PRELIMINARY DATA

SANYO

2006

GENERAL CATALOGUE 2006

SANYO

CE

AIRCONDITIONERS EUROPE

GENERAL CATALOGUE 2006

SANYO

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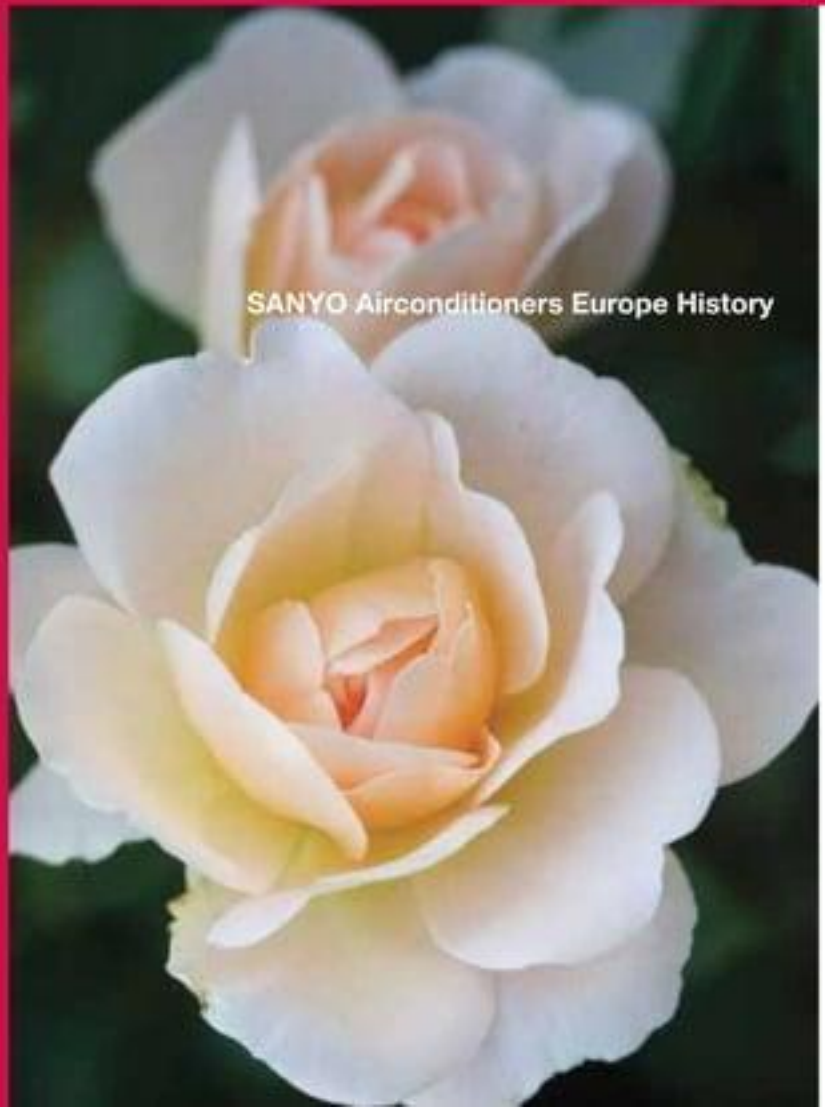
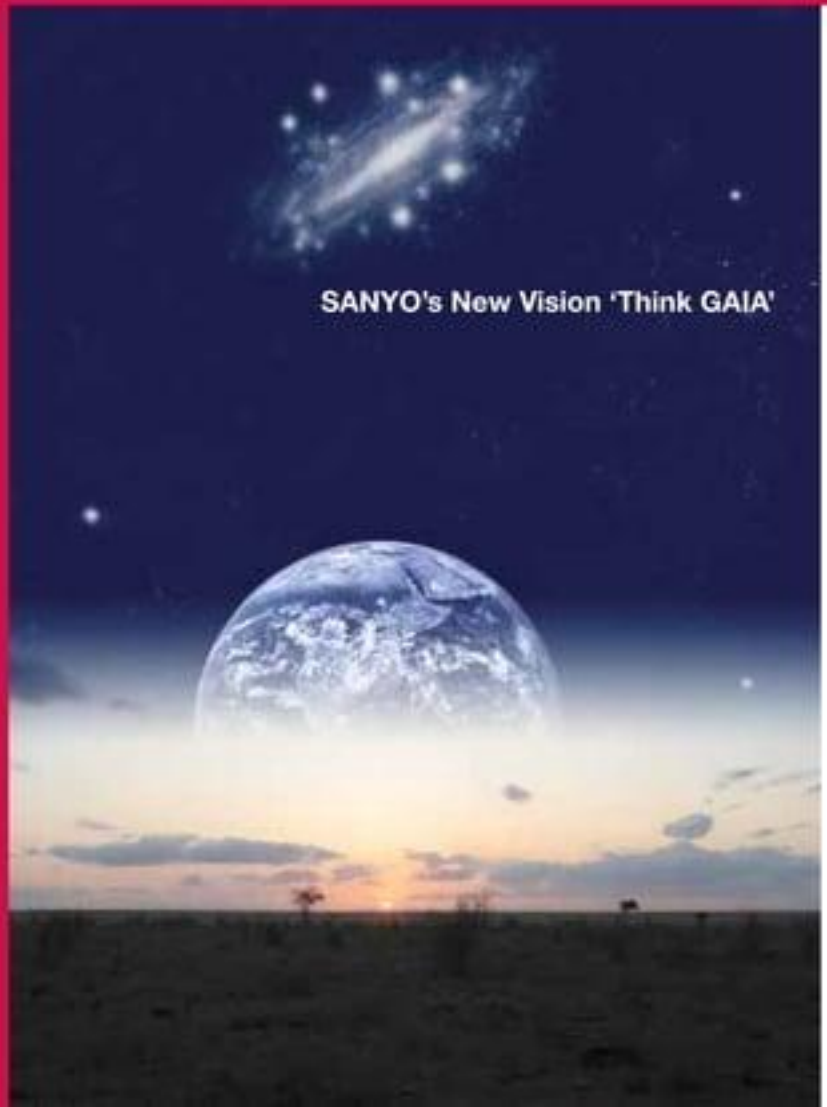


SANYO

The **SANYO Group of Companies is truly international**, including 83 manufacturing companies, 40 sales companies and 37 other companies around the world. **SANYO's strategic business focus is on the Digital & Devices and Energy and Ecology fields**. Committed to solving environment issues, the Company has made the development of technologies with minimum of burden on the environment, an area of strenght.
It emphasizes such technologies as clean-energy generation air conditionig methods that do not require the use of harmful chlorofluorocarbons. **SANYO Airconditioners Europe S.r.l. is the sales company for the SANYO air conditioners in Europe**, a leader in the field of air conditioning equipments, with a wide variety of products based upon environment-friendly technology. We are dedicated to sharing **SANYO's management philosophy** which is **"We are committed to becoming an indispensable element in the lives of people all over the world."**

BRIEF HISTORY OF SANYO AIR CONDITIONER

1958 Production of first window air conditioner begins
1960 SANYO introduce the world's first heat pump A/C units
1961 Started sales of split type and package type air conditioning
1970 SANYO launch world's first split type equipped with rotary compressor
1971 Production of absorption chiller begins
1983 SANYO release first Gas Heat Pump A/C
1989 World's first simultaneous heating & cooling VRF system
1991 Samples of world's first solar powered A/C released
1993 SANYO released first large-capacity VRF system (M-Multi)
1995 World's first large capacity heating & cooling VRF system (M-Multi 3 way)
2000 SANYO begins direct sales in Europe
2003 SANYO launch Gas Heat Pump VRF in Europe
2004 Started sales of R410A inverter driven VRF in Europe
2005 SANYO releases simultaneous heating & cooling GHP in Europe (3 way ECO-G) SANYO launches Mini VRF for light commercial use (Mini ECO-i)
2006 SANYO introduce new R410A GHP units and new VRF system's range



SANYO

SANYO EVOLUTION

SANYO's mission is to 'restore a beautiful Earth to the children of the future' and using 'Sustainability' (Symbiotic Evolution) as a keyword, SANYO will aim to 'become a company that pleases life and the Earth', and 'Think GAIA' will be the new vision guiding SANYO. In order to contribute to GAIA, SANYO will knit together various proprietary technology competencies as 'solutions that add value to the Earth' and thus, aim to become a global solutions provider. This would, in turn, lead to significant business chances in the increasingly globalizing world markets. Based on this vision, the 'SANYO EVOLUTION PROJECT' is launched. The new Project is introduced for the realization of SANYO's new vision - 'THINK GAIA', and its major programs.

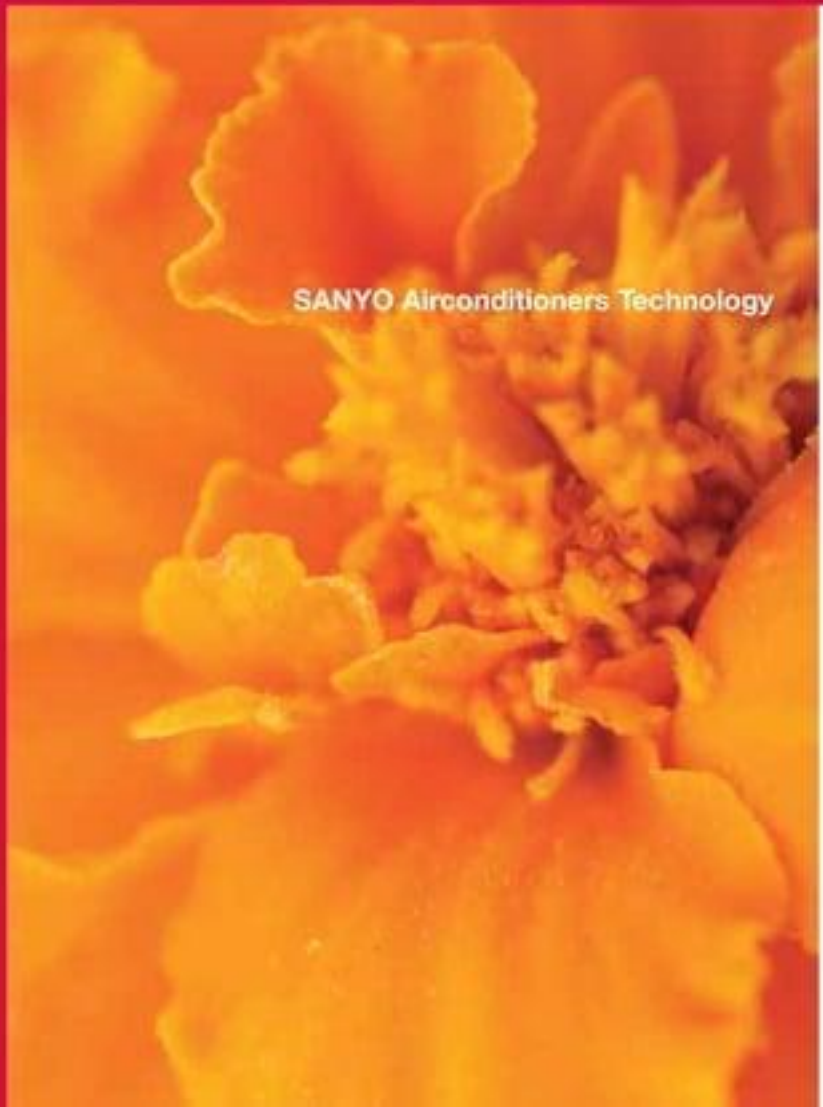

Photovoltaic module


Absorption Chiller


Commercial refrigerators


CO2 Compressed


Gas Engine Driven Heat



SANYO

High Energy Efficiency

Sanyo conforms to the 2002/31/EC Directive - 92/75/EEC "Energy labelling Directive (ELD)", which is applicable from June 2004 on all air conditioning products up to 12 kW cooling capacity. The DC inverter technology helps us to achieve the 'A' class, the highest level of energy efficiency which is clearly indicated on the standard labelling system.

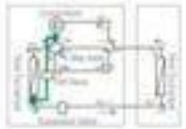
A Class

Twin rotary compressor

The dual rotors revolve smoothly in a well-balanced fashion for stable and efficient performance. This also contributes to increased comfort and rapid cooling, as well as the unit's extra quiet, economical and reliable operation.

No reverse cycle operation

Sanyo hot-gas defrost valve avoids uncomfortable conditions during defrosting functions ensuring continuos operation even in very low ambient temperature. A comfortable room temperature is kept while minimizing the decline of indoor air temperature.



Built-in temperature sensor

The temperature sensor incorporated into the remote controller monitors the temperature around you. Placing the sensor remote controller at your bedside you can enjoy comfortable warmth throughout the night.

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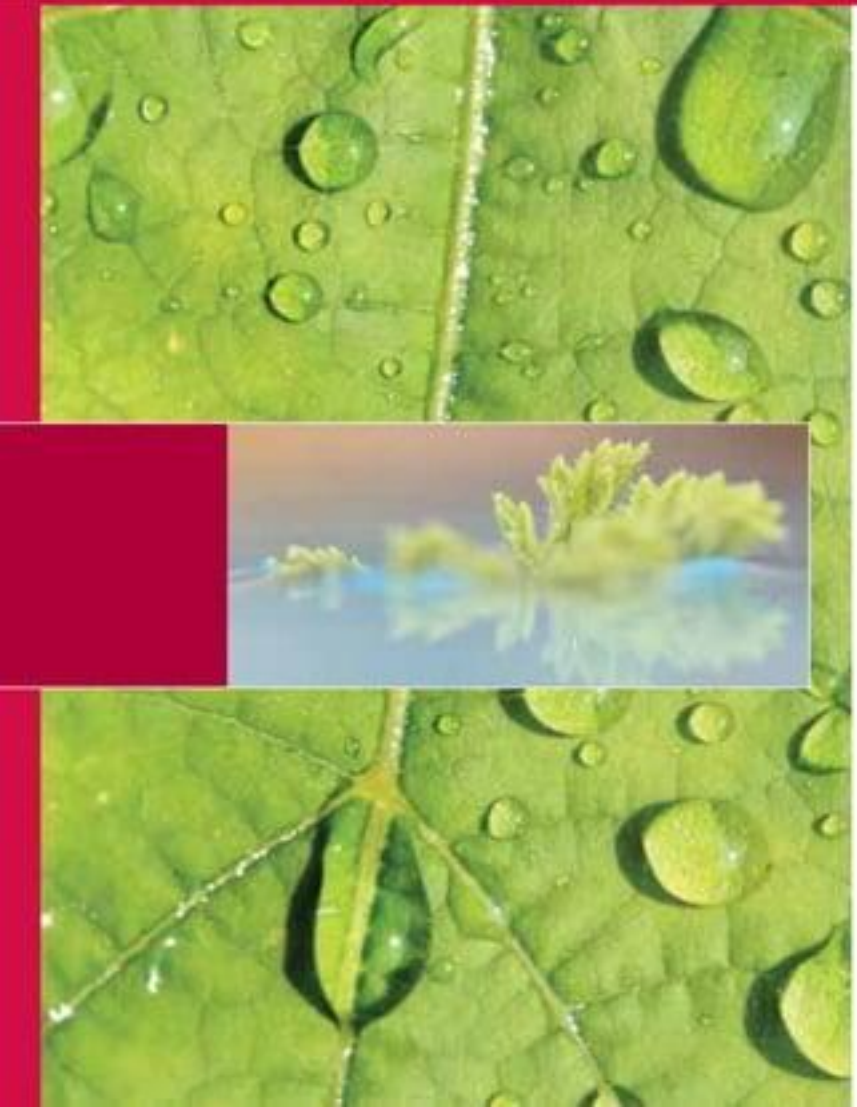


SANYO

SANYO Residential Air Conditioners
are ideally suitable for use in your own home

Its stylish and compact design will fit beautifully into any surroundings. This is the next generation SANYO air conditioners feature cutting edge technology to provide total comfort.
They are available with compressor constant speed or inverter multi and single split in heat pump and single split cooling only.

