# COMMERCIAL SPLIT SYSTEMS (PACi)

# PACi Commercial Split Systems

## New High Performance SPW R410A DC Inverter Split Systems

**This year SANYO's experienced design engineers have gone back to the drawing board and completely overhauled our range of Commercial Split Systems. After extensive research and development we can unveil the Elite PACi. With its advanced features and superior design, the Elite PACi is one of the top performing split systems in the industry.**

The expanded range of new Commercial Split System is of superior performance and quality, providing more choice for customers.

Specifically designed for commercial and retail applications, the ingenious design of the systems not only overcomes the limitations associated with the installation of traditional split systems, but also offers the end user improved comfort and drastically reduced power consumption.

- Single or three phase power supply across the range
- Low start current of indoor units
- Single, twin, triple and quad options
- Systems pre-charged for 30 metres
- Pipe runs up to 100 metres

The SPW DC inverter systems utilise the non-ozone depleting R410A refrigerant, which gives increased system performance, increased energy-efficiency and improved heat transfer, which results in smaller pipe sizes and more compact indoor units.

***Entire new range of Commercial Split Systems!***

Elite PACi | Big PACi | Classic PACi

### Now range extends from 5kW through to 25kW

The new Elite PACi benefits from increased performance and efficiency, with COP ratings that are some of the highest in the industry. For higher capacities, SANYO's Big PACi is a newly compact design with a twin fan, saving valuable installation space compared to traditional 8-10HP systems.

### Wide capacity range

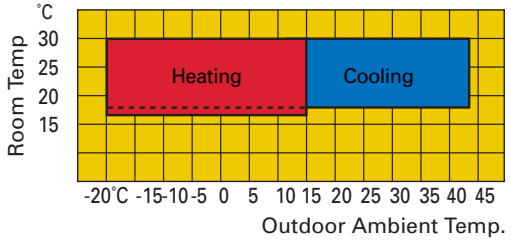
DC inverter-controlled compressors have an operating range of 25-90Hz, which enables the sine wave to be shortened or lengthened, either slowing the compressor to reduce capacity for the nominal figure (measured at 50Hz) or increasing its speed to offer increased output.

Other factors, such as coil size, restrict the maximum output of the system and SANYO would recommend that equipment is always selected at nominal capacity to ensure the optimum lifespan of the equipment.

### Affordable technology

When comparing the COPs of DC inverter systems (which are stated at 100% capacity) with an equivalent fixed speed system, the improved energy-efficiency and consequent lower running costs of the DC inverter can be easily calculated. However, DC Inverters control the room temperature far more precisely, generally operating in part load conditions where the COPs are considerably higher, thereby delivering further substantial energy savings and ensuring that this new technology has an almost immediate payback.

### Operation range (cooling and heat pump model)




*Cooling operation -20°C to 43°C
*Heating operation -20°C to 15°C
Note Heating operation is only for Heat pump model.
Standard PACi heating operation down to -15°C.

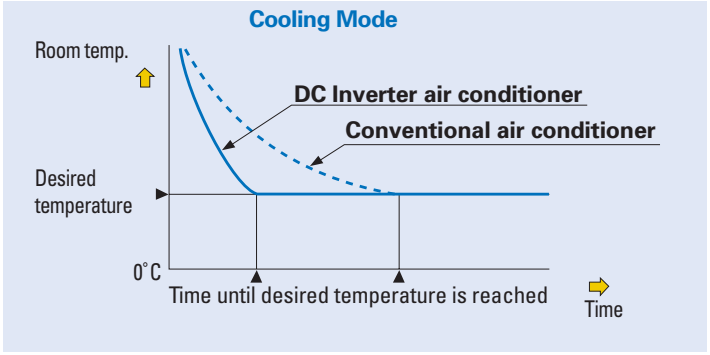


Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

## Taking inverter technology to a new level of comfort

The SPW DC Inverters use Advanced Digital Hybrid (ADH) technology for better, smarter and more cost-efficient year round climate control. Immediately following start-up, the DC compressor operates at maximum power to provide almost instant heating or cooling. As the desired air temperature is reached, a special Pulse Width Module automatically adjusts the compressor's frequency to exactly meet the cooling or heating requirements of the room. The result is exceptionally precise temperature control, less noise and significant energy savings.

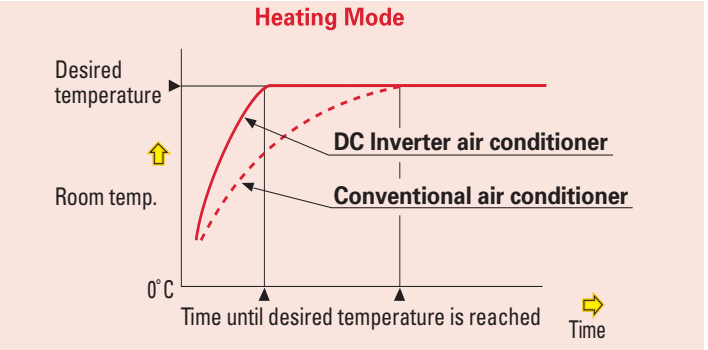
The DC motor uses powerful neodymium magnets, which are approximately 15-20 times stronger than the ferrite magnets used in conventional AC compressors. This, combined with precise digital control, gives the SANYO DC compressor an operation rate 15-20% higher than that of a conventional AC compressor.




## New increased range of indoor units

Not only have the PACi range of outdoor units been completely overhauled, but also our range of indoor units has doubled from four to eight. Added to the range are the XM Mini Cassette, the ultra slim US ducted unit and the specially designed UR square ducted unit with internal filter.

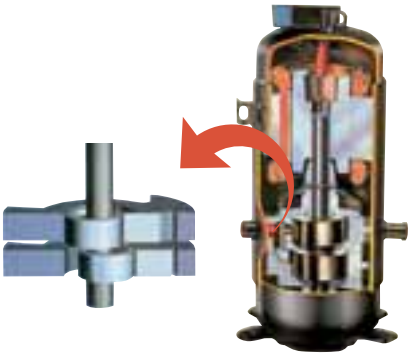
All these units are high-performance and feature rich - just as you would expect from SANYO. They are also designed with the needs of the installer as well as the end user in mind, making installation and maintenance a breeze.

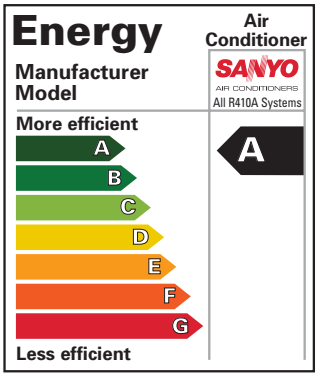



## Twin rotary compressor

The SPW outdoor units utilise the latest SANYO twin rotary compressor, in which perfectly balanced dual rotors revolve smoothly and efficiently to provide powerful, quiet and vibration-free performance.

All SANYO SPW DC inverter systems are highly rated on EEL, which confirms that they are amongst the most energy-efficient systems available. Power consumption during operation is substantially less than that of lower rated units and consequently both the day to day running costs and full life cycle costs are significantly reduced.






Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# PACi Range Overview

## Indoor units

| | | Class | 12 | | 16 | | 18 | | 25 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Capacity | Kw | 3.6 | 4.2 | 4.5 | 45.2 | 5.0 | 5.6 | 7.1 | 8.0 |
| | cooling/heating | BTU/h | 12,000 | 14,000 | 15,000 | 17,500 | 17,000 | 19,000 | 24,000 | 27,000 |
| Page | | | | | | | | | | |
| 49 | KR Type |  | SPW-KR124GH56B | | SPW-KR164GH56B | | SPW-KR184GH56B | | SPW-KR254GH56B | |
| 50 | T Type |  | SPW-T125H | | SPW-T165H | | SPW-T185H | | SPW-T255H | |
| 51 | X Type |  | SPW-X125H Panel PNR-XD484GHAB | | SPW-X165H Panel PNR-XD484GHAB | | SPW-X185H Panel PNR-XD484GHAB | | SPW-X255H Panel PNR-XD484GHAB | |
| | XMR |  | SPW-XMR124EH56B Panel PNR-XM184EHAB | | SPW-XMR164EH56B Panel PNR-XM484EHAB | | SPW-XMR184EH56B Panel PNR-XM484EHAB | | | |
| 52 | ***NEW*** XM Type |  | SPW-XM125H Panel PNR-XM185 | | SPW-XM165H Panel PNR-XM185 | | SPW-XM185H Panel PNR-XM185 | | | |
| 54 | ***NEW*** US Type |  | SPW-US125H | | SPW-US165H | | SPW-US185H | | | |
| 55 | U Type |  | SPW-U125H | | SPW-U165H | | SPW-U185H | | SPW-U225H | |
| 56 | ***NEW*** UR Type with filter |  | | | | | SPW-U185SHT | | SPW-U225SHT | |
| | UM Type |  | SPW-UMR124EH56B | | SPW-UMR164EH56B | | SPW-UMR184EH56B | | | |
| | FT Type - floor/ceiling mounted units |  | SPW-FTR124EH56B | | SPW-FTR164EH56B | | SPW-FTR184EH56B | | | |
| 59 and 63 | D Type |  | | | | | | | | |

## Outdoor units

| | | HP | 2 | | 3 | | 4 | | 5 | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Class | 18 | | 25 | | 36 | | 48 | |
| | Capacity | Kw | 5.0 | 5.6 | 7.1 | 8.0 | 10.0 | 11.2 | 12.5 | 14.0 |
| | cooling/heating | BTU/h | 17,000 | 19,000 | 24,000 | 27,500 | 34,000 | 38,000 | 42,500 | 48,000 |
| Page | | | | | | | | | | |
| | ***NEW*** **Elite** | |  | |  | | | |  | |
| | 1 phase: 220-240V; 50Hz | | SPW-C186VEH | | SPW-C256VEH | | SPW-C366VEH | | SPW-C486VEH | |
| 48 | 3 phase: 380-415V; 50/60Hz | | - | | SPW-C256VEH8* | | SPW-C366VEH8* | | SPW-C486VEH8* | |
| | **Standard** | |  | |  | | | | | |
| | 1 phase: 220-240V; 50/60Hz | | SPW-CR184GVH56B | | SPW-CR254GVH56B | | SPW-CR364GVH56B | | SPW-CR484GVH56B | |
| 60 | 3 phase: 380-415V; 50Hz | | - | | SPW-CR254GVH8B | | SPW-CR364GVH8B | | SPW-CR484GVH8B | |
| | ***NEW*** **Classic** | | | |  | |  | |  | |
| | 1 phase: 220-240V; 50/60Hz | | - | | SPW-CR256VH | | SPW-CR366VH | | SPW-CR486VH | |
| 61 | 3 phase: 380-415V; 50Hz | | - | | SPW-CR256VH8* | | SPW-CR366VH8* | | SPW-CR486VH8* | |

