

**MERKUR**<sup>®</sup>  
CLIMATISATION

## Solar & Thermal Air-Conditioners



**MERKUR**<sup>®</sup>  
GERMAN TECHNOLOGY

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# Climatisation



Ulrich Scheller  
Export Manager

For over 100 years – since the time of Werner von Siemens – German Technology is renown for outstanding innovation and technical leadership. **MERKUR**® Ueberseehandel GmbH is committed to this long tradition.

Under **MERKUR**® German Technology we develop and produce warranted, durable high quality products in the following segments:

- Electrotechnology
- **DUPROLUX**® Lighting
- Metering
- Power Distribution
- Climatisation
- Renewable Energy

**MERKUR**® clients worldwide can rely on our vast experience. We offer authorised distributors competitive prices better allowing them to compete in the market. We also successfully cooperate with contractors who are bidding for public utility tenders.

Following the **MERKUR**® philosophy to produce only high quality and energy-efficient products, **MERKUR**® develops and produces:

- thermal air conditioners with extraordinarily low power consumption
- solar air conditioners

These products can save you money by significantly reducing energy consumption and therefore drastically reducing your electricity bill. The air conditioners are produced to reflect the latest international standards and, upon request, we can supply tailored units to your individual specifications.

**MERKUR**® is a reliable partner with a tradition of providing individually tailored products and solutions in accordance with customers' needs. Contact us and we gladly assist you with more details about our products and services. Get in touch with us!

Export Manager

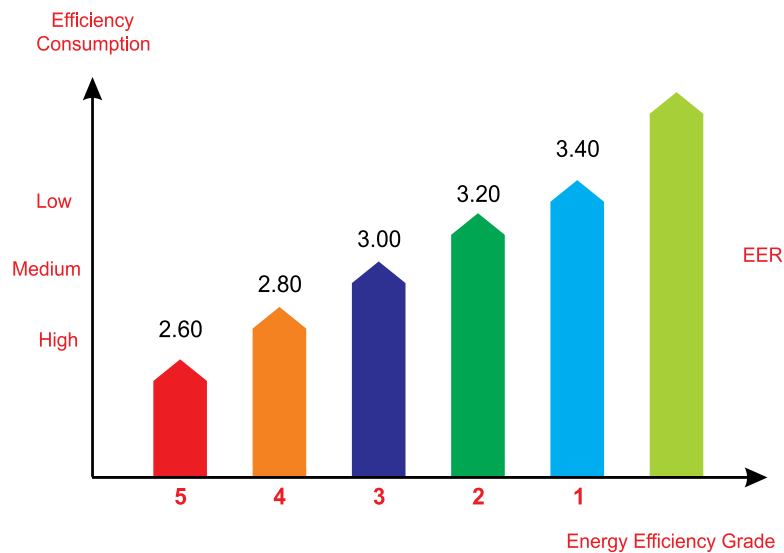
# Thermal/Solar Air-Con: Method of Operation

## Method of operation; Hybrid Solar Air Conditioner and Solar Air Conditioner

- Energy-saving, high efficiency, green & eco-friendly
- High photothermic exchanging efficiency
- Reliable & durable
- Strong environmental adoptability

