

General

Specification	Unit of measure	ULTRA 2.7/3.6 kW (09)	ULTRA 3.5/4.2 kW (12)
Model	--	ULTRA-GWH09APAXF	ULTRA-GWH12APAXF
Rated Voltage	V~	220-240	220-240
Rated Frequency	Hz	50/60	50/60
Phases	--	1	1
Power Supply Mode	--	Outdoor	Outdoor
Cross-sectional Area of Power Cable Conductor	mm2	3G1.5	1,5
Recommended Power Cable (Core)	N	3	3
Min/Max. Voltage	V	198/264	198/264
Cooling Capacity	W	2700	3530
Cooling Capacity	Btu/h	9212	12044
Min. Cooling Capacity	W	600	850
Min. Cooling Capacity	Btu/h	2047	2900,2
Max. Cooling Capacity	W	5300	5400
Max. Cooling Capacity	Btu/h	18083	18424,8
Pdesignc	kW	2,7	3,5
Heating Capacity	W	3500	4200
Heating Capacity	Btu/h	11942	14330
Heating Capacity	kW	3,5	4,2
Min. Heating Capacity	W	900	900
Min. Heating Capacity	Btu/h	3070,8	3070,8
Max. Heating Capacity	W	6500	7200
Max. Heating Capacity	Btu/h	22178	24566,4
Pdesignh (Average)	kW	3	3,4
Pdesignh (Warmer)	kW	3,5	3,6
Pdesignh (Colder)	kW	4,3	5
Cooling Power Input	W	545	784
Min. Cooling Power Input	W	55	70
Max. Cooling Power Input	W	1600	1650
Heating Power Input	W	737	913
Min. Heating Power Input	W	165	180
Max. Heating Power Input	W	2400	2650
Rated Input	W	2400	2650
Cooling Current Input	A	3,6	3,7
Heating Current Input	A	4,8	4,2

General

Rated Cooling Current	A	8,5	7,5
Rated Heating Current	A	10	12
Rated Current	A	10	12
EER	W/W	4,95	4,5
COP	W/W	4,75	4,6
SEER	--	8,6	8,5
SCOP (Average)	--	5,1	5,1
SCOP (Warmer)	--	5,9	5,9
SCOP (Colder)	--	4	4
Cooling Energy Class (Average)	--	A+++	A+++
Heating Energy Class (Average)	--	A+++	A+++
Heating Energy Class (Warmer)	--	A+++	A+++
Heating Energy Class (Colder)	--	A+	A+
Annual energy consumption for space cooling	kWh/annum	110	144
Annual energy consumption for heating (Average)	kWh/annum	824	933
Annual energy consumption for heating (Warmer)	kWh/annum	831	854
Annual energy consumption for heating (Colder)	kWh/annum	2258	2625
Electric back-up heater capacity elbu(Tj) (Average)	kW	0	0
Electric back-up heater capacity elbu(Tj) (Warmer)	kW	0	0
Electric back-up heater capacity elbu(Tj) (Colder)	kW	0,3	0,7
Declared capacity (Average)	kW	3	3,4
Declared capacity (Warmer)	kW	3,5	3,6
Declared capacity (Colder)	kW	4	4,3
Air Flow Volume (SS)	m3/h	800	830
Air Flow Volume (H)	m3/h	650	650
Air Flow Volume (MH)	m3/h	600	600
Air Flow Volume (M)	m3/h	500	500
Air Flow Volume (ML)	m3/h	400	400
Air Flow Volume (L)	m3/h	300	300
Air Flow Volume (SL)	m3/h	250	250
Air Flow Volume (SM)	m3/h	180	
Rated Dehumidification Capacity	L/h	0,8	1,4
Application Area	m2	12-18	16-24
Controller Model	-	YBE1FB6	YBE1FB6