*Green coloured models are in planning



Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

| | 36 | | 48 | | 60 | | 70 | | 90 | | Functions |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10.0 | 11.2 | 12.5 | 14.0 | 14.0 | 16.0 | 20.0 | 22.4 | 25.0 | 28.0 | |
| | 34,000 | 38,000 | 42,500 | 48,000 | 48,000 | 54,500 | 68,200 | 76,400 | 85,300 | 85,500 | |
| | | | | | | | | | | | |
| | | | | | | | | | | | LONG LIFE FILTER, AUTO |
| | SPW-T365H | | SPW-T485H | | SPW-T605H | | | | | | LONG LIFE FILTER, AUTO, AUTO |
| | SPW-X365H Panel PNR-XD484GHAB | | SPW-X485H Panel PNR-XD484GHAB | | SPW-X605H Panel PNR-XD484GHAB | | | | | | LONG LIFE FILTER, DP, AUTO, AUTO |
| | | | | | | | | | | | LONG LIFE FILTER, DP, AUTO, AUTO |
| | | | | | | | | | | | LONG LIFE FILTER, DP, AUTO, AUTO |
| | | | | | | | | | | | LONG LIFE FILTER, DP |
| | SPW-U365H | | SPW-U485H | | SPW-U605H | | | | | | DP |
| | SPW-U365SHT | | SPW-U485SHT | | SPW-U605SHT | | | | | | LONG LIFE FILTER, DP |
| | | | | | | | | | | | LONG LIFE FILTER, DP |
| | | | | | | | | | | | LONG LIFE FILTER |
| | | | | | | | SPW-D0705H | | SPW-D0905H | | |

| | 6 | | 8 | | 10 | |
|---|---|---|---|---|---|---|
| | 60 | | 70 | | 90 | |
| | 14.0 | 16.0 | 20.0 | 22.4 | 25.0 | 28.0 |
| | 48,000 | 54,500 | 68,200 | 76,400 | 85,300 | 95,500 |
| | | | | | | |
| | | | *NEW* **BIG PACi**  | | | |
| | SPW-C606VEH | | - | | - | |
| | SPW-C606VEH8* | | SPW-C706VCH | | SPW-C906VCH | |
| |  | | | | | |
| | SPW-CR604GVH56B | | - | | - | |
| | SPW-CR604GVH8B | | - | | - | |
| | | | | | | |
| | - | | - | | - | |
| | SPW-CR606VH8* | | - | | - | |

Long life filter
Built-in drain pump
Automatic flap
Automatic swing

Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# Elite PACi

R410A

INVERTER Air Conditioner

**Single phase - SPW-C186VEH SPW-C256VEH SPW-C366VEH SPW-C486VEH SPW-C606VEH**
**Three phase - SPW-C256VEH8 SPW-C366VEH8 SPW-C486VEH8 SPW-C606VEH8**

NEW

**The newly designed and engineered Elite PACi is one of the top performers of its type in the industry. Especially designed for light commercial projects where efficiency and performance must not be compromised, the Elite PACi boasts many advanced features. SANYO's DC inverter technology offers outstanding heating and cooling power with quieter operation and energy-saving.**

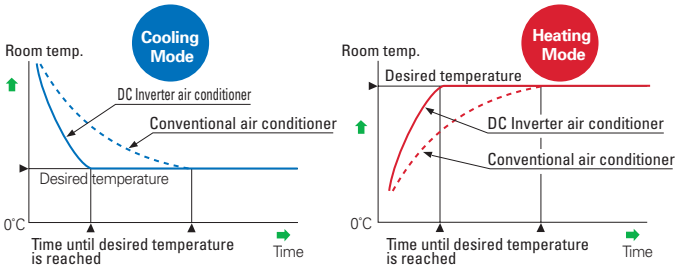
**I can't make these two images any bigger - they are very poor quality**

**[inserted in proof box note 12**

- Newly designed heat exchanger and outdoor fan means that COP ratings are some of the highest in the industry
- Piping length has been increased by 40% to 70m
- Reduced refrigerant charge to help comply with F-Gas regulations
- Now operates at temperatures as low as -20°C in heating and cooling mode
- New compact and lightweight design for ease of installation
- Available in single phase and three phase
- Very quiet operation with sounds levels from just 53 dB(A)
- Ideal for enhancing the air quality in shops, restaurants and other businesses
- Up to 4 indoor units can be fitted on multi-split systems
- Now 8 different styles of indoor units to provide more flexibility for different applications

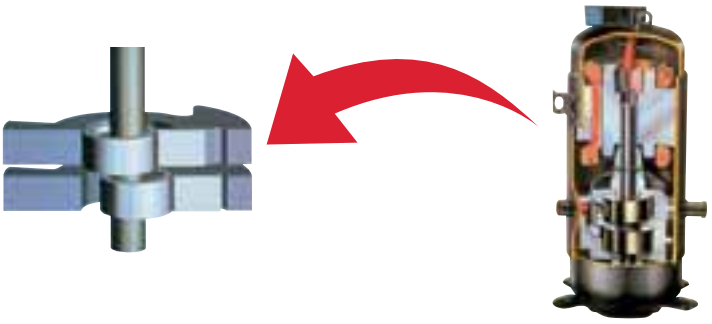
## Quick start up - takes half the time to reach cool or warm air

SANYO DC i nverter technology has efficient rapid heating and cooling capacity which is produced by variable compressor rotation speed; it ensures quicker control of room temperature than conventional air conditioners.




## High efficiency - COPs of up to 4.05

Elite PACi uses a twin rotary compressor. The dual rotors revolve smoothly in a well-balanced fashion for stable and efficient performance. This contributes to increased comfort and rapid heating and cooling as well as ultra-quiet operation.





Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# KR Wall Mounted Unit

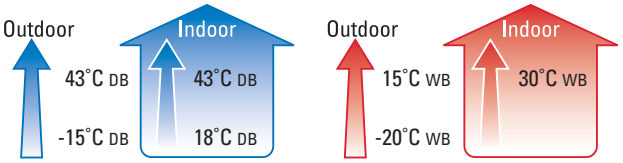
R410A

INVERTER Air Conditioner

**SPW-KR184GH56B SPW-KR254GH56B**

**The slimline designed KR Type Wall Mounted is small and light, making it ideal for commercial applications. It is also available in a wide variety of capacities.**

- Simple, versatile design with anti-mould filters as standard
- Twin rotary compressor dramatically reduces vibration and noise during operation
- Cooling and heating operation down to -15°C
- Low operating sound levels from 32 dB(A)
- Single phase electrical supplier
- Multifunctional wireless remote control with built-in temperature control
- Twin, triple and quadruple split options




## Controller Options

Timer remote controller

RCS-TM80BG

Wireless remote controller

RCS-SH1BGB RCS-BH80AG.WLB

Simplified remote controller

RCS-KR1AGB

## Washable front panel

The indoor unit's front panel can be easily removed and washed for trouble-free cleaning.

For more technical specifications please refer to our new "PACi" Series product brochure 2008

Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# T Type Ceiling Mounted Unit

R410A

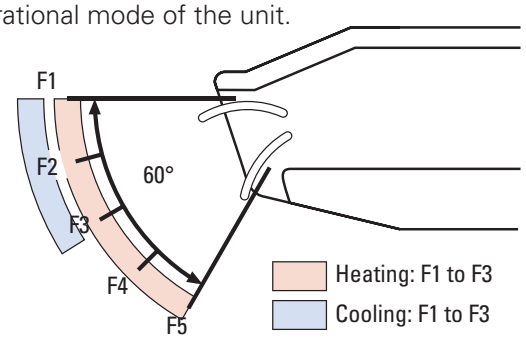
INVERTER Air Conditioner

## SPW-T185H SPW-T255H SPW-T365H SPW-T485H SPW-T605H

**The range of ceiling mounted systems feature a DC fan motor for increased efficiency and reduced operating sound levels. All the units are the same height and depth for a uniform appearance in mixed installations and feature a fresh air knockout for improved air quality.**

- All units just 210mm high
- Twin rotary compressor dramatically reduces vibration and noise during operation
- DC inverter control
- Large and wide air distribution
- SANYO DC fan motor for increased efficiency
- Cooling and heating operation down to -15°C
- Industry low sound levels
- Twin, triple and quadruple split options

Air distribution is automatically altered depending on the operational mode of the unit.




