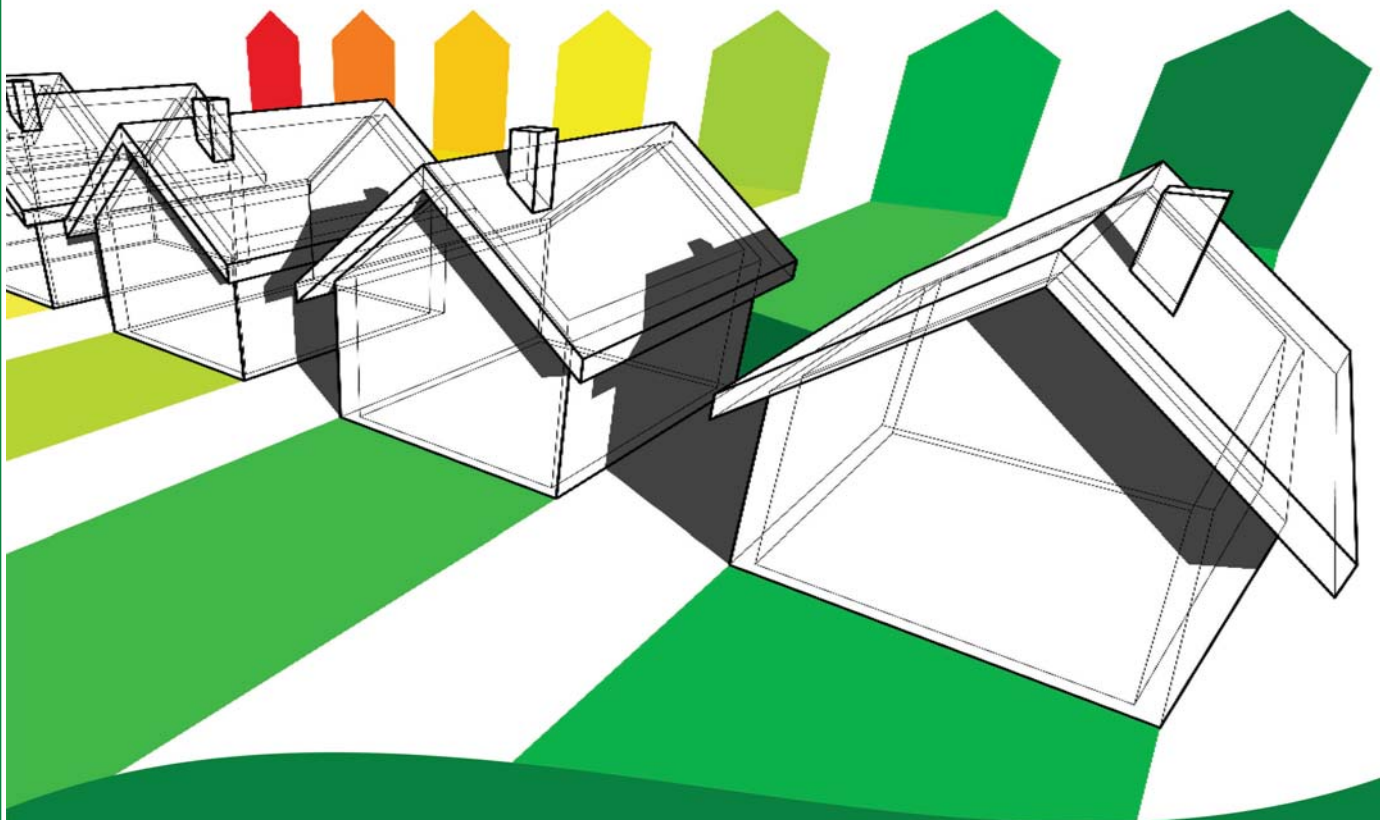


**SOLAIR**  **WORLD**<sup>TM</sup>  
INTERNATIONAL

**“The only air conditioner that pays you back”**



**Product Range**  
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**ENERGY SAVING UP TO 70%**





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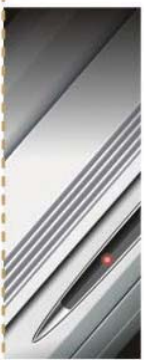


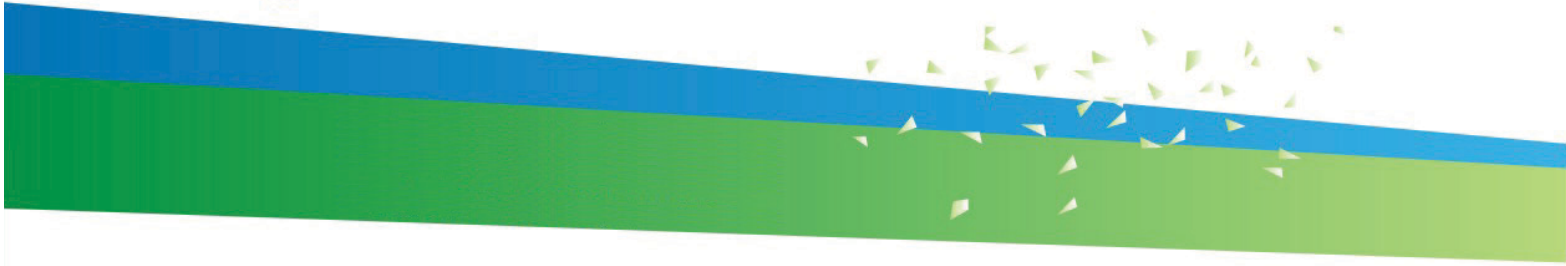
## Foresight

## Challenge

## Revolution

## Advancement





As a professional solar air conditioner manufacturer, we have production capacity of up to 1,500,000 sets per year with our world-class equipment in manufacturing and testing.

The products are selling to over 30 countries world wide such as North America, South America, Africa, Europe, Australia, Middle-East and South East Countries.



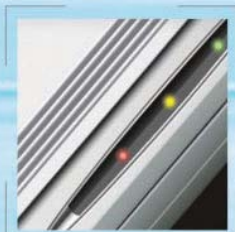
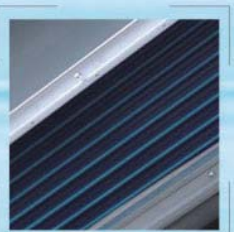


We have more than 30 various products in 5 Series including Split Wall-mounted type, Cabinet type, Ceiling type, Cassette type and Ducted type. All of our products are certified by UL, CE, MEP's, SAA, JIS and CIQ. Solid technical force, advanced equipment and a complete quality management system (certified by the ISO9001:2000 Quality System) offer the guarantees for quality products. We have been providing quality products and solutions promptly and accurately to our domestic and overseas customers since the establishment of our company.

As an Advanced High-Technology World Wide Enterprise, we invest more than 8% of our turnover on Research and Development every year keeping a stable upgrading of our technology and products. Among the total of 500 employees, 48 are in our R & D Centre. We make 40 million parts per year for most of the leading air conditioner manufacturers.



## Solar / Thermal Air Conditioner





## R410A Solar/Thermal Technology

### 1. High-quality components, Durable security, effectively improve the efficiency

#### Leading international new refrigerant R410A

New refrigerant 410A has good stabilization, and efficient characteristics, as it does not include the chlorine element, and will not destroy the ozone layer. In addition, the refrigerant contributes to the air conditioners performance.

#### Well-known brands DC permanent magnet synchronous compressor

The use of a permanent magnet rotor produce a magnetic field without the power turned on. It can help save energy and make the system more efficient.

#### Mitsubishi imported module

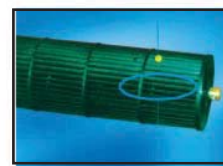
We have adopted the Mitsubishi Mould to ensure the highest possible quality.

#### Large diameter tubular blade, Reduces operating noise

We have adopted large diameter tubular blades, the blade shape not only reduces the amount of wind, but also reduces operation noise.

#### Panasonic DC remarkable motor

Keeps the system stable, powerful and quiet with a long life span.





### 2. Advanced frequency control technology, Ensuring the entire unit is full and efficient



#### 180°sine wave DC compressor technology, comfortable enjoy

Fixed compressor speed, level driving torque, greater degree of play on current utilization efficiency. When the A/C is started there is fast cooling and heating action. When it comes to the predetermined temperature, the compressor turns off. Protection temperature is constant, giving low energy efficiency, low noise, and giving you a comfortable and pleasant surrounding.



#### 150V-260V Wide-voltage operation

DC A/C can be run under 150V-260V wide voltage, an effective solution to voltage scaling for air conditioning. This improves the stability of the unit, extending the service life.



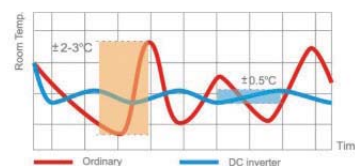
#### Power factor correction technology, to ensure full and efficient operation

We have adopted advanced power factor correction technology, giving it a power factor of up to 99° (normal a/c's on the market are only 80-90%) So this is giving minimal impact on the grid, while greatly improving the transmission power from the grid.



#### Precise temperature control with $\pm 0.5^{\circ}\text{C}$

Normal A/C temperature fluctuations can only be maintained in  $\pm 2^{\circ}\text{C}$ . Our DC inverter A/C can maintain between  $\pm 0.5^{\circ}\text{C}$  fluctuation. You can enjoy a constant indoor temperature.



#### $-15^{\circ}\text{C}$ low temperature start, saving and more stable

Normal A/C heating the efficiency gets worse under  $0^{\circ}\text{C}$ , but the A/C heating efficiency stays strong and stable even in lower temperatures.





## R410 DC Solar/Thermal Technology

### 3. User-friendly design, Extreme convenience



#### Human sleep patterns, Improve the quality of rest

For a comfortable sleep, turn on the sleep timer operation. The air conditioning system automatically changes the set temperature, (rises 0.5°C when cooling, reduces 2°C when heating) preventing over cooling or overheating.



