

SAPR410A Single + Mulley



The SAP R410A range of mini split systems



All round air conditioning by **SANYO**

The SANYO SAP range

Introduction

Specifically designed for small to medium sized areas the SANYO SAP range is the ideal solution when you need quiet, efficient room air conditioning to create a comfortable environment within a realistic budget. The latest generation of SAP models contained in this brochure are among the most technically advanced and energy efficient systems available today and are backed by SANYO's legendary reliability.

In addition to the I:I split systems shown in this brochure, SANYO also produce the Flexi Multi, an advanced range of R410A DC Inverter Heat Pump Multi Split Systems. 2, 3 or 4 indoor units can be connected to a single outdoor unit of 5.6kW, 6.8kW or 9.0kW. See separate leaflet for full details.

R410A The SAP range utilises the non-ozone depleting R410A refrigerant, this means increased system performance and increased energy efficiency which means lower operating costs. Buy SANYO and save yourself money!

SAP R410A units are rated as EEL

Category A, 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.

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SANYO SAP systems qualify for inclusion on the Energy Technology List and therefore for (100%) first year enhanced capital allowances, where the (total cost of the system and installation can be offset against (taxable)

profits in the year of purchase. For further information, visit www.eca.gov.uk.

All Round Air Conditioning

Energy

SANYO air conditioners has enjoyed a number of 'world firsts' since its formation back in 1958 including introducing the world's first heat pump air conditioners in 1960 and launching the first split systems to use a rotary compressor in 1970. SANYO is justifiably proud

of being renowned throughout the world for developing unique technologies, offering superior products and delivering quality services.

2005 sees the launch of many new exciting products including the greatly expanded range of R410A SAP units contained in this brochure.



KRV DC inverter wall systems 2.65kW - 4.05kW

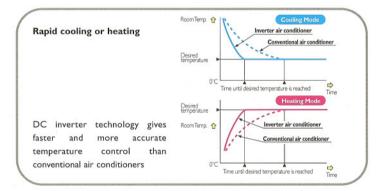
- DC inverter technology for precise temperature control
- · I amp start current
- · Quiet mode
- · High power mode for rapid cooling or heating
- · Auto restart and auto changeover
- · Built-in negative ion generator

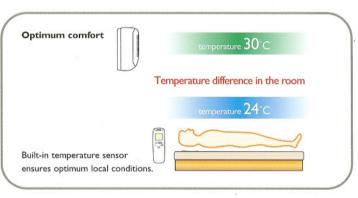




Full function remote controller • Full function remote controller • Built-in temperature sensor • Temperature setting • Operational mode selection • Fan speed control • 24 hour on/off timer • I hour timer







| Indoor | | SAP-KRV93EH | SAP-KRV123EH |
|---|-------|----------------|----------------|
| Outdoor | | SAP-CRV93EH | SAP-CRV123EH |
| Nominal Cooling | kW | 2.65 | 4.05 |
| Nominal Heating | kW | 3.60 | 4.62 |
| COP - C/H | | 3.52/3.62 | 3.21/3.61 |
| Noise Levels - LMH | dB(A) | 28/31/34 | 29/33/36 |
| Airflow - H | m³/h | 480 | 500 |
| Dimensions - HWD | mm | 285×825×189 | 285×825×189 |
| Noise Level - H | dB(A) | 46 | 47 |
| Noise Level - H Dimensions - HWD Weight | mm | 548×720×265 | 548×720×265 |
| Weight | kg | 29 | 30 |
| Power Supply | | I phase | I phase |
| Interconnecting Cables | 1.5mm | 3 core + earth | 3 core + earth |
| Run Current | A | 3.6 | 5.1 |
| Fuse Size | A | 10 | 10 |
| Pipe Sizes | inch | 1/4,3/8 | 1/4,3/8 |
| Maximum Pipe Run. | m | 15 | 15 |
| Pre-charged | m | 7.5 | 7.5 |