## Controller Options

Timer remote controller

RCS-TM80BG

Wireless remote controller

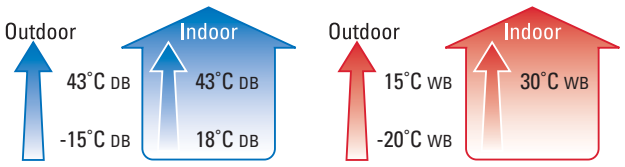
(Transmitter, common part)

RCS-TRP80BG.WLB

RCS-BH80AG.WLB

Simplified remote controller

RCS-KR1AGB




| | | | INVERTER HEAT PUMP | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | size 366 | | size 486 | | size 606 | |
| Performance | | | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Capacity | | kW | 10.0 | 11.2 | 12.5 | 14.0 | 14.0 | 16.0 |
| Power input | | kW | 2.75 | 2.87 | 3.71 | 3.88 | 4.95 | 4.84 |
| EER/COP | | W/W | 3.64 | 3.90 | 3.37 | 3.62 | 2.83 | 3.31 |
| Energy class | | | A | A | A | A | C | B |
| Running amperes 1ph | | A | 13.1 | 13.6 | 19.1 | 18.8 | 25.3 | 24.7 |
| Annual energy consumption (cooling) | | kWh | 1375 | - | - | - | - | - |
| Indoor Unit | | | SPW-T365H | | SPW-T485H | | SPW-T605H | |
| Air-circulation | (H/M/L) | $m^3/h$ | 1650/1380/1260 | | 1800/1560/1320 | | 1800/1560/1320 | |
| Moister removal | | Litres/h | 3.9 | - | 5.6 | - | 5.6 | - |
| Sound power level | (H) | dB(A) | 58 | | 60 | | 60 | |
| Sound pressure level | (H/M/L) | dB(A) | 41/38/35 | | 43/40/37 | | 43/40/37 | |
| Dimensions | (HxWxD) | mm | 210/1595/680 | | 210/1595/680 | | 210/1595/680 | |
| Net weight | | kg | 33 | | 33 | | 33 | |
| Power supply | | V, ph, Hz | 230, 1 + N, 50 | | | | | |
| Outdoor Unit | | | SPW-C366VEH | | SPW-C486VEH | | SPW-C606VEH | |
| Sound power level | (H) | dB(A) | 70 | - | 72 | - | 73 | - |
| Sound pressure level | (H) | dB(A) | 52.0 | 53.0 | 53.0 | 54.0 | 54.0 | 56.0 |
| Dimensions | (H/W/D) | mm | 1330x940x410 | | 1330x940x410 | | 1330x940x410 | |
| Net weight | | kg | 90 | | 95 | | 95 | |
| Power supply | | V, ph, Hz | 230, 1 + N, 50 | | | | | |
| Refrigerant Circuit | | | size 366 | | size 486 | | size 606 | |
| Tube diameter narrow/wide | | Inches | 3/8, 5/8 | | 3/8, 5/8 | | 3/8, 5/8 | |
| Max piping length | | m | 70 | | 70 | | 70 | |
| Max elevation difference - O.U. above/below I.U. | | m | 30 / 15 | | 30 / 15 | | 30 / 15 | |
| Chargeless piping length | | m | 30 | | 30 | | 30 | |
| Amount of additional refrigerant | | g/m | 40 | | 40 | | 40 | |



Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# X Type 4 Way Blow Cassette System

R410A

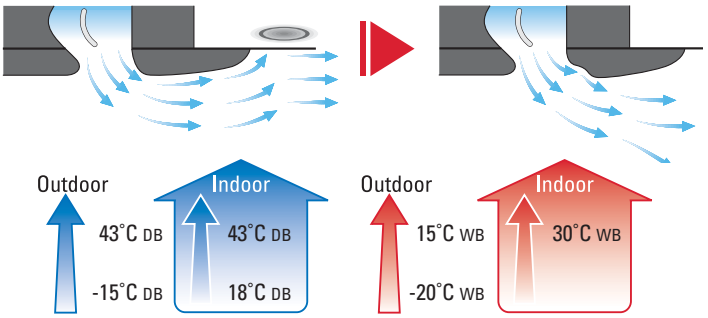
INVERTER Air Conditioner

## SPW-X125H SPW-X165H SPW-X185H SPW-X255H SPW-X365H SPW-X485H SPW-X605H

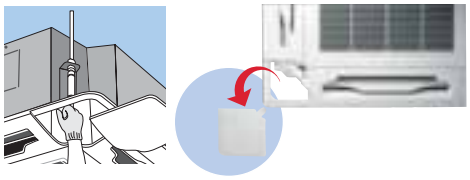
**The award winning range of X Type cassettes are smaller, shallower and lighter than previous models and feature a 950 x 950mm panel throughout. The DC fan motor and new air discharge louvre ensure quiet, optimum air distribution.**

- New compact design
- Twin rotary compressor dramatically reduces vibration and noise during operation
- Reduced sound levels
- DC fan motor for increased efficiency
- Cooling and heating operation down to -15°C
- Powerful drain pump gives 850mm lift
- Fresh air knockout for improved air quality
- Twin, triple and quadruple split options

The airflow is directed away from the unit to help prevent the smudging effect so often seen on ceiling tiles.




## Easy installation



## Controller Options

Timer remote controller

RCS-TM80BG

Wireless remote controller

RCS-SH80BG.WLB



RCS-BH80AG.WLB

(Transmitter, common part)

Simplified remote controller

RCS-KR1AGB

Air intake chamber

Air intake plenum
CMB-FS140AGB

Air intake box
CMB-GS140AGB

*Both Air intake plenum and Air intake box ARE necessary

Panel

PNR-XD484GHAB

| | | | INVERTER HEAT PUMP | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | size 366 | | size 486 | | size 606 | |
| Performance | | | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Capacity | | kW | 10.0 | 11.2 | 12.5 | 14.0 | 14.0 | 16.0 |
| Power input | | kW | 2.50 | 2.80 | 3.57 | 3.66 | 4.37 | 4.54 |
| EER/COP | | W/W | 4.00 | 4.00 | 3.50 | 3.83 | 3.20 | 3.52 |
| Energy class | | - | A | A | A | A | A | B |
| Running amperes 1ph | | A | 11.9 | 13.3 | 17.4 | 17.7 | 22.3 | 23.2 |
| Annual energy consumption (cooling) | | kWh | 1250 | - | - | - | - | - |
| Indoor Unit | | | SPW-X365H | | SPW-X485H | | SPW-X605H | |
| Air-circulation | (H/M/L) | $m^3/h$ | 1680/1380/1260 | | 1980/1500/1320 | | 2040/1620/1380 | |
| Moister removal | | Litres/h | 3.9 | - | 4.6 | - | 4.8 | - |
| Sound power level | (H) | dB(A) | 56 | | 59 | | 59 | |
| Sound pressure level | (H/M/L) | dB(A) | 39/36/33 | | 42/38/34 | | 44/40/36 | |
| Dimensions HxWxD - including Panel | | mm | 354/950/950 | | 354/950/950 | | 354/950/950 | |
| Net weight | | kg | 30.5 | | 30.5 | | 30.5 | |
| Power supply | | V, ph, Hz | 230, 1 + N, 50 | | | | | |
| Outdoor Unit | | | SPW-C366VEH | | SPW-C486VEH | | SPW-C606VEH | |
| Sound power level | (H) | dB(A) | 70 | - | 72 | - | 73 | - |
| Sound pressure level | (H) | dB(A) | 52.0 | 53.0 | 53.0 | 54.0 | 54.0 | 56.0 |
| Dimensions | (H/W/D) | mm | 1330x940x410 | | 1330x940x410 | | 1330x940x410 | |
| Net weight | | kg | 90 | | 95 | | 95 | |
| Power supply | | V, ph, Hz | 230, 1 + N, 50 | | | | | |
| Refrigerant Circuit | | | size 366 | | size 486 | | size 606 | |
| Tube diameter narrow/wide | | Inches | 3/8, 5/8 | | 3/8, 5/8 | | 3/8, 5/8 | |
| Max piping length | | m | 70 | | 70 | | 70 | |
| Max elevation difference - O.U. above/below I.U. | | m | 30 / 15 | | 30 / 15 | | 30 / 15 | |
| Chargeless piping length | | m | 30 | | 30 | | 30 | |
| Amount of additional refrigerant | | g/m | 40 | | 40 | | 40 | |

Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# XM Type Mini Semi-Concealed Cassette

**SPW-XM125H SPW-XM165H SPW-XM185H**

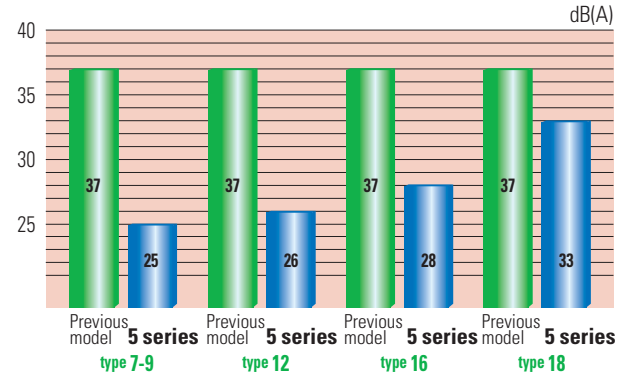
**Designed to fit exactly into a 600x600mm ceiling grid without the need to alter the bar configuration, the XMR is ideal for small commercial and retro fit applications.**

**In addition, the improvements to efficiency make this one of the most advanced units in the industry.**

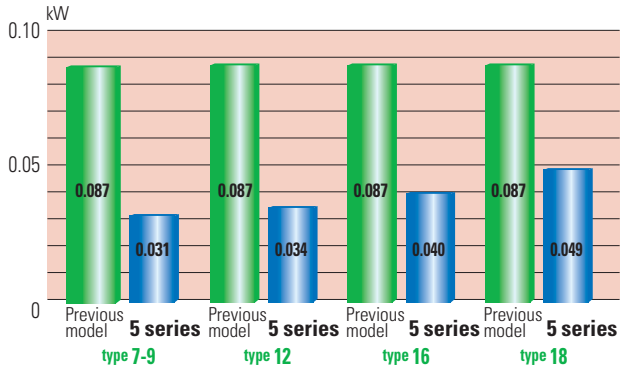
- Fresh air knock out
- Multidirectional air flow
- Integrated drain pump gives 250mm lift
- 3 speed centrifugal fan
- Anti-mould and anti-bacteria washable filters

NEW

## New turbo fans and heat exchanger fins with improved design - and the operating sound has been reduced by up to 12 dB(A)

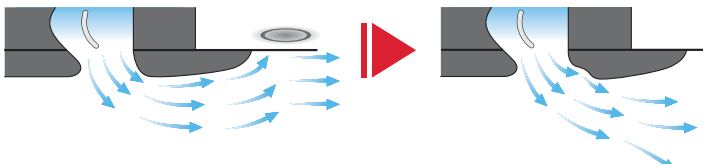



## Significant reduction of power consumption by using newly developed DC fan motors with variable speed, new heat exchangers, etc




## Discharge opening and flap with new design

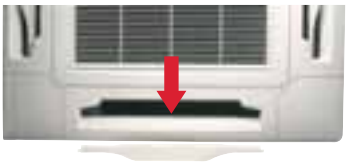
The condensate and dirt that appears near the discharge ports of conventional ceiling cassettes have been reduced.



Previous
The discharged air hits the ceiling and causes dirt.

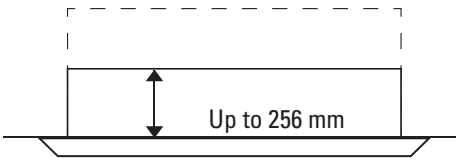
New ceiling cassette
Upward air flow is suppressed.

