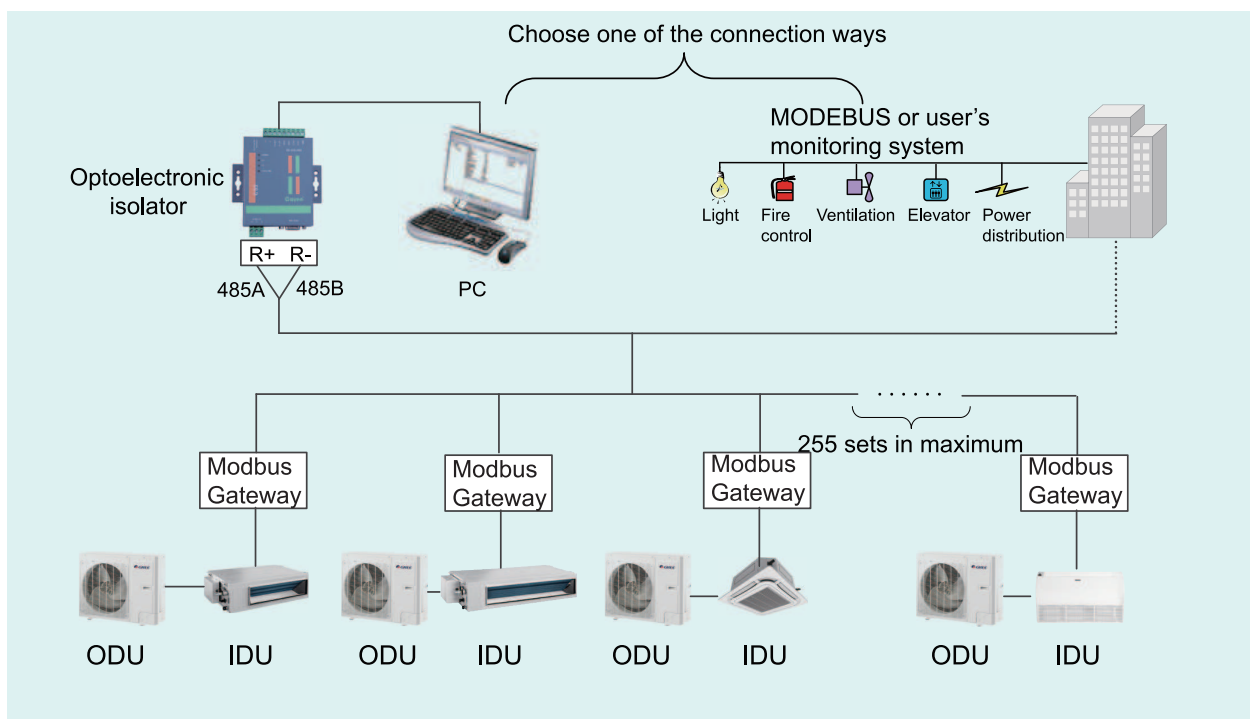


U-Match 5 SERIES AIR CONDITIONERS TSG

3.5.5 MODBUS Interface (Optional)



4 PRODUCT PARAMETERS



4.1 Cassette Type

	IDU		GUD35T/A-T	GUD50T/A-T	GUD71T/A-T	GUD85T/A-T
	ODU		GUD35W/NhA-T	GUD50W/NhA-T	GUD71W/NhA-T	GUD85W/NhA-T
Rated Capacity	Cooling	kW	3.5	5.00	7.00	8.50
	Heating	kW	4.0	5.50	8.00	8.80
Input Power	Cooling	kW	1.00	1.56	2.05	2.80
	Heating	kW	1.05	1.65	2.20	2.65
Sound Pressure Level Noise	Cooling	dB(A)	41	44	43	49
EER		W/W	3.50	3.21	3.41	3.04
SEER		—	5.90	5.90	7.20	6.10
SCOP		—	4.0	4.00	3.90	4.00
Energy Class (Cooling /Heating)		—	A+/A+	A+/A+	A++/A	A++/A+
IDU			GUD35T/A-T	GUD50T/A-T	GUD71T/A-T	GUD85T/A-T