KR wall systems 2.20kW - 6.40kW

- Quiet mode from 25dB(A)
- · High power mode for rapid cooling or heating
- · Auto restart after power failure
- · Auto changeover
- Built-in negative ion generator



Simple, one touch control

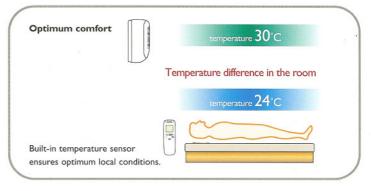
- Full function remote controller
- · Built-in temperature sensor
- Temperature setting
- · Operational mode selection
- · Fan speed control
- · 24 hour on/off timer
- · I hour timer





Clean fresh air

The KR indoor units feature a negative ion generator which reduces airborne odours and provides cleaner, fresher air due to the electrostatic settling of dust. Occupants of the room also benefit from the invigorating effect of breathing the negative ions produced similar to those found in abundance in sea air and near waterfalls.



| | Indoor Outdoor | | SAP-KR74EH SAP-CR74EH | SAP-KR94EH SAP-CR94EH | SAP-KR124EH SAP-CR124EH | SAP-KR184EH SAP-CR184EH | SAP-KR224EH SAP-CR224EH |
|------------------|------------------------|-------|--------------------------|--------------------------|----------------------------|----------------------------|----------------------------|
| | Nominal Cooling | kW | 2.20 | 2.65 | 3.50 | 5.15 | 6.40 |
| | Nominal Heating | kW | 2.50 | 3.00 | 4.00 | 5.70 | 7.20 |
| | COP - C/H | | 3.21/3.62 | 3.21/3.61 | 3.21/3.62 | 3.22/3.61 | 2.81/3.21 |
| J. | Noise Levels - LMH | dB(A) | 28/32/36 | 28/33/38 | 28/34/41 | 35/39/42 | 37/41/45 |
| Indoor | Airflow - H | m³/h | 450 | 480 | 500 | 890 | 980 |
| Inc | Dimensions - HWD | mm | 285×825×189 | 285×825×189 | 285×825×189 | 298×1065×218 | 298×1065×218 |
| o | Noise Level - C/H | dB(A) | 46/47 | 47/50 | 49/50 | 55/56 | 57/58 |
| Outdoor | Dimensions - HWD | mm | 548×720×265 | 548×720×265 | 565×790×285 | 670×880×285 | 670x880x285 |
| On | Weight | kg | 29 | 29 | 30 | 50 | 58 |
| | Power Supply | | I phase | I phase | I phase | I phase | I phase |
| nstallation Data | Interconnecting Cables | 1.5mm | 4 core + earth | 4 core + earth | 4 core + earth | 6 core + earth | 6 core + earth |
| | Run Current | Α | 3.1 | 3.8 | 5.0 | 7.1 | 10.0 |
| | Fuse Size | Α | 10 | 10 | 10 | 16 | 20 |
| | Pipe Sizes | inch | 1/4,3/8 | 1/4,3/8 | 1/4,1/2 | 1/4,1/2 | 1/4,5/8 |
| | Maximum Pipe Run | m | 15 | 15 | 15 | 30 | 30 |
| _ | Pre-charged | m | 7.5 | 7.5 | 7.5 | 7.5 | 10.0 |

XR 4 way blow compact cassette systems 2.87kW - 5.00kW

- \bullet Designed to fit into standard 600mm x 600mm ceiling grid
- · Ideal for small commercial and retrofit applications
- · Fresh air knockout
- · Multi directional airflow
- Built-in drain pump gives 250mm lift
- Auto restart
- · Auto changeover