The flap can be removed easily for washing.



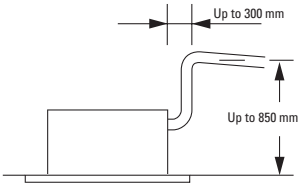
## Lighter and slimmer, easier installation

A lightweight unit at 26 kg (for type 36-60), the unit is also very slim with a height only 256 mm (7-25), making installation possible even in narrow ceilings.




## A drain height of approx. 850 mm from the ceiling surface

The drain height can be increased by approx. 350 mm over the conventional value by using a high-lift drain pump, and long horizontal piping is possible.






Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

## Controller Options

Timer remote controller

RCS-TM80BG

Wireless remote controller

RCS-XM18BG.WL

RCS-BH80BG.WL

Simplified remote controller

RCS-KR1AGB

Panel

PNR-XM185

| | | | INVERTER HEAT PUMP | | |
|---|---|---|---|---|---|
| Model name | | | SPW-XM125H | SPW-XM165H | SPW-XM185H |
| Power source | | | 220/230/240V, 1 phase-50,60Hz | | |
| Cooling capacity | | kW | 3.6 | 4.5 | 5.0 |
| | | BTU/h | 12,000 | 15,000 | 17,000 |
| Heating capacity | | kW | 4.2 | 5.2 | 5.6 |
| | | BTU/h | 14,000 | 17,500 | 19,000 |
| Moisture removal (High) | | Litres/h | 1.1 | 1.5 | 1.9 |
| Power input | Cooling | kW | 0.026/0.02 /0.027 | 0.030/0.031/0.031 | 0.037/0.038/0.038 |
| | Heating | kW | 0.017/0.017/0.018 | 0.020/0.021/0.021 | 0.029/0.029/0.029 |
| Running amperes | Cooling | A | 0.18/0.18/0.17 | 0.21/0.21/0.20 | 0.29/0.29/0.28 |
| | Heating | A | 0.15/0.15/0.14 | 0.18/0.18/0.17 | 0.26/0.26/0.25 |
| Fan motor | Type | | Centrifugal fan | | |
| | Airflow rate (H/M/L) | m³/min | 9/8/7 | 10.7/8.5/7.5 | 12.5/10.5/9 |
| | Output | kW | 0.020 | | |
| Power sound level (H/M/L) | | dB(A) | 49/46/42 | 53/48/45 | 58/54/50 |
| Operating sound (H/M/L) | | dB(A) | 32/29/26 | 36/32/28 | 41/37/33 |
| Dimensions | Height | mm | 283 | | |
| | Width | mm | 575<625> | | |
| | Depth | mm | 575<625> | | |
| Piping connections | Liquid (Flare) | mm | 6.35(1/4) | | |
| | Gas (Flare) | mm | 12.7(1/2) | | |
| | Drain piping | | VP-20 | | |
| Net weight | | kg | 16+<2.4> | | |

Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

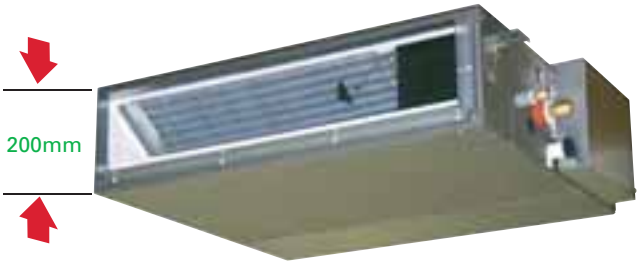
# US Type Ultra-Slim Concealed Duct R410A INVERTER Air Conditioner

## SPW-US125H SPW-US165H SPW-US185H

**The new-ultra slim US Type is one of the leading products of its type in the industry. With a depth of only 200mm it provides greater flexibility and can be used in far more applications. In addition, its high-efficiency and extremely quiet sound levels make it very popular with many users, including hotels and small offices.**

NEW

- Ultra-slim profile: 200mm for all models
- Reduced power consumption by 50%
- 40pa static pressure
- Extremely quiet: 26 dB(A) at low speed (class 7,9,12)
- Anti-mould washable filters included
- Easy maintenance and service by an external electrical box
- 3 speed centrifugal fan through wired or wireless remote control
- DC fan motor reduces power consumption
- Ideal for applications with limited false ceiling space
- Built in drain pump




## Controller Options

Timer remote controller

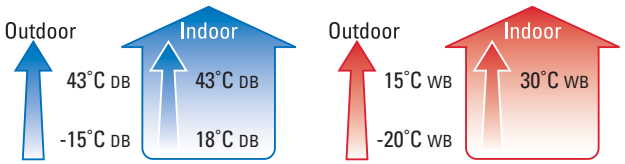
RCS-TM80BG

Wireless remote controller

RCS-BH80AG.WLB

Simplified remote controller

RCS-KR1AGB




| Model name | | | | SPW-US125H | SPW-US165H | SPW-US185H |
|---|---|---|---|---|---|---|
| Power source | | | | 220/230/240V, 1 phase-50,60Hz | | |
| Cooling capacity | | | kW | 3.6 | 4.5 | 5.0 |
| | | | BTU/h | 12,000 | 15,000 | 17,000 |
| Heating capacity | | | kW | 4.2 | 5.2 | 5.6 |
| | | | BTU/h | 14,000 | 17,500 | 19,000 |
| Power input | | Cooling | kW | 0.042/0.042/0.042 | 0.049/0.049/0.049 | 0.064/0.064/0.064 |
| | | Heating | kW | 0.032/0.032/0.032 | 0.039/0.039/0.039 | 0.054/0.054/0.054 |
| Running amperes | | Cooling | A | 0.31/0.31/0.31 | 0.37/0.37/0.37 | 0.48/0.48/0.48 |
| | | Heating | A | 0.28/0.28/0.28 | 0.34/0.34/0.34 | 0.45/0.45/0.45 |
| Fan motor | Type | | | Sirocco fan | | |
| | Airflow rate | (H/M/L) | $m^3$/min | 9/8/7 | 10.5/9.5/8 | 12.5/11.5/10 |
| | Output | | kW | 0.05 | | |
| External static pressure | | Standard | Pa | 15 | | |
| | | High static pressure | Pa | 40 | | |
| Power sound level | | (H/M/L) | dB(A) | 47/45/43 | 49/47/45 | 52/50/48 |
| Operating sound | | (H/M/L) | dB(A) | 32/30/28 | 34/32/30 | 35/33/31 |
| Moisture removal | | (High) | Litres/h | 1.2 | 1.7 | 1.8 |
| Unit dimensions | | Height | mm | 200 | | |
| | | Width | mm | 750 | | |
| | | Depth | mm | 640 | | |
| Package dimensions | | Height | mm | 220 | | |
| | | Width | mm | 1030 | | |
| | | Depth | mm | 745 | | |
| Piping connections | | Liquid (flare) | mm | 6.35(1/4) | | |
| | | Gas (flare) | mm | 12.7(1/2) | | |
| | | Drain piping | | VP-20 (OD26) | | |
| Net weight | | | kg | 19 | | |
| Shipping weight | | | kg | 23 | | |
| Shipping volume | | | $m^3$ | 0.169 | | |



Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# U Type Ducted Systems

R410A INVERTER Air Conditioner

## SPW-U365H SPW-U485H SPW-U605H

**The U Type ducted systems are the ideal solution for flexible, concealed air conditioning and the standard 200mm spigots ensure simple, hassle-free connection to spiral ductwork.**

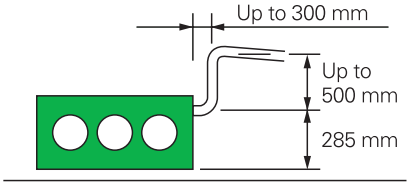
- Extremely quiet operation from 25dB(A)
- Integrated drain pump gives 785mm lift
- Auto restart after power failure
- Auto changeover
- Twin, triple and quadruple split options

The new powerful built-in drain pump has an improved lift of 785mm.

| Indoor Unit Size | Pa | 254 | 364 | 484 |
|---|---|---|---|---|
| Standard | Pa | 50 | 79 | 78 |
| With booster cable | Pa | 92 | 122 | 113 |

Flexible air distribution is achieved by discharge grilles.

The static pressure can be increased by using a booster cable, which is particularly useful should the ductwork layout be changed after the initial installation.




## Controller Options

Timer remote controller

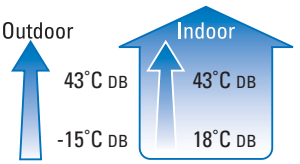
RCS-TM80BG

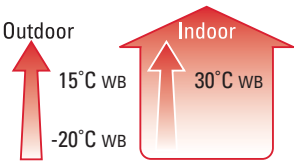
Wireless remote controller

RCS-BH80AG.WLB

Simplified remote controller

RCS-KR1AGB




| | | INVERTER HEAT PUMP | | | | | |
|---|---|---|---|---|---|---|---|
| | | size 366 | | size 486 | | size 606 | |
| Performance | | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Capacity | kW | 10.0 | 11.2 | 12.5 | 14.0 | 14.0 | 16.0 |
| Power input | kW | 2.89 | 3.07 | 4.10 | 4.13 | 4.96 | 5.08 |
| EER/COP | W/W | 3.46 | 3.65 | 3.05 | 3.39 | 2.82 | 3.15 |
| Energy class | - | A | A | B | B | C | C |
| Running amperes 1ph | A | 13.5 | 14.3 | 19.2 | 19.7 | 24.9 | 25.5 |
| Annual energy consumption (cooling) | kWh | 1445 | - | - | - | - | - |
| Indoor Unit | | SPW-U365H | | SPW-U485H | | SPW-U605H | |
| Air-circulation (H/M/L) | m³/h | 1800/1560/1260 | | 1980/1800/1500 | | 1980/1800/1500 | |
| Moister removal | Litres/h | 4.2 | - | 6.6 | - | 6.6 | - |
| Sound power level (H) | dB(A) | 64 | | 66 | | 66 | |
| Sound pressure level (H/M/L) (with booster cable) | dB(A) | 38/33/31 (42/38/33) | | 40/37/33 (44/40/37) | | 40/37/33 (44/40/37) | |
| Dimensions (HxWxD) | mm | 310/1480/630 | | 310/1480/630 | | 310/1480/630 | |
| Net weight | kg | 47 | | 47 | | 47 | |
| Power supply | V, ph, Hz | 230, 1 + N, 50 | | | | | |
| Outdoor Unit | | SPW-C366VEH | | SPW-C486VEH | | SPW-C606VEH | |
| Sound power level (H) | dB(A) | 70 | - | 72 | - | 73 | - |
| Sound pressure level (H) | dB(A) | 52.0 | 53.0 | 53.0 | 54.0 | 54.0 | 56.0 |
| Dimensions (H/W/D) | mm | 1330x940x410 | | 1330x940x410 | | 1330x940x410 | |
| Net weight | kg | 90 | | 95 | | 95 | |
| Power supply | V, ph, Hz | 230, 1 + N, 50 | | | | | |
| Refrigerant Circuit | | size 366 | | size 486 | | size 606 | |
| Tube diameter narrow/wide | Inches | 3/8, 5/8 | | 3/8, 5/8 | | 3/8, 5/8 | |
| Max piping length | m | 70 | | 70 | | 70 | |
| Max elevation difference - O.U. above/below I.U. | m | 30/15 | | 30/15 | | 30/15 | |
| Chargeless piping length | m | 30 | | 30 | | 30 | |
| Amount of additional refrigerant | g/m | 40 | | 40 | | 40 | |

Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# UR Type Concealed Duct

**SPW-U185SHT SPW-U255SHT SPW-U365SHT SPW-U485SHT SPW-U605SHT**

**The new UR Type is designed specifically for applications requiring fixed square ducting. With internal filter and 10kW cooling capacity the UR Type is ideal for installations such as apartments.**

- Powerful and compact design for easier installation in any commercial space
- High static pressure available for optimum air distribution
- Low operating sound levels
- R410A refrigerant
- Highly efficient scroll compressor
- Piping length up to 100m
- Cooling and heating operation down to -15°C
- Air off sensors avoids cold air dumping
- Multifunctional wireless remote control with built-in temperature control
- Piping outlet in 3 directions
- Fresh air knockout for improved air quality


## The static pressure outside the unit can be increased

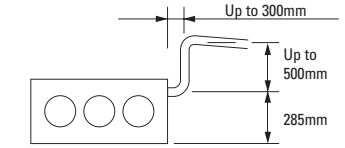
By using the booster cable, the static pressure outside the unit can be increased.

| type | 7-9-12 | 16-18 | 25 | 36 | 46-60 |
|---|---|---|---|---|---|
| standard | 49 | 40 | 50 | 79 | 78 |
| with booster cable use | 69 | 62 | 92 | 122 | 113 |

(Pa)

## Drain pump with increased power

By adoption of a high-lift drain pump, the drain piping rise height can be increased to 785 mm from the lower surface of the body.




## Unified body height of approx. 310 mm for all models

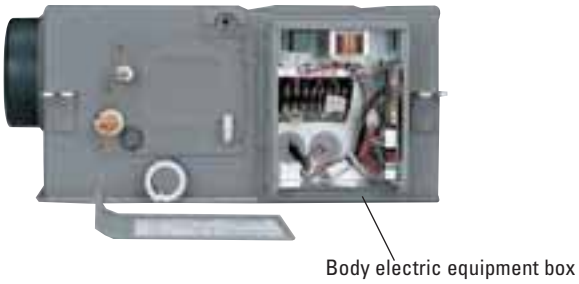
Even models with different capacities can be installed smoothly in the ceiling.

## Lowest noise levels in the industry

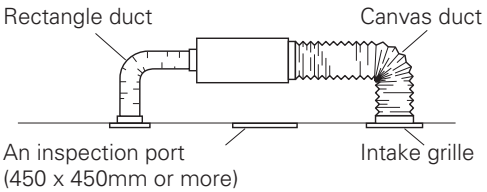
## Anti-mould washable filters included

## Easy maintenance by external installation of the electric equipment box

## System example




An inspection port (450 x 450mm or more) is required at the lower side of the unit body.






Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

## Controller Options

Timer remote controller

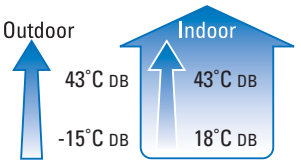
RCS-TM80BG

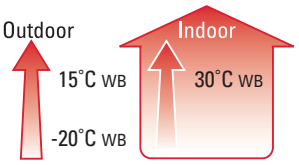
Wireless remote controller

RCS-BH80AG.WLB

Simplified remote controller

RCS-KR1AGB




| | | INVERTER HEAT PUMP | | | | | |
|---|---|---|---|---|---|---|---|
| | | size 366 | | size 486 | | size 606 | |
| Performance | | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Capacity | kW | 10.0 | 11.2 | 12.5 | 14.0 | 14.0 | 16.0 |
| Power input | kW | 2.89 | 3.07 | 4.10 | 4.13 | 4.96 | 5.08 |
| EER/COP | W/W | 3.46 | 3.65 | 3.05 | 3.39 | 2.82 | 3.15 |
| Energy class | - | A | A | B | B | C | C |
| Running amperes 1ph | A | 13.5 | 14.3 | 19.2 | 19.7 | 24.9 | 25.5 |
| Annual energy consumption (cooling) | kWh | 1445 | - | - | - | - | - |
| Indoor Unit | | SPW-U365SHT | | SPW-U485SHT | | SPW-U605SHT | |
| Air-circulation (H/M/L) | $m^3/h$ | 1800/1560/1260 | | 1980/1800/1500 | | 1980/1800/1500 | |
| Moister removal | Litres/h | 4.2 | - | 6.6 | - | 6.6 | - |
| Sound power level (H) | dB(A) | 64 | | 66 | | 66 | |
| Sound pressure level (H/M/L) (with booster cable) | dB(A) | 38/33/31 (42/38/33) | | 40/37/33 (44/40/37) | | 40/37/33 (44/40/37) | |
| Dimensions (HxWxD) | mm | 310/1480/686 | | 310/1480/686 | | 310/1480/686 | |
| Net weight | kg | 47 | | 47 | | 47 | |
| Power supply | V, ph, Hz | 230, 1 + N, 50 | | | | | |
| Outdoor Unit | | SPW-C366VEH | | SPW-C486VEH | | SPW-C606VEH | |
| Sound power level (H) | dB(A) | 70 | - | 72 | - | 73 | - |
| Sound pressure level (H) | dB(A) | 52.0 | 53.0 | 53.0 | 54.0 | 54.0 | 56.0 |
| Dimensions (H/W/D) | mm | 1330x940x410 | | 1330x940x410 | | 1330x940x410 | |
| Net weight | kg | 90 | | 95 | | 95 | |
| Power supply | V, ph, Hz | 230, 1 + N, 50 | | | | | |
| Refrigerant Circuit | | size 366 | | size 486 | | size 606 | |
| Tube diameter narrow/wide | Inches | 3/8, 5/8 | | 3/8, 5/8 | | 3/8, 5/8 | |
| Max piping length | m | 70 | | 70 | | 70 | |
| Max elevation difference - O.U. above/below I.U. | m | 30/15 | | 30/15 | | 30/15 | |
| Chargeless piping length | m | 30 | | 30 | | 30 | |
| Amount of additional refrigerant | g/m | 40 | | 40 | | 40 | |

Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# Big PACi

**SPW-C706VH8 SPW-C906VH8**

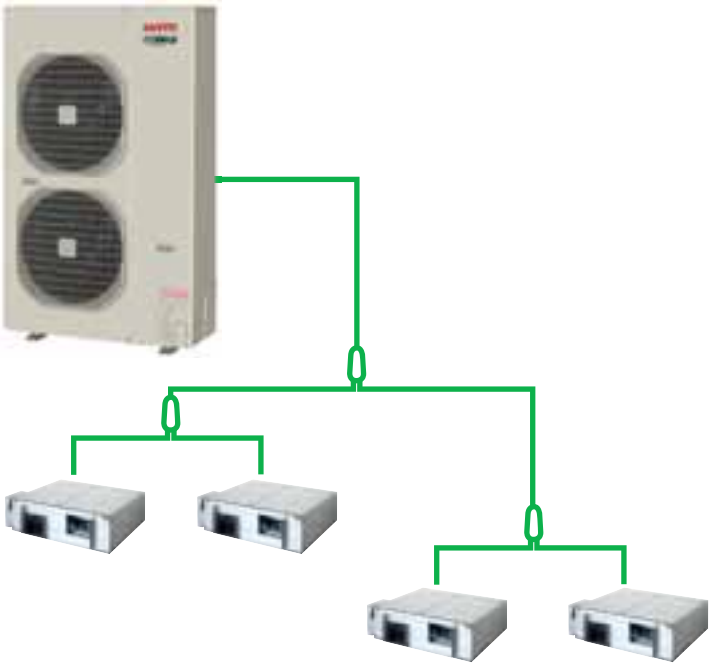
## Powerful performance in a compact space

**SANYO's Big PACi breaks new ground in offering high-performance and power in a small space. The Big PACi is ideally suited for large retail applications and other large areas not needing the higher capacities of VRF systems. The new lightweight and compact design enables easier installation in any commercial space. The twin fan system saves valuable footprint compared to traditional 8-10HP systems which have a larger footprint design.**

NEW

The new high capacity range of condensing units utilises highly efficient twin scroll compressors and R410A refrigerant. The outdoor unit can be mounted up to 100 metres away from its associated indoor unit. The result is a very flexible cooling and heating solution for large commercial applications. The outdoor units are capable of providing heating and cooling down to -15°C, ensuring a comfortable environment all year round, and each can be matched with a single ducted unit or up to four indoor units of the same type.