Indoor Unit

Specification	Unit of measure	ULTRA 2.7/3.6 kW (09)	ULTRA 3.5/4.2 kW (12)
Model	--	ULTRA-GWH09APAXF-I	ULTRA-GWH12APAXF-I
Indoor Unit Product Code	--	CB583N00400	CB583N00500
Indoor Unit Fan Type	--	Cross-flow	Cross-flow
Indoor Unit Fan Diameter Length (D×L)	mm	Φ108×592	Φ108×592
Cooling Speed	r/min	1100/1000/950/800/750/650/600/500	1200/1000/950/800/750/650/600/500
Heating Speed	r/min	1300/1100/950/900/850/800/700	1300/1100/950/900/850/800/700
Indoor Unit Fan Motor Power Output	W	15	15
Indoor Unit Fan Motor RLA	A	0,22	0,22
Evaporator Form	-	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
Evaporator Pipe Diameter	mm	φ7	φ7
Evaporator Row-fin Gap	mm	2-1.3	2-1.3
Evaporator Coil Length (L×D×W)	mm	607×25.4×342.9	607×25.4×342.9
Swing Motor Model	-	MP35CJ/MP24HF	MP35CJ/MP24HF
Swing Motor Power Output	W	2.5/1.5	2.5/1.5
Fuse Current	A	3,15	3,15
Set Temperature Range	°C	16-30 - 8-30	16-30 - 8-30
Indoor Unit Sound Pressure Level (SS) Cooling	dB(A)	42	42
Indoor Unit Sound Pressure Level (H) Cooling	dB(A)	37	38
Indoor Unit Sound Pressure Level (MH) Cooling	dB(A)	36	36
Indoor Unit Sound Pressure Level (M) Cooling	dB(A)	32	32
Indoor Unit Sound Pressure Level (ML) Cooling	dB(A)	29	29
Indoor Unit Sound Pressure Level (L) Cooling	dB(A)	26	26
Indoor Unit Sound Pressure Level (SL) Cooling	dB(A)	23	23
Indoor Unit Sound Pressure Level (SM) Cooling	dB(A)	19	20
Indoor Unit Sound Power Level (SS) Cooling	dB(A)	58	58
Indoor Unit Sound Power Level (H) Cooling	dB(A)	53	54
Indoor Unit Sound Power Level (MH) Cooling	dB(A)	51	51
Indoor Unit Sound Power Level (M) Cooling	dB(A)	47	47
Indoor Unit Sound Power Level (ML) Cooling	dB(A)	44	44
Indoor Unit Sound Power Level (L) Cooling	dB(A)	41	41
Indoor Unit Sound Power Level (SL) Cooling	dB(A)	38	38
Indoor Unit Sound Power Level (SM) Cooling	dB(A)	34	35
Indoor Unit Sound Pressure Level (SS) Heating	dB(A)	45	45
Indoor Unit Sound Pressure Level (H) Heating	dB(A)	40	41
Indoor Unit Sound Pressure Level (MH) Heating	dB(A)	36	36

Indoor Unit

Indoor Unit Sound Pressure Level (M) Heating	dB(A)	34	34
Indoor Unit Sound Pressure Level (ML) Heating	dB(A)	32	32
Indoor Unit Sound Pressure Level (L) Heating	dB(A)	30	30
Indoor Unit Sound Pressure Level (SL) Heating	dB(A)	27	27
Indoor Unit Sound Power Level (SS) Heating	dB(A)	58	58
Indoor Unit Sound Power Level (H) Heating	dB(A)	54	53
Indoor Unit Sound Power Level (MH) Heating	dB(A)	49	49
Indoor Unit Sound Power Level (M) Heating	dB(A)	47	47
Indoor Unit Sound Power Level (ML) Heating	dB(A)	45	45
Indoor Unit Sound Power Level (L) Heating	dB(A)	43	43
Indoor Unit Sound Power Level (SL) Heating	dB(A)	40	40
Indoor Unit Dimension (W)	mm	770	770
Indoor Unit Dimension (H)	mm	290	290
Indoor Unit Dimension (D)	mm	230	230
Indoor Unit Dimension of Carton Box (L)	mm	852	852
Indoor Unit Dimension of Carton Box (W)	mm	377	377
Indoor Unit Dimension of Carton Box (H)	mm	320	320
Indoor Unit Dimension of Package (L)	mm	855	855
Indoor Unit Dimension of Package (W)	mm	380	380
Indoor Unit Dimension of Package (H)	mm	335	335
Indoor Unit Stacked Layers	-	8	8
Indoor Unit Net Weight	kg	11	11
Indoor Unit Gross Weight	kg	13,5	13,5