	IDU		GUD35T/A-T	GUD50T/A-T	GUD71T/A-T	GUD85T/A-T
	ODU		GUD35W/NhA-T	GUD50W/NhA-T	GUD71W/NhA-T	GUD85W/NhA-T
Power Supply			220-240V ~50Hz;208-230V ~60Hz			
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Front Panel	Dimensions	mm	620*620	620*620	950*950	950*950
	Weight	kg	3	3	6	6
Fan Motor	Type	—	Centrifugal Fan			
	Drive	—	direct	direct	direct	direct
	Motor Output	W	30	35	35	35
	Air Volume	m ³ /h	650	700	1100	1400
Filter		—	PP		PP-MD10	
Connection Pipe	Liquid Pipe	in.	1/4	1/4	3/8	3/8
	Gas Pipe	in.	3/8	1/2	5/8	5/8
	Water Pipe	mm	Φ25*1.5	Φ25*1.50	Φ25*1.50	Φ25*1.50
Dimensions (H*W*D)	Outline	mm	265*570*570	265*570*570	240*840*840	240*840*840
	Package	mm	295*653*698	295*653*698	325*963*963	325*963*963
Weight	Net Weight	kg	17	17	29	29
	Gross Weight	kg	22	22	36	36
ODU			GUD35W/NhA-T	GUD50W/NhA-T	GUD71W/NhA-T	GUD85W/NhA-T
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Power Supply			220-240V ~50Hz;208-230V ~60Hz			
Compressor	Model		QXF-A102zE170B	QXF-B141zF030F	QXFS-D25zX090H	QXFS-D25zX090H
	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary	Inverter Rotary
	Output	W	1023	1410	2420	2420
Fan Motor	Type	—	Axial-flow			
	Air Volume	m ³ /h	3000	3000	3600	4000
	Output Power	W	—	40	—	—
Refrigerant	Type		R32			
	Weight	kg	0.78	1.00	1.60	1.80
	Throttling Method		Electronic Expansion Valve			
Connection Pipe	Liquid Pipe	in.	1/4	1/4	3/8	3/8
	Gas Pipe	in.	3/8	1/2	5/8	5/8
Refrigerant Pipe	Standard Length	m	5	5	5	5
	Max. Length	m	30	35	50	50
	Max. Height	m	15	20	25	25

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	IDU		GUD35T/A-T	GUD50T/A-T	GUD71T/A-T	GUD85T/A-T
	ODU		GUD35W/NhA-T	GUD50W/NhA-T	GUD71W/NhA-T	GUD85W/NhA-T
Dimensions (H*W*D)	Outline	mm	596*818*302	596*818*302	698*892*340	790*920*370
	Package	mm	645*948*420	645*948*420	750*1029*458	855*1083*488
Weight	Net Weight	kg	37	39	53	60
	Gross Weight	kg	40	42	57	65

	IDU		GUD100T/A-T	GUD125T/A-T	GUD140T/A-T
	ODU		GUD100W/NhA-T	GUD125W/NhA-T	GUD140W/NhA-T
Rated Capacity	Cooling	kW	10.00	12.10	13.40
	Heating	kW	12.00	13.50	15.50
Input Power	Cooling	kW	3.15	4.10	4.65
	Heating	kW	3.55	4.20	4.35
Sound Pressure Level Noise	Cooling	dB(A)	50	51	52
EER		W/W	3.17	2.95	2.88
SEER		—	6.10	6.10	6.10
SCOP		—	4.00	3.80	3.60
Energy Class (Cooling /Heating)		—	A++/A+	A++/A	A+/A
IDU			GUD100T/A-T	GUD125T/A-T	GUD140T/A-T
Power Supply			220-240V ~50Hz;208-230V ~60Hz		
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin		
Front Panel	Dimensions	mm	950*950	950*950	950*950
	Weight	kg	6	6	6
Fan Motor	Type	—	Centrifugal Fan		
	Drive	—	direct	direct	direct
	Motor Output	W	35	150	150
	Air Volume	m³/h	1500	1800	1900
Filter		—	PP-MD10		
Connection Pipe	Liquid Pipe	in.	3/8	3/8	3/8
	Gas Pipe	in.	5/8	5/8	5/8
	Water Pipe	mm	Φ25*1.50	Φ25*1.50	Φ25*1.50
Dimensions (H*W*D)	Outline	mm	240*840*840	290*840*840	290*840*840
	Package	mm	325*963*963	379*963*963	379*963*963
Weight	Net Weight	kg	31	33	36
	Gross Weight	kg	38	41	44
ODU			GUD100W/NhA-T	GUD125W/NhA-T	GUD140W/NhA-T
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin		