- Compact twin fan design saving on valuable footprint
- Highly efficient inverter compressor
- Reduced weight
- Forward discharge fan - unique design for this size capacity unit
- High capacity 8-10 HP
- Maximum pipe length 100m (more than 40% longer than other split systems)
- 3 phase
- Simultaneous operation with multiple combinations (only with common indoor units)
- Twin, triple and quad systems available
- Now 8 different styles of indoor units to provide more flexibility for different applications
- Operates at temperatures as low as -15˚C in heating and cooling mode





Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# D Range High Static Systems

R410A INVERTER Air Conditioner

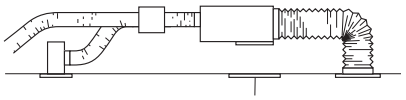
**D0705H8 D0905H8**

**The D range high static ducted systems are the ideal solution for flexible, concealed air conditioning of large areas such as retail and entertainment projects.**

- High static pressure available for optimum air distribution
- Low operating sound levels
- R410A refrigerant
- Highly efficient scroll compressor
- Piping length up to 100m
- Cooling and heating operation down to -15°C
- Multifunctional wireless remote control with built-in temperature control
- Piping outlet in three directions
- Fresh air knockout for improved air quality

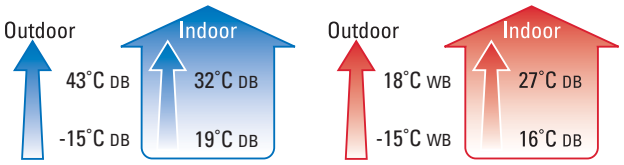
## System example

An inspection port (450 x 450mm or more) is required at the lower side of the indoor unit body. Distributor (field supply)



Inspection port (450 x 450mm or more)

The D range of high capacity ducted units make an ideal solution when heating or cooling large open plan areas such as car showrooms, theatres, studios and similar applications. The high static pressure (215pa - size 905) makes the use of extended ductwork practicable, which allows the indoor unit to be concealed within a suitable area of the building.




## Options

Timer remote controller

RCS-TM80BG

Wireless remote controller

RCS-BH80AG.WLB

Simplified remote controller

RCS-KR1AGB

| Big PACi | | | | | |
|---|---|---|---|---|---|
| Model size | | NEW 70 | | NEW 90 | |
| Capacity | kW | Cooling | Heating | Cooling | Heating |
| | | 20.0 | 22.4 | 25.0 | 28.0 |
| D Type |  | D0705H8 | | D0905H8 | |

For more technical specifications please refer to our new "PACi" Series product brochure 2008

Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# Classic PACi

**Single phase SPW-C256VH SPW-C366VH SPW-C486VH SPW-C606VH**
**Three phase SPW-C256VH8 SPW-C366VH8 SPW-C486VH8 SPW-C606VH8**

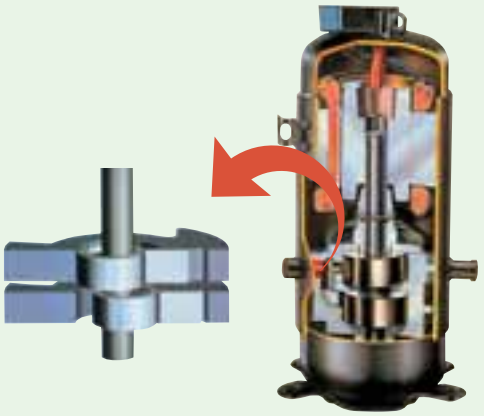
NEW

## Classic PACi for economy and value

**SANYO's new Classic PACi is the perfect solution for projects which demand quality on a limited budget. With high quality design and engineering, the Classic PACi offers reliability and robust operation. In addition, its compact size and light weight make it ideal for installations with limited space including small commercial and residential applications.**


- New single fan design
- SANYO DC inverter compressor
- Quality design and engineering
- Compact size saving valuable footprint
- Lightweight
- Low start current
- Great value and reliability at a low capital cost
- Available in four sizes (3, 4, 5 and 6 HP)
- Available in both single and three phase
- Pipe runs up to 50m
- Ideal for small commercial and residential applications
- Up to 4 indoor units can be fitted on multi-split systems
- Now 8 different styles of indoor units to provide more flexibility for different applications
- Operates at temperatures as low as -15˚C in heating mode

### Uses SANYO's advanced DC inverter compressor



| Classic PACi | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| HP | 3 | | 4 | | 5 | | 6 | |
| Performance | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Capacity kW | 7.1 | 8.0 | 10.0 | 11.2 | 12.5 | 14.0 | 14.0 | 16.0 |
| Single phase | SPW-C256VH | | SPW-C366VH | | SPW-C486VH | | SPW-C606VH | |
| 3 phase | SPW-C256VH8 | | SPW-C366VH8 | | SPW-C486VH8 | | SPW-C606VH8 | |

For more technical specifications, please refer to our new "PACi" Series product brochure 2008



Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# Standard PACi Range

R410A

## SANYO's Standard commercial split systems range still available

Specifically designed for commercial and retail applications, the ingenious design of the systems not only overcomes the limitations associated with the installation of traditional split systems, but also offers the end user improved comfort and drastically reduced power consumption.

- Single or three phase power supply across the range
- Low start current across the range
- Complete range of indoor units
- Single, twin, triple and quad options
- Systems pre-charged for 30 metres
- Pipe runs up to 100 metres

The SPW DC Inverter systems utilise the non-ozone depleting R410A refrigerant, which gives increased system performance, increased energy-efficiency and improved heat transfer, resulting in smaller pipe sizes and more compact indoor units.

## Wide capacity range

DC inverter controlled compressors have an operating range of 25-90Hz, which enables the sine wave to be shortened or lengthened, either slowing the compressor to reduce capacity from the nominal figure (measured at 50Hz) or increasing its speed to offer increased output.

## Affordable technology

When comparing the COPs of DC Inverter systems (which are stated at 100% capacity) with an equivalent fixed speed system, the improved energy-efficiency and consequent lower running costs of the DC Inverter can be easily calculated. However, DC Inverters control the room temperature far more precisely, generally operating in part load conditions where the COPs are considerably higher, thereby delivering further substantial energy savings and ensuring that this new technology has an almost immediate payback.

SPW-CR184GVH56

SPW-CR254GVH56/8
SPW-CR364GVH56/8

SPW-CR484GVH56/8
SPW-CR604GVH56/8

C0705H
C0905H

# KR Wall Systems

R410A

INVERTER Air Conditioner

| | | | | | | |
|---|---|---|---|---|---|---|
| INVERTER HEAT PUMP | | | | | | |
| | | | size 184 | | size 254 | |
| Performance | | | Cooling | Heating | Cooling | Heating |
| Capacity | | kW | 5.00 | 5.60 | 7.10 | 8.00 |
| Power input | | W | 1625 | 1735 | 2360 | 2260 |
| EER/COP | | | 3.08 | 3.23 | 3.01 | 3.54 |
| Energy class | | | B | C | B | B |
| Running current/AMPs 1ph/3ph | | A | 8.4 | 8.9 | 12.7/3.9 | 12.2/3.8 |
| Indoor Unit | | | SPW-KR184GH56B | | SPW-KR254GH56B | |
| Air circulation | (H/M/L) | $m^3/h$ | 780/660/480 | | 1140/960/720 | |
| Sound pressure level | (H/M/L) | dB(A) | 38/34/30 | | 41/37/34 | |
| Dimensions | (HxWxD) | mm | 285x995x203 | | 330x1140x228 | |
| Outdoor Unit | | | SPW-CR184GVH56 | | SPW-CR254GVH56/H8 | |
| Sound pressure level | (H/L) | dB(A) | 46/43 | 47/43 | 47/45 | 49/45 |
| Dimensions | (HxWxD) | mm | 565x790(+70)x285 | | 780x940x340 | |
| Net weight | | kg | 40 | | 58 | |
| Power supply* | | | 220-240V/1ø 50Hz | | 220-240V/1ø 50Hz | 400V/3ø+N 50Hz |
| Recommended fuse rating | | AMP | 16 | | 20 | 10 |
| Refrigerant Circuit | | | size 184 | | size 254 | |
| Pipe size suction/discharge | | Inches | 1/4, 1/2 | | 3/8, 5/8 | |
| Max piping length | | m | 40 | | 50 | |
| Precharged piping length | | m | 30 | | 30 | |
| Amount of additional refrigerant | | g/m | 20 | | 40 | |
| Recommended fuse size | | AMP | 20 | | 20 | |
| Communication cables | | mm | 2 core 0.75mm shielded | | | |

* Power supply to outdoor unit. The indoor unit can take its power from the outdoor unit or from a separate supply.

Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# X Type 4 Way Blow Cassette Systems

R410A

INVERTER Air Conditioner

| | | | INVERTER HEAT PUMP | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | size 184 | | size 254 | | size 364 | | size 484 | | size 604 | |
| Performance | | | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Capacity | | kW | 5.00 | 5.60 | 7.10 | 8.00 | 10.00 | 11.20 | 12.50 | 14.00 | 14.00 | 16.00 |
| Power input | | W | 1497 | 1398 | 2130 | 2070 | 3120 | 2960 | 3860 | 3830 | 4610 | 4650 |
| EER/COP | | | 3.34 | 4.01 | 3.33 | 3.86 | 3.21 | 3.78 | 3.24 | 3.66 | 3.04 | 3.44 |
| Energy class | | | A | A | A | A | A | A | A | A | B | B |
| Running current/AMPs 1ph/3ph | | A | 8.5 | 8.9 | 12.8/4.0 | 12.2/3.8 | 16.3/5.7 | 15.2/5.2 | 20.4/7.2 | 20.2/7.1 | 26.5/9.1 | 24.0/8.2 |
| Indoor Unit | | | SPW-X185H | | SPW-X255H | | SPW-X365H | | SPW-X485H | | SPW-X605H | |
| Air circulation | (H/M/L) | $m^3/h$ | 960/840/780 | | 1200/960/840 | | 1680/1380/1260 | | 1980/1500/1320 | | 2040/1620/1380 | |
| Sound pressure level | (H/M/L) | dB(A) | 31/29/27 | | 34/31/28 | | 39/36/33 | | 42/38/34 | | 44/40/36 | |
| Dimensions - Unit | (HxWxD) | mm | 256x840x840 | | 256x840x840 | | 319x840x840 | | 319x840x840 | | 319x840x840 | |
| Outdoor Unit | | | SPW-CR184GVH56 | | SPW-CR254GVH56/H8 | | SPW-CR364GVH56/H8 | | SPW-CR484GVH56/H8 | | SPW-CR604GVH56/H8 | |
| Sound pressure level | (H/L) | dB(A) | 46/43 | 47/43 | 47/45 | 49/45 | 51/45 | 52/45 | 52/45 | 53/45 | 53/45 | 54/45 |
| Dimensions | (HxWxD) | mm | 565x790(+70)x285 | | 780x940x340 | | 780x940x340 | | 1230x940x340 | | 1230x940x340 | |
| Net weight | | kg | 40 | | 58 | | 65 | | 100 | | 100 | |
| Power supply* | | | 220-240V/1ø 50Hz | | 220-240V/1ø 50Hz 400V/3ø+N 50Hz | | | | | | | |
| Recommended fuse rating | | AMP | 16 | | 20 | 10 | 25 | 10 | 25 | 16 | 32 | 16 |
| Refrigerant Circuit | | | size 184 | | size 254 | | size 364 | | size 484 | | size 604 | |
| Pipe size suction/discharge | | Inches | 1/4, 1/2 | | 3/8, 5/8 | | 3/8, 5/8 | | 3/8, 5/8 | | 3/8, 5/8 | |
| Max piping length | | m | 40 | | 50 | | 50 | | 50 | | 50 | |
| Precharged piping length | | m | 30 | | 30 | | 30 | | 30 | | 30 | |
| Amount of additional refrigerant | | g/m | 20 | | 40 | | 40 | | 40 | | 40 | |
| Recommended fuse size | | AMP | 20 | | 20 | | 32 | | 32 | | 40 | |
| Communication cables | | mm | 2 core 0.75mm shielded | | | | | | | | | |

* Power supply to outdoor unit. The indoor unit can take its power from the outdoor unit or from a separate supply.