#### Intelligent dehumidification, dry and pleasant

Chip control dehumidification. Air flow and temperature are automatically controlled. Recommended for use in the rainy season.



#### Precise timing, of A/C on and off times

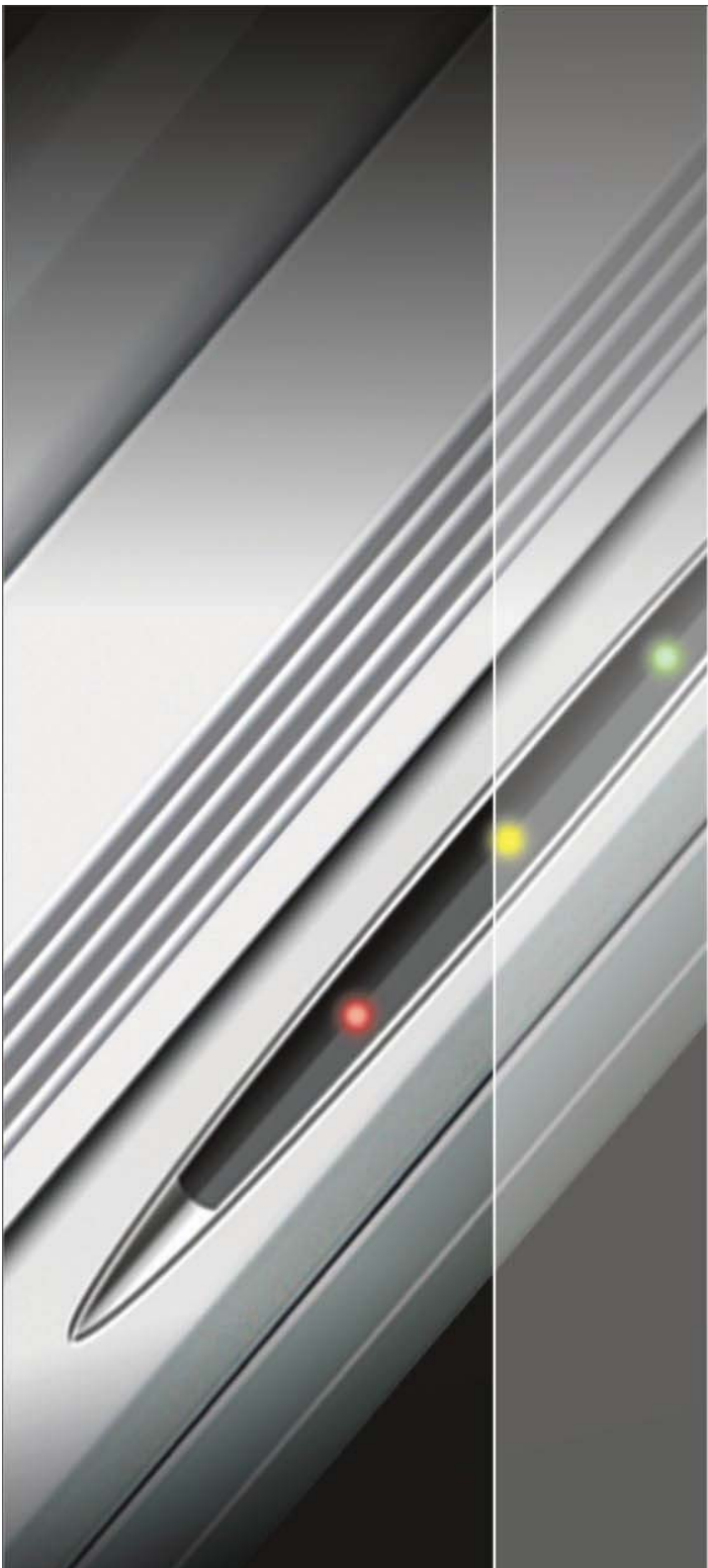
By remote control, set the air conditioning on or off at any moment within 24hours. Just click the time on-off button. You will be able to set the desired open/shut down time.



#### Power failure and memory function

Even if there is a power failure the A/C will remember it's previous setting and record the operation mode before power failure, then automatically return to the former setting when the power comes back on.





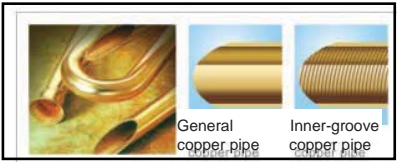
## High efficiency heat exchange

We have adopted a multi-fold heat-exchanger which provides approximately 30% ~ 50% more exchange area than the general one which improves the high energy efficiency ratio of performance. Also equipped with inner-groove copper tube and hydrophilic aluminum foil to achieve the high performance in cooling and heating.



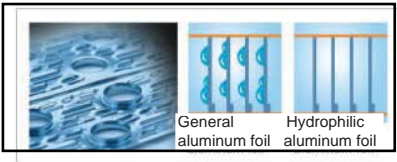
## High-grade inner groove copper pipe

Adopting the high-grade inner-groove copper pipe, has improved the heating and anti-defrosting efficiency of the heat-exchanger.



## Inner-groove copper pipe

Compared with general aluminum foil, hydrophilic aluminum foil does not frost up like other conventional types of A/C units, this also means that corrosion will be minimised.





## Fresh air, Cleanable air conditioner

### 3-layer filter

1. Anti-mould air filter: The anti-mould air filter removes large particles such as fine cotton lint.
2. Active carbon filter: Active carbon filter traps any tiny particles as small as 0.01 microns, such as bacteria and smoke particles.



3-layer filter

### Removes smell

Normal air-conditioners have an objectionable smell when switched on. The deodorization design is adopted so that when unit is switched on it is guaranteed that the first wind is fresh and has no odour.

### Detachable & washable panel

In the past, the panel could not be disassembled for cleaning, and it was difficult to clean away the dirt inside the pane. The new designed front panel can be disassembled, and is very convenient to clean.



## Mounting Bracket for the Thermal Panel

When space is an issue we have the solution.





## Wall-mounted Series K type Thermal System with Panel



> **SWWR-26GV SWWR-35GV SWWR-56GV  
SWWR-60GV SWWR-72GV SWWR-82GV**



### Characteristics

- Fashionable, simple and elegant curved panel make it easy to remove the dust.
- Adopting world-famous compressors including Toshiba, Daikin, Sanyo, etc.
- Four-fold heat-exchange, hydrophilic aluminum foil, and inner-groove copper pipe, high efficiency.
- Airflow direction automatically controlled.
- PTC electric heating element, supplies more heating in winter (34GW: 42GW)
- Strong dehumidification to keep the room dry, and avoid the trouble of intermittent drizzle in the rainy season.
- Room Temp./Set temp. LED display
- Big circulation airflow makes the temperature lower fast and equal.
- Keeps a constant temperature while you are asleep.
- 3-layer filter can kill the germs and remove the dust and smog inside. (option)
- Washable panel for easy cleaning.



\*Product design specifications, features, performance and other technical parameters and appearance of the structure may change subject to the product name plate  
\* This brochure has been proofread, but still there may be errors and omissions in the printing conditions, product images and actual slight deviation may occur

## Wall-mounted Thermal Air Conditioner



| Model No.                      |           |         | SWWR-26GV    | SWWR-35GV    | SWWR-45GV    | SWWR-56GV    |
|--------------------------------|-----------|---------|--------------|--------------|--------------|--------------|
| Capacity                       | Cooling   | Btu/h   | 9000         | 12000        | 15000        | 19000        |
|                                |           | W       | 2600         | 3500         | 4500         | 5600         |
|                                | Heating   | Btu/h   | 10000        | 13000        | 15500        | 20000        |
|                                |           | W       | 2900         | 3800         | 4600         | 5800         |
| Noise                          | Indoor    | dB(A)   | ≤35          | ≤35          | ≤40          | ≤41          |
|                                | Outdoor   | dB(A)   | ≤45          | ≤45          | ≤50          | ≤52          |
| Air Circulation(med. Fan)      |           | m³/h    | 500          | 550          | 650          | 750          |
| Suitable Area (insulated room) |           | m²      | 15-20        | 20-25        | 27-30        | 25-35        |
| EER                            |           | WW      | 4.06         | 5.38         | 4.89         | 4.48         |
|                                |           | Btu/h/w | 12.42        | 13.27        |              | 13.24        |
| R410 Gas                       |           | Grams   | 800          | 880          | 980          | 1150         |
| M60 Gas                        |           | Grams   | 400          | 440          | 490          | 675          |
| <b>Power Consumption</b>       |           |         |              |              |              |              |
| Power Input                    | Off Cycle | W       | 44           | 44           | 44           | 44           |
| Power Input<br>On Cycle        | Cooling   | W       | 500-680      | 560-800      | 800-950      | 1040-1260    |
|                                | Heating   | W       | 500-690      | 560-830      | 800-970      | 1040-1290    |
| Rated Current                  | Cooling   | A       | 2.27-3.00    | 2.54-3.63    | 3.63-4.31    | 4.55-5.72    |
|                                | Heating   | A       | 2.27-3.10    | 2.54-3.77    | 3.63-4.41    | 4.55-5.84    |
| <b>Dimensions</b>              |           |         |              |              |              |              |
| Indoor Unit                    | Net       | mm      | 790*185*270  | 795*215*285  | 795*215*285  | 795*215*285  |
|                                | Shipping  | mm      | 875*245*335  | 905*283*370  | 905*283*370  | 905*283*370  |
| Outdoor Unit                   | Net       | mm      | 760*525*255  | 760*525*255  | 760*525*255  | 760*525*255  |
|                                | Shipping  | mm      | 890*590*360  | 890*590*360  | 890*590*360  | 890*590*360  |
| Collector                      | Net       | mm      | 500*1000*80  | 500*1000*80  | 500*1000*80  | 500*1000*80  |
|                                | Shipping  | mm      | 600*1130*100 | 600*1130*100 | 600*1130*100 | 600*1130*100 |
| <b>Weight</b>                  |           |         |              |              |              |              |
| Indoor Unit                    | Net/Gross | kg      | 9/10.5       | 10/11.5      | 10/11.5      | 12/13.5      |
| Outdoor Unit                   | Net/Gross | kg      | 30/35        | 33/38        | 33/38        | 38/43        |
| Solar Collector                | Net/Gross | kh      | 11/13        | 11/13        | 11/13        | 11/13        |