	IDU		GUD100T/A-T	GUD125T/A-T	GUD140T/A-T
	ODU		GUD100W/NhA-T	GUD125W/NhA-T	GUD140W/NhA-T
Power Supply			220-240V ~50Hz;208-230V ~60Hz		
Compressor	Model		QXFS-D32zX090D	QXFS-F428zX450E	QXFS-F428zX450E
	Type		Inverter Rotary	Inverter Rotary	Inverter Rotary
	Output	W	3750	4300	4300
Fan Motor	Type	—	Axial fan		
	Air Volume	m³/h	5900	5900	5900
	Output Power	W	150	—	—
Refrigerant	Type		R32		
	Weight	kg	2.50	2.65	2.80
	Throttling Method		Electronic Expansion Valve		
Connection Pipe	Liquid Pipe	in.	3/8	3/8	3/8
	Gas Pipe	in.	5/8	5/8	5/8
Refrigerant Pipe	Standard Length	m	5.00	5.00	7.50
	Max. Length	m	65	75	75
	Max. Height	m	30	30	30
Dimensions (H*W*D)	Outline	mm	820*940*460	820*940*460	820*940*460
	Package	mm	973*1083*573	973*1083*573	973*1083*573
Weight	Net Weight	kg	83	91	95
	Gross Weight	kg	95	103	107
Safety Device			High pressure switch Low pressure switch Unloading valve Outdoor fan driver overload protector Thermal protector for indoor Fan Motor Inverter overload protector Fusible plugs. Fuse	High pressure switch Low pressure switch Unloading valve Outdoor fan driver overload protector Thermal protector for indoor Fan Motor Inverter overload protector Fusible plugs. Fuse	High pressure switch Low pressure switch Unloading valve Outdoor fan driver overload protector Thermal protector for indoor Fan Motor Inverter overload protector Fusible plugs. Fuse

	IDU		GUD100T/A-T	GUD125T/A-T	GUD140T/A-T	GUD160T/A-T
	ODU		GUD100W/NhA-X	GUD125W/NhA-X	GUD140W/NhA-X	GUD160W/NhA-X
Rated Capacity	Cooling	kW	10.00	12.10	13.40	14.50
	Heating	kW	12.00	13.50	15.50	17.00
Input Power	Cooling	kW	3.00	4.05	4.70	5.20
	Heating	kW	3.40	4.15	4.45	4.80
Sound Pressure Level Noise	Cooling	dB(A)	50	51	52	54

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	IDU		GUD100T/A-T	GUD125T/A-T	GUD140T/A-T	GUD160T/A-T
	ODU		GUD100W/NhA-X	GUD125W/NhA-X	GUD140W/NhA-X	GUD160W/NhA-X
EER		W/W	3.33	2.99	2.85	2.94
SEER		—	6.10	6.10	6.10	6.10
SCOP		—	4.00	3.80	4.00	3.80
Energy Class (Cooling / Heating)		—	A++/A+	A++/A	A++/A+	A++/A
IDU			GUD100T/A-T	GUD125T/A-T	GUD140T/A-T	GUD160T/A-T
Power Supply			220-240V ~50Hz;208-230V ~60Hz			
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Front Panel	Dimensions	mm	950*950	950*950	950*950	950*950
	Weight	kg	6	6	6	6
Fan Motor	Type	—	Centrifugal Fan			
	Drive	—	direct	direct	direct	direct
	Motor Output	W	35	150	150	150
	Air Volume	m ³ /h	1500	1800	1900	2000
Filter		—	PP-MD10			
Connection Pipe	Liquid Pipe	in.	3/8	3/8	3/8	3/8
	Gas Pipe	in.	5/8	5/8	5/8	5/8
	Water Pipe	mm	Φ25*1.50	Φ25*1.50	Φ25*1.50	Φ25*1.50
Dimensions (H*W*D)	Outline	mm	240*840*840	290*840*840	290*840*840	290*840*840
	Package	mm	325*963*963	379*963*963	379*963*963	379*963*963
Weight	Net Weight	kg	31	33	36	36
	Gross Weight	kg	38	41	44	44
ODU			GUD100W/NhA-X	GUD125W/NhA-X	GUD140W/NhA-X	GUD160W/NhA-X
Heat Exchanger		—	Inner Groove Copper Tube-Aluminum Fin			
Power Supply			380-415V 3N~50Hz/60Hz			
Compressor	Model		QXFS-D32zX090C	QXFS-F428zX450I	QXFS-F428zX450I	QXFS-F428zX450I
	Type		Rotary	Rotary	Rotary	Rotary
	Output	W	3750	4300	4300	4060
Fan Motor	Type	—	Axial fan			
	Air Volume	m ³ /h	5900	5900	5900	5600
	Output Power	W	—	—	—	—
Refrigerant	Type		R32			
	Weight	kg	2.50	2.65	2.80	3.60
	Throttling Method		Electronic Expansion Valve			