# T Type Ceiling Systems

R410A

INVERTER Air Conditioner

| | | | INVERTER HEAT PUMP | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | size 184 | | size 254 | | size 364 | | size 484 | | size 604 | |
| Performance | | | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Capacity | | kW | 5.30 | 5.60 | 7.10 | 8.00 | 10.00 | 11.20 | 12.50 | 14.00 | 14.00 | 16.00 |
| Power input | | W | 1801 | 1669 | 2350 | 2250 | 3290 | 3050 | 4120 | 4070 | 5250 | 4750 |
| EER/COP | | | 2.78 | 3.36 | 3.02 | 3.56 | 3.04 | 3.67 | 3.03 | 3.44 | 2.67 | 3.36 |
| Running current/AMPs 1ph/3ph | | A | 8.5 | 9.0 | 12.8/4.1 | 12.3/4.0 | 16.2/5.8 | 15.1/5.4 | 20.3/7.1 | 20.0/7.0 | 26.6/9.2 | 24.2/8.4 |
| Indoor Unit | | | SPW-T185H | | SPW-T255H | | SPW-T365H | | SPW-T485H | | SPW-T605H | |
| Air circulation | (H/M/L) | $m^3/h$ | 780/660/540 | | 1100/900/840 | | 1650/1380/1200 | | 1800/1560/1320 | | 1920/1620/1380 | |
| Sound pressure level | (H/M/L) | dB(A) | 36/33/30 | | 38/36/33 | | 41/38/35 | | 43/40/37 | | 45/41/38 | |
| Dimensions | (HxWxD) | mm | 210x910x680 | | 210x1180x680 | | 210x1595x680 | | 210x1595x680 | | 210x1595x680 | |
| Outdoor Unit | | | SPW-CR184GVH56 | | SPW-CR254GVH56/H8 | | SPW-CR364GVH56/H8 | | SPW-CR484GVH56/H8 | | SPW-CR604GVH56/H8 | |
| Sound pressure level | (H/L) | dB(A) | 46/43 | 47/43 | 47/45 | 49/45 | 51/45 | 52/45 | 52/45 | 53/45 | 53/45 | 54/45 |
| Dimensions | (HxWxD) | mm | 565x790(+70)x285 | | 780x940x340 | | 780x940x340 | | 1230x940x340 | | 1230x940x340 | |
| Net weight | | kg | 40 | | 58 | | 65 | | 100 | | 100 | |
| Power supply* | | | 220-240V/1ø 50Hz | | 220-240V/1ø 50Hz 400V/3ø+N 50Hz | | | | | | | |
| Refrigerant Circuit | | | size 184 | | size 254 | | size 364 | | size 484 | | size 604 | |
| Pipe size suction/discharge | | Inches | 1/4, 1/2 | | 3/8, 5/8 | | 3/8, 5/8 | | 3/8, 5/8 | | 3/8, 5/8 | |
| Max piping length | | m | 40 | | 50 | | 50 | | 50 | | 50 | |
| Precharged piping length | | m | 30 | | 30 | | 30 | | 30 | | 30 | |
| Amount of additional refrigerant | | g/m | 20 | | 40 | | 40 | | 40 | | 40 | |
| Recommended fuse size | | AMP | 20 | | 20 | | 32 | | 32 | | 40 | |
| Communication cables | | mm | 2 core 0.75mm shielded | | | | | | | | | |

* Power supply to outdoor unit. The indoor unit can take its power from the outdoor unit or from a separate supply.



Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# U Type Ducted Systems

R410A

INVERTER Air Conditioner




| | | | INVERTER HEAT PUMP | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | size 184 | | size 254 | | size 364 | | size 484 | | size 604 | |
| Performance | | | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating | Cooling | Heating |
| Capacity | | kW | 5.00 | 5.60 | 7.10 | 8.00 | 10.00 | 11.20 | 12.50 | 14.00 | 14.00 | 16.00 |
| Power input | | W | 1843 | 1831 | 2490 | 2380 | 3530 | 3280 | 4340 | 4290 | 5060 | 4980 |
| EER/COP | | | 2.71 | 3.06 | 2.85 | 3.36 | 2.83 | 3.36 | 2.88 | 3.26 | 2.77 | 3.21 |
| Running current/AMPs 1ph/3ph | | A | 8.7 | 9.1 | 13.3/4.6 | 12.7/4.4 | 17.1/6.7 | 16.0/6.2 | 21.1/7.9 | 20.7/7.8 | 27.1/9.7 | 24.7/8.9 |
| Indoor Unit | | | SPW-U185H | | SPW-U255H | | SPW-U365H | | SPW-U485H | | SPW-U605H | |
| Air circulation | (H/M/L) | $m^3/h$ | 720/630/540 | | 1080/900/780 | | 1800/1560/1260 | | 1980/1560/1320 | | 2040/1620/1440 | |
| External static pressure | (H) | Pa | 40 (62) | | 50 (92) | | 79 (122) | | 78 (113) | | 78 (113) | |
| Sound pressure level | (H/M/L) | dB(A) | 30/28/25 | | 34/30/27 | | 38/33/31 | | 40/37/33 | | 45/42/38 | |
| Dimensions | (HxWxD) | mm | 310x700x630 | | 310x1000x630 | | 310x1480x630 | | 310x1480x630 | | 310x1480x630 | |
| Spigot | | No. | 2 | | 3 | | 4 | | | | | |
| Outdoor Unit | | | SPW-CR184GVH56 | | SPW-CR254GVH56/H8 | | SPW-CR364GVH56/H8 | | SPW-CR484GVH56/H8 | | SPW-CR604GVH56/H8 | |
| Sound pressure level | (H/M/L) | dB(A) | 46/43 | 47/43 | 47/45 | 49/45 | 51/45 | 52/45 | 52/45 | 53/45 | 53/45 | 54/45 |
| Dimensions | (HxWxD) | mm | 565x790(+70)x285 | | 780x940x340 | | 780x940x340 | | 1230x940x340 | | 1230x940x340 | |
| Net weight | | kg | 40 | | 58 | | 65 | | 100 | | 100 | |
| Power supply* | | | 220-240V/1ø 50Hz | | 220- 40V/1ø 50Hz 400V/3ø+N 50Hz | | | | | | | |
| Refrigerant circuit | | | size 184 | | size 254 | | size 364 | | size 484 | | size 604 | |
| Pipe size suction/discharge | | Inches | 1/4, 1/2 | | 3/8, 5/8 | | 3/8, 5/8 | | 3/8, 5/8 | | 3/8, 5/8 | |
| Max piping length | | m | 40 | | 50 | | 50 | | 50 | | 50 | |
| Precharged piping length | | m | 30 | | 30 | | 30 | | 30 | | 30 | |
| Amount of additional refrigerant | | g/m | 20 | | 40 | | 40 | | 40 | | 40 | |
| Recommended fuse size | | AMP | 20 | | 20 | | 32 | | 32 | | 40 | |
| Communication cables | | mm | 2 core 0.75mm shielded | | | | | | | | | |

* Power supply to outdoor unit. The indoor unit can take its power from the outdoor unit or from a separate supply.

# D Range High Static Ducted Systems

R410A


| | | | CONSTANT SPEED HEAT PUMP | | | |
|---|---|---|---|---|---|---|
| | | | size 705 | | size 905 | |
| Performance | | | Cooling | Heating | Cooling | Heating |
| Capacity | | kW | 20.00 | 22.40 | 25.00 | 28.00 |
| Power input | | W | 7150 | 7370 | 10080 | 10170 |
| EER/COP | | | 2.80 | 3.04 | 2.48 | 2.75 |
| Running current/AMPs | | A | 14.8 | 15.2 | 21.1 | 21.2 |
| Indoor Unit | | | SPW-D705H8 | | SPW-D905H8 | |
| Air circulation | (H/M/L) | $m^3/h$ | 3360/3186/2976 | | 4320/4200/3960 | |
| Sound pressure level | (H/M/L) | dB(A) | 48/47/46 | | 51/50/49 | |
| Dimensions | (HxWxD) | mm | 467x1428x1230 | | 467x1428x1230 | |
| Outdoor Unit | | | SPW-C0705H8 | | SPW-C0905H8 | |
| Sound pressure level | (H/L) | dB(A) | 54.5/49.5 | | 55.0/50.0 | |
| Dimensions | (HxWxD) | mm | 1543x890(+75)x890 | | 1543x890(+75)x890 | |
| Net weight | | kg | 276 | | 276 | |
| Power supply* | | | 400V/ 3ø+N 50Hz | | | |
| Refrigerant Circuit | | | size 705 | | size 905 | |
| Pipe size suction/discharge | | Inches | 1/2/7/8 | | 1/2/1 1/8 | |
| Max piping length | | m | 100 | | 100 | |
| Precharged piping length | | m | 30 | | 30 | |
| Amount of additional refrigerant | | g/m | 80 | | 80 | |
| Recommended fuse size | | AMP | 32 | | 32 | |
| Communication cables | | mm | 2 core 0.75mm shielded | | | |

* Power supply to outdoor unit. The indoor unit can take its power from the outdoor unit or from a separate supply.

Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# Standard PACi Range Multi Systems

R410A

INVERTER Air Conditioner

The SPW DC inverter system is the ideal versatile solution for air conditioning irregularly shaped or open plan areas, as 2, 3 or 4 indoor units can operate in multi-split configuration from a single outdoor unit.

Any combination of indoor unit style with a common capacity can operate in a single mode to provide an economical solution where effective air distribution is required.

| Outdoor unit | Performance | | Combination | | |
|---|---|---|---|---|---|
| | Cooling | Heating | TWIN | TRIPLE | QUAD |
| SPW-CR254 - Inverter model | 7.1 | 8.0 | 12 x 2 | | |
| SPW-CR364 - Inverter model | 10.0 | 11.2 | 18 x 2 | 12 x 3 | |
| SPW-CR484 - Inverter model | 12.5 | 14.0 | 25 x 2 | 16 x 3 | 12 x 4 |
| SPW-CR604 - Inverter model | 14.0 | 16.0 | 25 x 2 | 18 x 3 | 16 x 4 |
| SPW-C0705 - Constant speed model | 20.0 | 22.4 | 36 x 2 | 25 x 3 | 18 x 4 |
| SPW-C0905 - Constant speed model | 25.0 | 28.0 | 48 x 2 | 36 x 3 | 25 x 4 |

| Indoor unit | | | SPW-TDR124GH56(B) | SPW-TDR164GH56(B) | SPW-TDR184GH56(B) | SPW-TDR254GH56(B) | SPW-TDR364GH56(B) |
|---|---|---|---|---|---|---|---|
| Air-circulation | (H/M/L) | m³/h | 780/660/540 | 720/600/540 | 780/660/540 | 1100/900/840 | 1650/1380/1200 |
| Sound power level | (H) | dB(A) | 46 | 46 | 47 | 49 | 52 |
| Sound pressure level | (H/M/L/Quiet) | dB(A) | 35/32/30 | 35/32/30 | 36/33/30 | 38/36/33 | 41/38/35 |
| Dimensions | (HxWxD) | mm | 210x910x680 | 210x910x680 | 210x910x680 | 210x1180x680 | 210x1595x680 |
| Net weight | | kg | 21 | 21 | 21 | 25 | 33 |

| Ceiling mounted unit | | | SPW-XDR124GH56 | SPW-XDR164GH56 | SPW-XDR184GH56 | SPW-XDR254GH56 | SPW-XDR364GH56 | SPW-XDR484GH56 |
|---|---|---|---|---|---|---|---|---|
| Air circulation | (H/M/L) | m³/h | 930/840/780 | 930/840/780 | 960/840/780 | 1200/960/840 | 1680/1380/1260 | 1980/1500/1320 |
| Sound pressure level | H/M/L | dB(A) | 31/29/27 | 31/29/27 | 31/29/27 | 34/31/28 | 39/36/33 | 42/38/34 |
| Dimensions - unit | (HxWxD) | mm | 256x840x840 | 256x840x840 | 256x840x840 | 256x840x840 | 319x840x840 | 319x840x840 |
| Dimensions - panel | (HxWxD) | mm | 35x950x950 | 35x950x950 | 35x950x950 | 35x950x950 | 35x950x950 | 35x950x950 |
| Net weight - unit | | kg | 21 | 21 | 21 | 22 | 26 | 26 |
| Net weight - panel | | kg | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 | 4.5 |
| Power supply | | | 220-240V/1ø 50Hz | | | | | |

| Floor mounted unit | | | SPW-FTR124EH56B | SPW-SPW-FTR164EH56B | SPW-FTR184EH56B |
|---|---|---|---|---|---|
| Air circulation | (H/M/L) | m³/h | 630/540/450 | 720/650/580 | 720/650/580 |
| Sound power level | (H) | | 60/54/49 | 62/58/54 | 62/58/54 |
| Sound pressure level | (quiet H/M/L) | dB(A) | 49/43/38 | 51/47/43 | 51/47/43 |
| Dimensions | (HxWxD) | mm | 680x8900x190 | | |
| Net weight | | kg | 23.5 | | |
| Power supply | | | 220-240V/1ø 50Hz | | |

| Wall mounted unit | | | SPW-KR124GH56 | SPW-KR164GH56 | SPW-KR184GH56 | SPW-KR254GH56 |
|---|---|---|---|---|---|---|
| Air circulation | (H/M/L) | m³/h | 720/600/420 | 720/600/420 | 780/660/480 | 1140/960/720 |
| Sound pressure level | H/M/L | dB(A) | 35/31/27 | 35/31/27 | 38/34/30 | 41/37/34 |
| Dimensions | (HxWxD) | mm | 285x995x203 | 285x995x203 | 285x995x203 | 330x1140x228 |
| Net weight | | kg | 12 | 12 | 12 | 21 |
| Power supply | | | 220-240V/1ø 50Hz | | | |

| Ceiling mounted unit | | | SPW-T125H | SPW-T165H | SPW-T185H | SPW-T255H | SPW-T365H | SPW-T485H |
|---|---|---|---|---|---|---|---|---|
| Air circulation | (H/M/L) | m³/h | 780/660/540 | 720/600/540 | 780/660/540 | 1100/900/840 | 1650/1380/1200 | 1800/1560/1320 |
| Sound pressure level | (H/M/L) | dB(A) | 35/32/30 | 35/32/30 | 36/33/30 | 38/36/33 | 41/38/35 | 43/40/37 |
| Dimensions | (HxWxD) | mm | 210x910x680 | 210x910x680 | 210x910x680 | 210x1180x680 | 210x1595x680 | 210x1595x680 |
| Net weight | | kg | 21 | 21 | 21 | 25 | 33 | 33 |
| Power supply | | | 220-240V/1ø 50Hz | | | | | |

| Indoor unit | | | SPW-UR124GH56(B) | SPW-UR164GH56(B) | SPW-UR184GH56(B) | SPW-UR254GH56(B) | SPW-UR364GH56(B) | SPW-UR484GH56(B) |
|---|---|---|---|---|---|---|---|---|
| Air-circulation | (H/M/L) | m³/h | 600/510/420 | 720/630/540 | 720/630/540 | 1080/900/780 | 1800/1560/1260 | 1980/1560/1320 |
| External static pressure std (booster) | | Pa | 40 (62) | 50 (92) | 40 (62) | 50 (92) | 79 (122) | 78 (113) |
| Sound power level | (H) | dB(A) | 49 | 50 | 50 | 54 | 58 | 60 |
| Sound pressure level | (H/M/L) | dB(A) | 29/26/22 | 30/28/25 | 30/28/25 | 34/30/27 | 38/33/31 | 40/37/33 |
| Dimensions | (HxWxD) | mm | 310x700x630 | 310x1000x630 | 310x700x630 | 310x1000x630 | 310x1480x630 | 310x1480x630 |
| Net weight | | kg | 24 | 25 | 25 | 32 | 47 | 47 |

| Concealed duct | | | SPW-U125H | SPW-U165H | SPW-U185H | SPW-U255H | SPW-U365H | SPW-U485H |
|---|---|---|---|---|---|---|---|---|
| Air circulation | (H/M/L) | m³/h | 600/510/420 | 720/630/540 | 720/630/540 | 1080/900/780 | 1800/1560/1260 | 1980/1560/1320 |
| External static pressure std (booster) | | Pa | 40 (62) | 50 (92) | 40 (62) | 50 (92) | 79 (122) | 78 (113) |
| Sound pressure level | (H/M/L) | dB(A) | 29/26/22 | 30/28/25 | 30/28/25 | 34/30/27 | 38/33/31 | 40/37/33 |
| Dimensions | (HxWxD) | mm | 310x700x630 | 310x1000x630 | 310x700x630 | 310x1000x630 | 310x1480x630 | 310x1480x630 |
| Net weight | | kg | 24 | 25 | 25 | 32 | 47 | 47 |
| Power supply | | | 220-240V/1ø 50Hz | | | | | |



Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB

# Controller Options

The Touch Screen web-enabled controller - SHA-KT256EG with web control and e-mail alarm generation enables a “S net” network system to be connected to the Internet via an IP address with up to 256 indoor units.

- Schedule operation of zone, tenant, and units in a group
- Tenant billing for cooling or heating consumed over a time period
- Use of schedule timer is possible for remote time control over a number of indoor units

The RCS-TM80BG standard wired remote controller is ideally suited for most commercial applications, allowing for mode, room temperature and time schedules to be easily set up and adjusted by an end user.

- Standard individual controller also allows group control of up to 8 units
- 7 day programmable with day omission and set back control
- Full self-diagnosis facility with detailed performance history

The Wireless remote controller - RCS-SH80AG.WL/RCS-TH80AG.WL/RCS-BH80AG.WLB/RCS-TRP80AG.WL/ RCS-SH80ANG.WL/RCS-SH1AG.

- Standard individual controller also allows group control of up to 8 units
- Allows for combinations of indoor units to be controlled from 1 infrared remote control handset
- Up to 2 remote controllers can be connected per group

The RCS-KR1AG simplified remote control is ideal for areas where limited access to the control functions of a system is desired such as open plan offices or hotel bedrooms.

- Standard individual controller also allows group control of up to 8 units
- Includes built-in air temperature sensor
- Up to 2 remote controllers can be connected per group

The SHA-TM64AG weekly timer enables the control of up to 8 groups with a maximum of 64 indoor units. It can be used in conjunction with all room controllers.

- 7 day timer with 3 operations per day
- The controller can be used in conjunction with SHA-KC64AG for group control
- Temporary cancellation of the time schedule is possible

The SHA-KC64AG system controller provides overall system management of up to 64 indoor units in 4 zones. It can be used in conjunction with all room controllers.

- 3 levels of prohibitive control restricts local functionality of room controllers
- Common alarm, operation outputs and remote sart/stop inputs available
- 2 system controllers can be installed on a single “S net” network system

This interface is a communications converter for connecting LonWorks to the SANYO air conditioner unit (PACi, ECOii, GHP) control network.

From the host connected to LonWorks, basic settings and status monitoring is possible for up to 16 groups of A/C units.

Rating Conditions: Cooling Indoor 27°C DB 19°C WB Outdoor 35°C DB 24°C WB Heating Indoor 20°C DB Outdoor 7°C DB 6°C WB