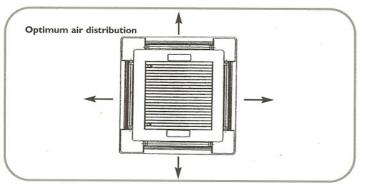


Simple, one touch control

- · Full function remote controller
- Built-in temperature sensor
- Temperature setting
- Operational mode selection
- Fan speed control
- · 24 hour on/off timer
- I hour timer







| Indoor | | SAP-XR94EH | SAP-XR124EH | SAP-XR184EH |
|--|-------|----------------|----------------|----------------|
| Outdoor | | SAP-CR94EH | SAP-CR124EH | SAP-CR184EH |
| Nominal Cooling | kW | 2.87 | 3.65 | 5.00 |
| Nominal Heating | kW | 3.10 | 4.52 | 6.30 |
| COP - C/H | | 3.28/4.00 | 3.40/4.28 | tba |
| Noise Levels - LMH | dB(A) | 36/39/43 | 36/39/43 | tba |
| Airflow - LMH Dimensions - HWD Panel - HWD | m³/h | 500/600/700 | 500/600/700 | tba |
| Dimensions - HWD | mm | 296×575×575 | 296×575×575 | 296×575×575 |
| | mm | 64×730×730 | 64×730×730 | 64×730×730 |
| Noise Level - C/H | dB(A) | 47/50 | 49/50 | 55/56 |
| Noise Level - C/H Dimensions - HWD Weight | mm | 548×720×265 | 565×790×285 | 670x880x285 |
| Weight | kg | 29 | 30 | 50 |
| Power Supply | | I phase | I phase | I phase |
| Interconnecting Cables | 1.5mm | 4 core + earth | 4 core + earth | 6 core + earth |
| Run Current | Α | 4.4 | 5.6 | tba |
| Fuse Size | Α | 10 | 10 | tba |
| Pipe Sizes | inch | 1/4,3/8 | 1/4,1/2 | 1/4,1/2 |
| Interconnecting Cables Run Current Fuse Size Pipe Sizes Maximum Pipe Run | m | 15 | 15 | 30 |
| Pre-charged | m | 7.5 | 7.5 | 7.5 |

UR ducted systems 3.07kW - 5.80kW

- · Ideal for flexible, concealed air conditioning
- · Infra red remote control
- Built-in drain pump gives 250mm lift
- Auto restart
- Auto changeover

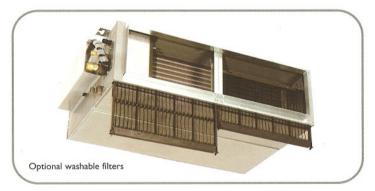


Simple, one touch control

- Full function remote controller
- Built-in temperature sensor
- Temperature setting
- · Operational mode selection
- · Fan speed control
- 24 hour on/off timer
- I hour timer







| | Indoor | | SAP-UR94EH | SAP-UR124EH | SAP-UR 184EH | SAP-UR224EH |
|------------------|------------------------|-------|----------------|----------------|----------------|----------------|
| | Outdoor | | SAP-CR94EH | SAP-CR124EH | SAP-CR184EH | SAP-CR224EH |
| | Nominal Cooling | kW | 3.07 | 4.05 | 4.80 | 5.80 |
| | Nominal Heating | kW | 3.20 | 4.62 | 6.60 | 7.40 |
| | COP - C/H | | 3.49/4.10 | 3.58/4.36 | tba | tba |
| 70 | Noise Levels - LMH | dB(A) | 40/43/45 | 40/43/45 | tba | tba |
| Indoor | Airflow - LMH | m³/h | 440/510/600 | 440/510/600 | tba | tba |
| 프 | Dimensions - HWD | mm | 286×575×575 | 286×575×575 | tba | tba |
| 0 | Noise Level - C/H | dB(A) | 47/50 | 49/50 | 55/56 | 57/58 |
| Outdoor | Dimensions - HWD | mm | 548×720×265 | 565×790×285 | 670×880×285 | 670×880×285 |
| õ | Weight | kg | 29 | 37 | 50 | 58 |
| | Power Supply | | I phase | I phase | I phase | I phase |
| nstallation Data | Interconnecting Cables | 1.5mm | 4 core + earth | 4 core + earth | 6 core + earth | 6 core + earth |
| | Run Current | Α | 4.4 | 5.6 | tba | tba |
| | Fuse Size | Α | 10 | 10 | tba | tba |
| | Pipe Sizes | inch | 1/4,3/8 | 1/4,1/2 | 1/4,1/2 | 1/4,5/8 |
| | Maximum Pipe Run | m | 15 | 15 | 30 | 30 |
| | Pre-charged | m | 7.5 | 7.5 | 7.5 | 10.0 |