INDEX OF PRODUCTS:

SAP-KCRV94EHDX • SAP-KCRV124EHDX

Power Range from 2.65 kW to 3.5 kW

INVERTER HEAT PUMP					
		size 94		size 124	
Performance		Cooling	Heating	Cooling	Heating
Capacity	kW	0.9-2.65-3.8	0.9-3.6-5.2	0.9-3.5-4.2	0.9-4.8-6.6
Power input	W	250-530-1260	250-720-2130	250-675-1455	330-1140-2150
EER / COP	W/W	5.00	5.00	4.00	4.25
Energy class	-	A	A	A	A
Running amperes	A	1.8-2.4-6.9	1.8-3.2-9.9	1.8-4.0-7.8	1.8-5.2-9.9
Annual energy consumption (cooling)	kWh	265	-	433.5	-

Indoor Unit		SAP-KRV94EHDX	SAP-KRV124EHDX
Air circulation (H)	m³/h	600	630
Moisture removal	Liters/h	1.8 -	2.3 -
Sound Power Level (H)	dB-A	51 62	52 63
Sound Pressure Level (Quiet/Lo/Me/Hi)	dB-A	22/30/38/59 22/30/38/40	22/30/38/40 22/30/38/61
Dimensions HxWxD	mm	300x998x208	300x998x208
Net weight	kg	12.5	12.5
Power supply	V,ph,Hz	230,1~N, 50	

Outdoor Unit		SAP-CRV94EHDX	SAP-CRV124EHDX
Sound Power Level (H)	dB-A	61 62	62 63
Sound Pressure Level (H)	dB-A	49 50	50 51
Dimensions HxWxD	mm	540x780x285	
Net weight	kg	40	
Power supply	V,ph,Hz	230, 1~N, 50	

Note: Indoor unit without U-SAP-KRV94EHDX, SAP-KRV124EHDX supplied without any name.

Refrigerant circuit		size 94	size 124
Tube diameter Narrow/Wide	inch(in)	6.4 (1/4) / 9.5 (3/8)	6.4 (1/4) / 9.5(3/8)
Max piping length	m	15	15
Max elevation diff. - (Lo) (U)	m	10	10
Chargeless piping length	m	7.5	7.5
Amount of additional refrigerant	g/m	15	15

Specifications subject to change without notice.

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

PRICE			
Indoor unit price	Euro	500.00	600.00
Outdoor unit price	Euro	500.00	600.00
Set price	Euro	1.000,00	1.200,00

A Class R410A

Shiki Sai Kan

SAP-KRV..EHDX

Remote control

Sanyo's flagship model integrates cutting edge technology including the industry's top-class energy saving design, a wide array of airflow control and heating/cooling operation down to -15°C

SAP-CRV..EHDX

- Amazing performance in energy-saving: COP up to 5.0
- Sleek & stylish panel design in a choice from 7 designer colors
- Non-reverse cycle defrosting system for no-stop heating operation
- Cooling & Heating operation down to -15°C
- LED photocatalytic sterilization function features excellent performance against odors, germs and bacteria
- Exclusive multi-functional wireless remote control with built-in temperature sensor
- 3-D air flow
- Ion generator refreshes your room with negative ions
- Air clean apatite filter
- Super quiet: 22 dB-A
- Night set back/Economy mode function ensures gentle and saving energy cooling and heating

SAP-KCRV93EHFP • SAP-KCRV123EHFP
SAP-KCRV184EH • SAP-KCRV244EH

Power Range from 2.65 kW to 7.1 kW

INVERTER HEAT PUMP		size 93		size 123		size 184		size 244	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Power input	W	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
EER / COP	W/W	3,11	3,62	3,21	3,61	3,61	3,81	3,01	3,41
Energy class	-	A	A	A	A	A	A	B	B
Running amperes	A	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Annual energy cons. (cooling)	kWh	271,5	-	545	-	750	-	1177,5	-

Indoor Unit		SAP-KRV93EHFP		SAP-KRV123EHFP		SAP-KRV184EH		SAP-KRV244EH	
Air circulation (H)	m³/h	490	530	500	530	890	920	1030	1110
Moisture removal	Liters/h	1,6	-	2,0	-	2,3	-	2,3	-
Sound Power Level (H)	dB-A	55	55	57	55	54	62	56	55
Sound Press. Level (SO/L/M/H)	dB-A	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dimensions HxWxD	mm	280x825x204		280x825x204		298x1065x221		298x1065x221	
Net weight	kg	9		9		13		13	
Power supply	V, ph, Hz	230, 1~, 50				230, 1~, 50			

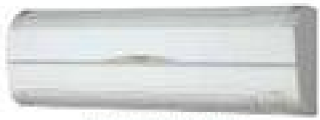
Outdoor Unit		SAP-CRV93EHFP		SAP-CRV123EHFP		SAP-CRV184EH		SAP-CRV244EH	
Sound Power Level (H)	dB-A	59	58	56	61	67	58	69	70
Sound Pressure Level (H)	dB-A	46	47	47	48	51	52	55	58
Dimensions HxWxD	mm	540x720x260		540x720x260		670x860x260		740x900x320	
Net weight	kg	34		35		44		58	
Power supply	V, ph, Hz	230, 1~, 50				230, 1~, 50			

Refrigerant circuit		size 93	size 123	size 184	size 244
Tube diameter Narrow/Wide	mm(in)	6.35 (1/4) / 9.52 (3/8)	6.35 (1/4) / 9.52 (3/8)	6.35 (1/4) / 12.7 (1/2)	6.35 (1/4) / 15.88 (5/8)
Max piping length	m	15	15	30	30
Max elevation diff. O.U. - I.U.	m	7	7	15	15
Chargeless piping length	m	7.5	7.5	10	10
Amount of additional refrigerant	g/m	15	15	25	25

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

Specifications subject to change without notice

PRICE			
Indoor unit price	Euro	500,00	600,00
Outdoor unit price	Euro	500,00	600,00
Set price	Euro	1.000,00	1.200,00



SAP-KRV..EH(FP)

Remote control

Ideal solution when you need quiet, efficient and comfortable room air conditioning

SAP-CRV..EH(FP)

- Stylish appearance with flat front panel
- DC-Inverter technology for precise temperature control
- Powerful & comfortable with compact design
- Automatic restart function
- Auto sweep control
- Powerful start function for rapid cooling/heating
- Washable and reusable air clean apatite filter
- Ion generator refreshes your room with negative ions
- Cooling & Heating operation down to -15°C (size 184 & 244)
- Sleek Multi-functional wireless remote control with built-in temperature sensor
- 24-hour clock with on/off program timer
- Washable front panel
- Quiet operation: 23 dB-A (size 93)
- Night set back/Economy mode function ensures gentle and saving energy cooling and heating

SAP-KCRV93EH • SAP-KCRV123EH

Power Range from 2.65 kW to 3.5 kW

		size 93		size 123	
Performance		Cooling	Heating	Cooling	Heating
Capacity	kW	0.9-3.00-3.2	0.9-3.8-5.0	0.9-3.5-3.8	0.9-4.2-5.8
Power input	W	250-755-1150	250-995-1340	250-1095-1300	250-1165-1550
EER / COP	W/W	3.31	3.82	3.21	3.61
Energy class	-	A	A	A	A
Running amperes	A	1.3-3.9-5.9	1.2-4.8-6.5	1.2-5.2-6.2	1.2-5.5-7.7
Annual energy consumption (cooling)	kWh	377.5	-	345	-

Indoor Unit		SAP-KRV93EH(A)		SAP-KRV123EH(A)	
Air circulation (H)	m3/h	490	530	500	530
Moisture removal	L/hour/h	1.8	-	1.8	-
Sound Power Level (H)	dB-A	53	55	57	59
Sound Pressure Level (Quiet/L/M/H)	dB-A	33/39/51/54	33/39/51/54	35/39/53/56	35/39/51/54
Dimensions HxWxD	mm	285x825x189		285x825x189	
Net weight	kg	9		9	
Power supply	V, ph, Hz	230, 1+N, 50			

Outdoor Unit		SAP-CRV93EH(A)		SAP-CRV123EH(A)	
Sound Power Level (H)	dB-A	58	59	59	61
Sound Pressure Level (H)	dB-A	48	47	47	49
Dimensions HxWxD	mm	540x720x265		540x720x265	
Net weight	kg	32		32	
Power supply	V, ph, Hz	230, 1+N, 50			

Refrigerant circuit		size 93	size 123
Tube diameter Narrow/Wide	mm/in	6.35 (1/4) / 9.52 (3/8)	6.35(1/4) / 9.52(3/8)
Max piping length	m	15	15
Max elevation difference O.U. / I.U.	m	7	7
Chargemne piping length	m	7.5	7.5
Amount of additional refrigerant	g/m	15	15

Specifications subject to change without notice

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB / Outdoor air temperature 7°C DB / 6°C WB

PRICE			
Indoor unit price	Euro	600.00	600.00
Outdoor unit price	Euro	600.00	600.00
Set price	Euro	1.000,00	1.200,00

A Class R410A

Remote control

SAP-KRV..EH(A)

SAP-CRV..EH(A)

Sanyo's DC inverter is outstanding for its rapid cooling & heating power

- Attractive modern design
- DC-inverter technology for precise temperature control
- Powerful start function features quickly temperature reaching
- Automatic restart function
- Auto sweep control
- Washable air clean deodorizing filter
- Ion freshner
- Sleek Multi-functional wireless remote control with built-in temperature sensor
- 24 hour clock with on/off program timer
- Washable front panel
- Quiet operation: 23 dB-A (size 93)
- Night set back/Economy mode function ensures gentle and saving energy cooling and heating

SAP-KCR74EH • SAP-KCR94EH • SAP-KCR124EH SAP-KCR184EH/DH • SAP-KCR224EH/DH

Power Range from 2.2 kW to 6.4 kW

CONSTANT SPEED HEAT PUMP												
		size 74		size 94		size 124		size 184		size 224	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	2.2	2.5	2.65	3.0	3.5	4.0	5.15	5.7	6.0	7.2
Power input	W	665	665	825	830	1060	1100	1600	1580	2275	2240
EER / COP	W/W	3.31	3.83	3.21	3.61	3.31	3.63	3.22	3.61	2.91	3.21
Energy class	-	A	A	A	A	A	A	A	A	C	C
Running amperes *(alt / 3ph)	A	3.1	3.1	3.7	3.8	4.9	5.0	7.1 / 3.2	7.0 / 3.2	10.0 / 4.4	9.8 / 4.4
Annual energy consumption (cooling)	kWh	342.5	-	412.5	-	545	-	800	-	1137.5	-

Indoor Unit		SAP-KR74EH(A)		SAP-KR94EH(A)		SAP-KR124EH(A)		SAP-KR184EH(A)		SAP-KR224EH(A)	
Air circulation (H)	m³/h	420	450	480	500	500	530	800	850	960	960
Moisture removal	L/hour/h	1.2	-	1.8	-	2.2	-	2.3	-	3.3	3.3
Sound Power Level (H)	dB-A	47	46	49	48	52	51	55	52	56	57
Sound Pressure Level (Q/L/M/H)	dB-A	32/36/39/45	24/27/30/36	32/36/39/45	24/27/30/36	32/36/39/45	24/27/30/36	32/36/39/45	32/36/39/45	32/36/39/45	32/36/39/45
Dimensions WxHxD	mm	285x625x189		285x625x189		285x625x189		298x1060x218		298x1060x218	
Net weight	kg	10		10		10		11		12	
Power supply	V, ph, Hz	230, 1~/N, 50									

Outdoor Unit		SAP-CR74EH(A)		SAP-CR94EH(A)		SAP-CR124EH(A)		SAP-CR184EH/DH(A)		SAP-CR224EH/DH(A)	
Sound Power Level (H)	dB-A	58	59	59	60	61	62	67	66	68	70
Sound Pressure Level (H)	dB-A	46	47	47	48	49	50	55	56	57	58
Dimensions WxHxD	mm	540x720x265		540x720x265		560x790x295		670x880x293		670x880x395	
Net weight	kg	39		39		57		69		86	
Power supply	V, ph, Hz	230, 1~/N, 50						230, 1~/N, 50 / 400, 3~/N, 50			

Refrigerant circuit		size 74	size 94	size 124	size 184	size 224
Tube diameter: Narrow/Wide	inch/in	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.7(1/2)	6.35(1/4) / 15.88(5/8)
Max piping length	m	15	15	15	30	30
Max elevation diff. (I.U. / O.U.)	m	7	7	7	7	7
Chargeless piping length	m	7.5	7.5	7.5	7.5	15
Amount of additional refrigerant	g/m	15	15	15	25	25

Rating conditions

Specifications subject to change without notice

PRICE			
Indoor unit price	Euro	620.00	690.00
Outdoor unit price	Euro	880.00	990.00
Set price	Euro	1.890.00	1.990.00

A Class R410A

Remote control

SAP-KR..EH(A)

All you need in an attractive and compact design

SAP-CR..EH(A)

- Lightweight and compact
- Quiet mode from 25 dB-A
- Auto restart after power failure
- Wide model range available: single-phase and three-phase
- Sleek Multi-functional wireless remote control with built-in temperature sensor
- Hot start heating system prevents any cold blasts
- Automatic cooling & heating changeover to maintain the desired temperature
- 24-hour clock with on/off program-bable
- Air sweep control provide comfort in every corner
- Easy-to-clean filter prevents mould or bacteria from occouring
- Negative ion generator (size 184 & 224)
- Washable front panel
- Night set back/Economy mode function ensures gentle and saving energy cooling and heating

SAP-KCLR74E • SAP-KCLR94E • SAP-KCLR124E SAP-KCLR184E/D • SAP-KCLR224D

Power Range from 2.2 kW to 6.4 kW

CONSTANT SPEED LOW AMBIENT						
		size 74	size 94	size 124	size 184	size 224
Performance		**Cooling**	**Cooling**	**Cooling**	**Cooling**	**Cooling**
Capacity	kW	2.2	2.65	3.5	5.15	6.4
Power input	W	680	825	1080	1690	2075
EER	W/W	3.21	3.21	3.21	3.22	3.91
Energy class	-	B	A	A	A	C
Running amperes 1ph / 3ph	A	3.1	3.7	4.9	7.1 / 3.3	9.4
Annual energy consumption (cooling)kWh		242.0	912.5	949	998	1197.5
Indoor Unit		**SAP-KR74E(A)**	**SAP-KR94E(A)**	**SAP-KR124E(A)**	**SAP-KR184E(A)**	**SAP-KR224E(A)**
Air circulation (H)	m3/h	430	480	500	940	950
Moisture removal	Litres/h	1.3	1.8	2.0	2.3	2.3
Sound Power Level (H)	dB-A	47	49	52	53	56
Sound Pressure Level (SA/MIN)	dB-A	25/28/32/38	25/28/33/38	25/28/34/41	32/35/39/42	32/37/41/45
Dimensions (HxWxD)	mm	285x825x195	285x825x195	285x825x195	298x1060x218	298x1060x218
Net weight	kg	10	10	10	12	12
Power supply	V, ph, Hz	230, 1+N, 50				
Outdoor Unit		**SAP-CLR74E(A)**	**SAP-CLR94E(A)**	**SAP-CLR124E(A)**	**SAP-CLR184E/D(A)**	**SAP-CLR224D(A)**
Sound Power Level (H)	dB-A	58	59	61	67	69
Sound Pressure Level (H)	dB-A	46	47	49	55	57
Dimensions (HxWxD)	mm	540x720x260	540x720x260	600x790x285	670x900x285	670x900x285
Net weight	kg	29	30	37	45	53
Power supply	V, ph, Hz	230, 1+N, 50			230, 1+N, 50 / 400, 3+N, 50	400, 3+N, 50

Refrigerant circuit		size 74	size 94	size 124	size 184	size 224
Tube diameter: Narrow/Wide	mm/pc	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.7(1/2)	6.35(1/4) / 15.88(5/8)
Max piping length	m	15	15	15	30	30
Max elevation diff. (i.u. - o.u.)	m	7	7	7	7	7
Chargeless piping length	m	7.5	7.5	7.5	7.5	10
Amount of additional refrigerant	g/m	15	15	15	25	25

Rating conditions

Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB

Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

Specifications subject to change without notice

PRICE			
Indoor unit price	Euro	300.00	400.00
Outdoor unit price	Euro	500.00	600.00
Set price	Euro	1.000,00	1.200,00

A Class

R410A

Remote control

SAP-KR_E(A)

All you need in an attractive and compact design

SAP-CLR_E(A)

- Lightweight and compact
- Continuous cooling operation down to -15°C
- Quiet mode from 25 dB-A
- Auto restart after power failure
- Single-phase and three-phase models available
- Multi functional wireless remote control with built-in temperature sensor
- Negative ion generator (size 184 & 224)
- Night set back/Economy mode function ensures gentle and saving energy cooling and heating
- Easy-to-clean filter prevents mould or bacteria from occouring