## Wall-mounted Thermal Air Conditioner

| Model No.                      |           |       | SWWR-60GV    | SWWR-72GV    | SWWR-82GV    |
|--------------------------------|-----------|-------|--------------|--------------|--------------|
| Capacity                       | Cooling   | Btu/h | 22000        | 24000        | 28000        |
|                                |           | W     | 6000         | 7200         | 8200         |
|                                | Heating   | Btu/h | 19000        | 26000        | 29000        |
|                                |           | W     | 6300         | 7900         | 8400         |
| Noise                          | Indoor    | dB(A) | ≤41          | ≤45          | ≤50          |
|                                | Outdoor   | dB(A) | ≤53          | ≤53          | ≤58          |
| Air Circulation(med. Fan)      |           | m³/h  | 900          | 1050         | 1200         |
| Suitable Area (insulated room) |           | m²    | 35-40        | 40-52        | 50-60        |
| EER                            | WW        |       | 4.33         | 4.52         | 4.29         |
|                                | Btu/h/w   |       | 13.24        | 13.24        | 13.24        |
| R410 Gas                       |           | Grams | 1280         | 1900         | 2250         |
| M60 Gas                        |           | Grams | 640          | 950          | 1125         |
| Power Consumption              |           |       |              |              |              |
| Power Input                    | Off Cycle | W     | 50           | 50           | 60           |
| Power Input<br>On Cycle        | Cooling   | W     | 1280-1400    | 1490-1680    | 1810-1960    |
|                                | Heating   | W     | 1280-1470    | 1490-1710    | 1810-1990    |
| Rated Current                  | Cooling   | A     | 5.81-6.36    | 6.78-7.63    | 8.22-8.90    |
|                                | Heating   | A     | 4.55-5.84    | 5.81-6.68    | 6.78-7.77    |
| Dimensions                     |           |       |              |              |              |
| Indoor Unit                    | Net       | mm    | 990*200*330  | 990*200*330  | 1090*255*330 |
|                                | Shipping  | mm    | 1065*255*375 | 1065*255*375 | 1145*315*375 |
| Outdoor Unit                   | Net       | mm    | 850*580*290  | 865*810*310  | 865*810*310  |
|                                | Shipping  | mm    | 995*680*390  | 1025*790*395 | 1025*890*395 |
| Collector                      | Net       | mm    | 500*1000*80  | 500*1000*80  | 500*1000*80  |
|                                | Shipping  | mm    | 600*1130*100 | 600*1130*100 | 600*1130*100 |
| Weight                         |           |       |              |              |              |
| Indoor Unit                    | Net/Gross | kg    | 18/21        | 18/21        | 19/23        |
| Outdoor Unit                   | Net/Gross | kg    | 38/43        | 45/51        | 61/68        |
| Solar Collector                | Net/Gross | kh    | 11/13        | 11/13        | 11/13        |

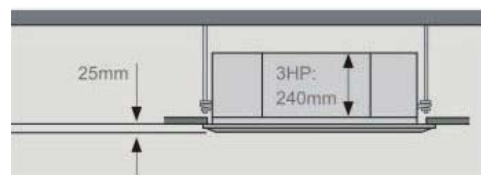
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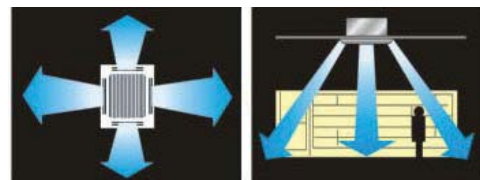
## Compact design, space saver

The cassette series are designed to enable the unit to be installed with minimum ceiling height. It's front panel with 25mm thickness can be installed in almost all ceiling designs without affecting the interior decor, and the thickest part of the main machine is 24cm (3hp), which can be installed in a reasonably small space.



## Turbo fan, lower noise

4-way airflow air conditioners are particularly suitable for use in public spaces such as stores, offices, conference halls, hospitals, schools and restaurants. The 4-way type model takes air in at the center of the unit, with cool airflow in 4 directions. Installation in the center of the room provides greater comfort.



## Turbo fan, lower noise

The fan blade adopts the design of an irregular helix allowing the indoor unit to run at the lowest decibel level.





## Cassette Thermal Air Conditioner Series

**SWCR-60QW  
SWCR140QW**

**SWCR-82QW  
SWCR-200QW**

**SWCR-120QW**



**R410A**

**INVERTER**



### Characteristics

- Using the world-famous brand scroll & rotary compressors including Sanyo, Daikin, etc.
- Adopting uniform size with a square, elegant streamline panel.
- The drain pump can lift condensed water up to 750mm above the plate port.
- Wide angle airflow: 60 degrees from top to bottom.
- Swing grill is easy to clean.
- Keeps a constant temperature while you are asleep.
- Strong dehumidification to keep the room dry, and avoid the trouble of intermittent drizzle in the rainy season.



**R410A**

**INVERTER**



### Characteristics

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- Strong dehumidification to keep the room dry, and avoid the trouble of intermittent drizzle in the rainy season.

## Cassette Thermal Air Conditioner Series



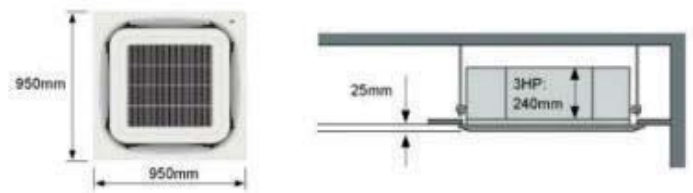
| Model No.                      |           |         | SWCR-60QW    | SWCR82QW      | SWCR-140QW    | SWCR-200QW    |
|--------------------------------|-----------|---------|--------------|---------------|---------------|---------------|
| Capacity                       | Cooling   | Btu/h   | 21000        | 28000         | 48000         | 68000         |
|                                |           | W       | 6000         | 8200          | 14000         | 20000         |
|                                | Heating   | Btu/h   | 22000        | 29000         | 52000         | 72000         |
|                                |           | W       | 6400         | 8400          | 15000         | 21000         |
| Noise                          | Indoor    | dB(A)   | ≤52          | ≤52           | ≤55           | ≤58           |
|                                | Outdoor   | dB(A)   | ≤60          | ≤60           | ≤65           | ≤65           |
| Air Circulation(med. Fan)      |           | m³/h    | 800          | 1150          | 2300          | 3000          |
| Suitable Area (insulated room) |           | m²      | 30-40        | 40-60         | 80-100        | 120-140       |
| EER                            |           | WW      | 4.0          | 3.9           | 3.47          | 3.77          |
|                                |           | Btu/h/w | 12.28        | 12.35         | 11.85         | 11.35         |
| R410 Gas                       |           | Grams   | 1650         | 2600          | 3600          | 4300          |
| Power Consumption              |           |         |              |               |               |               |
| Power Input                    | Cooling   | W       | 1520~1782    | 2080~2430     | 3590~4195     | 5200~5380     |
|                                | Heating   | W       | 1560~1782    | 2150~2455     | 3680~4250     | 5230~5585     |
| Rated Current                  | Cooling   | A       | 6.88~8.12    | 9.47~11.1     | 16.32~19.07   | 23.40~25.12   |
|                                | Heating   | A       | 7.1~8.13     | 9.77~11.2     | 16.72~19.32   | 23.77~25.36   |
| Dimensions                     |           |         |              |               |               |               |
| Indoor Unit                    | Net       | mm      | 590*590*260  | 840*840*240   | 840*840*2240  | 960*960*285   |
|                                | Shipping  | mm      | 675*675*310  | 855*885*260   | 855*885*305   | 1040*1040*305 |
| Indoor Unit Cover Panel        | Net       | mm      | 650*650*30   | 950*950*45    | 950*950*45    | 1140*1140*45  |
|                                | Shipping  | mm      | 720*720*135  | 1005*1005*100 | 1005*1005*100 | 1195*1195*100 |
| Outdoor Unit                   | Net       | mm      | 850*290*580  | 865*310*810   | 910*310*1330  | 910*310*1330  |
|                                | Shipping  | mm      | 995*390*680  | 1025*395*790  | 1080*440*1490 | 1080*440*1490 |
| Collector                      | Net       | mm      | 500*1000*80  | 500*1000*90   | 500*1000*80   | 630*1130*90   |
|                                | Shipping  | mm      | 630*1130*100 | 630*1130*100  | 630*1330*100  | 740*1230*110  |
| Weight                         |           |         |              |               |               |               |
| Indoor Unit                    | Net/Gross | kg      | 25/30        | 35/42         | 40/48         | 55/62         |
| Outdoor Unit                   | Net/Gross | kg      | 45/51        | 56/61         | 122/130       | 130/138       |
| Solar Collector                | Net/Gross | kh      | 11/13        | 11/13         | 11/13         | 11/13         |

