	1-208/230-60	
Power Input	Cooling	kW	2.8	3.74
	Heating	kW	3.35	3.65
Refrigerant Charge Volume		lb (kg)	8.0 (3.65)	
Sound Pressure Level		dB(A)	61	
Dimension (WxDxH)	Outline	inch	43 x 17 x 43	
	Package	inch	46 x 19 x 48	
Net Weight/Gross Weight		lb (kg)	198/216 (90/98)	
Connecting Pipe Diameter	Gas	inch (mm)	3/8 (9.52)	
	Liquid	inch (mm)	1/4 (6)	
Maximum Equivalent Connection Pipe Length		ft (m)	246 (75)	
Maximum Drive Indoor Unit Number		Unit	5	
Loading Quantity	40'GP/40'HQ	-	54/54	

Flex Match - Product Specifications

Wall-Mounted Type Indoor Unit



Model			GHH09(2.6)LUK4DH	GHH12(3.5)LUK4DH	GHH18(5.3)LUK4DH	GHH24(7.0)LUK4DH
Capacity	Cooling	Btu/h	9000	12000	18000	21400
	Heating	Btu/h	9800	13000	19790	23000
Power Supply		Ph-V-Hz	1-208/230-60			
Airflow Volume		m ³ /h	520/470/430/370	570/470/430/370	850/780/650/550	1000/800/700/600
		CFM	306/277/253/218	355/277/253/218	500/459/383/324	589/471/412/353
Sound Pressure Level (H/M/L/SL)		dB(A)	42/38/35/32	44/39/36/33	49/44/40/35	53/45/41/37
Connecting Pipe	Gas	inch (mm)	3/8 (9.52)		1/2 (12)	5/8 (16)
	Liquid	inch (mm)	1/4 (6)			
Dimension (WxHxD)	Outline	inch	32 x 7 x 11		37 x 8 x 12	40 x 12 x 9
	Package	inch	36 x 15 x 10		40 x 11 x 16	42 x 16 x 13
Net Weight/Gross Weight		lb (kg)	22/28 (10/12.5)		28/35 (13/16)	30/37 (13.5/17)
Loading Quantity	20'GP	sets	318		254	210
	40'GP/40'HQ	sets	684/798		524/617	434/496

Floor/Ceiling Type Indoor Unit



Model			GFH09(2.6)FMK4DH	GFH12(3.5)FMK4DH	GFH18(5.3)FMK4DH	GFH24(7.0)FMK4DH
Capacity	Cooling	Btu/h	8533	11900	13000	22780
	Heating	Btu/h	9500	13100	18700	27200
Power Supply		Ph-V-Hz	1-208/230-60			
Airflow Volume		m ³ /h	650		950	1250
		CFM	383		559	736
Sound Pressure Level (H/L)		dB(A)	40/36		45/40	48/44
Connecting Pipe	Gas	inch (mm)	3/8 (9.52)		1/2 (12)	5/8 (16)
	Liquid	inch (mm)	1/4 (6)			3/8 (9.52)
Dimension (WxHxD)	Outline	inch	48 x 28 x 9			
	Package	inch	53 x 32 x 12			
Net Weight/Gross Weight		lb (kg)	88/110 (40/50)			99/119 (45/54)
Loading Quantity	20'GP	-	66			
	40'GP/40'HQ	-	132/132			