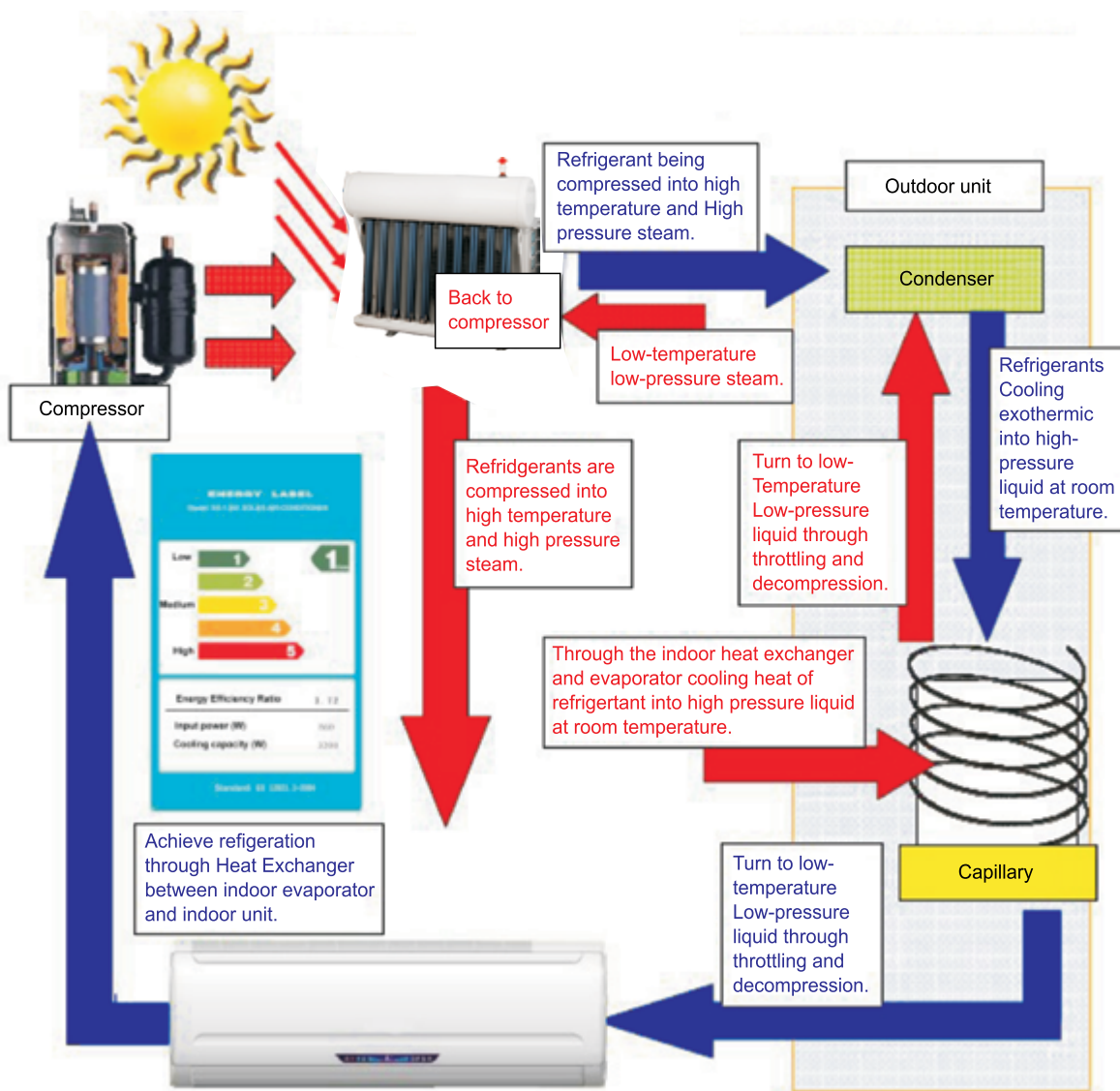


### The Energy Efficiency Grade:



# Thermal/Solar Air-Con: Method of Operation

## The Solar Collector System:



# Thermal Air-Con / Wall Mounted Type



## Main Features

**MERKUR®** German Technology Thermal Air-Cons are:

- Microprocessor controlled and operating on AC power
- Compressor driven by special CPU. Infinite variable speed, high efficiency compressor
- Integrated thermal technology; energy saving up to 30%
- Low voltage power drive for all the electric parts, minimum energy loss
- R410a CFC free refrigerant, eco friendly, CFC free
- The operation is convenient and simple
- Intelligent Defrost Mode, Independent Dehumidification Mode, Sleep Mode
- Operating at low noise
- Auto Protect capability in case of malfunction and Auto Restart function
- Cooling Mode, optional Cooling & Heating Mode
- Infrared Ray long distance infrared Remote Control
- Self-protection function
- Power Supply □220-240VAC, 50Hz/60Hz

# Thermal Air-Con / Wall Mounted Type

Model			ULG(S)-26GW	ULG(S)-32GW	ULD(S)-35GW	ULG(S)-52GW	ULG(S)-60GW	ULG(S)-72GW
			0.75 Tons	0.95 Tons	1 Tons	1.5 Tons	1.67 Tons	2 Tons
Capacity	Cooling	Btu/h	9000	11000	12000	18000	20000	24000
	Heating	W	2600	3200	3500	5200	6000	7200
	Indoor	Btu/h	10000	12000	13000	18800	22000	27000
	Outdoor	W	2900	3500	3800	5500	6600	7900
Noise	Indoor	db(A)	≤ 40	≤ 42	≤ 42	≤ 44	≤ 46	≤ 50
	Outdoor	db(A)	≤ 50	≤ 50	≤ 52	≤ 54	≤ 56	≤ 58
Air Circulation		m³/h	450	520	550	800	850	1050
Suitable Area		m²	11~17	13~21	15~23	26~36	25~42	30~48
EER		W/W	3,64	3,72	3,89	.3,83	3,88	3,82
		Btu/h/w	12,42	12,69	13,27	13,07	13,24	13,03
Power Input	Cooling	W	650~770	780~940	800~1025	1150~1300	1350~1560	1700~1900
	Heating	W	650~780	178~950	800~1050	1150~1350	1350~1590	1700~1950
Rated Current	Cooling	A	2.95~3.50	3.55~4.27	3.64~4.66	5.53~5.92	6.14~7.09	7.73~8.64
	Heating	A	2.95~3.55	3.55~4.31	3.64~4.77	5.53~6.03	6.14~7.23	7.73~8.66
Vacuum Tube	Diam.xLength*Pcs		47x500 mm * 10	47x500 mm * 10	47x500 mm * 10	47x620 mm *11	47x620 mm *11	47x620 mm *11
R410A & R22		kg	0.7	0.9	1	1.3	1.4	1.7
<b>Dimensions</b>								
Indoor Unit	Net	mm	775*260*210	775*260*210	775*260*210	1070*385*265	1070*385*265	1070*385*265
	Shipping	mm	840*325*265	840*325*265	840*325*265	1100*400*285	1100*400*285	1100*400*285
Outdoor Unit	Net	mm	790*260*540	790*260*540	790*260*540	850*300*755	850*300*755	850*300*755
	Shipping	mm	910*370*610	910*370*610	910*370*610	950*410*760	950*410*760	950*410*760
Water Tank	Shipping	mm	910*400*330	910*400*330	910*400*330	980*400*370	980*400*370	980*400*370
Vacuum Tube	Shipping	mm						
<b>Weight</b>								
Indoor Unit	Net/Gross	kg	8/10	10.5/13	10.5/13	17/18.5	17/18.5	21/23
Outdoor Unit	Net/Gross	kg	29/34	38/40	38/40	50/52	50/52	55/58
Solar Collector	Net/Gross	kg	13/15	13/15	13/15	16/17	16/17	16/17
Loading Qty	in 20feet	sets	70	70	70	55	55	55
	40HQ	sets	170	170	170	125	125	125



# Thermal Air-Con / Floor Standing Type

## Hybrid Solar Air Conditioner Floor Standing Type

- world famous brand compressors
- bigger capacity for cooling/heating
- wild angle distanced air flow to ensure
- every corner is comfortable
- led display, colorful and shining
- digital dehumidify makes the air dry in mouldy season
- multi self-protection functions