	IDU		GUD100T/A-T	GUD125T/A-T	GUD140T/A-T	GUD160T/A-T
	ODU		GUD100W/NhA-X	GUD125W/NhA-X	GUD140W/NhA-X	GUD160W/NhA-X
Connection Pipe	Liquid Pipe	in.	3/8	3/8	3/8	3/8
	Gas Pipe	in.	5/8	5/8	5/8	5/8
Refrigerant Pipe	Standard Length	m	5.00	5.00	7.50	7.50
	Max. Length	m	65	75	75	75
	Max. Height	m	30	30	30	30
Dimensions (H*W*D)	Outline	mm	820*940*460	820*940*460	820*940*460	1345*900*340
	Package	mm	973*1083*573	973*1083*573	973*1083*573	1500*1048*458
Weight	Net Weight	kg	89	95	99	112
	Gross Weight	kg	101	107	111	122
Safety Device			High pressure switch Low pressure switch Unloading valve Outdoor fan driver overload protector Thermal protector for indoor Fan Motor Inverter overload protector Fusible plugs. Fuse	High pressure switch Low pressure switch Unloading valve Outdoor fan driver overload protector Thermal protector for indoor Fan Motor Inverter overload protector Fusible plugs. Fuse	High pressure switch Low pressure switch Unloading valve Outdoor fan driver overload protector Thermal protector for indoor Fan Motor Inverter overload protector Fusible plugs. Fuse	High pressure switch Low pressure switch Unloading valve Outdoor fan driver overload protector Thermal protector for indoor Fan Motor Inverter overload protector Fusible plugs. Fuse