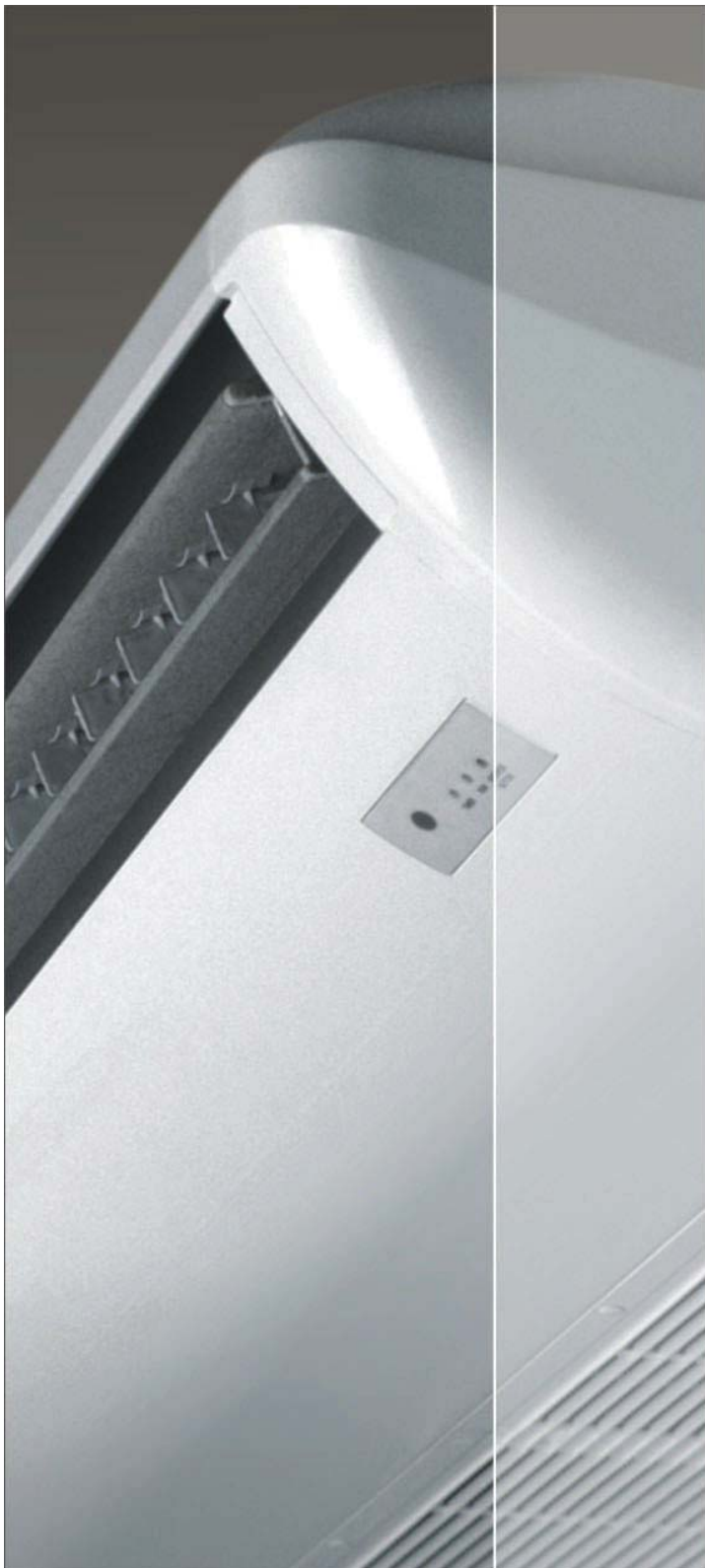


## Cassette Thermal Air Conditioner Series



Swing grill for easy cleaning





## Saving space

The indoor unit can be installed in vertical mode or placed on the floor, thus saving more space. A big room or hall needs a high power air conditioner, and the old style cabinet type air conditioners take up too much space. It's cool and appealing.

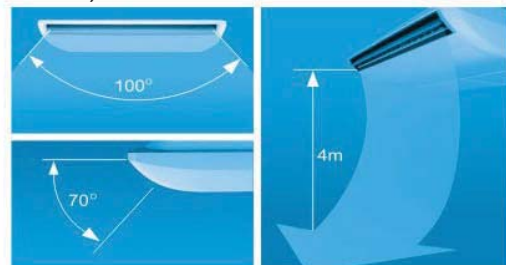


## Quiet operation

The ceiling/floor unit is equipped with a highly efficient, multi-blade centrifugal fan that generates a powerful yet gentle airflow throughout the room. A redesigned aerodynamically tested flap structure minimizes operational sound even at high fan speed.

## Wide angle airflow in 3 dimensions

The Ceiling/floor model air conditioner can send airflow in a wide angle, 70 degrees from top to bottom and 100 degrees from left to right. Fan speed can be adjusted according to the ceiling height (max. ceiling height is 4m)





## Ceiling/Floor Series



**SWSR-60CF**  
**SWSR-140CF**

**SWSR-82CF**  
**SWSR-200CF**



**R410A**

**INVERTER**

### Characteristics

- Adopting a modern design style to coordinate with the different space requirements, providing installation options to coincide with the room decor.
- Adopting world-famous compressors including Toshiba, Mitsubishi, Sanyo, etc.
- Excellent efficiency and energy-saving system.
- Airflow direction automatically.
- High efficiency air purifying filter, all smoke particles are absorbed and refreshes the room.
- Airflow direction automatically controlled.
- Keeps constant temperature while you are asleep.
- Strong dehumidification to keep the room dry, and avoid the trouble of intermittent drizzle in the rainy season.
- The indoor unit is light in design, making it easy to overhang.
- The maintenance space required is smaller and accessed more conveniently..
- Adopting a self protection designs such as power source cut-off protection and phase sequence protection to guarantee operation security.

## Ceiling/Floor Thermal Air Conditioner



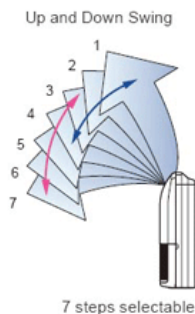
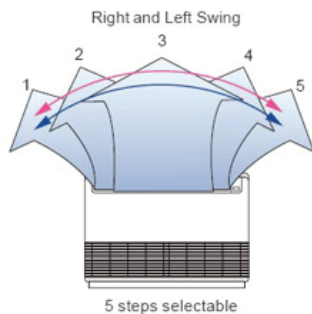
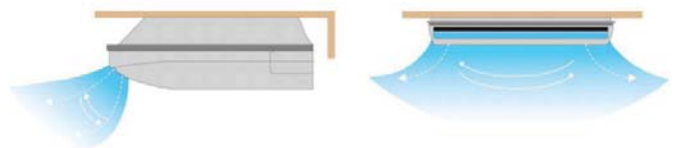
| Model No.                      |           |         | SWSR-60CF    | SWSR-82CF    | SWSR-140CF    | SWSR-200CF    |
|--------------------------------|-----------|---------|--------------|--------------|---------------|---------------|
| Capacity                       | Cooling   | Btu/h   | 20000        | 28000        | 48000         | 68000         |
|                                |           | W       | 6000         | 8200         | 14000         | 20000         |
|                                | Heating   | Btu/h   | 22000        | 29000        | 52000         | 72000         |
|                                |           | W       | 6400         | 8400         | 15000         | 21000         |
| Noise                          | Indoor    | dB(A)   | ≤52          | ≤52          | ≤55           | ≤58           |
|                                | Outdoor   | dB(A)   | ≤60          | ≤60          | ≤65           | ≤65           |
| Air Circulation(med. Fan)      |           | m³/h    | 800          | 1200         | 2200          | 2700          |
| Suitable Area (insulated room) |           | m²      | 25-35        | 35-50        | 70-90         | 90-110        |
| EER                            |           | WW      | 4.0          | 3.90         | 3.42          | 3.77          |
|                                |           | Btu/h/w | 12.28        | 12.35        | 11.65         | 11.35         |
| R410 Gas                       |           | Grams   | 1280         | 2150         | 3600          | 4300          |
| Power Consumption              |           |         |              |              |               |               |
| Power Input                    | Cooling   | W       | 1510~1776    | 2090~2420    | 3600~4191     | 5150~5528     |
|                                | Heating   | W       | 1560~1797    | 2150~2465    | 3750~4208     | 5230~5580     |
| Rated Current                  | Cooling   | A       | 6.86~8.07    | 9.5~11       | 16.36~19.05   | 23.40~25.12   |
|                                | Heating   | A       | 7.1~8.17     | 9.77~11.2    | 17.04~19.12   | 23.77~25.36   |
| Dimensions                     |           |         |              |              |               |               |
| Indoor Unit                    | Net       | mm      | 905*673*243  | 1288*673*243 | 1672*673*243  | 1672*673*243  |
|                                | Shipping  | mm      | 995*765*311  | 1375*675*311 | 1760*765*311  | 1760*765*311  |
| Outdoor Unit                   | Net       | mm      | 850*290*580  | 865*310*810  | 910*340*1330  | 910*340*1330  |
|                                | Shipping  | mm      | 995*390*680  | 1025*395*790 | 1080*440*1490 | 1080*440*1490 |
| Collector                      | Net       | mm      | 500*1000*80  | 500*1000*80  | 500*1000*80   | 500*1000*80   |
|                                | Shipping  | mm      | 630*1130*100 | 630*1130*100 | 630*1130*100  | 630*1130*100  |
| Weight                         |           |         |              |              |               |               |
| Indoor Unit                    | Net/Gross | kg      | 32/38        | 42/48        | 48/55         | 52/62         |
| Outdoor Unit                   | Net/Gross | kg      | 45/51        | 56/61        | 122/130       | 130/138       |
| Solar Collector                | Net/Gross | kh      | 11/13        | 11/13        | 11/13         | 11/13         |



## Ceiling/Floor Thermal Air Conditioner

### Installation Flexibility

All the units can be positioned either on the floor or the ceiling through the use of an L-shaped cover that allow condensation water to be collected in any position. The fastening system is also designed to fix the unit in both positions.



⇒ Steps  
 → Swing: Cooling, Dry and Fan mode  
 → Swing: Heating and Fan mode

### Selection of air outlet

The remote control allows the air outlet direction and the fan function to be chosen with horizontal or vertical sweeps. Likewise, the double deflector slat system uniformly distributes the airflow avoiding the unpleasant effects that direct airflow can cause.