Model No.			ULG(S)-60LW	ULG(S)-72LW	ULG(S)-100LW	ULG(S)-120LW	ULG(S)-140LW
Power Supply: 220~240VAC, 1PH, 50/60Hz							
Performance							
Capacity	Cooling	Btu/h	20000	24000	36000	41000	48000
		W	6000	7200	10000	12000	14000
	Heating	Btu/h	22000+1700	27000+1700	40000+1700	46000+1700	55000+1700
		W	6600+500	7900+500	12000+500	14000+500	16000+500
Noise	Indoor	dB(A)	≤47	≤51	≤51	≤53	≤53
	Outdoor	dB(A)	≤56	≤58	≤58	≤60	≤60
Air Circulation		m <sup>3</sup> /h	800	1250	1700	1800	1900
Suitable Area		m <sup>2</sup>	25~42	30~48	42~67	50~80	58~93
EER		W/W	3.88	3.82	3.87	3.96	3.87
		Btu/h/w	13.24	13.03	13.2	13.51	13.2
Power Consumption							
Power Input	Cooling	W	1350~1560	1700~1900	2400~2640	2900~3150	3500~3740
	Heating	W	1350~1590+500	1700~1950+500	2470~2650+500	2900~3180+500	3500~3760+500
Rated Current	Cooling	A	6.14~7.09	7.73~8.64	10.91~11.95	13.18~14.32	15.91~17
	Heating	A	6.14~7.23+2.2	7.73~8.66+2.2	11.23~12.05+2.2	13.18~14.45+2.2	13.91~17.09+2.2
Vacuum Tube	Diameter*Length*Pcs		47mm*620mm*11	47mm*620mm*11	47mm*700mm*13	47mm*1200mm*13	47mm*1200mm*13
Dimensions							
Indoor Unit	Net	mm	490*280*1730	550*300*1790	550*300*1790	550*390*1790	550*390*1790
	Shipping	mm	580*390*1790	630*380*1900	630*380*1900	630*470*1900	630*470*1900
Outdoor Unit	Net	mm	850*300*755	940*300*755	950*355*835	950*355*1255	950*360*1255
	Shipping	mm	950*400*770	990*400*770	1140*460*910	1140*460*1340	1140*460*1340
Water Tank	Shipping	mm	980*400*370	980*400*370	1120*400*400	1120*400*400	1120*400*400
Vacuum Tube	Shipping	mm				1270*280*210	1270*280*210
Weight							
Indoor Unit	Net/Gross	kg	39/42	45/47	44/48	51/55	52/56
Outdoor Unit	Net/Gross	kg	50/52	55/58	73/76	93/100	97/102
Solar Collector	Net/Gross	kg	16/17	16/17	18/21	23/26	23/26

Flat-plate solar collector also available ■ Above red numbers mean electrical heaters are an ■ Parameters may change due to the product improvement, please refer to products we might keep you informed ■ The catalogue is only for promotion purpose, if we make any changes to the data or pictures, we might not keep you informed ■ Please check with us before ordering and your understanding is highly appreciated



# Thermal Air-Con / Cassette Type

## Hybrid Solar Air Conditioner Cassette Type

- compact design, easy for installation
- three-dimensional equally airflow design
- turbofan runs in silence
- movable grids convenience for cleaning and maintenance
- high lift pump for water-exhaust system



Model No.			ULG(S)-60QW	ULG(S)-72QW	ULG(S)-100QW	ULG(S)-120QW	ULG(S)-140QW
Power Supply: 220~240VAC, 1PH, 50/60Hz							
Performance							
Capacity	Cooling	Btu/h	20000	24000	36000	41000	48000
		W	6000	7200	10000	12000	14000
	Heating	Btu/h	22000+1700	27000+1700	40000+1700	46000+1700	55000+1700
		W	6600+500	7900+500	12000+500	14000+500	16000+500
Noise	Indoor	dB(A)	≤45	≤49	≤49	≤50	≤50
	Outdoor	dB(A)	≤56	≤58	≤58	≤60	≤60
Air Circulation		m <sup>3</sup> /h	800	1250	1700	1800	1900
Suitable Area		m <sup>2</sup>	25~42	30~48	42~67	50~80	58~93
EER		W/W	3.88	3.82	3.87	3.96	3.87
		Btu/h/w	13.24	13.03	13.2	13.51	13.2
Power Consumption							
Power Input	Cooling	W	1350~1560	1700~1900	2400~2640	2900~3150	3500~3740
	Heating	W	1350-1590+500	1700-1950+500	2470-2650+500	2900-3180+500	3500-3760+500
Rated Current	Cooling	A	6.14~7.09	7.73~8.64	10.91~11.95	13.18~14.32	15.91~17
	Heating	A	6.14~7.23+2.2	7.73~8.66+2.2	11.23~12.05+2.2	13.18~14.45+2.2	15.91~17.09+2.2
Vacuum Tube	Diameter*Length*Pcs		47mm*520mm*11	47mm*620mm*11	47mm*700mm*13	47mm*1200mm*13	47mm*1200mm*13
Dimensions							
Indoor Unit	Net	mm	640*640*280	850*850*250	850*850*250	850*850*280	850*850*280
	Shipping	mm	680*680*320	890*880*290	890*880*290	890*880*320	890*880*320
Panel	Net	mm	650*650*60	960*960*60	960*960*60	960*960*60	960*960*60
	Shipping	mm	730*750*130	1010*1010*110	1010*1010*110	1010*1010*110	1010*1010*110
Outdoor Unit	Net	mm	850*300*755	940*300*755	950*355*835	950*355*1255	950*360*1255
	Shipping	mm	950*400*770	990*400*770	1140*460*910	1140*460*1340	1140*460*1340
Water Tank	Shipping	mm	980*400*370	980*400*370	1120*400*400	1120*400*400	1120*400*400
Vacuum Tube	Shipping	mm				1270*280*210	1270*280*210
Weight							
Indoor Unit	Net/Gross	kg	28/34	28/34	30/45	53/57	53/57
Outdoor Unit	Net/Gross	kg	50/52	55/58	73/76	95/100	97/102
Solar Collector	Net/Gross	kg	16/17	16/17	18/21	23/26	23/26