Outdoor Unit

Specification	Unit of measure	ULTRA 2.7/3.6 kW (09)	ULTRA 3.5/4.2 kW (12)
Model	--	ULTRA-GWH09APAXF-O	ULTRA-GWH12APAXF-O
Compressor Oil	-	68SL	68DA
Compressor Type	-	Rotary	Rotary
Compressor LRA	A	11,3	11,3
Compressor RLA	A	4,64	4,64
Compressor Power Input	W	1005	1005
Compressor Overload Protector	-	KSD115°C / HPC 115/95	KSD115°C / HPC 115/95
Outdoor Unit Fan Type	-	Axial-flow	Axial-flow
Outdoor Unit Fan Diameter	mm	520	520
Fan Motor Speed	rpm	750	850
Fan Motor Power Output	W	60	60
Fan Motor RLA	A	0,65	0,65
Fan Motor Capacitor	μF	/	/
Air Flow Volume	m3/h	3600	3600
Condenser Form	-	Aluminum Fin-copper Tube	Aluminum Fin-copper Tube
Condenser Pipe Diameter	mm	φ7	φ7.94
Condenser Rows-fin Gap	mm	2-1.4	2-1.4
Condenser Coil Length (L×D×W)	mm	935×38.1×616	935×38.1×616
Permissible Excessive Operating Pressure (Discharge Side)	MPa	4,3	4,3
Permissible Excessive Operating Pressure (Discharge Side)	kPa	4300	4300
Permissible Excessive Operating Pressure (Discharge Side)	P.S.I	624	624
Permissible Excessive Operating Pressure (Suction Side)	MPa	2,5	2,5
Permissible Excessive Operating Pressure (Suction Side)	kPa	2500	2500
Permissible Excessive Operating Pressure (Suction Side)	P.S.I	363	363
Maximum Allowable Pressure	MPa	4,3	4,3
Maximum Allowable Pressure	P.S.I	624	624
Cooling Operation Ambient Temperature Range	°C	-18 ~ 52	-18 ~ 52
Heating Operation Ambient Temperature Range	°C	-35 ~ 30	-35 ~ 24
Throttling Method	-	Electron expansion valve	Electron expansion valve
Defrosting Method	-	Automatic Defrosting	Automatic Defrosting
Climate Type	--	T1	T1
Climate Zone	-	Temperate Zone, Frigid Zone	Temperate Zone, Frigid Zone
Moisture Protection	--	IPX4	IPX4
Outdoor Unit Sound Pressure Level (H)	dB(A)	56	57
Outdoor Unit Sound Power Level (H)	dB(A)	61	61

Outdoor Unit

Outdoor Unit Dimension (W)	mm	958	958
Outdoor Unit Dimension (H)	mm	660	660
Outdoor Unit Dimension (D)	mm	402	402
Outdoor Unit Dimension of Carton Box (L)	mm	1029	1029
Outdoor Unit Dimension of Carton Box (W)	mm	453	453
Outdoor Unit Dimension of Carton Box (H)	mm	715	715
Outdoor Unit Dimension of Package (L)	mm	1032	1032
Outdoor Unit Dimension of Package (W)	mm	456	456
Outdoor Unit Dimension of Package (H)	mm	737	737
Outdoor Unit Net Weight	kg	43,5	44
Outdoor Unit Gross Weight	kg	48	48,5
Refrigerant	--	R32	R32
Refrigerant Charge	kg	1	1,1
GWP		675	675
CO2 equivalent	ton	0,68	0,74
Connection Pipe Length	m	5	5
Connection Pipe Gas Additional Charge	g/m	16	16
Outer Diameter of Liquid Pipe (Metric)	mm	φ6	φ6
Outer Diameter of Gas Pipe (Metric)	mm	φ9.52	φ9.52
Max Distance Height	m	10	10
Max Distance Length	m	15	20
Loading Quantity (20' Container)	unit	60	60
Loading Quantity (40' Container)	unit	132	132
Loading Quantity (40' High Cube Container)	unit	143	143

Features

Specification	Unit of measure	ULTRA 2.7/3.6 kW (09)	ULTRA 3.5/4.2 kW (12)
Model	--	ULTRA-GWH09APAXF	ULTRA-GWH12APAXF
Auto	--	YES	YES
Cooling	--	YES	YES
Heating	--	YES	YES
Dehumidify	--	YES	YES
Air Flow	--	YES	YES
Sleep Mode	--	Three kinds of sleep curve	Three kinds of sleep curve
Auto Swing (Vertical)	--	YES	YES
Auto Swing (Horizontal)	--	YES	YES
Auto Fan	--	YES	YES
Quiet	--	YES	YES
I Feel	--	YES	YES
Anion	--	NO	NO
Cold Plasma	--	YES	YES
Intelligent Preheating	--	YES	YES
Ventilation	--	NO	NO
Dry Anti-mildew Design	--	YES	YES
Auto Clean	--	YES	YES
Timer Feature	--	YES	YES
Memory	--	YES	YES
Turbo	--	YES	YES
Clock	--	YES	YES
Temperature	--	YES	YES
Soft Start	--	YES	YES
Self Diagnosis	--	YES	YES
Lock	--	YES	YES
Compressor Electric Heater Function	--	YES	YES
Chassis Electric Heater Function	--	YES	YES
LCD (Back Light)	--	YES	YES
LED	--	YES	YES
Intelligent Defrosting	--	YES	YES
Force Defrosting	--	YES	YES
8°C Heating Mode	--	YES	YES
Turbo Cooling	--	YES	YES
Low Ambient Cooling	--	YES	YES

Features

Low Ambient Heating	--	YES	YES
Low Voltage Startup	--	NO	NO
Standby	--	YES	YES
Multi Speeds	--	YES	YES
WIFI	--	YES	YES