Ceiling & Floor Suspended Systems

## Ducted Low Static Concealed Series

**SWDR-60LS  
SWDR-140LS**

**SWDR-82LS**

**SWDR-120LS  
SWDR-200LS**



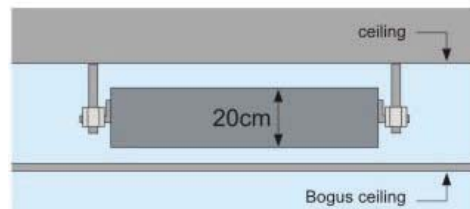
**R410A**

**INVERTER**



**Saving space: 20cm super thin design**

Super thin design, the whole thickness of indoor unit is only 20cm (9000~12000BTU) This is great for suspended ceilings, abling you to use bulk heads to conceal the head unit.



### Characteristics

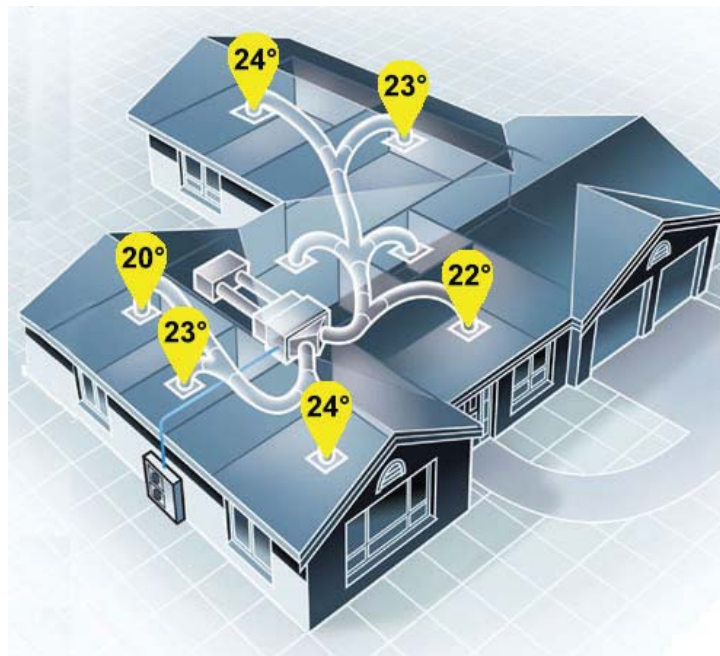
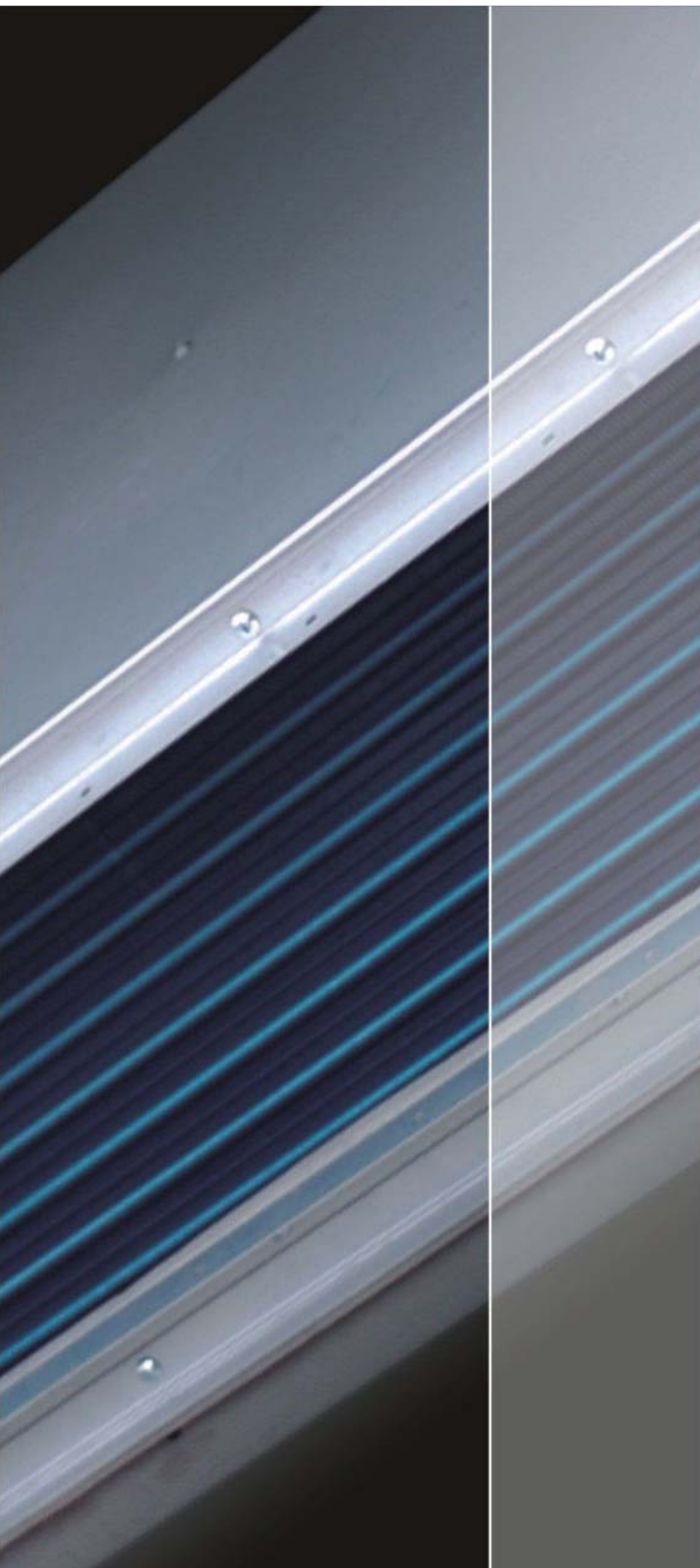
- Super thin design, the whole thickness of indoor unit is only 20cm.
- Multi vane design, make the room more comfortable and harmonious.
- 26dB low noise.
- Keep a constant temperature while you are asleep.
- Strong dehumidification to keep the room dry, and avoid the trouble of intermittent drizzle in the rainy season.



## Solar/Thermal Ducted Series

| Model No.                      |            |       | SWDR-60LS    | SWDR-82LS    | SWDR-120LS   | SWDR-140LS    | SWDR-200LS    |
|--------------------------------|------------|-------|--------------|--------------|--------------|---------------|---------------|
| Capacity                       | Cooling    | Btu/h | 20000        | 28000        | 41000        | 48000         | 68000         |
|                                |            | W     | 6000         | 8200         | 12000        | 14000         | 20000         |
|                                | Heating    | Btu/h | 22000        | 29000        | 45000        | 52000         | 72000         |
|                                |            | W     | 6400         | 8400         | 13000        | 15000         | 21000         |
| Noise                          | Indoor     | dB(A) | ≤52          | ≤52          | ≤55          | ≤55           | ≤58           |
|                                | Outdoor    | dB(A) | ≤60          | ≤60          | ≤65          | ≤65           | ≤65           |
| Air Circulation(med. Fan)      |            | m³/h  | 800          | 1200         | 2000         | 2200          | 2700          |
| Suitable Area (insulated room) |            | m²    | 23-35        | 35-50        | 50-70        | 70-90         | 90-110        |
| EER                            | WW         |       | 4.0          | 3.90         | 3.47         | 3.42          | 3.77          |
|                                | Btu/h/w    |       | 12.28        | 12.35        | 11.85        | 11.65         | 11.35         |
| R410 Gas                       |            | Grams | 1280         | 2150         | 3000         | 3600          | 4300          |
| <b>1280Power Consumption</b>   |            |       |              |              |              |               |               |
| Power Input                    | Cooling    | W     | 1530-1800    | 2120-2450    | 3000         | 2650-4230     | 5250-5580     |
|                                | Heating    | W     | 1580-1830    | 2160-2470    | 3080         | 4050-4300     | 5330-5625     |
| Rated Current                  | Cooling    | A     | 6.95-8.18    | 9.63-11.21   | 13.18        | 16.59-19.22   | 23.86-25.36   |
|                                | Heating    | A     | 7.1-8.32     | 9.82-11.23   | 14.0         | 16.95-19.55   | 24.23-25.57   |
| <b>Dimensions</b>              |            |       |              |              |              |               |               |
| Indoor Unit                    | Net        | mm    | 960*572*240  | 1290*572*240 | 1290*572*240 | 1600*572*240  | 1600*572*240  |
|                                | Shipping   | mm    | 1075*595*265 | 1405*595*265 | 1405*595*265 | 1715*595*265  | 1715*595*265  |
| Outdoor Unit                   | Net        | mm    | 850*290*580  | 865*310*810  | 865*310*810  | 910*340*1330  | 910*340*1330  |
|                                | Shipping   | mm    | 995*390*680  | 1025*395*790 | 1025*395*790 | 1080*440*1490 | 1080*440*1490 |
| Planum                         | Air Inlet  | mm    |              |              |              |               |               |
|                                | Air Outlet | mm    |              |              |              |               |               |
| Collector                      | Net        | mm    | 500*1000*80  | 500*1000*80  | 500*1000*80  | 500*1000*80   | 500*1000*80   |
|                                | Shipping   | mm    | 630*1130*100 | 630*1130*100 | 630*1130*100 | 630*1130*100  | 630*1130*100  |
| <b>Weight</b>                  |            |       |              |              |              |               |               |
| Indoor Unit                    | Net/Gross  | kg    | 32/38        | 38/45        | 60/69        | 48/55         | 55/63         |
| Outdoor Unit                   | Net/Gross  | kg    | 45/51        | 56/61        | 130/138      | 122/130       | 130/13        |
| Solar Collector                | Net/Gross  | kh    | 11/13        | 11/13        | 11/13        | 11/13         | 11/13         |

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 \* This brochure has been proofread, but still there may be errors and omissions in the printing conditions, product images and actual slight deviation may occur.



