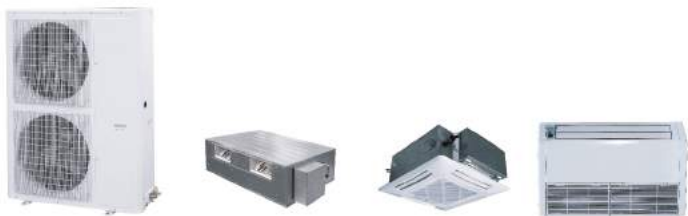




# U-Match

## High Efficiency Series

It is a kind of split system that the outdoor unit can be freely connected to different types of indoor units according to various indoor decoration requirements.



- Built-in drain pump
- High efficiency
- Intelligent defrosting
- Anti-cold function
- Comprehensive protection
- Compact design
- Easier maintainability

- Double ambient temperature sensor design makes a precision temperature monitoring.
- Low start-up current thanks to power delay control design.
- Higher efficiency thanks to sine wave DC inverter compressor control.
- High reliability and easy maintenance thanks to one piece integrated PCB board.
- Stable cooling under -15°C and heating under -10°C outdoor environment temperature.



### Indoor Unit

Duct type	Cassette type	Floor ceiling type
<ul style="list-style-type: none"> <li>• Drain pump fitted as optional with increased lift of 1100mm.</li> <li>• Fresh air inlet and air valve control function improve the indoor air quality.</li> <li>• Flexible air in/outlet and condensing water outlet direction according to different installation requirements.</li> <li>• Optimized air duct design improves the performance and lower the noise.</li> </ul>	<ul style="list-style-type: none"> <li>• Drain pump fitted as standard with increased lift of 1100mm.</li> <li>• Special low noise fan design.</li> <li>• Different swing angle design for cooling and heating mode for better comfort.</li> </ul>	<ul style="list-style-type: none"> <li>• 3-D air flue design.</li> <li>• Easy replacement of motor and fan blade thanks to clamp block propeller design.</li> <li>• Different swing angle design for cooling and heating mode for better comfort.</li> </ul>

Item	Nominal operating condition (temperature)				Operation range (temperature)
	Outdoor condition		Indoor condition		Outdoor condition
	DB (°C)	WB (°C)	DB (°C)	WB (°C)	DB (°C)
Cooling	35	24	27	19	-15~48
Heating	7	6	20	-	-10~24

### Indoor Units Lineup

Capacity Index (BTU/h)		9K	12K	18K	24K	30K	
Outdoor Unit	Model	GUHD09NK3FO	GUHD12NK3FO	GUHD18NK3FO	GUHD24NK3FO	GUHD30NK3FO	
	Picture						
Indoor Unit	Duct	Model	GFH09K3FI	GFH12K3FI	GFH18K3FI	GFH24K3FI	GFH30K3FI
	Picture						
	Cassette	Model	---	GKH12K3FI	GKH18K3FI	GKH24K3FI	GKH30K3FI
Picture	---						
Floor Ceiling	Model	GTH09K3FI	GTH12K3FI	GTH18K3FI	GTH24K3FI	GTH30K3FI	
	Picture						









































Capacity Index (BTU/h)		36K	42K	48K	60K				
Outdoor Unit	Model	GUHD36NK3FO / GUHD36NM3FO	GUHD42NK3FO / GUHD42NM3FO	GUHD48NK3FO / GUHD48NM3FO	GUHD60NM3FO				
	Picture								
Indoor Unit	Duct	Model	GFH36K3FI	GFH36K3FI	GFH42K3FI	GFH42K3FI	GFH48K3FI	GFH48K3FI	GFH60K3FI
	Picture								
	Cassette	Model	GKH36K3FI	GKH36K3FI	GKH42K3FI	GKH42K3FI	GKH48K3FI	GKH48K3FI	GKH60K3FI
Picture	---								
Floor Ceiling	Model	GTH36K3FI	GTH36K3FI	GTH42K3FI	GTH42K3FI	GTH48K3FI	GTH48K3FI	GTH60K3FI	
	Picture								