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# Thermal Air-Con / Duct Type

## Hybrid Solar Air Conditioner Duct Type

- ultra quiet operation
- compact design
- flexible and convenient installation
- state of the art compressor
- high efficient heat exchanger
- advanced microcomputer control
- rotary or scroll compressor depending on capacity
- multi-safety protection function
- cooling capacities from 5.0kw to 15kw
- 220v / 1ph / 50hz / 60hz or 380v / 3ph / 50Hz / 60hz power supply



Model No.		ULG (R) - 60DW	ULG (R) - 72DW	ULG (R) - 100DW	ULG (R) - 120DW	ULG (R) - 140DW	ULG (R) - 180DW	
<b>Power: 220-240VAC, 1PH, 50/60Hz</b>								
<b>Performance</b>								
<b>Capacity</b>	Cooling	Btu/h	20000	24000	36000	41000	48000	60000
		W	6000	7200	10000	12000	14000	17500
	Heating	Btu/h	22000+1700	27000+1700	40000+1700	46000+1700	55000+1700	66000+1700
		W	6600+500	7900+500	12000+500	14000+500	16000+500	21000+500
<b>Noise</b>	Indoor	dB(A)	48	51	53	56	57	60
	Outdoor	dB(A)	56	58	58	60	60	62
<b>Air Circulation</b>		m³/h	1800	1800	2500	3500	3500	4000
<b>Suitable Area</b>		m²	25-42	30-48	42-67	50-80	58-93	80-125
<b>EER</b>		W/W	3.88	3.82	3.87	3.96	3.87	3.85
		Btu/h/w	13.24	13.03	13.2	13.51	13.2	13.2
<b>Power Consumption</b>								
<b>Power Input</b>	Cooling	W	1350-1560	1700-1900	2400-2640	2900-3150	3500-3740	4200-4750
	Heating	W	1350-1590+500	1700-1950+500	2470-2650+500	2900-3180+500	3500-3760+500	4200-4750+500
<b>Rated Current</b>	Cooling	A	6.14-7.09	7.73-8.64	10.91-11.95	13.18-14.32	15.91-17	18.1-19.3
	Heating	A	6.14-7.23+2.2	7.73+8.66+2.2	10.91-12.05+2.2	13.18-14.45+2.2	15.91-17.09+2.2	18.5-19.5+2.2
<b>Vacuum Tube</b>	Diameter <Length> Pcs		47mm*620mm*11	47mm*620mm*11	47mm*700mm*13	47mm*1200mm*13	47mm*1200mm*13	47mm*1200mm*13
<b>Dimensions</b>								
<b>Indoor Unit</b>	Net	mm	1050*740*535	1050*740*535	1050*740*535	1050*740*535	1050*740*535	1050*740*535
	Ship	mm	1090*798*565	1090*798*565	1090*798*565	1090*798*565	1090*798*565	1090*798*565
<b>Outdoor Unit</b>	Net	mm	850*300*755	940*300*755	950*355*835	950*355*1255	950*355*1255	950*355*1255
	Ship	mm	950*440*770	990*400*770	1140*460*910	1140*460*1340	1140*460*1340	1140*460*1340
<b>Water Tank</b>	Ship	mm	980*400*370	980*400*370	1120*400*400	1120*400*400	1120*400*400	1120*400*400
<b>Vacuum Tube</b>	Ship	mm			1120*280*210	1120*280*210	1120*280*210	1120*280*210
<b>Weight</b>								
<b>Indoor Unit</b>	Net/Gross	kg	49/53	49/53	72/77	73/78	73/78	88/93
<b>Outdoor Unit</b>	Net/Gross	kg	50/52	55/58	73/76	95/100	97/102	112/125
<b>Solar Collector</b>	Net/Gross	kg	16/17	16/17	18/21	23/26	23/26	23/26

Flat-plate solar collector also available ■ Above red numbers mean electrical heaters are an ■ Parameters may change due to the product improvement. please refer to products we might keep you informed ■ The catalogue is only for promotion purpose, if we make any changes to the data or pictures, we might not keep you informed ■ Please check with us before ordering and your understanding is highly appreciated

# Energy Saving Comparison List

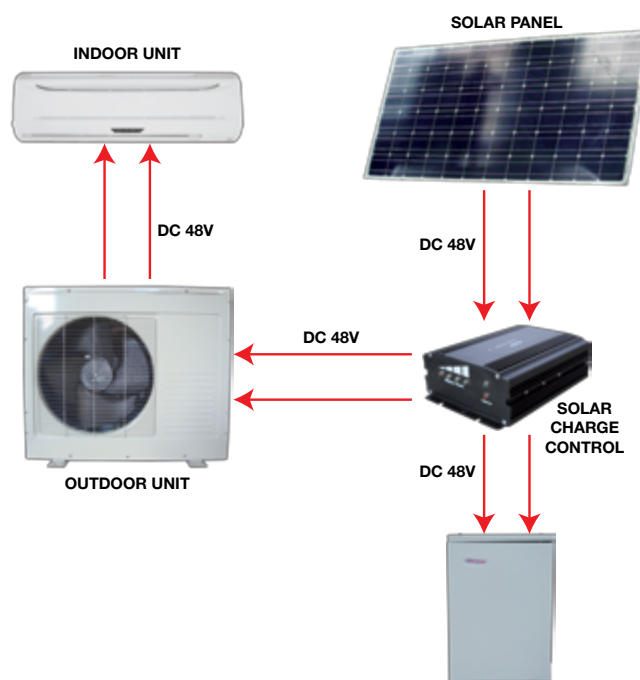
## Hybrid Solar Air Conditioner / Energy Saving Comparison List