## Multi Zone Design

According to your needs you can have up to 10 Zones with the 20Kw unit, so each room of your home can be zoned independently. Saving electricity consumption and providing a more economical system.



## 33dB low noise

The splendid quiet processing technology. The large diameter quiet line flow fan, low-noise operation as low as 33dB.



## Solar/Thermal Ducted Series

Our Ducted systems are a convenient and unobtrusive way to heat and cool your house.

**SWDR-100NW-H**  
**SWDR-140NW-H**

**SWDR-120NW-H**  
**SWDR-200NW-H**



**R410A**

**INVERTER**



### Characteristics

- Can be multi zoned.
- The Compressor is much smaller than standard Air Conditioners meaning the system is a lot quieter than conventional systems.
- The most efficient way to cool and heat your home.
- Reduce your carbon footprint and running costs
- Single phase 20kw Systems, which means NO size restriction and no costly 3 phase upgrades.
- Newest technology in the Thermal/Solar Waterless Panels.
- The air conditioners efficiency is greatly improved by combining the thermal/solar panels energy to work in tandem with the compressor.
- The thermal panel works with the compressor to further increase temperature and gas pressure, saving power consumption.
- The indoor ceiling unit produces a greater amount of air flow compared to a standard air conditioning unit.

## Ducted Thermal Air Conditioners



### Technical Data Parameters

For the ultimate in comfort this summer, ducted refrigerated Air Conditioning is the way to go. Refrigerated cooling/ heating systems are exactly what their name implies- they act as a 'Refrigerator' or 'Heater' for your house.





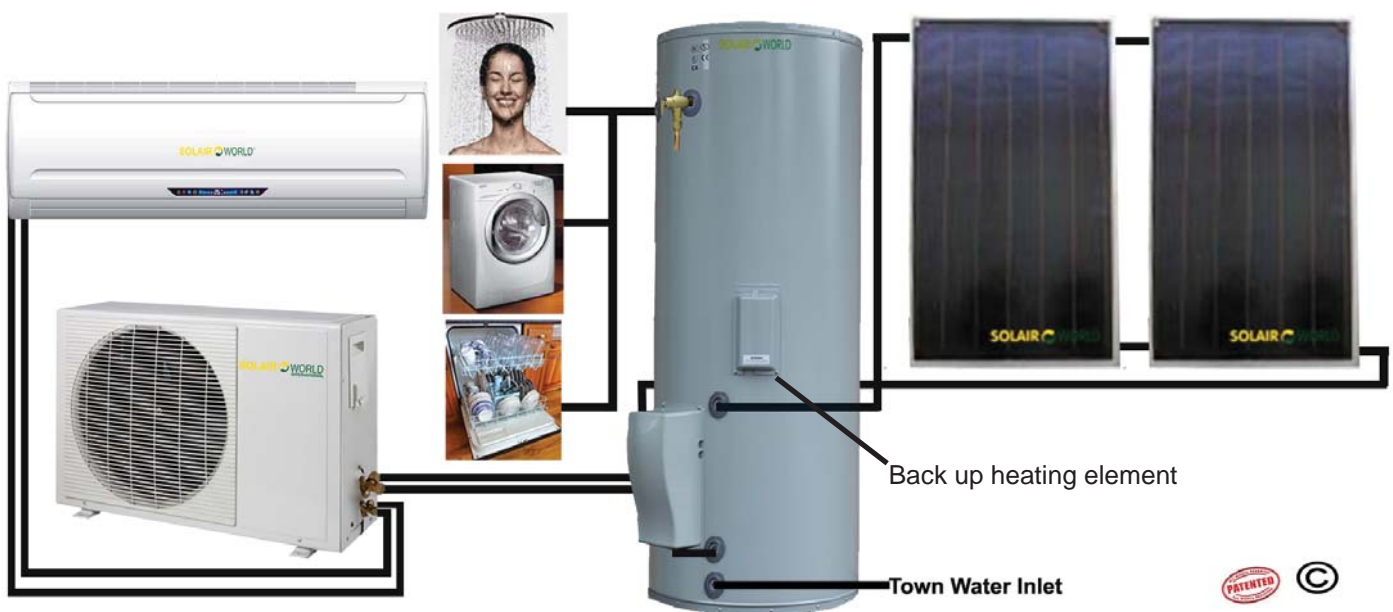
## Ducted Thermal Air Conditioners

| Model No.                      |            |         | SWDR-100NW-H | SWDR-120-NW-H | SWDR-140-NW-H | SWDR-200NW-H  |
|--------------------------------|------------|---------|--------------|---------------|---------------|---------------|
| Capacity                       | Cooling    | Btu/h   | 36000        | 41000         | 48000         | 68000         |
|                                |            | W       | 10000        | 12000         | 14000         | 20000         |
|                                | Heating    | Btu/h   | 38000        | 44000         | 52000         | 73000         |
|                                |            | W       | 11000        | 13000         | 15000         | 21000         |
| Noise                          | Indoor     | dB(A)   | ≤53          | ≤55           | ≤58           | ≤58           |
|                                | Outdoor    | dB(A)   | ≤63          | ≤65           | ≤66           | ≤67           |
| Air Circulation(med. Fan)      |            | m³/h    | 2500         | 3400          | 4000          | 5000          |
| Suitable Area (insulated room) |            | m²      | 80-110       | 110-140       | 140-170       | 170-200       |
| EER                            |            | WW      | 3.87         | 3.87          | 3.87          | 3.83          |
|                                |            | Btu/h/w | 13.2         | 13.2          | 13.2          | 13.1          |
| R410 Gas                       |            | Grams   | 3000         | 4000          | 4000          | 5000          |
| Power Consumption              |            |         |              |               |               |               |
| Power Input                    | Cooling    | W       | 3050         | 3700          | 4190          | 5280          |
|                                | Heating    | W       | 3168         | 3850          | 4320          | 5350          |
| Rated Current                  | Cooling    | A       | 13.86        | 16.82         | 19.04         | 24            |
|                                | Heating    | A       | 14.4         | 17.5          | 19.63         | 24.32         |
| Dimensions                     |            |         |              |               |               |               |
| Indoor Unit                    | Net        | mm      | 1020*535*740 | 1020*535*740  | 1020*535*740  | 1020*535*740  |
|                                | Shipping   | mm      | 1050*570*760 | 1050*570*760  | 1050*570*760  | 1050*570*760  |
| Outdoor Unit                   | Net        | mm      | 910*810*310  | 910*1330*310  | 910*1330*310  | 910*1330*310  |
|                                | Shipping   | mm      | 1080*990*440 | 1080*1490*440 | 1080*1490*440 | 1080*1490*440 |
| Planum                         | Air Inlet  | mm      | 720L*210     | 720L*210      | 720L*210      | 720L*210      |
|                                | Air Outlet | mm      | 762L*416     | 762L*416      | 762L*416      | 762L*416      |
| Collector                      | Net        | mm      | 1100*600*90  | 1100*600*90   | 1100*600*90   | 1100*600*90   |
|                                | Shipping   | mm      | 1150*630*110 | 1150*630*110  | 1150*630*110  | 1150*630*110  |
| Weight                         |            |         |              |               |               |               |
| Indoor Unit                    | Net/Gross  | kg      | 65/72        | 65/72         | 65/72         | 65/72         |
| Outdoor Unit                   | Net/Gross  | kg      | 78/88        | 125/133       | 130/138       | 138/146       |
| Solar Collector                | Net/Gross  | kh      | 11/13        | 11/13         | 11/13         | 11/13         |

## Tri System (with Thermal Solar AC)



SOLAIR WORLD HOT WATER SYSTEMS CAN PROVIDE UP TO 90% OF YOUR HOT WATER NEEDS, FREE FROM THE SUN OR BY CONNECTING TO ONE OF OUR AIR CONDITIONING UNITS.



Installing a SolAir World hot water system reduces the average family's carbon footprint by up to four tonnes of CO<sup>2</sup> per year

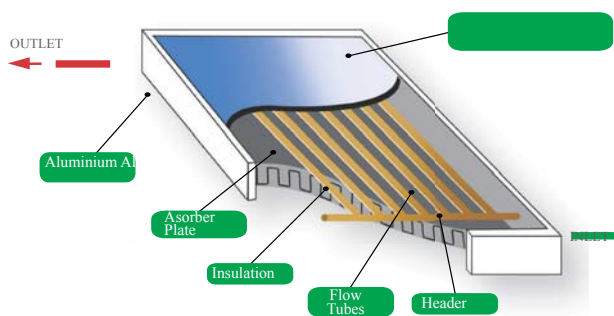
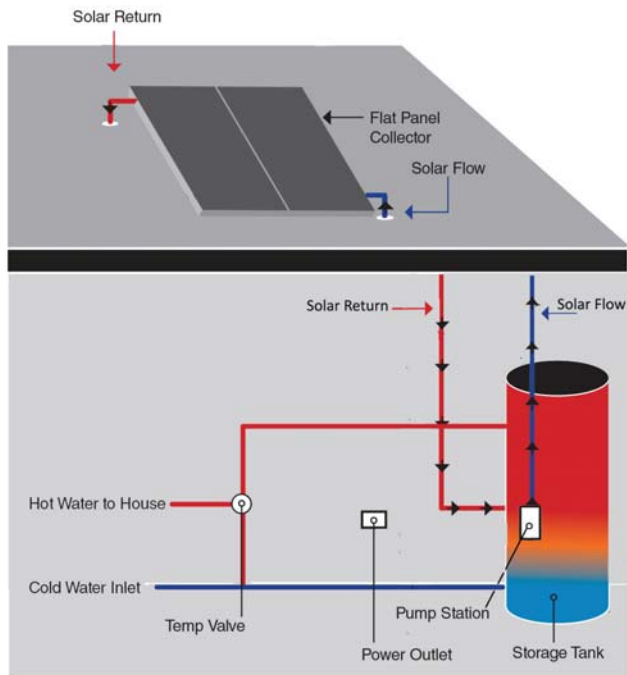
- the equivalent environmental benefit of planting 200 trees or removing 1 standard car off the road.