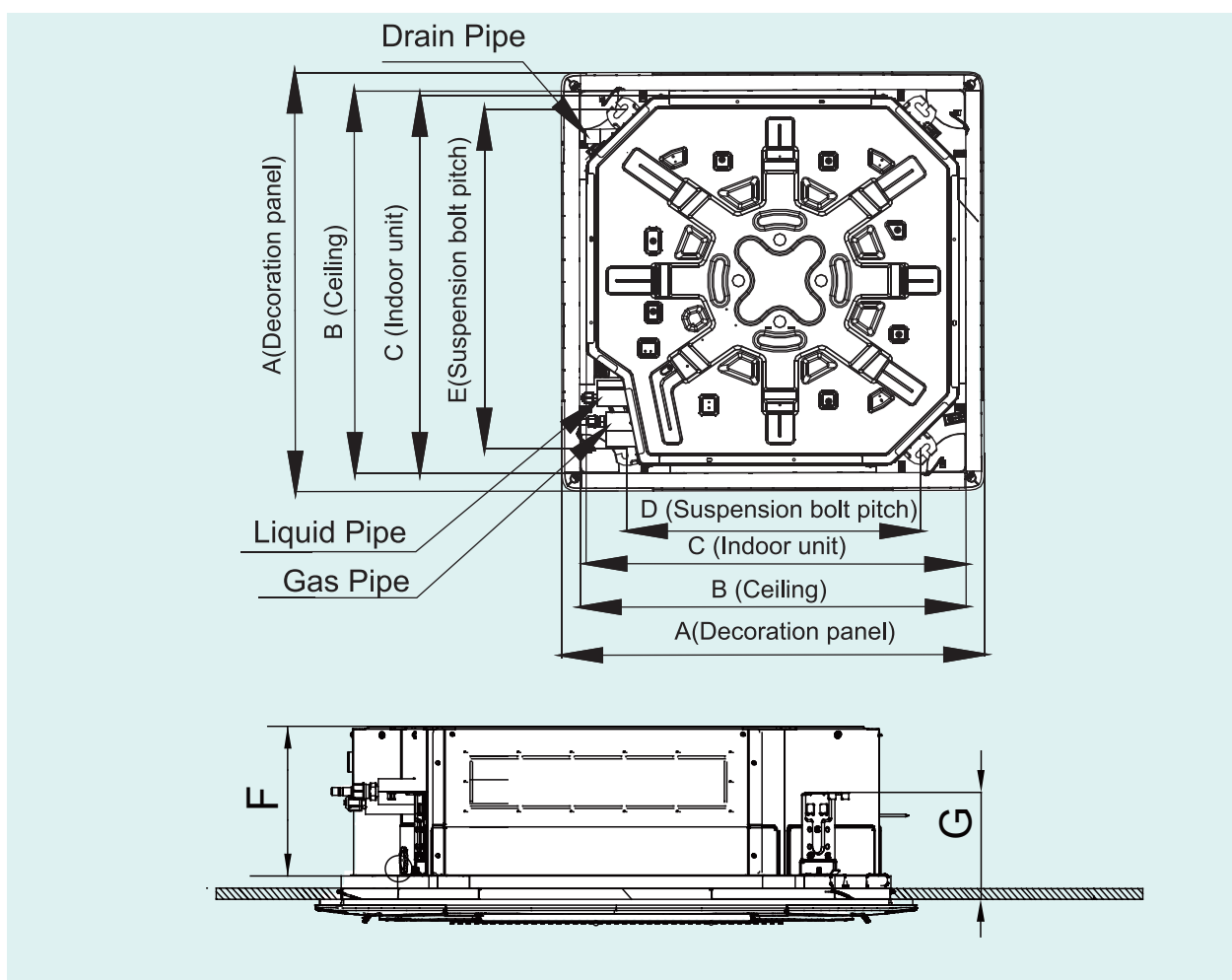
4.2 Duct Type

	IDU		GUD35P/A-T	GUD50P/A-T	GUD71P/A-T	GUD85P/A-T
			GUD35PS/A-T	GUD50PS/A-T	GUD71PS/A-T	GUD85PS/A-T
	ODU		GUD35W/NhA-T	GUD50W/NhA-T	GUD71W/NhA-T	GUD85W/NhA-T
Rated Capacity	Cooling	kW	3.50	5.00	7.00	8.50
	Heating	kW	4.00	5.50	8.00	8.80
Input Power	Cooling	kW	0.95	1.55	2.10	2.70
	Heating	kW	1.05	1.45	2.25	2.65
Sound Pressure Level Noise	Cooling	dB(A)	41	43	40	42
EER		W/W	3.68	3.23	3.33	3.15
SEER		—	6.10	6.10	6.80	6.10
SCOP		—	4.00	4.00	4.00	4.00
Energy Class (Cooling / Heating)		—	A++/A+	A++/A+	A++/A+	A++/A+
IDU			GUD35P/A-T	GUD50P/A-T	GUD71P/A-T	GUD85P/A-T
			GUD35PS/A-T	GUD50PS/A-T	GUD71PS/A-T	GUD85PS/A-T
Power Supply			220-240V ~50Hz;208-230V ~60Hz			

10 DIMENSIONS AND INSTALLATION SITE

➔ 10.1 Cassette Type

10.1.1 Dimensions

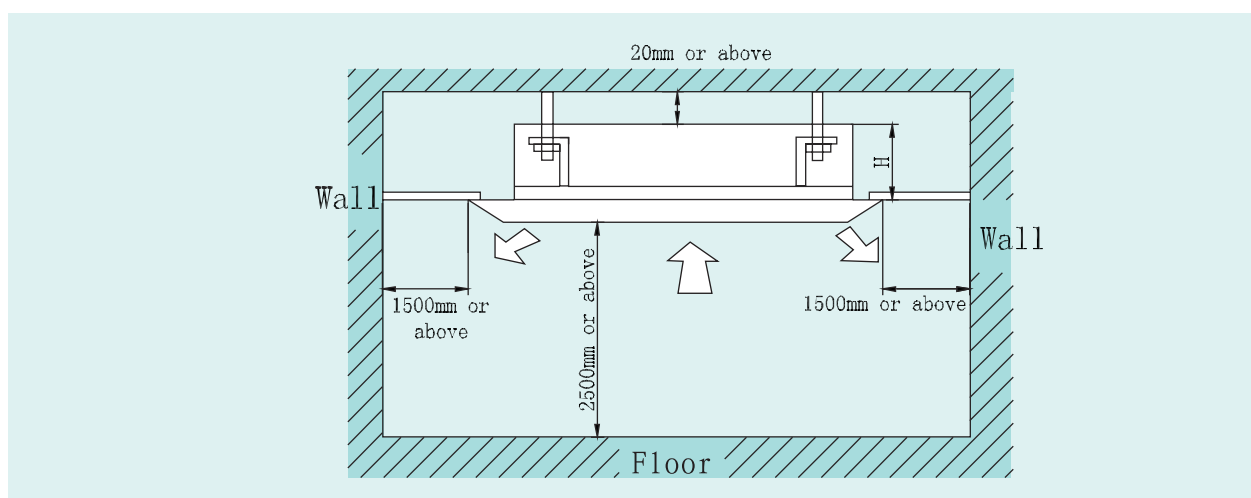


Unit: mm

Dimensions	A	B	C	D	E	F	G
Model							
GUD35T/A-T	620	580	570	520	560	265	170
GUD50T/A-T	620	580	570	520	560	265	170
GUD71T/A-T	950	870	840	660	790	240	165
GUD85T/A-T	950	870	840	660	790	240	165
GUD100T/A-T	950	870	840	660	790	240	165

Model \ Dimensions	A	B	C	D	E	F	G
GUD125T/A-T	950	870	840	660	790	290	165
GUD140T/A-T	950	870	840	660	790	290	165
GUD160T/A-T	950	870	840	660	790	290	165