SAP-KCR74E • SAP-KCR94E • SAP-KCR124E SAP-KCR184E/D • SAP-KCR224E

Power Range from 2.2 kW to 6.4 kW

CONSTANT SPEED COOLING ONLY						
		size 74	size 94	size 124	size 184	size 224
Performance		Cooling	Cooling	Cooling	Cooling	Cooling
Capacity	kW	2.2	2.65	3.5	5.15	6.4
Power input	W	685	825	1080	1600	2075
EER	W/W	3.21	3.21	3.27	3.22	3.01
Energy class		A	A	A	A	C
Running amperes 1ph / 3ph	A	3.1	3.7	4.9	7.1 / 3.3	10.0
Annual energy consumption (cooling)kWh		342.5	412.5	545	800	1137.5

Indoor Unit		SAP-K074E(A)	SAP-K094E(A)	SAP-K0124E(A)	SAP-K0184E(A)	SAP-K0224E(A)
Air circulation (H)	m³/h	430	600	600	940	960
Moisture removal	Litres/h	1.3	1.8	2.0	2.3	3.3
Sound Power Level (H)	dB-A	61	66	52	53	56
Sound Pressure Levels (UL/MH)	dB-A	25/29/33/38	25/29/33/38	25/29/34/41	32/35/39/42	32/37/41/45
Dimensions HxWxD	mm	285x825x189	285x825x189	285x825x189	298x1063x218	298x1063x218
Net weight	kg	10	10	10	12	12
Power supply	V ph, Hz			230, 1+N, 50		

Outdoor Unit		SAP-C074E(A)	SAP-C094E(A)	SAP-C0124E(A)	SAP-C0184E(T)(A)	SAP-C0224E(A)
Sound Power Level (H)	dB-A	58	59	61	67	69
Sound Pressure Level (H)	dB-A	46	47	49	55	57
Dimensions HxWxD	mm	540x720x300	540x720x300	550x780x300	675x800x395	675x800x395
Net weight	kg	29	25	27	45	53
Power supply	V ph, Hz		230, 1+N, 50		230, 1+N, 50/400, 3+N, 50	230, 1+N, 50

Refrigerant circuit		size 74	size 94	size 124	size 184	size 224
Tube diameter Narrow/Wide	ømm/in	6.35/1/4 / 9.52/3/8	6.35/1/4 / 9.52/3/8	6.35/1/4 / 9.52/3/8	6.35/1/4 / 12.7/1/2	6.35/1/4 / 15.88/5/8
Max piping length	m	15	15	15	30	30
Max elevation diff. (U.U. / U.)	m	7	7	7	7	7
Chargeless piping length	m	7.5	7.5	7.5	7.5	10
Amount of additional refrigerant	g/m	15	15	15	20	25

Rating conditions

Specifications subject to change without notice

PRICE			
Indoor unit price	Euro	520.00	600.00
Outdoor unit price	Euro	560.00	606.00
Set price	Euro	1.080.00	1.220.00

A Class R410A

Remote control

SAP-KR_E(A)

All you need in an attractive and compact design

SAP-CR_E(A)

- Lightweight and compact
- Quiet mode from 25 dB-A
- Auto restart after power failure
- Single-phase and three-phase models available
- Sleek Multi-functional wireless remote control with built-in temperature sensor
- Negative ion generator (size 184 & 224)
- Night set back/Economy mode function ensure gentle and saving energy cooling and heating
- Easy-to-clean filter prevents mould or bacteria from occouring

SAP-FCRV93EH • SAP-FTCRV123EH
SAP-FTCRV184EH • SAP-FTCRV244EH

Power Range from 2.65 kW to 7.1 kW

INVERTER HEAT PUMP									
		size 93		size 123		size 184		size 244	
Performances		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	7.2 (9.0)*	7.5 (8.0)*	7.5 (9.0)*	7.9 (9.2)*	11.5 (13.0)*	12.5 (14.0)*	17.1 (17.1)*	18.5 (18.5)*
Power input	W	-	-	-	-	-	-	-	-
EER / COP	W/W	-	-	-	-	-	-	-	-
Energy class	-	-	-	-	-	-	-	-	-
Running amperes	A	-	-	-	-	-	-	-	-
Annual energy cons. (cooling)	kWh	-	-	-	-	-	-	-	-

Indoor Unit		SAP-FRV93EH	SAP-FTRV123EH	SAP-FTRV184EH	SAP-FTRV244EH
Air circulation (H)	m³/h	-	-	-	-
Moisture removal	L/hour	-	-	-	-
Sound Power Level (H)	dB-A	-	-	-	-
Sound Pressure Level (LINAN)	dB-A	-	-	-	-
Dimensions HxWxD	mm	700x900x200	600x900x190	600x900x190	600x900x190
Net weight	kg	18.6	23.5	23.5	23.5
Power supply	V,ph,Hz	230, 1+N, 50		230, 1+N, 50	

Outdoor Unit		SAP-CRV93EH/FP		SAP-CRV123EH/FP		SAP-CRV184EH		SAP-CRV244EH	
Sound Power Level (H)	dB-A	58	58	59	61	67	68	69	70
Sound Pressure Level (H)	dB-A	46	47	47	48	51	52	53	54
Dimensions HxWxD	mm	549x720x265		549x720x265		675x880x320		740x880x320	
Net weight	kg	34		35		44		55	
Power supply	V,ph,Hz	230, 1+N, 50				230, 1+N, 50			

Refrigerant circuit		size 93	size 123	size 184	size 244
Tube diameter Narrow/Wide	mm/in	6.35 (1/4) / 9.52 (3/8)	6.35 (1/4) / 9.52 (3/8)	6.35 (1/4) / 12.7 (1/2)	6.35 (1/4) / 15.88 (5/8)
Max piping length	m	15	15	30	30
Max elevation diff. (U.D. / I.D.)	m	7	7	15	15
Chargeless piping length	m	7.5	7.5	10	10
Amount of additional refrigerant g/m		15	15	25	25

Rating conditions

Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

Specifications subject to change without notice
Note: Size 93, 123, 184 and 244 are nominal data
* Data not available at the time of publication

PRICE			
Indoor unit price	Euro	595.00	695.00
Outdoor unit price	Euro	560.00	695.00
Set price	Euro	1.060.00	1.200.00

R410A

Remote control

SAP-FRV93EH

SAP-FTRV...EH

The air conditioner can either be mounted on the ceiling or placed on the floor

SAP-CRV..EH(FP)

- DC-inverter technology for precise temperature control
- Most suitable air flow for heating operation
- Powerful & comfortable with compact design
- Lightweight and compact
- Automatic restart function
- Auto sweep control
- Powerful start function for rapid cooling/heating
- Automatic cooling & heating (changeover to maintain the desired temperature
- Cooling & Heating operation down to -15°C (size 184 & 244)
- Sleek Multi-functional wireless remote control with built-in temperature sensor
- 24-hour clock with on/off program timer
- Easy-to-clean filter prevents mould or bacteria from occouring
- Washable front panel
- Night set back/Economy mode function ensures gentle and saving energy cooling and heating

SAP-FCR94EH • SAP-FTCR124EH
SAP-FTCR184EH • SAP-FTCR224EH

Power Range from 2.65 kW to 6.4 kW

CONSTANT SPEED HEAT PUMP		size 94		size 124		size 184		size 224	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	2.65	2.2	3.6	4.25	5.15	5.7	6.4	7.2
Power input	W	825	810	1050	1040	*	*	*	*
EER / COP	W/W	3.21	2.85	3.47	4.16	*	*	*	*
Energy class	-	A	A	A	A	*	*	*	*
Running ampere	A	3.6	3.6	5.0	5.7	*	*	*	*
Annual energy cons. (cooling)	kWh	412.5	-	527.5	-	*	*	*	*

Indoor Unit		SAP-FR94EH(A)	SAP-FTR124EH(A)	SAP-FTR184EH	SAP-FTR224EH
Air circulation (H)	m3/h	600	750	900	930
Moisture removal	L/h	1.0	1.3	*	*
Sound Power Level (H)	dB-A	54	56	*	*
Sound Pressure Level (L/M/H)	dB-A	34/40/43	34/40/43	*	*
Dimensions (HxWxD)	mm	700x560x250	600x800x190	600x800x190	600x800x190
Net weight	kg	18.8	23.5	23.5	23.5
Power supply	V,ph,Hz	230, 1~/N, 50			

Outdoor Unit		SAP-CR94EH(A)		SAP-CR124EH(A)		SAP-CR184EHA		SAP-CR224EHA	
Sound Power Level (H)	dB-A	59	59	61	62	67	68	69	70
Sound Pressure Level (H)	dB-A	47	48	49	50	55	56	57	58
Dimensions (HxWxD)	mm	540x720x250		550x750x255		675x800x285		675x800x285	
Net weight	kg	35		37		48		58	
Power supply	V,ph,Hz	230, 1~N, 50							

Refrigerant circuit		size 94	size 124	size 184	size 224
Tube diameter Narrow/Wide	mm(inch)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.70(1/2)	6.35(1/4) / 15.88(5/8)
Max piping length	m	15	15	30	30
Max elevation diff. O.U. - I.U.	m	7	7	7	7
Chargeless piping length	m	7.5	7.5	7.5	10
Amount of additional refrigerant	g/m	15	15	25	25

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

Specifications subject to change without notice

Note: Size 184 and 224 are tentative data
*Data not available at the time of publication

PRICE			
Indoor unit price	Euro	500,00	400,00
Outdoor unit price	Euro	500,00	800,00
Set price	Euro	1.000,00	1.200,00

A Class R410A

Remote control

SAP-FR94EH(A)

SAP-FTR...EH(A)

The air conditioner can either be mounted on the ceiling or placed on the floor

SAP-CR...EH(A)

- Lightweight and compact
- Low noise design
- Auto restart after power failure
- Most suitable air flow for heating operation
- Sleek Multi-functional wireless remote control with built-in temperature sensor
- Hot start heating system prevents any cold blasts in the room
- Automatic cooling & heating changeover to maintain the desired temperature
- 24-hour clock with on/off program timer
- Automatic flap control provide uniform air flow in the room
- Easy-to-clean filter prevents mould or bacteria from occouring
- Washable front panel
- Night set back/Economy mode function ensures gentle and saving energy cooling and heating

SAP-FCLR94E • SAP-FTCLR124E
SAP-FTCLR184E/D • SAP-FTCLR224D

Power Range from 2.65 kW to 6.4 kW

		CONSTANT SPEED LOW AMBIENT			
		size 94	size 124	size 184	size 224
Performance		Cooling	Cooling	Cooling	Cooling
Capacity	kW	2.65	3.6	5.15	6.4
Power input	W	825	1050	*	*
EER	W/W	3.21	3.41	*	*
Energy class		A	A	*	*
Running amperes (ph / 3ph	A	3.9	5.0	*	*
Annual energy consumption (cooling)	kWh	412.5	527.5	*	*

Indoor Unit		SAP-FR94E(A)	SAP-FTR124E(A)	SAP-FTR184E	SAP-FTR224E
Air circulation (H)	m³/h	400	700	*	*
Moisture removal	L/min/h	1.0	1.3	*	*
Sound Power Level (H)	dB-A	54	54	*	*
Sound Pressure Level (L/M/H)	dB-A	34/40/43	34/40/43	*	*
Dimensions HxWxD	mm	705x940x299	685x900x190	685x900x190	685x900x190
Net weight	kg	18.6	23.3	23.3	23.3
Power supply	ph, Hz	230, 1+N, 50			

Outdoor Unit		SAP-CLR94E(A)	SAP-CLR124E(A)	SAP-CLR184E/A/SA	SAP-CLR224E/A
Sound Power Level (H)	dB-A	58	61	67	69
Sound Pressure Level (H)	dB-A	47	48	55	57
Dimensions HxWxD	mm	646x735x390	960x790x390	875x900x350	875x900x350
Net weight	kg	35	37	42	52
Power supply	ph, Hz	230, 1+N, 50		230, 1+N, 50 / 400, 3+N, 50	400, 3+N, 50

Refrigerant circuit		size 94	size 124	size 184	size 224
Tube diameter Narrow/Wide	mm/in	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.7(1/2)	6.35(1/4) / 15.88(5/8)
Max piping length	m	15	15	30	30
Max elevation difference (I.U. - O.U.)	m	7	7	7	7
Chargeless piping length	m	7.5	7.5	7.5	10
Amount of additional refrigerant	g/m	15	15	20	20

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

Specifications subject to change without notice.

Note: Size 184 and 224 are tentative data
* Data not available at the time of publication

PRICE			
Indoor unit price	Euro	600.00	600.00
Outdoor unit price	Euro	550.00	650.00
Set price	Euro	1.000.00	1.200.00

A Class R410A

SAP-FR94E(A)

SAP-FTR...E(A)

The air conditioner can either be mounted on the ceiling or placed on the floor

SAP-CLR...E(A)

- Low ambient function ensures continuous cooling operation even in cold region
- Lightweight and compact
- Low noise design
- Auto restart after power failure
- Sleek Multi-functional wireless remote control with built-in temperature sensor
- 24-hour clock with on/off program timer
- Automatic flap control provide uniform air flow in the room
- Easy-to-clean filter prevents mould or bacteria from occurring
- Washable front panel
- Night set back/Economy mode function ensures gentle and saving energy cooling

SAP-FCR94E • SAP-FTCR124E
SAP-FTCR184E/D • SAP-FTCR224E

Power Range from 2.65 kW to 6.4 kW

		CONSTANT SPEED COOLING ONLY			
Performance		size 94 Cooling	size 124 Cooling	size 184 Cooling	size 224 Cooling
Capacity	kW	2.65	3.8	5.15	6.4
Power input	W	805	1155	-	-
EER	W/W	3.21	3.41	-	-
Energy class	-	A	A	-	-
Running amperes 1ph / 3ph	A	3.9	5.5	-	-
Annual energy consumption (cooling)	kWh	413.5	527.5	-	-

Indoor Unit		SAP-FR94E(A)	SAP-FTR124E(A)	SAP-FTR184E	SAP-FTR224E
Air circulation (H)	m³/h	400	700	-	-
Moisture removal	L/min/h	1.0	1.3	-	-
Sound Power Level (H)	dB-A	54	54	-	-
Sound Pressure Level (L/M/H)	dB-A	34/40/43	34/40/43	-	-
Dimensions HxWxD	mm	700x500x200	600x900x190	600x900x190	600x900x190
Net weight	kg	16.6	23.5	23.5	23.5
Power supply	ph, V	1ph, 230V, 50Hz			

Outdoor Unit		SAP-CR94E(A)	SAP-CR124E(A)	SAP-CR184EA/EA	SAP-CR224EA
Sound Power Level (H)	dB-A	58	61	67	68
Sound Pressure Level (H)	dB-A	47	49	55	57
Dimensions HxWxD	mm	540x720x285	945x790x289	875x880x285	875x880x285
Net weight	kg	35	57	85	92
Power supply	ph, V	230, 1+N, 50		380, 1+N, 50 / 460, 3+N, 60	230, 1+N, 50

Refrigerant circuit		size 94	size 124	size 184	size 224
Tube diameter Narrow/Wide	mm/in	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.7(1/2)	6.35(1/4) / 15.88(5/8)
Max piping length	m	15	15	50	30
Max elevation difference O.U. / I.U.	m	7	7	7	7
Chargeless piping length	m	7.5	7.5	7.5	10
Amount of additional refrigerant	g/m	15	15	25	25

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

Specifications subject to change without notice
Note: Size 184 and 224 are elevation data

PRICE			
Indoor unit price	Euro	600.00	600.00
Outdoor unit price	Euro	600.00	600.00
Set price	Euro	1.200.00	1.200.00

A Class R410A

SAP-CR...E(A)

Remote control

SAP-FR94E(A)

SAP-FTR...E(A)

The air conditioner can either be mounted on the ceiling or placed on the floor

- Lightweight and compact
- Low noise design
- Auto restart after power failure
- Sleek Multi-functional wireless remote control with built-in temperature sensor
- 24-hour clock with on/off program timer
- Automatic flap control provides uniform air flow in the room
- Easy-to-clean filter prevents mould or bacteria from proliferating
- Washable front panel
- Night set back/Economy mode function ensures gentle and saving energy cooling and heating

SAP-XCRV93EH • SAP-XCRV123EH • SAP-XCRV184EH

Power Range from 2.65 kW to 5.15 kW

INVERTER HEAT PUMP								
		size 93		size 123		size 184		
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	
Capacity	kW	12.65*	13.6*	13.5*	14.3*	15.15*	16.5*	
Power input	W	-	-	-	-	-	-	
EER / COP	W/W	-	-	-	-	-	-	
Energy class		-	-	-	-	-	-	
Running amperes	A	-	-	-	-	-	-	
Annual energy cons. (cooling)	kWh	-	-	-	-	-	-	

Indoor Unit		SAP-XRV93EH	SAP-XRV123EH	SAP-XRV184EH
Air circulation (H)	m3/h	-	-	-
Moisture removal	Litres/h	- - -	- - -	- - -
Sound Power Level (H)	dB-A	-	-	-
Sound Pressure Level (L/M/H)	dB-A	-	-	-
Dimensions HxWxD - Unit	mm	256x575x575	256x575x575	256x575x575
Dimensions HxWxD - Panel	mm	64x730x730	64x730x730	64x730x730
Net weight - Unit	kg	16.5	16.5	16.5
Net weight - Panel	kg	2.5	2.5	2.5
Power supply	ph/Hz	230, 1+N, 50		230, 1+N, 50

Outdoor Unit		SAP-CRV93EHFP		SAP-CRV123EHFP		SAP-CRV184EH	
Sound Power Level (H)	dB-A	58	59	59	61	67	68
Sound Pressure Level (H)	dB-A	46	47	47	49	51	52
Dimensions HxWxD	mm	540x720x285		540x720x363		670x800x285	
Net weight	kg	34		35		44	
Power supply	ph/Hz	230, 1+N, 50				230, 1+N, 50	

Refrigerant circuit		size 93	size 123	size 184
Tube diameter Narrow/Wide	version	6.35 (1/4) / 9.52 (3/8)	6.35 (1/4) / 9.52 (3/8)	6.35 (1/4) / 12.7 (1/2)
Max piping length	m	15	15	30
Max elevation diff. (U.U. / I.U.)	m	7	7	15
Chargeless piping length	m	7.5	7.5	10
Amount of additional refrigerant	g/m	15	15	25

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

Specifications subject to change without notice.
Note: Size 93, 123 and 184 are tentative data.
* Data not available at the time of publication.