Product	Btu	Cooling	Power	EER	Saving Rate	Electricity	Electricity Saved (KWH)				
		(W)	(W)			(W/H)	1 h	1 Day / 10 h	1 Month	1 Year	5 Year
Normal LG 26GW A/C	9,000	2,600	1,000	2.60	/	1,000					
ULG 26GW Solar A/C	9,000	2,600	600	<b>3.89</b>	<b>40.00%</b>	600	0.40	4	120	1,460	7,300
Normal LG 35GW A/C	12,000	3,500	1,400	2.50	/	1,400					
ULG 35GW Solar A/C	12,000	3,500	900	<b>3.89</b>	<b>35.71%</b>	900	0.50	5	150	1,825	9,125
Normal LG 60GW A/C	20,000	6,000	2,400	2.50	/	2,400					
ULG 60GW Solar A/C	20,000	6,000	1,546	<b>3.88</b>	<b>35.58%</b>	1,546	0.85	8.5	256	3,117	15,586
Normal LG 72GW A/C	24,000	7,200	2,900	2.50	/	2,900					
ULG 72GW Solar A/C	24,000	7,200	1,885	<b>3.82</b>	<b>35.00%</b>	1,885	1.02	10	305	3,705	18,524
Normal LG 100LW A/C	36,000	10,000	4,100	2.44	/	4,100					
ULG 100LW Solar A/C	36,000	10,000	2,585	<b>3.87</b>	<b>36.95%</b>	2,585	1.52	15	455	5,530	27,649
Normal LG 120LW A/C	41,000	12,000	4,960	2.42	/	5,840					
ULG 120LW Solar A/C	41,000	12,000	3,030	<b>3.96</b>	<b>38.91%</b>	3,620	1.93	19	579	7,045	35,223
Normal LG 140LW A/C	48,000	14,000	5,840	2.39	/	5,840					
ULG 140LW Solar A/C	48,000	14,000	3,620	<b>3.78</b>	<b>38.01%</b>	3,620	2.22	22	666	8,103	40,515

# 100 % Wall Mounted Type DC Solar AC

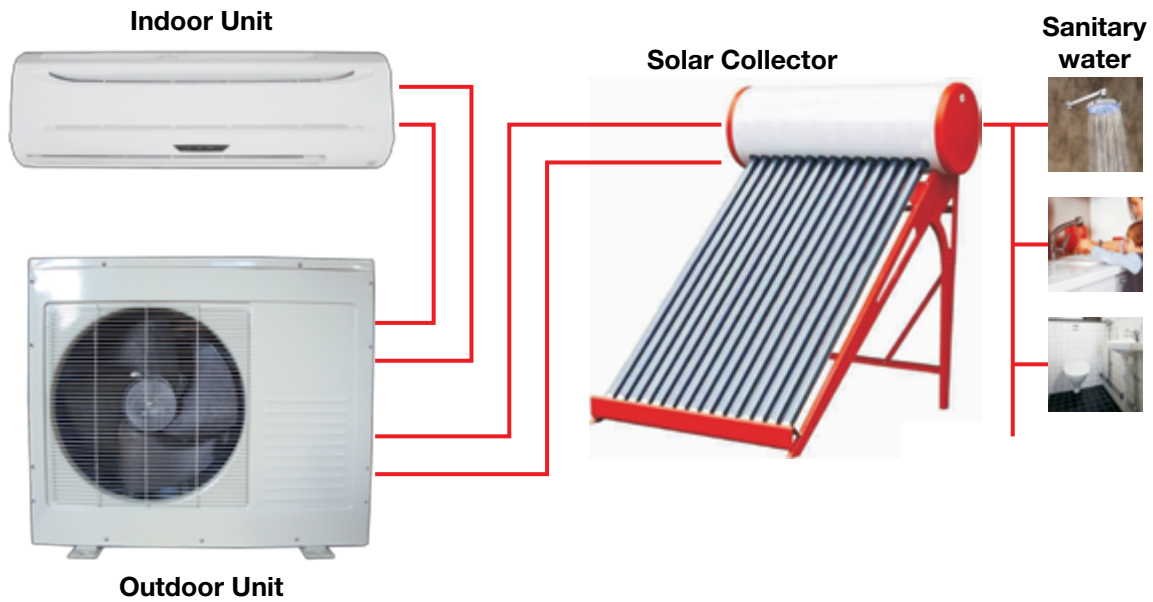
## 100 % Wall Mounted Type DC Solar Air Conditioner

- Operating on DC power. Renewable energy resources such as solar and wind power can directly operate the unit.
- Low voltage power drive for all the electric parts, compressor driven by special CUP. Infinite variable speed, high efficiency, rotating speed automatically adjusted according to temperature.
- Optional: On grid installation with automatic switching to mains power through the controller incase solar or wind are not providing enough power, respectively batteries are running low
- Power Supply 48VDC (44V to 54V)