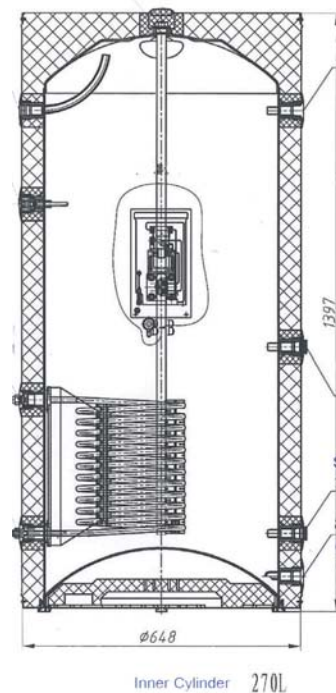
## Tri System (with Thermal Solar AC)

### HOW THE SYSTEM WORKS



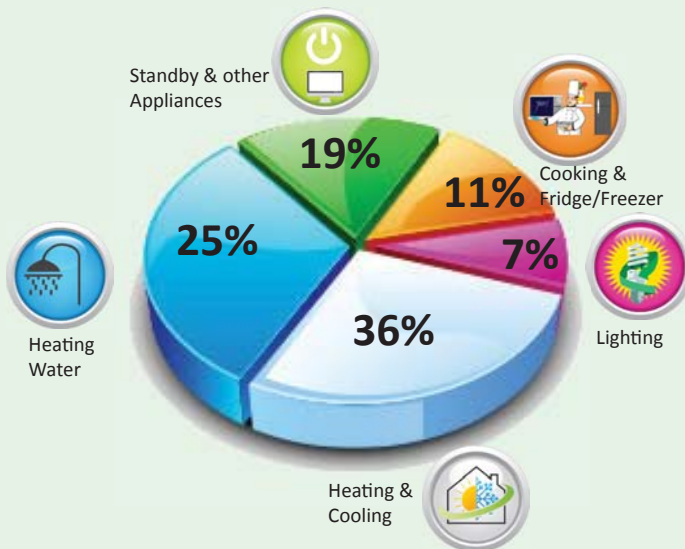
### Characteristics

- 4mm tempered glass impact tested to withstand a 25mm hail stone.
- All copper collector - manifold, rises & fins.
- Black chrome selective coating maximises energy absorption.
- Anodized aluminum alloy frame long lasting.
- Doubled sealed to avoid leakage
- Designed to withstand harsh Australian conditions.
- Manufactured in mild steel with internal glass lined enamel coating for maximum protection against high-tensile stress corrosion.



## Tri System (with Thermal Solar AC)

Conventional hot water systems account for up to 25% of the total energy use in the average Australian home. By switching to a SolAir World's hot water system, you can reduce your water heating bills by up to 90%.



\*Analysis provided by <http://www.sa.gov.au/topics/water-energy-and-environment/energy/saving-energy-at-home/check-and-reduce-your-energy-use/energy-use-at-home> (Website updated 6th March, 2014, Information provided for Department for Manufacturing, Innovation, Trade, Resources & Energy)

### Characteristics

- Made up of Six components. Collector, storage tank, pump, controller booster element and air conditioner unit.
- A Tri System is a system where the heated water in the solar collector is moved around by using a small circulation pump and pump controller. The pump draws the colder water from the bottom of the tank and circulates the water through the collector then returns the water back to the storage tank which has been heated free from the sun.
- When the air conditioner is fitted the refrigerant from the air conditioner passes through a coil inside the tank acting like a heater element in a kettle.
- When the air conditioner is operating it will heat the water for FREE up to 50°.
- Any size SolAir World air conditioner can be fitted to the existing air conditioner ports on the tank.





## Tri System (with Thermal Solar AC)

| MODEL IDENTIFICATION                             | TUBES       |             | PANELS        |               |
|--|-------------|-------------|---------------|---------------|
|  | SAWE-20-270 | SAWE-25-270 | SAWE-120-200  | SAWE-125-270  |
| Tank delivery capacity                           | 250 L       | 250 L       | 180 L         | 250 L         |
| Tank nominal size                                | 270 L       | 270 L       | 200 L         | 270 L         |
| Solar flow and return                            | 3/4"        | 3/4"        | 3/4"          | 3/4"          |
| PTR valve  | 3/4"        | 3/4"        | 3/4"          | 3/4"          |
| Cold inlet                                       | 3/4"        | 3/4"        | 3/4"          | 3/4"          |
| Hot outlet                                       | 3/4"        | 3/4"        | 3/4"          | 3/4"          |
| PTR valve setting (kPa)                          | 850         | 850         | 850           | 850           |
| Rating of PTR valve (Kw)                         | 10          | 10          | 10            | 10            |
| Power consumption of electric heating device(Kw) | 3.6         | 3.6         | 3.6           | 3.6           |
| Number of collectors (panel)                     | N/A         | N/A         | 1             | 1             |
| Size of flat plate (panel)                       | N/A         | N/A         | 2.0mt x 1.0mt | 2.5mt x 1.0mt |
| Number of collectors (tubes)                     | 1           | 1           | N/A           | N/A           |
| Tube quantity of each collector                  | 20          | 25          | N/A           | N/A           |
| Collector inlet                                  | 3/4"        | 3/4"        | 3/4"          | 3/4"          |
| Collector outlet                                 | 3/4"        | 3/4"        | 3/4"          | 3/4"          |
| Circulation pump setting                         | 1           | 1           | 1             | 1             |
| Diam. x Height mm                                | 648 x 1389  | 648 x 1389  | 540 x 1502    | 648 x 1389    |
| Rated voltage                                    | 240V        | 240V        | 240V          | 240V          |
| Air cond. Inlet/outlet diam.                     | 9.4mm (3/8) | 9.4mm (3/8) | 9.4mm (3/8)   | 9.4mm (3/8)   |

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## Cabinet Floor Thermal Air Conditioner



**SWSR-60FS    SWSR-82FS**  
**SWSR-140FS    SWSR-200FS**



**R410A**

**INVERTER**

### Characteristics

- Magnificent appearance.
- Using the world-famous brand scroll compressor.
- Fashion with liquid crystal display.
- Long distance and wide-angle airflow
- Large-diameter turbo fan AND vortex duct are incorporated for powerful and quiet airflow.
- Airflow direction automatically controlled.
- Auxiliary electric heating system is adopted to ensure sufficient air-conditioning even in winter.
- Strong dehumidification to keep the room dry, and avoid the trouble of intermittent drizzle in the rainy season.



Large diameter  
turbo fan



Vortex duct design



Scroll type compressor



## Technical Data Parameters

| Model No.                      |           |       | SWSR-60FS    | SWSR-82FS    | SWSR-140FS    | SWSR-200FS    |
|--------------------------------|-----------|-------|--------------|--------------|---------------|---------------|
| Capacity                       | Cooling   | Btu/h | 20000        | 28000        | 48000         | 68000         |
|                                |           | W     | 6000         | 8200         | 14000         | 20000         |
|                                | Heating   | Btu/h | 22000        | 29000        | 52000         | 72000         |
|                                |           | W     | 6400         | 8400         | 15000         | 21000         |
| Noise                          | Indoor    | dB(A) | ≤52          | ≤52          | ≤55           | ≤58           |
|                                | Outdoor   | dB(A) | ≤60          | ≤60          | ≤65           | ≤65           |
| Air Circulation(med. Fan)      |           | m³/h  | 800          | 1200         | 2200          | 2700          |
| Suitable Area (insulated room) |           | m²    | 25-35        | 35-50        | 70-90         | 90-110        |
| EER                            | WW        |       | 4.0          | 3.90         | 3.42          | 3.77          |
|                                | Btu/h/w   |       | 12.28        | 12.35        | 11.65         | 11.35         |
| R410 Gas                       |           | Grams | 1280         | 2150         | 3600          | 4300          |
| Power Consumption              |           |       |              |              |               |               |
| Power Input                    | Cooling   | W     | 1450~1675    | 2090~2420    | 3550~4098     | 5150~6040     |
|                                | Heating   | W     | 1490~1687    | 2150~2465    | 3680~4139     | 5320~5970     |
| Rated Current                  | Cooling   | A     | 6.59~7.61    | 9.5~10.11    | 16.36~19.39   | 24.0~27.4     |
|                                | Heating   | A     | 6.77~7.67    | 9.68~10.71   | 17.04~19.6    | 24.6~27.77    |
| Dimensions                     |           |       |              |              |               |               |
| Indoor Unit                    | Net       | mm    | 480*295*1700 | 540*280*1785 | 540*280*1785  | 540*280*1785  |
|                                | Shipping  | mm    | 565*375*1777 | 625*375*1855 | 625*375*1855  | 625*375*1855  |
| Outdoor Unit                   | Net       | mm    | 850*290*580  | 865*310*810  | 910*340*1330  | 910*340*1330  |
|                                | Shipping  | mm    | 995*390*680  | 1025*395*790 | 1080*440*1490 | 1080*440*1490 |
| Collector                      | Net       | mm    | 500*1000*80  | 500*1000*80  | 500*1000*80   | 500*1000*80   |
|                                | Shipping  | mm    | 630*1130*100 | 630*1130*100 | 630*1130*100  | 630*1130*100  |
| Weight                         |           |       |              |              |               |               |
| Indoor Unit                    | Net/Gross | kg    | 40/48        | 46/56        | 56/66         | 65/72         |
| Outdoor Unit                   | Net/Gross | kg    | 45/51        | 56/61        | 122/130       | 130/138       |
| Solar Collector                | Net/Gross | kh    | 11/13        | 11/13        | 11/13         | 11/13         |