FR floor unit 3.65kW FTR floor/ceiling 3.36-5.85kV



- Compact design, just 200mm deep, requires small installation space
- Quiet operation from 34dB(A)
- 3 fan speeds
- Auto restart
- · Auto changeover

• Can be floor or ceiling mounted without modification

- · Large and wide air distribution
- · Auto air sweep for optimum distribution
- Auto restart
- · Auto changeover





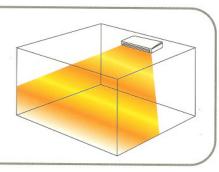
Simple, one touch control

- · Full function remote controller
- Built-in temperature sensor
- · Temperature setting
- Operational mode selection
- · Fan speed control
- · 24 hour on/off timer
- · I hour timer



Wide air distribution

The wide air discharge opening ensures that a comfortable temperature is achieved throughout the



| | Indoor | | CAR EDO4ELL | CAR ETRICATIO | CAR ETRICATIO | |
|---------------|------------------------|-------|----------------|----------------|----------------|----------------|
| | | | SAP-FR94EH | SAP-FTR124EH | SAP-FTR184EH | SAP-FTR224EH |
| | Outdoor | | SAP-CR94EH | SAP-CR124EH | SAP-CR184EH | SAP-CR224EH |
| | Nominal Cooling | kW | 2.78 | 3.36 | 4.70 | 5.85 |
| | Nominal Heating | kW | 3.52 | 4.35 | 6.40 | 7.00 |
| | COP - C/H | | 3.21/3.95 | 3.18/4.16 | tba | tba |
| 3 | Noise Levels - LMH | dB(A) | 34/40/43 | 38/43/47 | tbā | tba |
| la do | Airflow - LMH | m³/h | 300/360/400 | 500/590/700 | tba | tba |
| 2 | Dimensions - HWD | mm | 700×560×200 | 680×900×190 | tba | tba |
| i coptilio | Noise Level - C/H | dB(A) | 47/50 | 49/50 | 55/56 | 57/58 |
| 4 | Dimensions - HWD | mm | 548×720×265 | 565×790×285 | 670x880x285 | 670×880×285 |
| Ċ | Weight | kg | 29 | 37 | 50 | 58 |
| | Power Supply | | I phase | I phase | I phase | I phase |
| 4 | Interconnecting Cables | 1.5mm | 4 core + earth | 4 core + earth | 6 core + earth | 6 core + earth |
| nstallation D | Run Current | A | 4.2 | 5.0 | tba | tba |
| | Fuse Size | Α | 10 | 10 | tba | tba |
| | Pipe Sizes | inch | 1/4,3/8 | 1/4,1/2 | 1/4,1/2 | 1/4,5/8 |
| 100 | Maximum Pipe Run | m | 15 | 15 | 30 | 30 |
| | Pre-charged | m | 7.5 | 7.5 | 7.5 | 10.0 |

Rating Conditions
The cooling and heating capacities are based on the following conditions:
Cooling: Indoor temperature 27°C DB / 10°C WB, Outdoor temperature 35°C DB / 24°C WB.
Heating: Indoor temperature 20°C DB, Outdoor temperature 7°C DB.









| ISO 9001: 2001 | ISO 14001: 2001 | Certificate Number: JQ116B | Certificate Number: ECOOJ0303-33

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AIR CONDITIONERS

www.sanyoaircon.com