Flex Match - Product Specifications

Cassette Type Indoor Unit



Model			GKH12(3.5)FMK4DH	GKH18(5.3)FMK4DH	GKH24(7.0)FMK4DH
Capacity	Cooling	Btu/h	12000	14400	22800
	Heating	Btu/h	13000	16000	27400
Power Supply		Ph-V-Hz	1-208/230-60		
Airflow Volume		m ³ /h	600		1180
		CFM	353		694
Sound Pressure Level (H/M/L)		dB(A)	46/44/42		39/37/35
Connecting Pipe	Gas	inch (mm)	3/8 (9.52)	1/2 (12)	5/8 (16)
	Liquid	inch (mm)	1/4 (6)		3/8 (9.52)
Main Body	Dimension (WxDxH)	Outline	22 x 22 x 9		33 x 33 x 9
		Package	34 x 29 x 13		38 x 38 x 13
Panel	Net Weight/Gross Weight		39/50 (18/23)		62/77 (28.0/35.0)
	Dimension (WxDxH)	Outline	25 x 25 x 2		37 x 37 x 2
		Package	29 x 26 x 4		41 x 40 x 5
Loading Quantity	Net Weight/Gross Weight		5.5/8 (2.5/3.65)		14/22 (6.5/10)
	20'GP		102		40
	40'GP/40'HQ		209/246		108/128

Console Type



Model			GCH09(2.6)FMK4DH	GCH12(3.5)FMK4DH	GCH18(5.3)FMK4DH
Capacity	Cooling	Btu/h	2.6	3.5	5.3
	Heating	Btu/h	2.8	3.8	5.8
Power Supply		Ph-V-Hz	1-208/230-60		
Airflow Volume		m ³ /h	500	600	650
		CFM	294	353	383
Sound Pressure Level (H/L)		dB(A)	40/38/36/33/30/27/25	42/40/38/37/35/32/27	48/46/44/41/37/35/32
Connecting Pipe	Gas	inch (mm)	3/8 (9.52)		1/2 (12)
	Liquid	inch (mm)	1/4 (6)		
Dimension (WxHxD)	Outline	inch	28 x 8 x 24		
	Package	inch	31 x 11 x 27		
Net Weight/Gross Weight		lb (kg)	33/40 (15/18)		
Loading Quantity	20'GP		181		
	40'GP/40'HQ		381/454		

Flex Match - Product Specifications

Ducted Type Indoor Unit









Model			GDH09(2.6)FMK4DH	GDH12(3.5)FMK4DH	GDH18(5.3)FMK4DH
Capacity	Cooling	Btu/h	8500	11900	15300
	Heating	Btu/h	9500	13100	18700
Power Supply		Ph-V-Hz	1-208/230-60		
Airflow Volume	m ³ /h		450	550	700
	CFM		265	324	412
Sound Pressure Level (H/L)		dB(A)	37/31	39/32	41/33
Connecting Pipe	Gas	inch (mm)	3/8 (9.52)		1/2 (12)
	Liquid	inch (mm)	1/4 (6.35)		
Dimension (WxHxD)	Outline	inch	27.5 x 24 x 8		35 x 24 x 8
	Package	inch	35 x 29 x 12		44 x 29 x 12
Net Weight/Gross Weight		lb (kg)	49/60 (22/27)	51/64 (23/29)	60/79 (27/36)
Loading Quantity	20'GP	–	108		90
	40'GP/40'HQ	–	234/234		180/180

Model			GDH21(6.2)FMK4DH	GDH24(7.0)FMK4DH
Capacity	Cooling	Btu/h	20400	23800
	Heating	Btu/h	600	400
Power Supply		Ph-V-Hz	1-208/230-60	
Airflow Volume	m ³ /h		1000	
	CFM		588.5	
Sound Pressure Level (H/L)		dB(A)	42/34	
Connecting Pipe	Gas	inch (mm)	5/8 (16)	
	Liquid	inch (mm)	3/8 (9.52)	
Dimension (WxHxD)	Outline	inch	43 x 24 x 8	
	Package	inch	52 x 29 x 12	
Net Weight/Gross Weight		lb (kg)	68/90 (31/41)	
Loading Quantity	20'GP	–	72	
	40'GP/40'HQ	–	162/162	

Flex Match - Multi-Zone Mini-Split Controls

Control System Lineup

Controlling System	Product Series	Image	Wall Mounted Type	Ducted Type	Cassette Type	Floor Ceiling Type	Console Type
Wireless Remote Control	WLRC4		●				
	WLRC3			●	●	●	
	WLRC5		●				
	WLRC6						●
Wired Control	WRC3			●	●	●	
	WRC4		●				