10.1.2 Installation Location

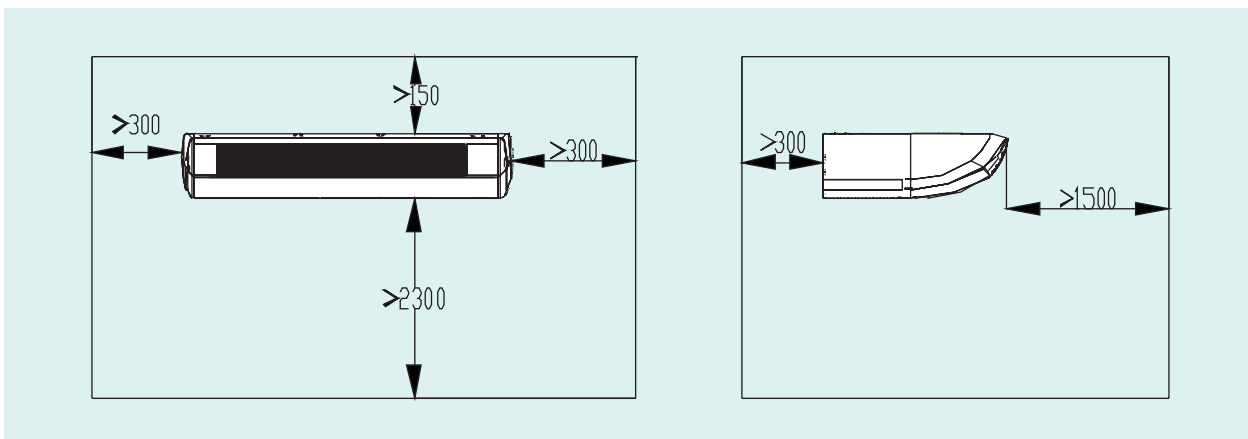


Unit: mm

Model	H
GUD35T/A-T	295
GUD50T/A-T	295
GUD71T/A-T	270
GUD85T/A-T	270
GUD100T/A-T	270
GUD125T/A-T	320
GUD140T/A-T	320
GUD160T/A-T	320