PRICE			
Indoor unit price	Euro	600.00	600.00
Outdoor unit price	Euro	700.00	650.00
Set price	Euro	1.000.00	1.200.00

R410A

Remote control

Panel

PNR-XMRV93EHA

SAP-CRV...EH(FP)

SAP-XRV...EH

Super compact design to fit precisely 60x60 standard ceiling modules

- Quick and easy installation on the ceiling
- Lightweight and compact design fit precisely into standard ceiling modules
- DC-Inverter technology for precise temperature control
- Most suitable air flow for heating operation
- Lightweight and compact
- Automatic restart function
- Auto air sweep control provides uniform air flow in the room
- Powerful start function for rapid cooling/heating
- Automatic cooling & heating changeover to maintain the desired temperature
- Cooling & Heating operation down to -15°C (only size 184)
- The built-in drain pump performs to raise the drain pipe up to 50cm
- Sleek Multi-functional wireless remote control with built-in temperature sensor
- 24-hour clock with on/off program timer
- Easy-to-clean filter prevents mould or bacteria from occouring
- The modern style panel can be easily removed and washed
- Quiet operation
- Night set back/Economy mode function ensures gentle and saving energy cooling and heating

SAP-XCR94EH • SAP-XCR124EH • SAP-XCR184EH

Power Range from 2.87 kW to 5.15 kW

Performance		size 94 Cooling	size 94 Heating	size 124 Cooling	size 124 Heating	size 184 Cooling	size 184 Heating
Capacity	kW	2.87	3.1	3.85	4.52	5.15	5.7
Power input	W	875	775	1075	1052	*	*
EER / COP	W/W	3.28	4.0	3.4	4.29	*	*
Energy class	-	A	A	A	A	*	*
Running amperes	A	4.5	4.3	5.2	5.3	*	*
Annual energy cons. (cooling)	kWh	437.5	-	537.5	-	*	-

Indoor unit		SAP-XR94EH(A)		SAP-XR124EH(A)		SAP-XR184EH	
Air circulation (H)	m³/h	700		700		*	
Moisture removal	Liters/h	0.5	-	1.0	-	*	-
Sound Power Level (H)	dB-A	52	52	52	52	*	*
Sound Pressure Level (L/M/H)	dB-A	36/39/43	36/39/43	36/39/43	36/39/43	*	*
Dimensions HxWxD - Unit	mm	298x575x575		298x575x575		298x575x575	
Dimensions HxWxD - Panel	mm	50x730x730		50x730x730		50x730x730	
Net weight - Unit	kg	18.5		18.5		18.5	
Net weight - Panel	kg	2.3		2.5		2.3	
Power supply	V, ph, Hz	230, 1~N, 50					

Outdoor unit		SAP-CR94EH(A)		SAP-CR124EH(A)		SAP-CR184EHA	
Sound Power Level (H)	dB-A	59	60	61	62	67	68
Sound Pressure Level (H)	dB-A	47	48	48	50	55	56
Dimensions HxWxD	mm	540x720x260		585x780x260		675x800x285	
Net weight	kg	35		37		48	
Power supply	V, ph, Hz	230, 1~N, 50					

Refrigerant circuit		size 94	size 124	size 184
Tube diameter Narrow/Wide	mm(in)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.7(1/2)
Max piping length	m	15	15	30
Max elevation diff. (O.U. - I.U.)	m	7	7	7
Chargeless piping length	m	7.5	7.5	7.5
Amount of additional refrigerant	g/m	15	15	25

Rating conditions
Cooling: [illegible]
Heating: [illegible]

[illegible]

PRICE			
Indoor unit price	Euro	500,00	600,00
Outdoor unit price	Euro	500,00	600,00
Set price	Euro	1.000,00	1.200,00

A Class R410A

Remote control

Panel

PNR-X96EHA

SAP-XR...EH(A)

Super compact design to fit precisely 60x60 standard ceiling modules

SAP-CR...EH(A)

- Quick and easy installation on the ceiling
- Lightweight and compact design fit precisely into standard ceiling modules
- Low noise design
- Auto restart after power failure
- Auto air sweep control provides uniform air flow in the room
- Sleek Multi-functional wireless remote control with built-in temperature sensor
- Hot start heating system prevents any cold blasts in the room
- The built-in drain pump performs to raise the drain pipe up to 50cm
- Automatic cooling & heating changeover to maintain the desired temperature
- 24-hour clock with on/off program timer
- Easy-to-clean filter prevents mould or bacteria from occourring
- The modern style panel can be easily removed and washed
- Night set back/Economy mode function ensures gentle and saving energy cooling and heating

SAP-XCLR94E • SAP-XCLR124E • SAP-XCLR184E/D

Power Range from 2.87 kW to 5.15 kW

CONSTANT SPEED 115V AMBIENT				
Performance		size 94 Cooling	size 124 Cooling	size 184 Cooling
Capacity	kW	2.87	3.65	5.15
Power input	W	875	1075	-
EER	W/W	3.28	3.4	-
Energy class	-	A	A	-
Running amperes 1ph / 3ph	A	4.5	5.2	-
Annual energy cons. (cooling)	kWh	437.5	537.5	-

Indoor Unit		SAP-XR94E(A)	SAP-XR124E(A)	SAP-XR184E
Air circulation (H)	m³/h	700	700	-
Moisture removal	L/min/h	0.5	1.0	-
Sound Power Level (H)	dB-A	52	52	-
Sound Pressure Level (L/M/H)	dB-A	36/39/43	36/39/43	-
Dimensions HxWxD - Unit	mm	286x575x575	286x575x575	286x575x575
Dimensions HxWxD - Panel	mm	64x730x730	64x730x730	64x730x730
Net weight / Unit	kg	16.5	16.5	16.5
Net weight / Panel	kg	2.5	2.5	2.5
Power supply	V, ph, Hz		230, 1+N, 50	

Outdoor Unit		SAP-CLR94E(A)	SAP-CLR124E(A)	SAP-CLR184EA/5A
Sound Power Level (H)	dB-A	59	61	67
Sound Pressure Level (H)	dB-A	47	49	55
Dimensions HxWxD	mm	540x720x300	990x790x300	670x880x350
Net weight	kg	35	37	49
Power supply	V, ph, Hz	230, 1+N, 50		230, 1+N, 50 / 400, 3+N, 50

Refrigerant circuit		size 94	size 124	size 184
Tube diameter Narrow/Wide	inch(in)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.7(1/2)
Max piping length	m	15	15	30
Max elevation diff (I.U. / O.U.)	m	7	7	7
Chargeless piping length	m	7.5	7.5	7.5
Amount of additional refrigerant	g/m	15	15	25

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

Specifications subject to change without notice
Note: Size 184 is tentative data
* Data not available at the time of publication

PRICE			
Indoor unit price	Euro	500.00	600.00
Outdoor unit price	Euro	500.00	600.00
Set price	Euro	1 000.00	1 200.00

A Class R410A

Remote control

Panel

PNR-X9HEHA

SAP-CLR...E(A)

SAP-XR...E(A)

Super compact design to fit precisely 90x90 standard ceiling modules

- Low ambient function ensures continuous cooling operation even in cold region
- Quick and easy installation on the ceiling
- Lightweight and compact design fit precisely into standard ceiling modules
- Low noise design
- Auto restart after power failure
- Auto air sweep control provide uniform air flow in the room
- Sleek Multi functional wireless remote control with built in temperature sensor
- The built-in drain pump performs to raise the drain pipe up to 50cm
- 24-hour clock with on/off program timer
- Easy-to-clean filter prevents mould or bacteria from occouring
- The modern style panel can be easily removed and washed
- Night set back/Economy mode function ensures gentle and saving energy cooling

SAP-XCR94E • SAP-XCR124E • SAP-XCR184E/D

Power Range from 2.87 kW to 5.15 kW

Performance		size 94 Cooling	size 124 Cooling	size 184 Cooling
Capacity	kW	2.87	3.65	5.15
Power input	W	875	1075	*
EER	W/W	3.28	3.4	*
Energy class	-	A	A	*
Running ampere 1ph / 3ph	A	4.1	5.2	*
Annual energy cons. (cooling)	kWh	437.5	537.5	*
Indoor unit		**SAP-XR94E(A)**	**SAP-XR124E(A)**	**SAP-XR184E**
Air circulation (H)	m³/h	700	700	*
Moisture removal	Litres/h	0.5	1.0	*
Sound Power Level (H)	dB-A	52	52	*
Sound Pressure Level (L/M/H)	dB-A	36/39/43	36/39/42	*
Dimensions HxWxD - Unit	mm	298x575x575	298x575x575	298x575x575
Dimensions HxWxD - Panel	mm	64x730x730	64x730x730	64x730x730
Net weight - Unit	kg	16.2	16.2	16.2
Net weight - Panel	kg	2.5	2.5	2.5
Power supply	V, ph, Hz	230, 1~N, 50		
Outdoor unit		**SAP-CR94E(A)**	**SAP-CR124E(A)**	**SAP-CR184EA/5A**
Sound Power Level (H)	dB-A	59	61	67
Sound Pressure Level (H)	dB-A	47	48	55
Dimensions HxWxD	mm	540x735x250	565x780x250	670x850x250
Net weight	kg	33	37	46
Power supply	V, ph, Hz	230, 1~N, 50		230, 1~N, 50 / 400, 3~N, 50
Refrigerant circuit		**size 94**	**size 124**	**size 184**
Tube diameter Narrow/Wide	mm(in)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.7(1/2)
Max piping length	m	15	15	30
Max elevation diff. (I.U. - O.U.)	m	7	7	7
Chargeless piping length	m	7.5	7.5	7.5
Amount of additional refrigerant	g/m	15	15	25

Rating conditions
[illegible]
[illegible]

Specifications subject to change without notice
[illegible]
* Data not available at the time of publication

PRICE			
Indoor unit price	Euro	500.00	600.00
Outdoor unit price	Euro	500.00	600.00
Set price	Euro	1.000.00	1.200.00

A Class R410A

Remote control

SAP-XR...E(A)

Panel

PNR-X90EHA

Super compact design to fit precisely 60x60 standard ceiling modules

SAP-CR...E(A)

- Quick and easy installation on the ceiling
- Lightweight and compact design fit precisely into standard ceiling modules
- Low noise design
- Auto restart after power failure
- Auto air swing control provide uniform air flow in the room
- Sleek Multi-functional wireless remote control with built-in temperature sensor
- The built-in drain pump performs to raise the drain pipe up to 50cm
- 24-hour clock with on/off program timer
- Easy-to-clean filter prevents mould or bacteria from occurring
- The modern style panel can be easily removed and washed
- Night set back/Economy mode function ensures gentle and saving energy cooling

SAP-UCRV93EH • SAP-UCRV123EH
SAP-UCRV184EH • SAP-UCRV244EH

Power Range from 2.65 kW to 7.1 kW

INVERTER HEAT PUMP									
		size 93		size 123		size 184		size 244	
Performances		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	7.0 (9.5)*	7.5 (9.5)*	7.0 (9.5)*	7.8 (9.5)*	7.0 (10.5)*	7.8(9.5)*	7.0* (9.5)*	7.8 (9.5)*
Power input	W	-	-	-	-	-	-	-	-
EER / COP	W/W	-	-	-	-	-	-	-	-
Energy class	-	-	-	-	-	-	-	-	-
Running amperes	A	-	-	-	-	-	-	-	-
Annual energy cons. (cooling)	kWh	-	-	-	-	-	-	-	-

Indoor Unit		SAP-URV93EH		SAP-URV123EH		SAP-URV184EH		SAP-URV244EH	
Air circulation (H)	m3/h	-		-		-		-	
Moisture removal	l.(liter)/h	-	-	-	-	-	-	-	-
External static press.(std/nominal)	Pa	-		-		-		-	
Sound Power Level (H)	dB-A	-		-		-		-	
Sound Pressure Level (SP/NR)	dB-A	-		-		-		-	
Dimensions (HxWxD)	mm	286x650x521		286x650x521		286x1054x521		286x1054x521	
Net weight	kg	30		30		35		35	
Power supply	V,ph,Hz	230, 1~/N, 50				230, 1~/N, 50			

Outdoor Unit		SAP-CRV93EHFP		SAP-CRV123EHFP		SAP-CRV184EH		SAP-CRV244EH	
Sound Power Level (H)	dB-A	58	59	59	61	67	68	69	70
Sound Pressure Level (H)	dB-A	46	47	47	48	51	52	55	56
Dimensions (HxWxD)	mm	548x735x300		548x735x300		675x900x320		748x990x320	
Net weight	kg	34		35		44		59	
Power supply	V,ph,Hz	230, 1~/N, 50				230, 1~/N, 50			

Refrigerant circuit		size 93	size 123	size 184	size 244
Side diameter liquid/gas	inch/pcs	6.35 (1/4) / 9.52 (3/8)	6.35 (1/4) / 9.52 (3/8)	6.35 (1/4) / 12.7 (1/2)	6.35 (1/4) / 15.88 (5/8)
Max piping length	m	15	15	30	50
Max elevation diff (i.u. / o.u.)	m	7	7	15	15
Chargeless piping length	m	7.5	7.5	10	10
Amount of additional refrigerant g/m		15	15	25	25

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

Specifications subject to change without notice

Note: Size 93, 123, 184 and 244 are tentative data
Specifications subject to change without notice
- Data not available at the time of publication

PRICE			
Indoor unit price	Euro	500,00	600,00
Outdoor unit price	Euro	900,00	990,00
Set price	Euro	1.000,00	1.250,00

R410A

SAP-URV..EH

Top class performance of ultra-low noise level has been achieved for places which need expensive air conditioning

SAP-CRV..EH(FP)

- Unified body of 286mm height to match modern architectural standards
- The most suitable for irregular-shaped rooms
- Using the booster cable the static pressure can be increased to satisfy any ductwork need
- DC-Inverter technology for precise temperature control
- Lightweight and compact
- Automatic restart function
- Powerful start function for rapid cooling/heating
- Automatic cooling & heating changeover to maintain the desired temperature
- External electric box for quick wiring connection and easy serviceability
- Cooling & Heating operation down to -15°C (size 184 & 244)
- Sleek Multi-functional wireless remote control with built-in temperature sensor
- 24-hour clock with on/off program timer
- The included air filter is easily accessible from the bottom of the unit
- Night set back/Economy mode function ensures gentle and energy saving cooling and heating