Note: ● standard ● optional

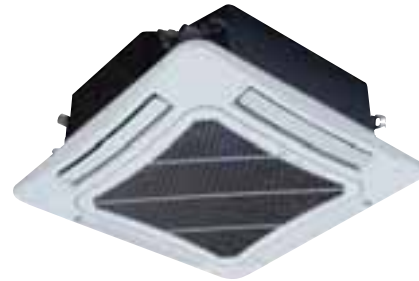
U-Match Light Commercial Single-Zone Heat Pump Systems

Large Capacity Single-Zone Heat Pump Systems - 18K - 48K BTU - Up to 20 SEER

Outdoor unit can be freely connected to different types of indoor units according to various indoor load and decoration requirements.

Inverter

R410-A



- Highly reliable compressor which is capable of operating under extreme conditions.
- Dual ambient temperature sensor design makes a precision temperature monitoring.
- Power delay control design dramatically reduces start-up current.

U-Match Light Commercial Single-Zone Heat Pump Systems

Ducted Unit

- Flexible air in/outlet and condensate outlet direction according to different installation requirements.
- Flexible design for installation, the air return can be either from the bottom or rear, as well as the alternative drain water connections.
- Optimized air duct design improves the performance and lowers the noise.

Cassette Type

- Drain pump fitted as standard with increased lift of 1100mm (3.6ft.).
- Special low noise fan design.
- Different swing angle design for cooling and heating mode provides better comfort.

Floor/Ceiling Type

- 3-D air flue design.
- Easy replacement of motor and fan blade thanks to clamp block propeller design.
- Different swing angle design for cooling and heating mode provides better comfort.

Item	Nominal Operating Condition (Temperature)				Operation Range (Temperature)
	Outdoor Condition		Indoor Condition		Outdoor Condition
	DB (°F)	WB (°F)	DB (°F)	WB (°F)	WB (°F)
Cooling	95	75	80	67	70~125
Heating	47	43	70	60	19~75

Key Features	
Maximum # of Indoor Units	1 to 1 match
Maximum Pipe Length ft./m	164ft./50m
Ph-V-Hz	1-220/240-50/60
Cooling/Heating Range F(C)	0°F(-18°C)/0°F(-18°C)

U-Match Light Commercial Single-Zone Heat Pump Systems

U-Match Lineup



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Capacity Index (Btu/h)		18K	24K	30K
Outdoor Unit		 GXH18(5.3)USV4DH	 GXH24(7.0)USV4DH	 GXH30(8.8)USV4DH
Indoor Unit	Ducted	 GDU18(5.3)USV4DH	 GDU24(7.0)USV4DH	 GDU30(8.8)USV4DH
	Cassette	 GKU18(5.3)USV4DH	 GKU24(7.0)USV4DH	 GKU30(8.8)USV4DH
	Floor/Ceiling	 GFU18(5.3)USV4DH	 GFU24(7.0)USV4DH	 GFU30(8.8)USV4DH

Capacity Index (Btu/h)		36K	42K	48K
Outdoor Unit		 GXH36(10.6)USV4DH	 GXH42(12.3)USV4DH	 GXH48(14.1)USV4DH
Indoor Unit	Ducted	 GDU36(10.6)USV4DH	 GDU42(12.3)USV4DH	 GDU48(14.1)USV4DH
	Cassette	 GKU36(10.6)USV4DH	 GKU42(12.3)USV4DH	 GKU48(14.1)USV4DH
	Floor/Ceiling	 GFU36(10.6)USV4DH	 GFU42(12.3)USV4DH	 GFU48(14.1)USV4DH