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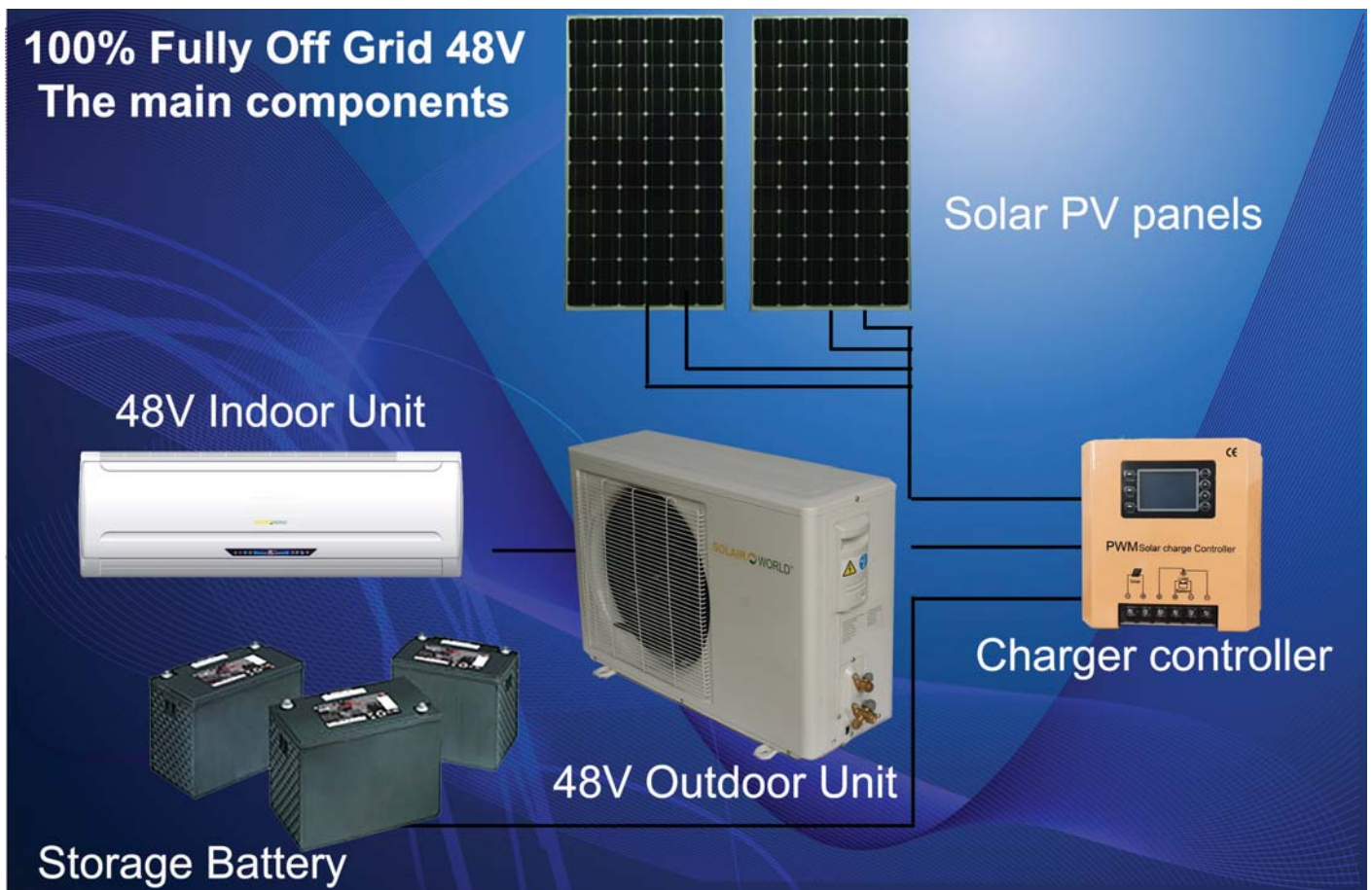
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## Solar power 100% Air Conditioner



### Introducing the all new 100% FULLY OFF THE GRID 48V Air Conditioner.

Run by Solar PV through the day and Battery through the night which are charged Free by the sun. Finally 24 hour cooling and heating that costs you absolutely NOTHING to RUN.





## Solar A/C Centralized Center Technical Parameters

| Model No.                      |               |       | SWWR-26IM   | SWWR-35IM   | SWWR-45IM   | SWWR-56IM    | SWWR-76IM    |
|--------------------------------|---------------|-------|-------------|-------------|-------------|--------------|--------------|
| Capacity                       | Cooling       | Btu/h | 9000        | 12000       | 15000       | 19000        | 26000        |
|                                |               | W     | 2600        | 3500        | 4500        | 5600         | 7600         |
|                                | Heating       | Btu/h | 9500        | 13000       | 16000       | 20000        | 27000        |
|                                |               | W     | 2750        | 3700        | 4700        | 5800         | 7900         |
| Noise                          | Indoor        | dB(A) | ≤35         | ≤38         | ≤40         | ≤42          | ≤43          |
|                                | Outdoor       | dB(A) | ≤45         | ≤50         | ≤52         | ≤53          | ≤55          |
| Air Circulation(med. Fan)      |               | m³/h  | 550         | 600         | 700         | 880          | 1050         |
| Suitable Area (insulated room) |               | m²    | 10-15       | 15-20       | 20-25       | 25-30        | 35-40        |
| EER                            | EER           |       | 5.47        | 7           | 6.9         | 6.1          | 5.7          |
|                                | SEER          |       | 31          | 34          | 33          | 32           | 31           |
| R410 Gas                       |               | Grams | 930         | 950         | 1050        | 1350         | 1550         |
| Energy Efficiency Class        |               |       | A+++        | A+++        | A+++        | A+++         | A+++         |
| Power Consumption              |               |       |             |             |             |              |              |
| Power Input On Cycle           | Cooling       | W     | 475         | 500         | 600         | 892          | 1320         |
|                                | Heating       | W     | 462         | 480         | 630         | 887          | 1290         |
| Rated Current                  | Cooling       | A     | 9.89        | 10.41       | 13.33       | 18.58        | 27.5         |
|                                | Heating       | A     | 9.63        | 10          | 13.12       | 18.47        | 26.87        |
| Dimensions L x H x W (mm)      |               |       |             |             |             |              |              |
| Indoor Unit                    | Net           | mm    | 795*215*285 | 795*215*285 | 795*215*285 | 1090*230*330 | 1090*230*330 |
|                                | Shipping      | mm    | 905*283*370 | 905*283*370 | 905*283*370 | 1145*305*375 | 1145*305*375 |
| Outdoor Unit                   | Net           | mm    | 760*525*255 | 760*525*255 | 760*525*255 | 865*710*310  | 865*710*310  |
|                                | Shipping      | mm    | 890*590*360 | 890*590*360 | 890*590*360 | 1025*790*395 | 1025*790*395 |
| Weight                         |               |       |             |             |             |              |              |
| Indoor Unit                    | Net/<br>Gross | kg    | 10/11       | 10/11       | 10/11       | 18/22        | 18/22        |
| Outdoor Unit                   | Net/<br>Gross | kg    | 30/33       | 30/33       | 31/35       | 48/52        | 70/75        |

\*Product design specifications, features, performance and other technical parameters and appearance of the structure may change subject to the product name plate  
 \* This brochure has been proofread, but still there may be errors and omissions in the printing conditions, product images and actual slight deviation may occur.

## AerisGuard Corrosion Protection Solutions



Features and Benefits of Aerisguard Coil coating as applied to SolAir World's Air Conditioner.



## Environmental Corrosion Protection Solutions



## Consumer Claims

- ▶ Kills all bacteria, fungi and algae
- ▶ Prevents the growth of biofilms
- ▶ Controls virus populations
- ▶ Prevents malodorous (smells)
- ▶ Prevents respiratory irritation
- ▶ Prevents eye irritation.



## Regulatory Compliance

- ▶ Employs quaternary biocides **approved by the US EPA for indirect food contact.**
- ▶ All the other components of the coating are chosen from those approved for **indirect food contact.**

## International validation of the core AerisGuard technology



# AerisGuard Corrosion Protection Validation

## Composition

- AerisCoat is a 3rd generation OEM coating combining polymers with Quaternary biocides.
- The biocides are approved by the US EPA for indirect food contact.
- The liquid coating complies fully with international Biodegradability.

## Technology

- Hydrophilicity - using ASTM test methodology the contact angle was established at 61° at which point the risk of misting from the fin stock is significantly reduced, this compares to 90° for uncoated fin stock.
- Hydrophlicity - Tested to be extremely high at **3 micron coating thickness for the life of the coil.**
- Applied in a single dip process.

## Application Process



### Raw aluminium

Raw aluminium is made into sheet aluminium



### Sheet to Coil Conversion

Sheet aluminium converted into coils by coil manufacturer



### Coils are dipped

Coils are dipped in AerisGuard and cured in just 1 step



### New look after curing

The new reddish brown colour: proof of Airescoat



### Unit Assembly

The Aeriscoat R coils are now assembled into air conditioning units



## AerisGuard Corrosion Protection Validation

### Equipment Benefits

- Extends Cooling Coil life
- Reduce power consumption
- Prevent corrosion of cooling coils
- Last at least five years

### Anti-microbial

- Full Spectrum Bactericide
- Full Spectrum Fungicide
- Resistant to biofilm growth
- 10 year biocidal efficiency

### Anti-corrosive

- Water resistant
- Hard and flexible
- Abrasion resistant
- Very thin layer
- Fast curing
- Excellent adhesion
- Economical
- Easily manufactured
- Stable
- Versatile
- Water based/solvent free
- Non-toxic (indirect food contact)
- Long lasting (5 to 10 years)
- Biofilm resistant (full spectrum)
- Homogeneous (not a dispersion)

### Health Benefits

- Kills all bacteria, fungi and algae
- Prevents the growth of biofilms
- Controls virus populations
- Prevents malodorous (smells)
- Prevents respiratory irritation
- Prevents eye irritation
- Prevents headaches due to breathing biological breakdown products