10.3.2 Installation Location

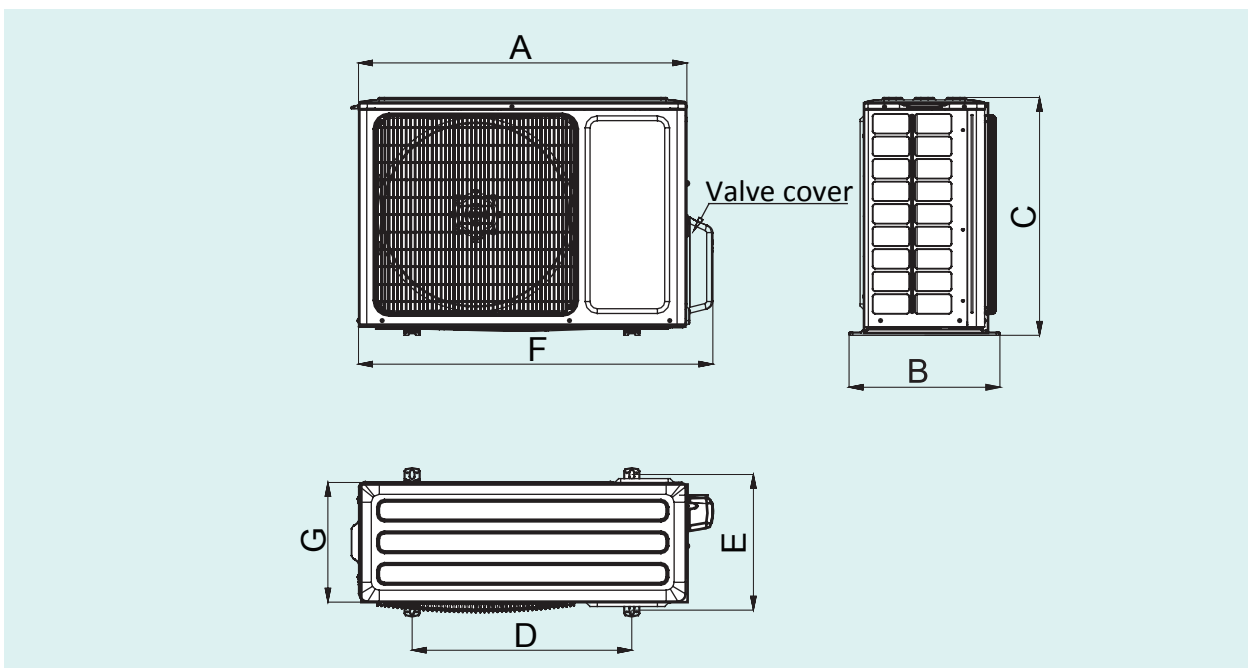
Unit: mm



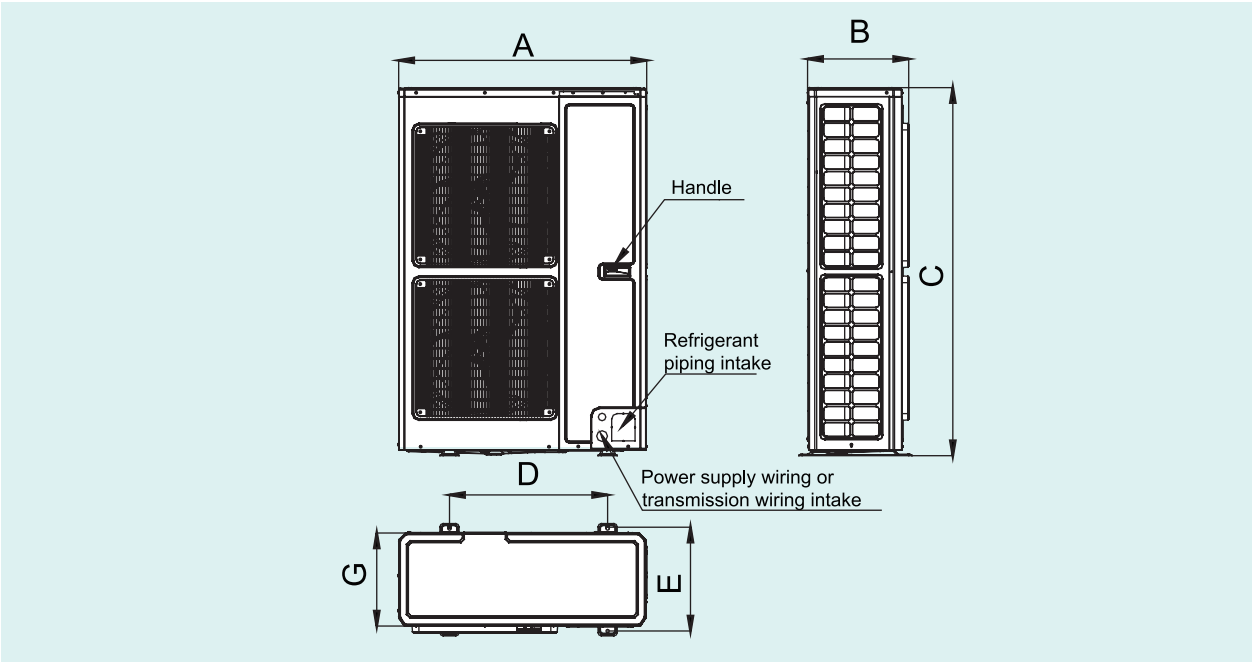
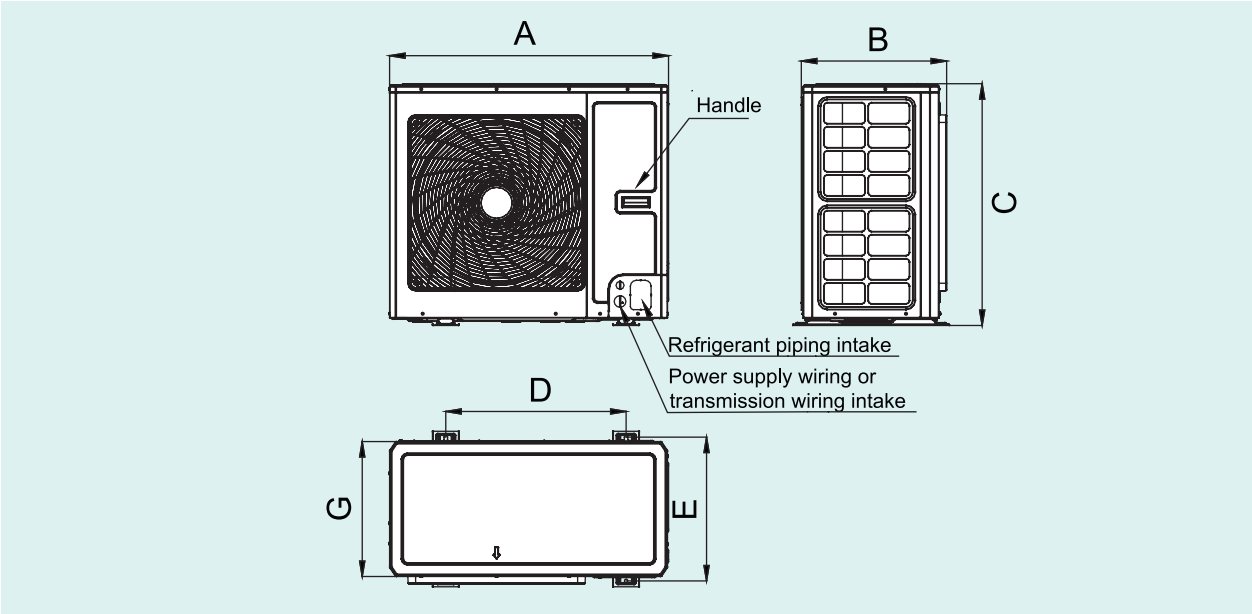
10.4 Outdoor Unit