U-Match Light Commercial Single-Zone Heat Pump Systems

Heat Pump - 18K to 48K BTU



R410-A

Model	Outdoor Unit		GXH18(5.3)USV4DH		
	Indoor Unit		GDH18(5.3)USV4DH	GKH18(5.3)USV4DH	GFH18(5.3)USV4DH
Function			Ducted	Cassette	Floor Ceiling
Capacity					
Cooling	Btu/h	17100			
Heating	Btu/h	18800	18400	19100	
SEER/HSPF	Btu/h	16.00/9.50	16.00/9.00	17.00/9.50	
Electrical Data/Refrigerant Charge					
Power Supply	Ph-V-Hz		1-208/230-60		
Power Input	Cooling	kW	1.55	1.70	1.55
	Heating	kW	1.65	1.80	1.55
Current Input	Cooling	A	7.93	8.70	7.93
	Heating	A	8.44	9.21	7.93
Refrigerant Charge Volume	kg/oz		1.4/49.4		
Indoor Unit					
Air Pressure Level	CFM		585	445	585
	m3/h		1000	760	1000
External Static Pressure	Rated	Pa	25	—	
	Range	Pa	0-30	—	
Sound Pressure Level (H/M/L)	dB(A)		39/36/28	46/44/37	42/38/32
Outline Dimension	WxDxH	mm	1037 x 721 x 266	665 x 596 x 240	1220 x 700 x 225
Package Dimension	WxDxH	mm	1123 x 798 x 323	773 x 733 x 300	1343 x 823 x 315
Net Weight/Gross Weight	Indoor	kg	33.0/38.0	20.0/24.0	39.0/48.0
Panel					
Outline Dimension	WxDxH	mm	—	670 x 670 x 50	—
Package Dimension	WxDxH	mm	—	763 x 763 x 105	—
Net Weight/ Gross Weight	kg		—	3.5/5.0	—
Outdoor Unit					
Sound Pressure Level (H/M/L)	dB(A)		56/—/—		
Outline Dimension	(WxDxH)	mm	955 x 396 x 700		
Package Dimension	(LxWxH)	mm	1029 x 458 x 750		
Net Weight/ Gross Weight	kg		48.0/52.0		
Connecting Pipe Diameter					
Outdoor Diameter	Gas Pipe	inch (mm)	1/2 (12)		
	Liquid Pipe	inch (mm)	1/4 (6)		
Maximum Distance	Height/Length	m	15/50		
Loading Quantity (within panel)	40'GP	set	93	95	89
	40'HQ	set	95	105	97

U-Match Light Commercial Single-Zone Heat Pump Systems

Heat Pump - 18K to 48K BTU (continued)



R410-A

Model	Outdoor Unit		GXH24(7.0)USV4DH		
	Indoor Unit		GDH24(7.0)USV4DH	GKH24(7.0)USV4DH	GFH24(7.0)USV4DH
Function			Ducted	Cassette	Floor Ceiling
Capacity					
Cooling	Btu/h	23800			
Heating	Btu/h	27200			
SEER/HSPF	Btu/h	16.00/10.00	18.00/10.00	16.00/10.00	
Electrical Data/Refrigerant Charge					
Power Supply	Ph-V-Hz		1-208/230-60		
Power Input	Cooling	kW	2.23		
	Heating	kW	2.36		
Current Input	Cooling	A	11.41		
	Heating	A	12.07		
Refrigerant Charge Volume	kg/oz		2.2/77.6		
Indoor Unit					
Air Pressure Level	CFM		820	765	705
	m3/h		1400	1300	1200
External Static Pressure	Rated	Pa	25	—	
	Range	Pa	0-75	—	
Sound Pressure Level (H/M/L)	dB(A)		46/44/40	46/42/38	48/46/40
Outline Dimension	WxDxH	mm	1279 x 558 x 268	917 x 840 x 240	1220 x 700 x 225
Package Dimension	WxDxH	mm	1348 x 597 x 283	1148 x 958 x 340	1343 x 823 x 315
Net Weight/Gross Weight	Indoor	kg	34.0/39.0	27.0/38.0	40.0/50.0
Panel					
Outline Dimension	WxDxH	mm	—	952 x 952 x 60	—
Package Dimension	WxDxH	mm	—	1033 x 1038 x 133	—
Net Weight/ Gross Weight	kg		—	7.0/11.0	—
Outdoor Unit					
Sound Pressure Level (H/M/L)	dB(A)		57/—/—		
Outline Dimension	(WxDxH)	mm	980 x 427 x 790		
Package Dimension	(LxWxH)	mm	1083 x 488 x 855		
Net Weight/ Gross Weight	kg		69.0/74.0		
Connecting Pipe Diameter					
Outdoor Diameter	Gas Pipe	inch (mm)	5/8 (16)		
	Liquid Pipe	inch (mm)	3/8 (9.52)		
Maximum Distance	Height/Length	m	15/50		
Loading Quantity (within panel)	40'GP	set	70	56	70
	40'HQ	set	86	71	86