SAP-UCR94EH • SAP-UCR124EH
SAP-UCR184EH • SAP-UCR224EH

Power Range from 2.65 kW to 6.4 kW

CONSTANT SPEED HEAT PUMP		size 94		size 124		size 184		size 224	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	2.65	3.0	4.5	4.62	5.15	5.2	6.4	7.2
Power input	W	880	760	1130	1060	*	*	*	*
EER / COP	W/W	3.49	4.1	3.58	4.36	*	*	*	*
Energy class	-	A	A	A	A	*	*	*	*
Running amperes	A	4.1	4.2	5.3	5.4	*	*	*	*
Annual energy cons. (cooling)	kWh	440	390	565	530	*	*	*	*

Indoor Unit		SAP-UR94EH(A)	SAP-UR124EH(A)	SAP-UR184EH	SAP-UR224EH
Air circulation (H)	m³/h	600	600	*	*
Moisture removal	L/pint/h	0.8 -	1.5 -	* -	* -
External static press. std/boost/max	Pa	45/89	45/89	*	*
Sound Power Level (H)	dB-A	54 54	54 54	*	*
Sound Pressure Level (L/M/H)	dB-A	40/43/45 40/43/45	40/43/45 40/43/45	*	*
Dimensions HxWxD	mm	286x652x571	286x652x571	286x1056x571	2.86x1056x571
Net weight	kg	30	31	35	35
Power supply	V,ph,Hz	230,1+N,50			

Outdoor Unit		SAP-CR94EH(A)	SAP-CR124EH(A)	SAP-CR184EHA	SAP-CR224EHA
Sound Power Level (H)	dB-A	59 60	61 62	67 68	69 70
Sound Pressure Level (H)	dB-A	47 49	49 50	53 56	57 58
Dimensions HxWxD	mm	548x720x362	945x790x355	670x990x395	670x990x395
Net weight	kg	35	37	66	66
Power supply	V,ph,Hz	230,1+N,50			

Refrigerant circuit		size 94	size 124	size 184	size 224
Tube diameter Narrow/Wide	inch/in	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.7(1/2)	6.35(1/4) / 15.88(5/8)
Max piping length	m	15	15	30	30
Max elevation diff. (U.d. / U)	m	7	7	7	7
Chargeless piping length	m	7.5	7.5	7.5	10
Amount of additional refrigerant g/m		15	15	25	25

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

Specifications subject to change without notice
Note: Size 184 and 224 are tentative data
* Data not available at the time of publication

PRICE			
Indoor unit price	Euro	500.00	600.00
Outdoor unit price	Euro	600.00	900.00
Set price	Euro	1,060.00	1,399.00

A Class R410A

SAP-UR_EH(A)

Top class performance of ultra-low noise level has been achieved for places which need expensive air conditioning

SAP-CR_EH(A)

- Unified body of 286mm height to match modern architectural standards
- The most suitable for irregular-shaped rooms
- Using the booster cable the static pressure can be increased to satisfy any ductwork need
- Auto restart after power failure
- Multi-functional infrared remote controller with built-in temperature sensor
- Hot start heating system prevents any cold blasts in the room
- External electric box for quick wiring connection and easy serviceability
- Automatic cooling & heating changeover to maintain the desired temperature
- 24-hour clock with on/off program timer
- The included air filter is easily accessible from the bottom of the unit
- Night set back/Economy mode function ensures gentle and saving energy cooling and heating

SAP-UCLR94E • SAP-UCLR124E
SAP-UCLR184E/D • SAP-UCLR224D

Power Range from 3.07 kW to 6.4 kW

		CONSTANT SPEED LOW AMBIENT			
Performance		size 94 Cooling	size 124 Cooling	size 184 Cooling	size 224 Cooling
Capacity	kW	3.07	4.05	5.13	6.4
Power input	W	880	1130	-	-
EER	W/W	3.49	3.58	-	-
Energy class	-	A	A	-	-
Running amperes 1ph / 3ph	A	4.1	5.3	-	-
Annual energy consumption (cooling)	kWh	440	565	-	-

Indoor Unit		SAP-UR94E(A)	SAP-UR124E(A)	SAP-UR134E	SAP-UR224E
Air circulation (H)	m³/h	600	600	-	-
Moisture removal	L/hour/h	0.6	1.5	-	-
External static pressure (set/tested)	Pa	40/60	40/60	-	-
Sound Power Level (H)	dB-A	54	54	-	-
Sound Pressure Level (Quiet/LINEN)	dB-A	40/43/45	40/43/45	-	-
Dimensions HxWxD	mm	286x925x571	286x925x571	286x1050x571	286x1050x571
Net weight	kg	35	35	35	35
Power supply	N.ph.Hz	230, 1+N, 50			

Outdoor Unit		SAP-CLR94E(A)	SAP-CLR124E(A)	SAP-CLR184E/A/SA	SAP-CLR224EA
Sound Power Level (H)	dB-A	59	61	67	69
Sound Pressure Level (H)	dB-A	47	49	55	57
Dimensions HxWxD	mm	548x735x365	565x790x299	675x896x299	675x896x395
Net weight	kg	35	37	45	52
Power supply	N.ph.Hz	230, 1+N, 50		230, 1+N, 50 / 400, 3+N, 50	400, 3+N, 50

Refrigerant circuit		size 94	size 124	size 184	size 224
Tube diameter liquid/Mide	mm/in	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.7(1/2)	6.35(1/4) / 15.88(5/8)
Max piping length	m	15	15	30	30
Max elevation difference O.C. / I.U.	m	7	7	7	7
Chargeless piping length	m	7.5	7.5	7.5	10
Amount of additional refrigerant	g/m	15	15	25	25

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

Specifications subject to change without notice
Note: Size 184 and 224 are tentative data
* Data not available at the time of publication

PRICE			
Indoor unit price	Euro	500,00	600,00
Outdoor unit price	Euro	500,00	600,00
Set price	Euro	1.000,00	1.200,00

A Class R410A

SAP-UR..E(A)

Top class performance of ultra-low noise level has been achieved for places which need expensive air conditioning

SAP-CLR..E(A)

- Low ambient function ensures continuous cooling operation even in cold region
- Unified body of 286mm height to match modern architectural standards
- The most suitable for irregular-shaped rooms
- Using the booster cable the static pressure can be increased to satisfy any ductwork need
- Auto restart after power failure
- Multi-functional infrared remote controller with built-in temperature sensor
- External electric box for quick wiring connection and easy service
- 24-hour clock with on/off program timer
- The included air filter is easily accessible from the bottom of the unit
- Night set back/Economy mode function ensures gentle and saving energy cooling

SAP-UCR94E • SAP-UCR124E
SAP-UCR184E/D • SAP-UCR224E

Power Range from 3.07 kW to 6.4 kW

CONSTANT SPEED COOLING ONLY					
Performance		size 94 Cooling	size 124 Cooling	size 184 Cooling	size 224 Cooling
Capacity	kW	3.07	4.05	5.13	6.4
Power input	W	880	1130	*	*
EER	W/W	3.49	3.58	*	*
Energy class	-	A	A	*	*
Running amperes 1ph / 3ph	A	4.1	5.5	*	*
Annual energy consumption (cooling)	kWh	440	565	*	*

Indoor Unit		SAP-UCR94E(A)	SAP-UCR124E(A)	SAP-UCR184E	SAP-UCR224E
Air circulation (H)	m³/h	600	600	*	*
Moisture removal	Litres/h	0.8	1.3	*	*
External static pressure (std/max/min)	Pa	40/60	40/60	*	*
Sound Power Level (H)	dB-A	54	54	*	*
Sound Pressure Level (L/M/H)	dB-A	40/43/45	40/43/45	*	*
Dimensions HxWxD	mm	256x552x571	256x552x571	256x1059x571	256x1059x571
Net weight	kg	30	30	35	35
Power supply	V,ph,Hz	230, 1+N, 50			

Outdoor Unit		SAP-CR94E(A)	SAP-CR124E(A)	SAP-CR184E/3A	SAP-CR224E/A
Sound Power Level (H)	dB-A	58	61	67	69
Sound Pressure Level (H)	dB-A	47	49	55	57
Dimensions HxWxD	mm	548x720x285	560x790x285	670x990x299	670x990x299
Net weight	kg	35	37	65	72
Power supply	V,ph,Hz	230, 1+N, 50		230,1+N, 50 / 400, 3+N, 50	230, 1+N, 50

Refrigerant circuit		size 94	size 124	size 184	size 224
Tube diameter Narrow/Wide	mm/in	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 9.52(3/8)	6.35(1/4) / 12.7(1/2)	6.35(1/4) / 15.88(5/8)
Max piping length	m	15	15	50	30
Max elevation difference O.U. / I.U.	m	7	7	7	7
Chargeless piping length	m	7.5	7.5	7.5	10
Amount of additional refrigerant	g/m	15	15	25	25

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

Specifications subject to change without notice
Note: Size 184 and 224 are tentative data
* Data not available at the time of publication

PRICE			
Indoor unit price	Euro	500.00	600.00
Outdoor unit price	Euro	600.00	600.00
Set price	Euro	1,060.00	1,200.00

A Class R410A

SAP-UR..E(A)

Top class performance of ultra-low noise level has been achieved for places which need expensive air conditioning

SAP-CR..E(A)

- Unified body of 256mm height to match modern architectural standards
- The most suitable for irregular-shaped rooms
- Using the booster cable the static pressure can be increased to satisfy any ductwork need
- Auto restart after power failure
- Multi-functional infrared remote controller with built-in temperature sensor
- External electric box for quick wiring connection and easy service
- 24-hour clock with on/off program timer
- The included air filter is easily accessible from the bottom of the unit
- Night set back/Economy mode function ensures gentle and saving energy cooling

SAP-CMRV1424EH(C) • SAP-CMRV1924EH(C) SAP-CMRV1934EH(C) • SAP-CMRV2444EH(C) SAP-CMRV3144EH(C)

Power Range from 4.0 kW to 8.0 kW

Remote control

SAP-K(M)RV..EH

SAP-CMRV..EH(C)

A proven design that is highly efficient and energy-saving

- 5 system capacities from 4.0 up to 8.0 kW
- DC-Inverter technology for precise temperature control and low start current
- Twin rotary compressor: the dual rotors revolve smoothly in a well-balanced fashion for stable and efficient performance. This also contributes to increased comfort and rapid cooling & heating, as well as the unit extra-quiet and economical operation
- A/A-class efficiency on whole range, in cooling and heating operation
- Extended operating range down to -15°C in cooling (EHC models) and heating mode
- The reduced volume of the outdoor unit by 9% solves furtherly the problem of limited installation space and does not clutter the outdoor of your home
- No-stop heating operation thanks to the exclusive hot gas bypass system by Sanyo
- Washable and reusable air clean apatite filter
- Ion generator refreshes your room with negative ions
- Night set back/Economy mode function ensures gentle and saving energy cooling and heating
- 24-hour clock with on/off program timer

INVERTER HEAT PUMP												
Outdoor unit		SAP-CMRV1424EH(C)		SAP-CMRV1924EH(C)		SAP-CMRV1934EH(C)		SAP-CMRV2444EH(C)		SAP-CMRV3144EH(C)	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	1.2/4.0/5.0	1.4/4.5/6.3	2.1/5.6/8.0	2.4/7.1/9.0	2.1/5.6/8.0	2.4/7.1/9.0	2.8/8.0/9.5	3.0/9.0/10.0	2.8/8.0/9.5	3.0/9.0/10.0
Power input	W	1525/*	1525/*	1/1680/*	1/1735/*	1/1680/*	1/1735/*	1/2280/*	1/2550/*	1/1735/*	1/2040/*
EER / COP	W/W	6.22	4.86	5.33	4.21	5.26	4.21	5.45	4.36	4.64	4.61
Energy class		A	A	A	A	A	A	A	A	A	A
Rating amperes	A	6.1	6.1	7.32	7.7	7.32	7.7	8.67	8.67	7.55	8.56
Annual energy cons. (cooling)	kWh	462.5	-	847.5	-	847.5	-	1000	-	962.5	-
Connectable units	No.	2		2		3		4		4	
Sound Pressure Level (H)	dB-A	47 / 48		50 / 52		50 / 52		55 / 52		56 / 52	
Sound Power Level (H)	dB-A	* / *		* / *		* / *		* / *		* / *	
Tube diameter Narrow/Wide	mm	2x 9.52/15.9 2x 9.52/28		2x 9.52/15.9 2x 9.52/28		3x 9.52/15.9 3x 9.52/28		4x 9.52 (1/3) 2x 9.52/28, 12.7(1/2)		4x 9.52/15.9 2x 9.52/28, 2x 12.7(1/2)	
Max piping length - Total	m	30		45		45		60		70	
Max piping length - per Unit	m	20		25		25		25		30	
Max elevation diff. O.U. - I.U.	m	15		15		15		15		15	
Chargeless piping length - Total	m	30		45		45		45		45	
Dimensions HxWxD	mm	950x760x320		740x900x320		740x900x320		740x900x320		890x900x320	
Net weight	kg	42		65		65		65		82	
Power supply	V,ph,Hz	230, 1+N, 50									

Note: at least two or more indoor units must be connected to the multi outdoor unit.

Wall mounted unit		SAP-K09RV1HEH		SAP-K09RV4HEH		SAP-K09RV1(H)EH		SAP-K09V1HEH		SAP-K09V4HEH	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	2.2	2.5	2.05	3.8	3.5	4.2	5.19	6.0	7.1	8.3
Air circulation (H)	m³/h	*	*	*	*	*	*	*	*	*	*
Moisture removal	L(hr)/h	*	*	*	*	*	*	*	*	*	*
Sound Pressure Level (H)	dB-A	23 / 33	23 / 33	23 / 34	23 / 34	35 / 36	35 / 34	39/39/42	39/39/41	39/41/47	39/40/46
Sound Power Level (H)	dB-A	*	*	*	*	*	*	53	53	56	55
Tube diameter Narrow/Wide	mm	6.35/15.9 / 9.52/15		6.35/15.9 / 9.52/15		6.35/15.9 / 9.52/15		6.35/15.9/12.7 (1/2)		6.35/15.9/15.88(5/8)	
Dimensions HxWxD	mm	285x825x202		285x825x202		285x825x202		299x1080x231		299x1080x231	
Net weight	kg	10		10		10		12		12	
Power supply	V,ph,Hz	230, 1+N, 50									

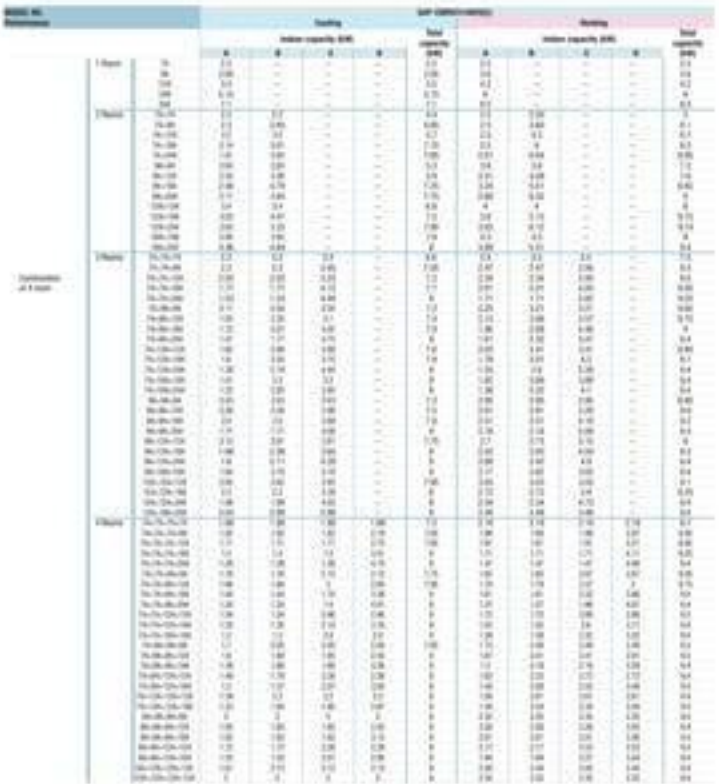
Rating conditions:
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

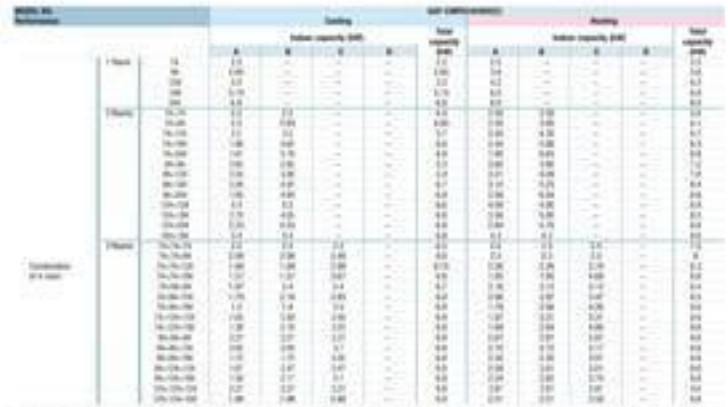
Specifications subject to change without notice
* Data not available at the time of publication

PRICE			
Indoor unit price	Euro	500.00	600.00
Outdoor unit price	Euro	600.00	900.00
Set price	Euro	1,000.00	1,200.00

A Class R410A

COMBINATIONS TABLE





This multi system will allow up to 4 indoor units to be connected. However all 4 indoor units must not be operated simultaneously. Must have at least one of the 4 indoor units to match one of the combinations found in the above table.