10.4.1 Dimensions

GUD35W/NhA-T, GUD50W/NhA-T, GUD71W/NhA-T, GUD85W/NhA-T



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Unit: mm

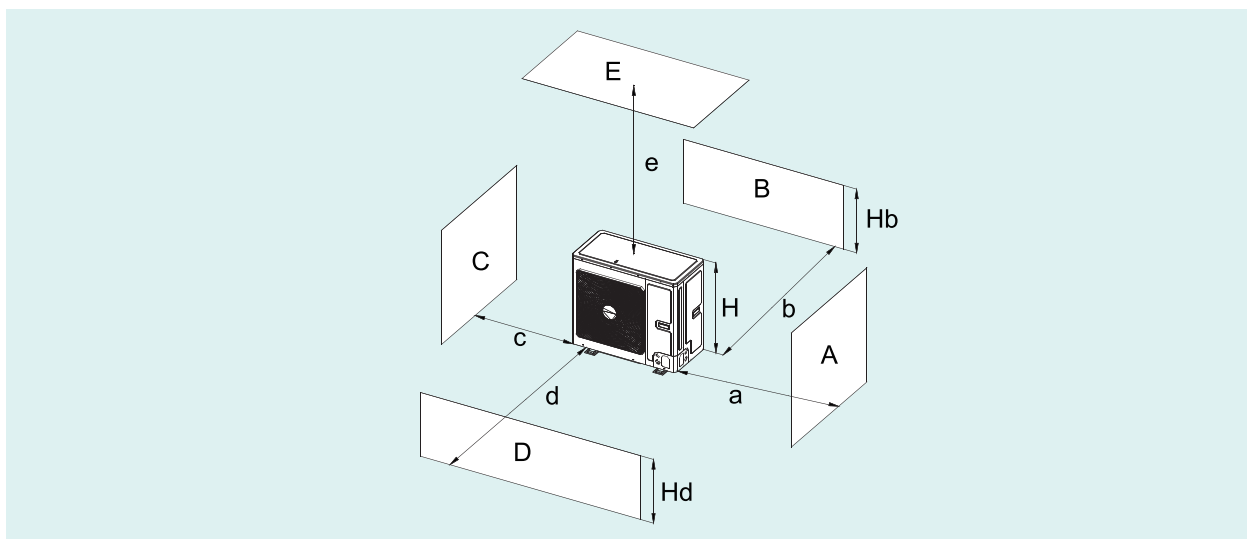
Model	A	B	C	D	E	F	G
GUD35W/NhA-T	818	378	596	550	348	887	302
GUD50W/NhA-T	818	378	596	550	348	887	302
GUD71W/NhA-T	892	396	698	560	364	952	340
GUD85W/NhA-T	920	427	790	610	395	1002	370
GUD100W/NhA-T	940	530	820	610	486	/	460
GUD100W/NhA-X	940	530	820	610	486	/	460

Model	A	B	C	D	E	F	G
GUD125W/NhA-T	940	530	820	610	486	/	460
GUD125W/NhA-X	940	530	820	610	486	/	460
GUD140W/NhA-T	940	530	820	610	486	/	460
GUD140W/NhA-X	940	530	820	610	486	/	460
GUD160W/NhA-X	900	412	1345	572	378	/	340

10.4.2 Installation Location

1). When one outdoor unit is to be installed,

Unit: mm



A~E	H_b H_D H		(mm)				
			a	b	c	d	e
B	—			≥ 100			
A,B,C,	—		≥ 300	≥ 100	≥ 100		
B,E	—			≥ 100			≥ 1000
A,B,C,E	—		≥ 300	≥ 150	≥ 150		≥ 1000
D	—					≥ 1000	
D,E	—					≥ 1000	≥ 1000
B,D	$H_b < H_D$	$H_D > H$		≥ 100		≥ 1000	
	$H_b > H_D$	$H_D < H$		≥ 100		≥ 1000	
B,D,E	$H_b < H_D$	$H_b \leq 1/2 H$		≥ 250		≥ 2000	≥ 1000
		$1/2 H < H_b \leq H$		≥ 250		≥ 2000	≥ 1000
		$H_b > H$	Prohibited				
	$H_b > H_D$	$H_D \leq 1/2 H$		≥ 100		≥ 2000	≥ 1000
		$1/2 H < H_D \leq H$		≥ 200		≥ 2000	≥ 1000
		$H_D > 1/2 H$	Prohibited				