U-Match Light Commercial Single-Zone Heat Pump Systems

Heat Pump - 18K to 48K BTU (continued)



R410-A

Model	Outdoor Unit		GXH30(8.8)USV4DH		
	Indoor Unit		GDH30(8.8)USV4DH	GKH30(8.8)USV4DH	GFH30(8.8)USV4DH
Function			Ducted	Cassette	Floor Ceiling
Capacity					
Cooling	Btu/h	28200			
Heating	Btu/h	31200			
SEER/HSPF	Btu/h/W	16.00/9.00	20.00/9.00	17.00/9.00	
Electrical Data/Refrigerant Charge					
Power Supply	Ph-V-Hz	1-208/230-60			
Power Input	Cooling	kW	3.30	2.70	2.40
	Heating	kW	3.10	2.50	2.60
Current Input	Cooling	A	16.88	13.81	12.28
	Heating	A	15.86	12.79	13.30
Refrigerant Charge Volume	kg/oz	2.4/84.7			
Indoor Unit					
Air Pressure Level	CFM	820	880		
	m3/h	1400	1500		
External Static Pressure	Rated	Pa	37	—	
	Range	Pa	0-75	—	
Sound Pressure Level (H/M/L)	dB(A)	46/44/40	48/45/40	46/44/38	
Outline Dimension	WxDxH	mm	1279 x 558 x 268	917 x 840 x 320	1420 x 700 x 245
Package Dimension	WxDxH	mm	1348 x 597 x 283	1148 x 958 x 420	1548 x 828 x 345
Net Weight/Gross Weight	Indoor	kg	35.0/39.0	32.0/44.0	48.0/56.0
Panel					
Outline Dimension	WxDxH	mm	—	952 x 952 x 60	—
Package Dimension	WxDxH	mm	—	1033 x 1038 x 133	—
Net Weight/ Gross Weight		kg	—	7.0/11.0	—
Outdoor Unit					
Sound Pressure Level (H/M/L)	dB(A)	56/—/— 58/—/—			
Outline Dimension	(WxDxH)	mm	980 x 427 x 790		
Package Dimension	(LxWxH)	mm	1083 x 488 x 855		
Net Weight/ Gross Weight		kg	72.0/77.0		
Connecting Pipe Diameter					
Outdoor Diameter	Gas Pipe	inch (mm)	5/8 (16)		
	Liquid Pipe	inch (mm)	3/8 (9.52)		
Maximum Distance	Height/Length	m	15/50		
Loading Quantity (within panel)	40'GP	set	49		
	40'HQ	set	69		

U-Match Light Commercial Single-Zone Heat Pump Systems

Heat Pump - 18K to 48K BTU (continued)