SAP-CMRV1923GJH • SAP-CMRV2433GJH SAP-CMRV3143GJH

Power Range from 5.6 kW to 9.0 kW

INVERTER HEAT PUMP							
Outdoor unit		SAP-CMRV1923GJH(A)		SAP-CMRV2433GJH(A)		SAP-CMRV3143GJH(A)	
Performances		Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	5.6 (0.8~6.7)	6.7 (1.3~8.4)	7.4 (0.8~9.1)	7.8 (0.8~9.2)	7.2 (0.8~9.1)	7.7 (1.3~9.2)
Power input	W	1790	2110	2540	2380	1990	2170
COP	W/W	3.13	3.86	3.22	3.41	3.62	3.51
Energy class	-	B	B	A	B	A	B
Running amperes	A	8.5	9.9	9.7	11.0	8.9	9.7
Annual energy cons. (cooling)	kWh	504		1029		909	
Connectable units	No.	1		1		1	
Sound Pressure Level (H)	dB-A	46	46	46	46	53	54
Sound Power Level (H)	dB-A	60	57	60	57	71	72
Total diameter Suction/Main	mm	9.52 (3/8) 15.9 (5/8)		9.52 (3/8) 15.9 (5/8)		9.52 (3/8) 19.0 (3/4)	
Max piping length - Total	m	30		30		50	
Max piping length - per Unit	m	25		25		30	
Max elevation diff. O.U. - I.U.	m	10		10		10	
Chargeless piping length - Total	m	30		30		10	
Dimensions Net/Unit	mm	735x290x540		735x290x540		950x330x540	
Net weight	kg	39		72		56	
Power supply	1ph/Hz			230, 1~/50			

Note: all listed Hot or multi-indoor units must be connected to the multi outdoor unit.
Specifications subject to change without notice.

SAP-CMRV1923GJH(A)

SAP-CMRV2433GJH(A)
SAP-CMRV3143GJH(A)

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

PRICE			
Indoor unit price	Euro	300.00	800.00
Outdoor unit price	Euro	900.00	900.00
Set price	Euro	1.200,00	1.200,00

A Class

R410A

A proven design that is highly efficient and energy-saving

- The Sanyo Flexi Multi range of heat pump and straight cooling multi split system are the ideal, flexible solution for providing quick and efficient air conditioning to 2, 3 or 4 areas with a single outdoor unit
- Wide choice of indoor unit style: wall mounted, floor/ceiling, cassette, ducted
- DC inverter technology for precise temperature control and low start current
- High efficiency on whole range, in cooling and heating mode
- No-stop heating operation thanks to the exclusive hot gas bypass system by Sanyo
- Twin rotary compressor: the dual rotors revolve smoothly in a well-balanced fashion for stable and efficient performance. This also contributes to increased comfort and rapid cooling & heating, as well as the unit extra-quiet and economical operation
- Chargeless outdoor unit, therefore no additional refrigerant needed on site
- Night set back function
- 24-hour clock with on/off program timer
- Night set back/Economy mode function ensures gentle and saving energy cooling and heating

SAP-CMRV 3-SERIE

INDOOR UNIT

Wall mounted unit		SAP-A5MRV5(E/N)(A)		SAP-A8MRV12(E/N)(A)		SAP-A10MRV14(E/N)(A)		SAP-A12/14(E/N)(A)	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	5.7/2.8/3.2	6.9/4.2/5.4	8.6/5.6/7.6	9.9/4.8/6.3	11.5/5.6/8.6	12.7/7.1/7.8	13.7/8.8/11	2.0/8.0/9.8
Air circulation (H)	m³/h	620	650	940	700	690	800	1100	1170
Moisture removal	Litres/h	1.8	-	3.2	-	3.8	-	3.4	-
Sound Pressure Level (L/M/H)	dB-A	33/39/41	34/39/44	33/39/46	34/40/47	39/44/49	44/46/50	39/42/47	38/43/47
Sound Power Level (H)	dB-A	52	55	57	58	60	61	58	59
Tube diameter Narrow/Wide	mm (in)	6.35(1/4) - 9.52(3/8)		6.35(1/4) - 9.52(3/8)		6.35(1/4) - 9.52(3/8)		6.35(1/4) - 12.7(1/2)	
Dimensions HxWxD	mm	275x960x178		285x960x218		285x960x219		330x1140x235	
Net weight	kg	9.5		9.5		9.5		19	
Power supply	V,ph,Hz	230, 1~N, 50							

Concealed duct unit		SAP-D8MRV5(E/N)(A)		SAP-D8MRV12(E/N)(A)		SAP-D8MRV14(E/N)(A)		SAP-D8V24(E/N)(A)	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	5.7/2.8/3.2	6.9/4.2/5.4	8.6/5.6/7.6	9.9/4.8/6.3	11.5/5.6/8.6	12.7/7.1/7.8	13.7/8.8/11	2.0/8.0/9.8
Air circulation (H)	m³/h	650	800	700	800	850	900	1100	1260
Moisture removal	Litres/h	1.8	-	2.8	-	2.8	-	3.4	-
External static pressure (L/H)	Pa	10-8/17-3.5		19-8/17-3.5		19-8/17-3.5		19-8/17-3.5	
Sound Pressure Level (L/M/H)	dB-A	37/39/41	38/40/42	37/39/41	38/40/42	37/39/41	38/40/42	37/39/41	38/40/42
Sound Power Level (H)	dB-A	52	53	52	53	53	53	53	53
Tube diameter Narrow/Wide	mm(in)	6.35(1/4) / 9.52(3/8)		6.35(1/4) / 9.52(3/8)		6.35(1/4) / 9.52(3/8)		6.35(1/4) / 12.7(1/2)	
Dimensions HxWxD	mm	350x950x475		350x950x475		350x950x475		350x950x475	
Net weight	kg	19		19		19		19	
Power supply	V,ph,Hz	230, 1~N, 50							

Semi concealed 4 way unit		SAF-E8MRV5(E/N)(A)		SAF-E8MRV12(E/N)(A)		SAF-E8MRV14(E/N)(A)	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	5.7/2.8/3.2	6.9/4.2/5.4	8.6/5.6/7.6	9.9/4.8/6.3	11.5/5.6/8	1.2/7.1/7.8
Air circulation (H)	m³/h	700		700		750	
Moisture removal	Litres/h	1.8	-	2.01	-	2.8	-
Sound Pressure Level (L/M/H)	dB-A	37/40/44		37/40/44		37/40/46	
Sound Power Level (H)	dB-A	55		55		56	
Tube diameter Narrow/Wide	mm(in)	6.35(1/4) / 9.52(3/8)		6.35(1/4) / 9.52(3/8)		6.35(1/4) / 9.52(3/8)	
Dimensions HxWxD - Unit	mm	298x575x575		298x575x575		298x575x575	
Dimensions HxWxD - Panel	mm	64x730x730		64x730x730		64x730x730	
Net weight - Unit	kg	16.5		16.5		16.2	
Net weight - Panel	kg	2.5		2.5		2.5	
Power supply	V,ph,Hz	230, 1~N, 50					

Floor and Floor/Ceiling unit		SAP-FM8MV5(E/N)(A)		SAP-FTM8MV12(E/N)(A)		SAP-FTM8MV14(E/N)(A)		SAP-FTM8V22(E/N)(A)	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	5.7/2.8/3.2	6.9/4.2/5.4	8.6/5.6/7.6	9.9/4.8/6.3	11.5/5.6/8.6	1.2/7.1/7.8	13.7/8.8/11	2.0/8.0/9.8
Air circulation (H)	m³/h	400		700		730		800	
Moisture removal	Litres/h	1.8	-	2.0	-	2.8	-	3.4	-
Sound Pressure Level (L/M/H)	dB-A	35/40/43		38/43/47		41/45/49		42/46/50	
Sound Power Level (H)	dB-A	54		58		60		61	
Tube diameter Narrow/Wide	mm(in)	6.35(1/4) / 9.52(3/8)		6.35(1/4) / 9.52(3/8)		6.35(1/4) / 9.52(3/8)		6.35(1/4) / 12.7(1/2)	
Dimensions HxWxD	mm	700x560x200		680x680x190		680x680x190		680x680x190	
Net weight	kg	14		23.5		23.5		23.5	
Power supply	V,ph,Hz	230, 1~N, 50							

Concealed duct unit		SAP-U8MRV5(E/N)(A)		SAP-U8MRV12(E/N)(A)		SAP-U8MRV14(E/N)(A)		SAP-U8MRV22(E/N)(A)	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	5.7/2.8/3.2	6.9/4.2/5.4	8.6/5.6/7.6	9.9/4.8/6.3	11.5/5.6/8	1.2/7.1/7.8	13.7/8.8/11	2.0/8.0/9.8
Air circulation (H)	m3/h	620	650	800	800	875	875	1100	1170
Moisture removal	Litres/h	1.8	-	2.8	-	2.8	-	3.4	-
External static press. (min/max)	Pa	49/69		49/69		49/69		49/69	
Sound Pressure Level (L/M/H)	dB-A	36/38/41		36/38/41		42/47/51		48/49/52	
Sound Power Level (H)	dB-A	52		52		62		63	
Tube diameter Narrow/Wide	mm(in)	6.35(1/4) / 9.52(3/8)		6.35(1/4) / 9.52(3/8)		6.35(1/4) / 9.52(3/8)		6.35(1/4) / 12.7(1/2)	
Dimensions HxWxD	mm	356x852x371		356x950x371		356x1050x371		356x1050x371	
Net weight	kg	30		34		34		36	
Power supply	V,ph,Hz	230, 1~N, 50							

Specifications subject to change without notice

COMBINATIONS TABLE

MODEL NO.			SAP-CMRV5(E/N)(A)							
Performance			Cooling					Heating		
			Indoor capacity (kW)				Total capacity (kW)	Indoor capacity (kW)				Total capacity (kW)
			A	B	C	D		A	B	C	D	
Combination of 1 room	1 Room	05	3.40	-	-	-	3.50	4.00	-	-	-	4.00
		07	5.00	-	-	-	5.00	5.00	-	-	-	5.00
		09	5.50	-	-	-	5.60	7.10	-	-	-	7.10
	2 Rooms	05+05	2.80	2.80	-	-	5.60	3.00	3.00	-	-	6.00
		05+07	2.80	3.50	-	-	6.30	3.00	3.50	-	-	6.50
		05+09	2.80	3.80	-	-	6.60	3.00	4.00	-	-	7.00
		07+07	3.50	3.50	-	-	7.00	3.50	3.50	-	-	7.00
		07+09	3.50	3.80	-	-	7.30	3.50	3.80	-	-	7.30
		09+09	3.70	3.70	-	-	7.40	3.80	3.80	-	-	7.60

MODEL NO.			SAP-CMRV5(E/N)(A)							
Performance			Cooling					Heating		
			Indoor capacity (kW)				Total capacity (kW)	Indoor capacity (kW)				Total capacity (kW)
			A	B	C	D		A	B	C	D	
Combination of 1 room	1 Room	05	2.80	-	-	-	2.90	4.00	-	-	-	4.00
		07	3.80	-	-	-	3.90	5.00	-	-	-	5.00
		09	5.00	-	-	-	5.00	7.10	-	-	-	7.10
	2 Rooms	05+05	2.90	2.90	-	-	5.80	3.00	3.00	-	-	6.00
		05+07	2.90	3.90	-	-	6.80	3.00	3.75	-	-	6.75
		05+09	2.90	4.00	-	-	6.90	3.00	4.00	-	-	7.00
		07+07	3.45	3.45	-	-	6.90	3.50	3.50	-	-	7.00
		07+09	3.45	4.00	-	-	7.45	3.50	4.00	-	-	7.50
		09+09	3.70	3.70	-	-	7.40	3.80	3.80	-	-	7.60
	3 Rooms	05+05+05	2.50	2.50	2.50	-	7.50	2.70	2.70	2.70	-	8.10
		05+05+07	2.50	2.50	3.50	-	8.50	2.70	2.70	3.50	-	8.90
		05+05+09	2.40	2.40	4.20	-	9.00	2.60	2.60	4.70	-	9.90
		05+07+07	2.50	3.00	3.00	-	8.50	2.70	3.25	3.25	-	9.20
		05+07+09	2.50	3.00	3.50	-	9.00	2.70	3.25	3.75	-	9.70
		05+09+09	2.50	3.00	3.50	-	9.00	2.70	3.25	3.75	-	9.70
		07+07+07	3.00	3.00	3.00	-	9.00	3.25	3.25	3.25	-	9.75
		07+07+09	3.00	3.00	3.50	-	9.50	3.25	3.25	3.75	-	10.25
		07+09+09	3.00	3.00	3.50	-	9.50	3.25	3.25	3.75	-	10.25
		09+09+09	3.00	3.00	3.50	-	9.50	3.25	3.25	3.75	-	10.25
	4 Rooms	05+05+05+05	2.10	2.10	2.10	2.10	8.40	2.30	2.30	2.30	2.30	9.20
		05+05+05+07	2.10	2.10	2.10	2.70	9.00	2.30	2.30	2.30	2.90	9.80
		05+05+05+09	1.90	1.90	1.90	2.90	8.60	2.10	2.10	2.10	3.20	9.50
		05+05+07+07	1.90	1.90	2.50	2.90	9.20	2.10	2.10	2.80	3.20	10.20
		05+05+07+09	1.90	1.90	2.50	3.50	9.80	2.10	2.10	2.80	3.90	10.90
		05+05+09+09	1.90	1.90	2.50	3.50	9.80	2.10	2.10	2.80	3.90	10.90
		05+07+07+07	1.90	2.40	2.40	2.90	9.60	2.10	2.70	2.70	3.20	10.70
		05+07+07+09	1.90	2.40	2.40	3.50	10.20	2.10	2.70	2.70	3.90	11.40
		05+07+09+09	1.90	2.40	2.40	3.50	10.20	2.10	2.70	2.70	3.90	11.40
		05+09+09+09	1.90	2.40	2.40	3.50	10.20	2.10	2.70	2.70	3.90	11.40
		07+07+07+07	2.40	2.40	2.40	2.90	10.10	2.70	2.70	2.70	3.20	11.30
		07+07+07+09	2.40	2.40	2.40	3.50	10.70	2.70	2.70	2.70	3.90	12.00
		07+07+09+09	2.40	2.40	2.40	3.50	10.70	2.70	2.70	2.70	3.90	12.00
		07+09+09+09	2.40	2.40	2.40	3.50	10.70	2.70	2.70	2.70	3.90	12.00
		09+09+09+09	2.40	2.40	2.40	3.50	10.70	2.70	2.70	2.70	3.90	12.00