Model	Outdoor unit			GUHD47NM3FO			GUHD48NK3FO		
	Indoor unit		Duct GFH42K3FI	Cassette GKH42K3FI	Floor Ceiling GTH42K3FI	Duct GFH48K3FI	Cassette GKH48K3FI	Floor Ceiling GTH48K3FI	
Capacity	Cooling	kW	11.5	11.0	11.5	14.0	14.0	14.0	
		BTU/h	39238	37532	39238	47768	47768	47768	
SEER/SCOP	Cooling	W/W	13.5	12.5	13.5	15.5	16.0	16.0	
		Heating	BTU/h	46062	42650	46062	52886	54592	54592
Power supply	W/W	5.6/4.0	5.6/4.0	5.6/4.0	6.1/3.8	6.1/3.8	5.6/3.8		
Power input	Cooling	kW	4.0	3.9	3.9	4.7	4.6	4.8	
		Heating	kW	3.9	3.6	3.74	4.4	4.5	4.3
Current input	Cooling	A	8.9	8.7	8.7	21.8	21.3	22.3	
		Heating	A	6.7	6.6	6.5	20.4	20.8	20.0
Refrigerant charge volume	kg	3.7	3.7	3.7	4.0	4.0	4.0		
Indoor unit	Air flow volume(HML)		CFM	1238	1265	1118	1412	1354	
			m <sup>3</sup> /h	2100	1960	1900	2400	2300	
	ESP	Rated	Pa	37	—	—	50	—	
		Range	Pa	0-100	—	—	0-125	—	
	Sound pressure level (SH+HML)	dB(A)	53/52/48/44	51/49/46/43	55/54/52/47	55/53/49/45	53/52/47/41	56/55/50/40	
	Dimension (W×D×H)	mm	1228×775×290	840×840×320	1420×700×245	1340×750×350	910×910×290	1700×700×245	
Package	mm	1338×877×305	983×983×409	1548×828×345	1423×837×455	1023×903×375	1828×828×345		
Net weight/Gross weight	kg	46/53	31/38	50/58	56/65	43/50	59/68		
Panel	Dimension (W×D×H)	mm	—	950×950×60	—	1040×1040×65	—		
	Package	mm	—	1028×1043×130	—	1137×1137×140	—		
	Net weight/Gross weight	kg	—	7.0/11	—	8.0/12	—		
Outdoor unit	Sound pressure level	dB(A)	—	61	—	59	—		
	Dimension (W×D×H)	mm	—	958×412×1349	—	958×412×1349	—		
	Package	mm	—	1043×453×1500	—	1043×453×1500	—		
Net weight/Gross weight	kg	—	108/118	—	105/115	—			
Connection pipe	Liquid diameter	inch(mm)	—	φ3/8(9.52)	—	φ3/8(9.52)	—		
	Gas diameter	inch(mm)	—	φ5/8(15.9)	—	φ5/8(15.9)	—		
Max. distance	m	—	30/50	—	30/50	—			
Loading quantity	40'GP/40'HQ	-	52/58	45/48	43/47	38/48	43/47		

Model	Outdoor unit			GUHD48NM3FO			GUHD60NM3FO		
	Indoor unit		Duct GFH48K3FI	Cassette GKH48K3FI	Floor Ceiling GTH48K3FI	Duct GFH60K3FI	Cassette GKH60K3FI	Floor Ceiling GTH60K3FI	
Capacity	Cooling	kW	14.0	14.0	14.0	16.0	16.0	16.0	
		BTU/h	47768	47768	47768	54592	54592	54592	
SEER/SCOP	Cooling	W/W	15.5	16.0	16.0	17.0	17.0	17.0	
		Heating	BTU/h	52886	54592	54592	56296	58004	58004
Power supply	W/W	5.6/3.8	5.6/3.8	5.6/4.0	5.6/3.8	6.1/4.0	5.1/4.0		
Power input	Cooling	kW	5.10	5.15	5.20	5.80	5.70	5.75	
		Heating	kW	4.50	4.50	4.50	4.57	4.70	4.70
Current input	Cooling	A	8.80	8.80	8.60	9.70	9.80	10.0	
		Heating	A	7.80	7.80	7.60	7.80	8.2	8.2
Refrigerant charge volume	kg	4.0	4.0	4.0	5.0	5.0	5.0		
Indoor unit	Air flow volume(HML)		CFM	1412	1354	1354	1766	1412	
			m <sup>3</sup> /h	2400	2300	2300	3000	2400	
	ESP	Rated	Pa	50	—	—	50	—	
		Range	Pa	0-125	—	—	0-150	—	
	Sound pressure level (SH+HML)	dB(A)	55/53/49/45	53/52/47/41	56/55/50/46	57/56/54/49	55/53/47/41	58/56/52/46	
	Dimension (W×D×H)	mm	1340×750×330	910×910×290	1700×700×245	1340×750×350	910×910×290	1700×700×245	
Package	mm	1423×837×455	1023×903×375	1828×828×345	1423×837×455	1023×903×375	1828×828×345		
Net weight/Gross weight	kg	56/65	43/50	59/68	57/69	43/50	59/68		
Panel	Dimension (W×D×H)	mm	—	1040×1040×65	—	1040×1040×65	—		
	Package	mm	—	1137×1137×140	—	1137×1137×140	—		
	Net weight/Gross weight	kg	—	8.0/12	—	8.0/12	—		
Outdoor unit	Sound pressure level	dB(A)	—	59	—	63	—		
	Dimension (W×D×H)	mm	—	958×412×1349	—	1065×427×1365	—		
	Package	mm	—	1043×453×1500	—	1143×478×1505	—		
Net weight/Gross weight	kg	—	114/124	—	126/136	—			
Connection pipe	Liquid diameter	inch(mm)	—	φ3/8(9.52)	—	φ3/8(9.52)	—		
	Gas diameter	inch(mm)	—	φ5/8(15.9)	—	φ3/4(19.05)	—		
Max. distance	m	—	30/50	—	30/50	—			
Loading quantity	40'GP/40'HQ	-	38/48	43/50	43/47	40/40	38/48		

## Control System Lineup

Controlling system		Product series	High efficiency series		
			Duct type	Cassette type	Floor ceiling type
Wireless remote controller	YB1FA				
	YV1FB7F				
	YV1FB7				
	YB1FAF				
	YAM1F				
	YAM1FF				
Wired controller	Z4K361J				
	Z4K391CJ				
Smart zone controller	CE50-24/E				
Other modules	Optoelectronic isolated converter	RS232-RS422 V85			
	Optoelectronic isolated signal multiplier	RS-422/485			

Note: ● means standard, ○ means optional.