R410-A

Model	Outdoor Unit		GXH36(10.6)USV4DH		
	Indoor Unit		GDH36(10.6)USV4DH	GKH36(10.6)USV4DH	GFH36(10.6)USV4DH
Function			Ducted	Cassette	Floor Ceiling
Capacity					
Cooling	Btu/h		34000		
Heating	Btu/h		41000		
SEER/HSPF	Btu/h/W		16.00/9.00		
Electrical Data/Refrigerant Charge					
Power Supply	Ph-V-Hz		1-208/230-60		
Power Input	Cooling	kW	3.28		
	Heating	kW	3.75		
Current Input	Cooling	A	16.78		
	Heating	A	19.18		
Refrigerant Charge Volume	kg/oz		3.5/123.5		
Indoor Unit					
Air Pressure Level	CFM		175	1095	1115
	m3/h		2000	1860	1900
External Static Pressure	Rated	Pa	37	—	
	Range	Pa	0-100	—	
Sound Pressure Level (H/M/L)		dB(A)	52/48/44	49/46/43	53/51/46
Outline Dimension	WxDxH	mm	1226 x 775 x 290	917 x 840 x 320	1420 x 700 x 245
Package Dimension	WxDxH	mm	1338 x 877 x 305	1148 x 958 x 420	1548 x 828 x 345
Net Weight/Gross Weight	Indoor	kg	46.0/53.0	32.0/44.0	48.0/56.0
Panel					
Outline Dimension	WxDxH	mm	—	952 x 952 x 60	—
Package Dimension	WxDxH	mm	—	1033 x 1038 x 133	—
Net Weight/ Gross Weight		kg	—	7.0/11.0	—
Outdoor Unit					
Sound Pressure Level (H/M/L)		dB(A)	63/—/—		
Outline Dimension	(WxDxH)	mm	1107 x 440 x 1100		
Package Dimension	(LxWxH)	mm	1158 x 493 x 1235		
Net Weight/ Gross Weight		kg	93.0/101.0		
Connecting Pipe Diameter					
Outdoor Diameter	Gas Pipe	inch (mm)	5/8 (16)		
	Liquid Pipe	inch (mm)	3/8 (9.52)		
Maximum Distance	Height/Length	m	15/50		
Loading Quantity (within panel)	40'GP	set	45	46	45
	40'HQ	set	60	49	56

U-Match Light Commercial Single-Zone Heat Pump Systems

Heat Pump - 18K to 48K BTU (continued)



R410-A

Model	Outdoor Unit		GXH42(12.3)USV4DH		
	Indoor Unit		GDH42(12.3)USV4DH	GKH42(12.3)USV4DH	GFH42(12.3)USV4DH
Function			Ducted	Cassette	Floor Ceiling
Capacity					
Cooling	Btu/h		39500		
Heating	Btu/h		44000		
SEER/HSPF	Btu/h/W		16.00/9.00		
Electrical Data/Refrigerant Charge					
Power Supply	Ph-V-Hz		1-208/230-60		
Power Input	Cooling	kW	4.15	4.40	4.05
	Heating	kW	3.90	4.45	4.05
Current Input	Cooling	A	21.23	22.51	20.72
	Heating	A	19.95	22.76	20.72
Refrigerant Charge Volume	kg/oz		3.7/130.5		
Indoor Unit					
Air Pressure Level	CFM		1175	1095	1115
	m3/h		2000	1860	1900
External Static Pressure	Rated	Pa	37	—	
	Range	Pa	0-100	—	
Sound Pressure Level (H/M/L)	dB(A)		52/48/44	49/46/43	54/52/47
Outline Dimension	WxDxH	mm	1226 x 775 x 290	917 x 840 x 320	1420 x 700 x 245
Package Dimension	WxDxH	mm	1338 x 877 x 305	1148 x 958 x 420	1548 x 828 x 345
Net Weight/Gross Weight	Indoor	kg	46.0/53.0	32.0/44.0	50.0/58.0
Panel					
Outline Dimension	WxDxH	mm	—	952 x 952 x 60	—
Package Dimension	WxDxH	mm	—	1033 x 1038 x 133	—
Net Weight/ Gross Weight	kg		—	7.0/11.0	—
Outdoor Unit					
Sound Pressure Level (H/M/L)	dB(A)		61/—/—		
Outline Dimension	(WxDxH)	mm	958 x 412 x 1349		
Package Dimension	(LxWxH)	mm	1043 x 453 x 1500		
Net Weight/ Gross Weight	kg		95.0/105.0		
Connecting Pipe Diameter					
Outdoor Diameter	Gas Pipe	inch (mm)	5/8 (16)		
	Liquid Pipe	inch (mm)	3/8 (9.52)		
Maximum Distance	Height/Length	m	15/50		
Loading Quantity (within panel)	40'GP	set	52	40	43
	40'HQ	set	58	48	47