MODEL NO.			SAP-CMRV5(E/N)(A)							
Performance			Cooling					Heating		
			Indoor capacity (kW)				Total capacity (kW)	Indoor capacity (kW)				Total capacity (kW)
			A	B	C	D		A	B	C	D	
Combination of 1 room	1 Room	05	3.00	-	-	-	3.00	4.00	-	-	-	4.00
		07	3.00	-	-	-	3.00	5.00	-	-	-	5.00
		09	3.00	-	-	-	3.00	7.10	-	-	-	7.10
	2 Rooms	05+05	3.00	3.00	-	-	6.00	3.00	3.00	-	-	6.00
		05+07	1.90	3.00	-	-	4.90	1.75	3.00	-	-	4.75
		05+09	1.90	3.00	-	-	4.90	1.75	3.00	-	-	4.75
		07+07	2.45	2.45	-	-	4.90	2.25	2.25	-	-	4.50
		07+09	2.45	2.45	-	-	4.90	2.25	2.25	-	-	4.50
		09+09	2.50	2.50	-	-	5.00	2.30	2.30	-	-	4.60
	3 Rooms	05+05+05	2.00	2.00	2.00	-	6.00	2.00	2.00	2.00	-	6.00
		05+05+07	1.60	1.60	2.70	-	5.90	1.60	1.60	2.70	-	5.90
		05+05+09	1.60	1.60	2.70	-	5.90	1.60	1.60	2.70	-	5.90
		05+07+07	1.60	2.35	2.35	-	6.30	1.60	2.35	2.35	-	6.30
		05+07+09	1.60	2.35	2.35	-	6.30	1.60	2.35	2.35	-	6.30
		05+09+09	1.60	2.35	2.35	-	6.30	1.60	2.35	2.35	-	6.30
		07+07+07	2.10	2.10	2.10	-	6.30	2.35	2.35	2.35	-	7.05
		07+07+09	2.10	2.10	2.10	-	6.30	2.35	2.35	2.35	-	7.05
		07+09+09	2.10	2.10	2.10	-	6.30	2.35	2.35	2.35	-	7.05
		09+09+09	2.10	2.10	2.10	-	6.30	2.35	2.35	2.35	-	7.05

SA-P51E • SA-P71E • SAP-PFR94E • SAP-PFR124E

Power Range from 1.8 kW to 3.98 kW

		MONOBLOCK TYPE	
		SA-P51E	SA-P71E
Performance		Cooling	Cooling
Capacity	kW	1.8	2.1
Power input	W	720	720
EER	W/W	2.5	2.9
Energy class	-	C	A
Running amperes	A	3.3	3.3
Annual energy cons. (cooling)	kWh	360	350
Fan speed	No	2	2
Air circulation (H)	m³/h	290	310
Tubing length	m	1.5	1.5
Moisture removal cold / dry mode	L/hour/h	0.45 / 19.0	1.0 /23.0
Sound Pressure Level (LN)	dB-A	50/52	51/53
Dimensions HxWxD	mm	661x465x356	670x450x363
Net weight	kg	30	30
Power supply	V, ph, Hz	230, 1+N, 50	

		SPLIT TYPE	
		SAP-PFR94E	SAP-PFR124E
Performance		Cooling	Cooling
Capacity	kW	2.90	3.98
Power input	W	925	1240
EER	W/W	3.22	3.21
Energy class	-	A	A
Running amperes	A	4.8	7.0
Annual energy cons. (cooling)	kWh	462.5	620
Fan speed	No	3	3
Air circulation (H)	m³/h	370	450
Tubing length	m	1.5	1.5
Moisture removal	L/hour/h	1.2	1.5
Sound Pressure Level (L/M/H)	dB-A	32/33/36	33/34/37
Dimensions HxWxD - Indoor u.	mm	780x580x195	780x580x245
Dimensions HxWxD - Outdoor u.	mm	435x640x330	490x625x250
Net weight - Indoor unit	kg	30	34
Net weight - Outdoor unit	kg	63	70
Power supply	V, ph, Hz	230, 1+N, 50	

Rating conditions

Specifications subject to change without notice

		PRICE	
Indoor unit price	Euro	300.00	800.00
Outdoor unit price	Euro	500.00	800.00
Set price	Euro	1.000.00	1.200.00

A Class

R410A

SA-P..E

SAP-PFR...E

The best choice to give you continuous flow of cool and dry air where most needed

- High efficiency on whole range
- Quick coupling connection for easy installation through a window or a wall (split type)
- Ozone-friendly and not flammable R410A refrigerant
- Multi-functional infrared remote controller with built-in temperature sensor (split type)
- 24-hour clock with on/off program timer
- 2 or 3 fan speeds + auto
- 3 operation mode: cool, dry, fan only
- Rotary compressor ensures silent operation
- Long piping connection the Sanyo portables can be placed where you want
- Sleep function ensures gentle and saving energy cooling in the room

ABC-HP14

Up to 25 m² room size

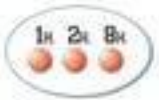
		ABC-HP14
Applied Area	m²	25
Fan speed		3
Air circulation (L/MIN)	m³/h	360/510/780
Sound pressure level (L/MIN)	dB-A	19/35/53
Power input Min-Max	W	19-56
Dust Filter		HEPA Filter & Deodorant Carbon Filter
Delay Timer		1 Hour / 2 Hour / 8 Hour
Dimensions HxWxD	mm	430x405x132
Weight	kg	4.1
Power supply	V,Hz	230, 1~/N, 50

Specifications subject to change without notice

ANTI-ODOUR AND POLLEN FILTERS

NEGATIVE ION GENERATOR

3 FAN SPEEDS



TIMER

WIDE AIR INTAKE ON ALL SIDES

TILTABLE FOR OPTIMUM OPERATION

ABC-HP14

Create the best atmosphere in your living room

- HEPA long-life filter removes 99% of bacteria, spores and dust
- Carbon filter ensures deodorizing power on whole air flow
- Negative ion generator makes refreshed air fill your living room with negative ions like in a forest or around a waterfall
- Quick inhaling cigarette smoke and house dust by bottom air intake
- Powerful inhaling on whole surface
- Easy-to-clean 3-stage filter can be quickly removed when occouring
- Tiltable for optimum operation
- 3 position delay timer
- 3 fan-speeds + combi
- Special program for removal of pollens

SANYO

SANYO Light-commercial Air Conditioners
enhance the air quality in shops, restaurants and any business site

Sanyo DC-inverter is outstanding for its rapid cooling and heating power. Their newly developed R410A heat exchangers and microcomputer have formed lightweight, compact, and highly efficient outdoor units.
The twin rotary compressor dramatically reduces vibration and noise during operation, thus ensuring quiet operation.
Up to 4 standard indoor units of different types and capacities can be operated simultaneously with a single outdoor unit.

INDEX OF PRODUCTS:

SPW-KCR184GVH56 • SPW-KCR254GVH56/H8

Power Range from 5.0 kW to 7.1 kW

		size 184		size 254	
Performance		Cooling	Heating	Cooling	Heating
Capacity	kW	15.0*	15.8*	2.0/1.1/5.5	2.2/5.0/5.0
Power input	W	1425	1735	2360	2360
EER/COP	W/W	3.58	3.23	3.01	3.04
Energy class	-	B	C	A	A
Running amperes 1ph / 3ph	A	8.4	8.9	13.7 / 3.9	13.3 / 3.8
Annual energy consumption (cooling)	kWh	912.5	-	1160	-

Indoor Unit		SPW-KCR184GVH56(B)	SPW-KCR254GVH56(B)
Air circulation (H/M/L)	m³/h	780/660/480	1140/960/720
Moisture removal	Litres/h	2.1 - -	4.6 - -
Sound Power Level (H)	dB-A	65	67
Sound Pressure Level (H/M/L)	dB-A	39/34/30	41/37/34
Dimensions HxWxD	mm	295x990x253	339x1180x228
Net weight	kg	12	21
Power supply	V, ph, Hz	230, 1+N, 50	

Outdoor Unit		SPW-CR184GVH56(B)		SPW-CR254GVH56(B)-HK6	
Sound Power Level (H)	dB-A	58	59	59	61
Sound Pressure Level (H/L)	dB-A	46/43	47/43	47/43	49/45
Dimensions HxWxD	mm	965x790+ 70x285		790x990x340	
Net weight	kg	40		59	
Power supply	V, ph, Hz	230, 1+N, 50		230, 1+N, 50 / 400, 3+N, 50	

Refrigerant circuit		size 184	size 254
Tube diameter Narrow/Wide	mm(in)	6.35 (1/4) / 12.7 (1/2)	6.35 (1/4) / 15.88 (5/8)
Max piping length	m	40	50
Max elev. diff. - O.U. above/below I.U.	m	30 / 15	30 / 15
Chargeless piping length	m	30	30
Amount of additional refrigerant	g/m	20	40

Specifications subject to change without notice
* Data not available at the time of publication

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

PRICE			
Indoor unit price	Euro	500.00	600.00
Outdoor unit price	Euro	930.00	995.00
Set price	Euro	1.360,00	1.595,00

R410A

Option remote controller

SPW-KR..GH56(B)

SPW-CR..GVH56/H8(B)

Easy installation and operation equivalent to that for a room air conditioner

- Twin-rotary compressor dramatically reduces vibration and noise during operation
- DC-inverter control
- Wide outdoor unit range: single-phase or three phase
- Lighter and small unit makes the installation easier
- Quick start up
- Extra quiet and energy saving
- Cooling & Heating operation down to -15°C
- Multi-functional wireless remote-control with built-in temperature control
- Piping outlet in three directions
- Anti-mould filters are standard equipment
- Washable front panel

SPW-TDCR184GVH56 • SPW-TDCR254GVH56/H8
SPW-TDCR364GVH56/H8 • SPW-TDCR484GVH56/H8
SPW-TDCR604GVH56/H8

Power Range from 5.3 kW to 14.0 kW

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	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Power input	W	1957	1969	2350	2250	3290	3050	4120	4070	5050	4750
EER/COP	W/W	2.79	3.36	3.02	3.56	3.04	3.47	3.03	3.44	2.67	3.36
Energy class	-	D	C	B	B	B	A	-	-	-	-
Running amperes 1ph / 3ph	A	8.5	9.0	12.6 / 4.1	12.3 / 4.0	16.2 / 3.6	15.1 / 5.4	20.3 / 7.1	20.0 / 7.0	26.4 / 9.2	24.2 / 8.4
Annual energy consumption cooling	kWh	653.5	-	1175	-	1645	-	-	-	-	-

Indoor Unit		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Air circulation (H/M/L)	m³/h	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Moisture removal	L/hour	2.0	3.0	3.8	5.8	5.8
Sound Power Level (H)	dB-A	47	49	52	54	58
Sound Pressure Level (H/M/L)	dB-A	[illegible]	[illegible]	41/38/35	43/40/37	45/41/38
Dimensions (HxWxD)	mm	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Net weight	kg	21	25	33	33	33
Power supply	V, ph, Hz	230, 1+N, 50				

Outdoor Unit		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
Sound Power Level (H)	dB-A	58	59	59	61	63	64	64	65	65	66
Sound Pressure Level (H/L)	dB-A	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dimensions (HxWxD)	mm	[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
Net weight	kg	45		58		65		100		100	
Power supply	V, ph, Hz	230, 1+N, 50		230, 1+N, 50 / 400, 3+N, 50							

Refrigerant circuit		size 184	size 254	size 364	size 484	size 604
Tube diameter: Narrow/Wide	mm(in)	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Max piping length	m	40	50	50	50	50
Max ver. diff. (i.u. above/below o.u.)	m	30 / 15	30 / 15	30 / 15	30 / 15	30 / 15
Chargeless piping length	m	30	30	30	30	30
Amount of additional refrigerant	g/m	30	40	40	40	40

Specifications subject to change without notice
[illegible]

Rating conditions
[illegible]
[illegible]

PRICE			
Indoor unit price	Euro	500,00	600,00
Outdoor unit price	Euro	500,00	900,00
Set price	Euro	1.000,00	1.500,00

Option remote controller

SPW-TDR...GH56(B)

Easy installation even in existing buildings

SPW-CR...GVH56/H8B

- Twin rotary compressor dramatically reduces vibration and noise during operation
- DC-Inverter control
- Wide outdoor unit range: single-phase or three-phase
- All indoor units just 210mm high
- Large and wide air distribution
- Quick start up
- Most suitable for long and narrow space
- Newly developed DC fan motor for increased efficiency
- Cooling & Heating operation down to -15°C
- Industry low sound level
- Multi-functional wireless remote control with built-in temperature control
- Piping outlet in three directions
- Fresh air knockout for improved air quality

SPW-XDCR184GVH56 • SPW-XDCR254GVH56/H8 SPW-XDCR364GVH56/H8 • SPW-XDCR484GVH56/H8 SPW-XDCR604GVH56/H8

Power Range from 5.0 kW to 14.0 kW

Performance		size 184		size 254		size 364		size 484		size 604	
		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Power input	W	1497	1580	2130	2070	3120	2960	3860	3830	4610	4630
EER/COP	W/W	3.34	4.01	3.33	3.86	3.21	3.78	3.29	3.66	3.04	3.44
Energy class	-	A	A	A	A	A	A	-	-	-	-
Running amperes 1ph / 3ph	A	6.5	6.8	12.8/4.3	12.2/3.9	16.2/3.7	15.2/5.2	20.4/7.2	20.2/7.1	20.5/8.1	24.2/8.2
Annual energy consumption cooling	kWh	748.5	-	1065	-	1560	-	-	-	-	-

Indoor Unit		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Air circulation (H/M/L)	m³/h	960/840/780	1350/960/840	1680/1380/1260	1980/1500/1320	2040/1620/1380
Moisture removal	Liters/h	2.2	2.8	3.9	4.8	4.7
Sound Power Level (H)	dB-A	42	45	50	53	55
Sound Pressure Level (H/M/L)	dB-A	31/29/27	34/31/29	38/36/33	42/38/34	44/40/36
Dimensions (HxWxD) - Unit	mm	256x840x840	256x840x840	256x840x840	256x840x840	256x840x840
Dimensions (HxWxD) - Panel	mm	31	32	26	26	26
Net weight - Unit	kg	35x950x950	35x950x950	35x950x950	35x950x950	35x950x950
Net weight - Panel	kg	4.5	4.5	4.5	4.5	4.5
Power supply	V, ph, Hz	230, 1~N, 50				

Outdoor Unit		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
Sound Power Level (H)	dB-A	58	59	59	61	62	64	64	65	65	66
Sound Pressure Level (H/L)	dB-A	46/42	47/43	47/45	49/45	51/45	52/45	52/45	52/45	53/45	54/45
Dimensions (HxWxD)	mm	[illegible]		795x940x340		795x940x340		1350x940x340		1350x940x340	
Net weight	kg	40		68		61		100		100	
Power supply	V, ph, Hz	230, 1~N, 50		230, 1~N, 50 / 400, 3~N, 50							

Refrigerant circuit		size 184	size 254	size 364	size 484	size 604
Tube diameter Narrow/Wide	mm (in)	6.35 (1/4) / 12.7 (1/2)	9.52 (3/8) / 15.88 (5/8)	9.52 (3/8) / 15.88 (5/8)	9.52 (3/8) / 15.88 (5/8)	9.52 (3/8) / 15.88 (5/8)
Max piping length	m	40	50	50	50	50
Max elev. diff. O.U. above/below I.U.	m	30/15	30/15	30/15	30/15	30/15
Chargeless piping length	m	20	30	30	30	30
Amount of additional refrigerant	g/m	20	40	40	40	40

Specifications subject to change without notice
* Data not available at the time of publication

Rating conditions
[illegible]

PRICE			
Indoor unit price	Euro	300.00	900.00
Outdoor unit price	Euro	300.00	450.00
Set price	Euro	1,000.00	1,350.00

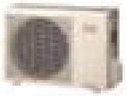
A Class R410A

Option remote controller

SPW-XDR...GH56(B)

Panel

PNR-XDS484GHA



SPW-CR...GVH56/H8B

Optimum air distribution and easy installation put together

- Twin-rotary compressor dramatically reduces vibration and noise during operation
- DC-inverter control
- Wide outdoor unit range: single-phase or three phase
- New compact design
- Reduced sound level
- Powerful drain pump gives 850mm lift
- Piping outlet in three directions
- Newly developed DC fan motor for increased efficiency
- Cooling & Heating operation down to -15°C
- Improved air-flow to prevent smudging effect
- Multi-functional wireless remote control with built-in temperature control
- Easy fine adjustment of the body suspension height
- Fresh air knockout for improved air quality

SPW-UCR184GVH56 • SPW-UCR254GVH56/H8
SPW-UCR364GVH56/H8 • SPW-UCR484GVH56/H8
SPW-UCR604GVH56/H8

Power Range from 5.0 kW to 14.0 kW

INVERTER HEAT PUMP		size 18A		size 25A		size 36A		size 48A		size 60A	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Power input	W	1843	1651	2490	2380	3330	3350	4340	4290	5060	4500
EER/COP	W/W	2.71	3.06	3.03	3.36	3.03	3.36	2.99	3.26	2.77	3.21
Energy class	-	B	B	C	C	C	C	-	-	-	-
Running amperes 1ph / 3ph	A	8.7	8.1	13.2 / 4.6	12.7 / 4.4	17.1 / 6.7	16.0 / 6.2	21.1 / 7.8	20.7 / 7.8	27.1 / 9.7	24.7 / 8.8
Annual energy consumption (cooling)	kWh	921.5	-	1245	-	1700	-	-	-	-	-