Model No.			ULG-28GW/DC	ULGS-35GW/DC	ULGS-52GW/DC	ULGS-72GW/DC
<b>Performance</b>						
Capacity	Cooling	Btu/h	9000	12000	18000	24000
		W	2600	3500	5200	7200
	Heating	Btu/h	10000	13000	20000	27000
		W	2800	3700	5400	7900
Noise	Indoor	dB(A)	40	42	44	48
	Outdoor	dB(A)	50	52	55	58
Air Circulation		m <sup>3</sup> /h	450	550	750	1050
Suitable Area		m <sup>2</sup>	10-15	12-25	20-35	25-45
EER		W/W	4.56	3.89	4.00	4.00
		Btu/h/w	15.79	13.33	13.85	13.33
Batteries			12VDC*4	12VDC*4	12VDC*4	12VDC*4
Batteries AH (each)		AH	60	100	150	200
Solar Panel Specification			48V/200W*3	48V/150W*6	48V/150W*8	48V/150W*12
Refrigerant			R-410A			
Compressor			DC 48V			
<b>Power Consumption</b>						
Power Input		W	570	900	1300	1800
Rated Current		A	11.5	16	23	33
Input Power		V	DC 48	DC 48	DC 48	DC 48

# Hybrid Solar AC / IDCW System



## Hybrid Solar Air Conditioner Integrated Domestic Climatisation + Water System

Hier schreibt Ulli einen kleinen Text

Air conditioner system saves 30%-50% electricity.

HYBRID SHP SYSTEM (Specs and Technical Details On Request)  
 Our Hybrid SHP System combines solar air conditioner technology, air source heat pump technology and pressured split solar heater technology into one system, it supplies cooling and heating air in summer and winter and hot water for all year long. it is energy-saving and eco-friendly.



# Hybrid Solar AC / IDCW System

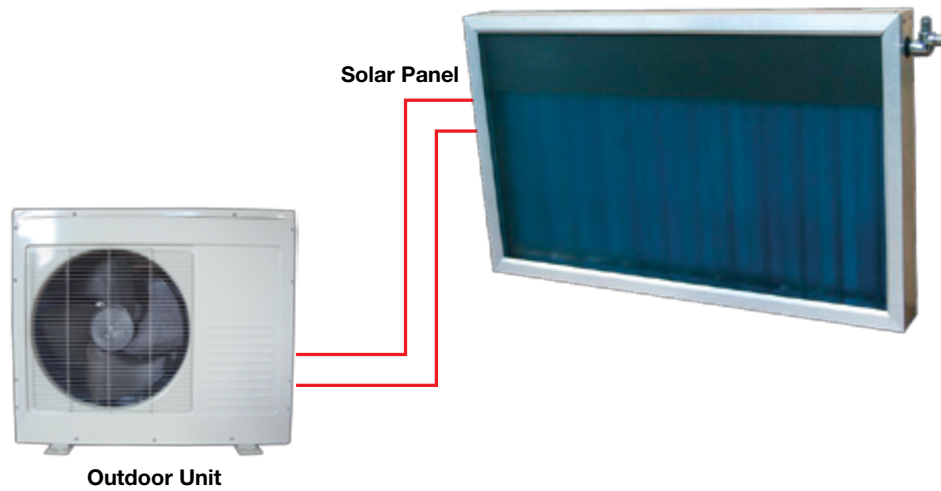
## Main Features

- Air conditioner system saves 30%-50% electricity.
- Air conditioner system runs in extreme hard conditions from 15-55 centigrade.
- Offers you a suitable indoor environment and protects you from air condition pollution.
- Air source heat pump saves 70% and more electricity for hot water supply.
- When the air conditioner system is on, you can get hot water for free.
- Unpressured system gives endless comfort and safety.
- Endless hot water instantly.

## Unpressurized Type

Model			AIGU - 35 GW	AIGU - 52 GW	AIGU - 60 GW	AIGU - 72 W	AIGU - 100W	AIGU - 120 GW
<b>Power: 220-240/380VAC, 1/3PH, 50/60hz</b>								
Capacity	Cooling	Btu/h	12000	18000	20000	24000	36000	41000
		W	3500	5200	6000	7200	10000	12000
	Heating	Btu/h	13000	18800	22000	27000	40000	46000
		W	3800	5500	6600	7900	12000	14000
	Water Tank	L	150	200	300	300	500	500
Indoor Type			Wall Mount	Wall Mount	Wall Mount	Wall Mount	Standing Floor	Standing Floor
Air Circulation		m³/h	550	750	850	1050	1700	1800
Suitable Area		m²	15-23	20-35	25-42	30-48	42-67	50-80
EER		W/W	3.89	3.85	3.88	3.82	3.87	3.96
Noise	Indoor	dB(A)	42	44	46	50	51	53
	Outdoor	dB(A)	52	54	56	58	58	60
Electric Heater		kw	1	1.5	1.5	1.5	2	2
Hot Water Temp		°C	50 90	50 90	50 90	50 90	50 90	50 90
Solar Collector	Vacuum Tube		15	20	30	30	50	50
<b>Power Consumption</b>								
Power Input	Cooling	W	800-1025	1150-1300	1350-1550	1700-1900	2400-2640	2900-3150
	Heating	W	800-1050	1150-1350	1350-1590	1700-1950	2470-2650	2900-3180
Rated Current	Cooling	A	3.64-4.66	5.23-5.91	6.14-7.09	7.73-8.64	10.91-11.95	13.18-14.32
	Heating	A	3.64-4.77	5.23-5.96	6.14-7.23	7.73-8.66	10.91-12.05	13.18-14.45
<b>Dimension</b>								
Indoor Unit	Ship	mm	910*370*300	1070*370*260	1070*370*260	1070*370*260	630*380*1900	360*470*1900
Outdoor Unit	Ship	mm	910*370*610	950*400*770	950*400*770	950*400*770	1140*460*910	1140*460*1340
Water Tank	Ship	mm	1440*500*500	1840*500*500	2640*500*500	2640*500*500	4170*500*500	4170*500*500
Vacuum Tube	Ship	mm	1880*340*250	1880*340*180*2	1880*340*250*2	1880*340*250*2	1880*340*250*2	1880*340*250*2
Tank Bracket	Ship	mm	1750*110*330	1750*110*330	2405*110*330	2405*110*330	4100*110*330	4100*110*330
Gross Weight	Ship		135	179	215	205	301	348