U-Match Light Commercial Single-Zone Heat Pump Systems

Heat Pump - 18K to 48K BTU (continued)



R410-A

Model	Outdoor Unit		GXH48(14.1)USV4DH		
	Indoor Unit		GDH48(14.1)USV4DH	GKH48(14.1)USV4DH	GFH48(14.1)USV4DH
Function			Ducted	Cassette	Floor Ceiling
Capacity					
Cooling	Btu/h		48000		
Heating	Btu/h		54500		
SEER/HSPF	Btu/h/W		16.00/9.00		
Electrical Data/Refrigerant Charge					
Power Supply		Ph-V-Hz	1-208/230-60		
Power Input	Cooling	kW	5.15	5.50	4.95
	Heating	kW	5.15	4.80	4.60
Current Input	Cooling	A	26.34	28.13	25.32
	Heating	A	26.34	24.55	23.53
Refrigerant Charge Volume		kg/oz	4.0/141.1		
Indoor Unit					
Air Pressure Level		CFM	1470	1350	
		m3/h	2500	2300	
External Static Pressure	Rated	Pa	50	—	
	Range	Pa	0-125	—	
Sound Pressure Level (H/M/L)		dB(A)	53/49/45	52/47/41	55/50/46
Outline Dimension	WxDxH	mm	1340 x 750 x 350	910 x 910 x 290	1700 x 700 x 245
Package Dimension	WxDxH	mm	1423 x 837 x 455	1023 x 993 x 375	1828 x 828 x 345
Net Weight/Gross Weight	Indoor	kg	56.0/65.0	43.0/50.0	59.0/68.0
Panel					
Outline Dimension	WxDxH	mm	—	1040 x 1040 x 65	—
Package Dimension	WxDxH	mm	—	1137 x 1137 x 140	—
Net Weight/ Gross Weight		kg	—	8.0/12.0	—
Outdoor Unit					
Sound Pressure Level (H/M/L)		dB(A)	59/—/—		
Outline Dimension	(WxDxH)	mm	958 x 412 x 1349		
Package Dimension	(LxWxH)	mm	1043 x 453 x 1500		
Net Weight/ Gross Weight		kg	105.0/115.0		
Connecting Pipe Diameter					
Outdoor Diameter	Gas Pipe	inch (mm)	5/8 (16)		
	Liquid Pipe	inch (mm)	3/8 (9.52)		
Maximum Distance	Height/Length	m	15/70		
Loading Quantity (within panel)	40'GP	set	38	43	
	40'HQ	set	48	50	

U-Match Light Commercial Single-Zone Heat Pump Systems

Control System Lineup

Controlling System	Product Series	Ducted Type	Cassette Type	Floor Ceiling Type
Wireless Remote Control	WLRC2 	●	●	●
Wired Control	WRC2 	●	●	●

Note: ● standard ● optional

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Standing behind your Investment

Gibson mini-split and multi-zone air conditioners and heat pumps offer a 5-Year limited parts warranty. Compressors carry a 7-Year warranty. To learn more about our product warranties, ask your Gibson contractor.



ENERGY STAR Partner Certificate



AHRI 210-240 Air Conditioner Certificate



AHRI 210-240 Heat Pump Certificate



American and Canadian ETL

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