# Solar Swimming Pool Heat Pump System

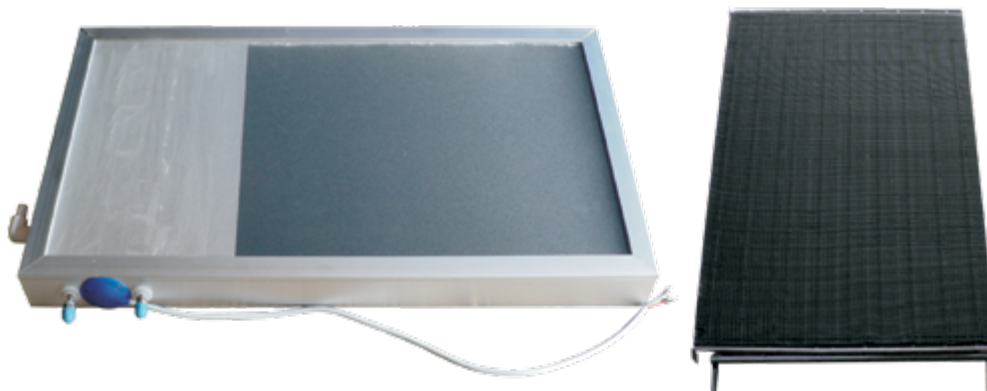


## Hybrid Solar Air Conditioner Solar Swimming Pool Heat Pump System

Model No.		AIOIO25	AIOIO42	AIOIO65	AIOIO85	AIOIO100	AIOIO130	AIOIO170	AIOIO210
		1 HP	1.5 HP	2HP	2.5HP	3HP	4HP	5HP	6HP
Heating Capacity	Btu/h	8500	14000	22000	29000	34000	43000	58000	72000
	W	2500	4200	6500	8500	10000	13000	17000	21000
Heating Power Input	W	410	700	1080	1400	1650	2150	2900	3600
Efficiency	COP	6.0	6.0	6.0	6.0	6.0	6.0	5.9	5.8
Heating Stated Currency	A	1.9	3.2	5	6.5	7.5	9.8	13.5	16.5
Voltage/Frequency	V/PH/Hz	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50	220/1/50
Compressor Unit		1	1	1	1	1	1	1	1
Compressor Type		Rotary	Rotary	Rotary	Rotary	Rotary	Rotary	Scroll	Scroll
Heat Exchanger	PVC Hermetic Water Barrel with Spiral Soft Titanium Pipes Inside								
Refrigerant	R410A								
Blower Style	Lateral-Blow								
Noise Level	dB (A)	45	47	49	51	55	58	60	60
Water Connection	mvm	32	32	50	50	50	50	50	50
Water Flow	m3/h	3	4	4.5	5	6	6.5	7	7.5
Water Pressure Loss	kPa	8	10	10	10	12	12	12	12
Heat Pump Net Dimension	mvm	710*320*500	710*320*500	630*360*500	910*360*650	910*360*650	910*360*650	1110*460*950	1110*460*950
Solar Panel Dimision	mvm	1000*550*90	1000*550*90	1000*550*90	1000*550*90	1000*550*90	1000*550*90	1200*700*90	1200*700*90
Heat Pump Gross Dimension	mvm	840*450*650	840*450*650	840*490*650	1040*490*800	1040*490*800	1040*490*800	1240*590*1100	1240*590*1100
Solar Panel Gross Dimision	mvm	1145*620/110	1145*620/110	1145*620/110	1145*620/110	1145*620/110	1145*620/110	1345*770*110	1345*770*110
Heat Pump Weight Net/ Gross	kg	35/45	38/46	55/75	70/90	72/92	75/95	100/125	110/135
Solar Panel Weight Net/ Gross	kg	15/20						22/27	
<b>Data based on:</b>									
Heating measuring condition: Dry ambience / Temperature: 24°C / 19°C, Feeding water temperature: 27°C									



# Hybrid Solar Air Conditioner



## Hybrid Solar Air Conditioner Flat Plate Collector

A breakthrough compared to conventional collectors when it comes to anti-freezing ability. Using USA made Fluororesin Selective Coating instead of Nickel and Chromite Paint.

With the same frame size, absorption area is tripled, thermal area largely increased, increased heat efficiency by 40% comparing with

other flat plate collectors in the market.

Main Features:

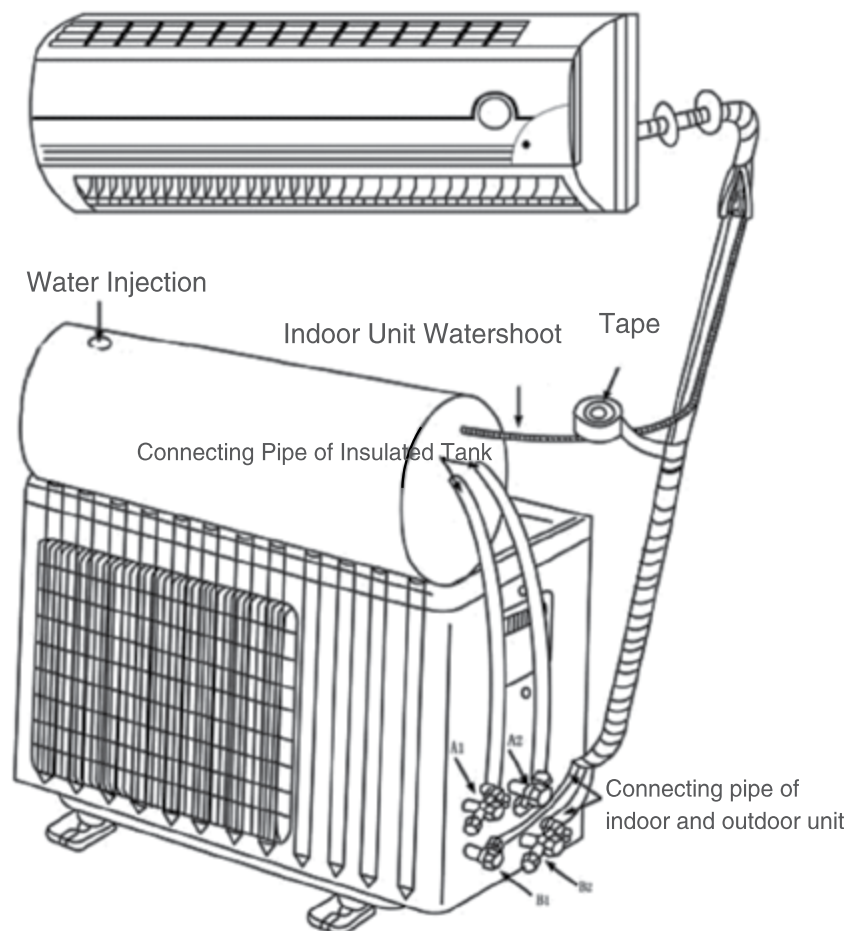
- efficiency performance, high pressure-resistance
- Highest quality components built-in only
- Maintenance free, operational life cycle 20 years

### Performance and parameters:

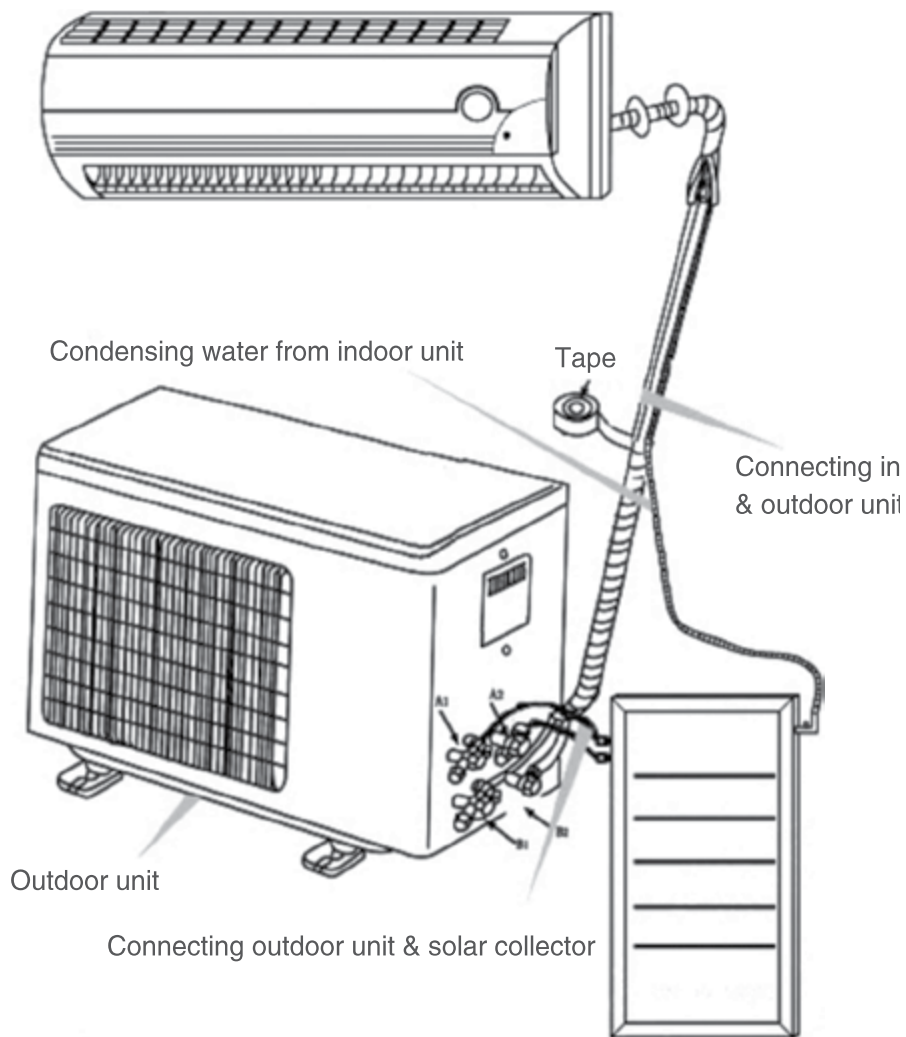
■ Dimensions	2000*1000*87 (mm)
■ Weight	37.5kg
■ Sunny day water production	70-100kg/m <sup>2</sup>
■ Sunny day water production temp.	50-90 degree
■ Maximum working pressure	1.2 Mpa
■ Heat-absorbing coating absorption rate	95% ± 5%
■ Heat-absorbing coating emissivity rate	3% ± 1%
■ Transmittance of glass cover	>92%
■ Maximum operating temperature	120-170
■ Water inlet and outlet size	G3/4
■ Absorbent material	Fluororesin coating
■ Water inlet material	TUI
■ Frame material	Airline magnesium alloy
■ Frame color and Technology	Completely closed (white, silver, bronze, green)

# Appendix: Installation guide IDCW System

## Solar air conditioner installation drawings



# Appendix: Installation guide IDCW System



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