Indoor unit		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Air circulation (H/M/L)	m³/h	720/630/540	1080/900/780	1500/1350/1200	1980/1500/1320	2040/1620/1440
Moisture removal	L/h	3.8 -	5.5 -	4.2 -	6.6 -	9.6 -
Ext. static pressure std (booster)	Pa	40 (60)	50 (80)	75 (125)	75 (115)	75 (115)
Sound Power Level (H)	dB-A	50	54	58	60	65
Sound Pressure Level (H/M/L)	dB-A	30/28/25	34/30/27	36/33/31	40/37/33	45/40/38
Dimensions HxWxD	mm	310x700x630	310x1000x630	310x1400x630	310x1400x630	310x1400x630
Net weight	kg	25	32	47	47	47
Power supply	V, ph, Hz	230, 1~N, 50				

Outdoor unit		[illegible]		[illegible]		[illegible]		[illegible]		[illegible]	
Sound Power Level (H)	dB-A	56	59	59	61	63	64	64	63	65	66
Sound Pressure Level (H/L)	dB-A	46/43	47/43	47/45	49/45	51/40	53/46	52/45	53/45	53/45	54/45
Dimensions HxWxD	mm	[illegible]		795x940x340		795x940x340		1270x940x340		1270x940x340	
Net weight	kg	43		58		63		100		100	
Power supply	V, ph, Hz	230, 1~N, 50		230, 1~N, 50 / 400, 3~N, 50							

Refrigerant circuit		size 18	size 25	size 36	size 48	size 60
Tube diameter Narrow/Wide	mm(in)	6.35 (1/4) / 12.7 (1/2)	9.52 (3/8) / 15.88 (5/8)	9.52 (3/8) / 15.88 (5/8)	9.52 (3/8) / 15.88 (5/8)	9.52 (3/8) / 15.88 (5/8)
Max piping length	m	40	50	50	50	50
Max elev. diff. O.U. above/below I.U.	m	20 / 15	20 / 15	20 / 15	20 / 15	20 / 15
Chargeless piping length	m	30	20	30	30	30
Amount of additional refrigerant	g/m	25	40	40	40	40

Specifications subject to change without notice
* Data not available at the time of publication

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB; Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB; Outdoor air temperature 7°C DB / 6°C WB

PRICE			
Indoor unit price	Euro	500.00	900.00
Outdoor unit price	Euro	500.00	900.00
Set price	Euro	1,000.00	1,200.00

Option remote controller

SPW-UR...GH56(B)

Ideal solution for flexible and concealed air distribution to realise comfortable space

SPW-CR...GVH56/H8B

- Two-rotary compressor dramatically reduces vibration and noise during operation
- DC-Inverter control
- Wide outdoor unit range: single-phase or three-phase
- Extremely quiet operation from 25 dB-A
- High static pressure available
- Integrated drain pump gives 780mm lift
- Easy maintenance and serviceability by external installation of the electric box
- Standard 200mm spigots ensure simple connection to ductwork
- Cooling & Heating operation down to -15°C
- Air off sensor avoids cold air dumping
- Multi functional wireless remote control with built in temperature control
- Piping outlet in three direction
- Fresh air knockout for improved air quality

SPW-DC0705H8 • SPW-DC0905H8

Power Range from 20.0 kW to 25.0 kW

[illegible]		size 705		size 905	
Performance		Cooling	Heating	Cooling	Heating
Capacity	kW	20.0	22.4	25.0	28.0
Power input	W	7150	7270	10080	10170
EER/COP	W/W	2.80	3.08	2.48	2.75
Running amperes	A	14.6	13.2	21.1	21.3

Indoor Unit		SPW-D0705H	SPW-D0905H
Air circulation (H/M/L)	m³/h	3360/3180/2970	4320/4200/3960
Moisture removal	L/hour	6.6	13.2
External static pressure (f)	Pa	176	216
Sound Power Level (H)	dB-A	68	71
Sound Pressure Level (H/M/L)	dB-A	49/47/46	51/50/49
Dimensions HxWxD	mm	467x1428x1230	467x1428x1230
Net weight	kg	110	120
Power supply	V, ph, Hz	230, 1+N, 50	

[illegible]		SPW-C0705H8	SPW-C0905H8
Sound Power Level (H)	dB-A	66	67
Sound Pressure Level (H/L)	dB-A	54.5/49.5	55.0/50.5
Dimensions HxWxD	mm	1343x990x710x690	1343x990x710x690
Net weight	kg	275	275
Power supply	V, ph, Hz	400, 3+N, 50	

Refrigerant circuit		size 705	size 905
Tube diameter Narrow/Wide	mm(inch)	12.7 (1/2) / 25.4 (1)	12.7 (1/2) / 28.58 (1 1/8)
Max piping length	m	100	100
Max elev. diff. - O.U. above/below I.U.	m	50 / 30	50 / 30
Chargeless piping length	m	30	30
Amount of additional refrigerant	g/m	80	80

Specifications subject to change without notice

Rating conditions

Cooling: [illegible]

Heating: [illegible]

PRICE			
Indoor unit price	Euro	500,00	600,00
Outdoor unit price	Euro	500,00	600,00
Set price	Euro	1.000,00	1.200,00

R410A

Option remote controller

SPW-D...H

SPW-C...H8

Powerful and compact design for easier installation in any commercial space

- High static pressure available for optimum air distribution
- Low noise design
- R410A refrigerant
- Highly efficient scroll compressor
- Piping length up to 100mt
- Cooling & Heating operation down to -15°C
- Air off sensor avoids cold air dumping
- Multi-functional wireless remote control with built-in temperature control
- Piping outlet in three directions
- Fresh air knockout for improved air quality

COMBINATIONS

Outdoor Unit	Performance		Indoor Unit		
	Cooling	Heating	Twin	Triple	W-Twin
SPW-CR[illegible] - INVERTER MODEL	7.1	8.0	124 x2	-	-
SPW-CR[illegible] - INVERTER MODEL	10.0	11.2	184 x2	-	-
SPW-CR[illegible] - INVERTER MODEL	12.5	14.0	254 x2	154 x3	124 x4
SPW-CR[illegible] - INVERTER MODEL	14.0	16.0	-	184x3	-
SPW-C[illegible] - CONSTANT SPEED MODEL	20.0	22.4	364 x2	254 x3	184 x4
SPW-C[illegible] - CONSTANT SPEED MODEL	25.0	28.0	484 x2		

Indoor Unit		[illegible]	[illegible]	[illegible]	[illegible]
Air circulation (H/M/L)	m³/h	720/600/420	720/600/420	780/600/480	1140/960/720
Sound Power Level (H)	dB-A	46	46	49	52
Sound Pressure Level (H/M/L)	dB-A	35/31/27	35/31/27	38/34/30	41/37/34
Dimensions HxWxD	mm	295x895x253	295x895x253	295x895x253	330x1140x239
Net weight	kg	13	13	13	21

Indoor Unit		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Air circulation (H/M/L)	m³/h	750/660/540	720/600/540	750/660/540	1140/960/660	1620/1380/1200	1800/1560/1320
Sound Power Level (H)	dB-A	46	46	47	49	52	54
Sound Pressure Level (H/M/L) (Sub)	dB-A	35/33/30	35/33/30	36/33/30	38/35/33	41/38/35	43/40/37
Dimensions HxWxD	mm	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Net weight	kg	21	21	21	26	29	33

Indoor Unit		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Air circulation (H/M/L)	m³/h	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sound Power Level (H)	dB-A	42	42	42	45	50	53
Sound Pressure Level (H/M/L)	dB-A	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dimensions HxWxD - Unit	mm	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dimensions HxWxD - Panel	mm	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
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

Indoor Unit		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Air circulation (H/M/L)	m³/h	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
External static pressure std (boosted)	Pa	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Sound Power Level (H)	dB-A	49	50	50	54	58	60
Sound Pressure Level (H/M/L)	dB-A	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Dimensions HxWxD	mm	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Net weight	kg	24	25	25	38	47	47

Indoor Unit		[illegible]	[illegible]	[illegible]
Air circulation (H/M/L)	m³/h	[illegible]	[illegible]	[illegible]
Sound Power Level (H)	dB-A	[illegible]	[illegible]	[illegible]
Sound Pressure Level (H/M/L)	dB-A	[illegible]	[illegible]	[illegible]
Dimensions HxWxD - Unit	mm	[illegible]	[illegible]	[illegible]
Dimensions HxWxD - Panel	mm	[illegible]	[illegible]	[illegible]
Net weight - Unit	kg	18.5	18.5	18.5
Net weight - Panel	kg	2.5	2.5	2.5

Indoor Unit		[illegible]	[illegible]	[illegible]
Air circulation (H/M/L)	m³/h	[illegible]	[illegible]	[illegible]
Sound Power Level (H)	dB-A	[illegible]	[illegible]	[illegible]
Sound Pressure Level (H/M/L)	dB-A	[illegible]	[illegible]	[illegible]
Dimensions HxWxD - Unit	mm	[illegible]	[illegible]	[illegible]
Net weight - Unit	kg	23.5	23.5	23.5

Indoor Unit		[illegible]	[illegible]	[illegible]
Air circulation (H/M/L)	m³/h	[illegible]	[illegible]	[illegible]
External static pressure std (boosted)	Pa	[illegible]	[illegible]	[illegible]
Sound Power Level (H)	dB-A	54	54	54
Sound Pressure Level (H/M/L)	dB-A	[illegible]	[illegible]	[illegible]
Dimensions HxWxD - Unit	mm	[illegible]	[illegible]	[illegible]
Net weight - Unit	kg	30	30	30

Specifications subject to change without notice

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB
Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB
Outdoor air temperature 7°C DB / 6°C WB

Distribution joint kits (optional)
[illegible]
[illegible]

SPW-KR..GH56(B)

SPW-TDR..GH56(B)

SPW-XMR..EH56(B)

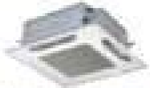
SPW-FTR..EH56(B)

SPW-UMR..EH56(B)

Wired with timer / Wireless / Simplified

RCS-TM80BG / (Refer to pre-vious page) / RCS-KR1AGB

Option remote controller



SPW-XDR..GH56(B)

SPW-UR..GH56(B)

Versatile and economical solution for air conditioning irregular-shaped areas

SPW-CR..GVH56/H8

- Up to 4 standard indoor units of different types and capacities can be operated simultaneously with a single outdoor unit
- Twin rotary compressor with DC-Inverter control (no 705 and 905 models)
- All indoor units can operate in a single mode
- Multi-functional wireless remote control with built-in temperature sensor
- Compact outdoor units ensure easy installation and space saving
- Low noise design

Light-commercial

Sanyo control equipment meets the needs of variety of customers

(for a description of the control systems refer to section VRF page 110)

Operation system	Individual control system			Timer operation
Needs	Normal operation	Operation from each seat	Quick and easy operation	Daily and weekly program
External appearance	New			
Type, model name	Timer wired remote control RCS-TM80BG	Wireless remote control RCS-SM80AG.W(.B) RCS-TM80AG.W(.B) RCS-RM80AG.W(.B) RCS-TRPM80AG.W(.B) RCS-SH10AG(B)	Simplified remote control RCS-KR1AG(B)	Schedule timer SHA-TM64AG(B)
N. of ou. units which can be controlled	1 group, 8 units	1 group, 8 units	1 group, 8 units	64 groups, max. 64 units
Limitation in use	• Up to 2 units can be connected per group	• Up to 2 units can be connected per group	• Up to 2 units can be connected per group	• Power supply from the system controller • In case of no system controller possibility of connection to the T10 terminal of an indoor unit
Connectable indoor unit	4 series indoor unit	4 series indoor unit	4 series indoor unit	3 series indoor unit 4 series indoor unit
Function: ON/OFF	○	○	○	--
Mode setting	○	○	○	--
Fan speed setting	○	○	○	--
Temperature setting	○	○	○	--
Air flow direction	○	○	○	--
Normal/Holiday switching	--	--	--	--
Weekly program	○	--	--	○

Operation system	Centralized control system			
Needs	Operation with different functions from centre station	Only ON/OFF operation from centre station	Simplified charge rate for each tenant: Touch screen panel	Simplified charge rate for each tenant: Personal computer (field supply)
Outer appearance				
Type, model name	System controller SHA-KC64AG(B)	ON/OFF controller SHA-KC16AG(B)	Intelligent controller SHA-KT256AG(B)	Communication adapter SHA-KA12DAG(B)
N. of ou. units which can be controlled	64 groups, max. 64 units	16 groups, max. 64 units	64 units × 4 systems, max. 256 units	2 systems, max. 128 units
Limitation in use	• Up to 10 units can be connected to one system • Main controll unit (1 main unit + 1 sub unit) connection is possible • Possibility of use • Use without remote controller is possible	• Up to 8 units (4 main units + 4 sub units) can be connected to one system • Impossibility of use • Use without remote controller is impossible	• 4 communication adapter (SHA-KA12DAG) required for three or more systems	
Connectable indoor unit	3 series indoor unit 4 series indoor unit	3 series indoor unit 4 series indoor unit	3 series indoor unit 4 series indoor unit	3 series indoor unit 4 series indoor unit
Function: ON/OFF	○	○	○	○
Mode setting	○	--	○	○
Fan speed setting	○	--	○	○
Temperature setting	○	--	○	○
Air flow direction	○*	--	○*	○*
Normal/Holiday switching	○	○	○	○
Weekly program	--	--	○	○

SANYO

SANYO Variable Refrigerant Flow systems
a powerful range perfect for shopping centres, hotels, offices and hospitals

Full range based on ozone-friendly R410A refrigerant ensure high performances to create a comfortable living space under different demands.
The ECO-i series is designed for energy saving, easy installation and high efficiency, using electrical supply as main power source.
The Sanyo GHP (gas engine driven heat pump) uses clean burning natural gas for high efficiency operation with very limited use of electrical power. Since it is designed to work combined with water piping, the Sanyo GHP offers a pratical and efficient way to renew an existing air-conditioning system.

INDEX OF PRODUCTS:

SPW-CR365GXH56/H8 • SPW-CR485GXH56/H8
SPW-CR605GXH56/H8

Power Range from 11.2 kW to 15.5kW

			A	B	C
Model name			SPW-CR365GXH56/H8	SPW-CR485GXH56/H8	SPW-CR605GXH56/H8
Power supply			230V 1 phase 50/60Hz	400V 3 phase 50/60Hz	
Capacity	Cooling	(kw)	11.2	14.0	15.5
		(BTU/h)	38,200	47,800	52,900
	Heating	(kw)	12.5	16.0	17.5
		(BTU/h)	42,700	54,600	59,700
E.E.R	Cooling	(W/W)	4.36	3.89	3.39
	Heating	(W/W)	4.34	4.10	3.84
Power input (W)	Cooling	Running amperes	(A)	8.3/7.7/7.3	11.1/10.6/10.4	15.2/14.7/13.8
		Power input	(kw)	3.78	3.82	4.57
	Heating	Running amperes	(A)	8.3/8.0/7.8	11.8/10.8/10.6	15.2/13.7/13.4
		Power input	(kw)	3.88	3.90	4.56
Dimensions (H*W*D)			(mm)	1,338*940*340		
Net weight			(kg)	104		
Air circulation			(m3/min)	120		
Quantity of refrigerant at shipment			(kg)	3.4		
Piping connections	Gas pipe		(mm)	Φ15.88		Φ19.05
	Liquid pipe		(mm)	Φ9.52		
Pressure sound	Normal mode		dB(A)	51.0	51.0	52.0
	Silent mode		dB(A)	48.0	48.0	48.0
Power sound	Normal mode		dB(A)	67.0	67.0	68.0
Colour (munsell colour chart)				Silky shell (7.5 Y 8.5/1.0)		

Specifications subject to change without notice

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

Refrigerant piping length					
Model No.			A3	A6	A8
Maximum number of connectable indoor units			3	6	8
Indoor/outdoor unit capacity ratio				50 - 130%	
Maximum actual piping length				100 m	
Maximum total piping length				250 m	
Maximum difference between indoor units				15 m	
Allowable elevation	When an outdoor unit is located higher than an ind.			30 m	
difference	When an outdoor unit is located lower than an ind.			30 m	

Distribution joint kit 3 way		
For indoor units	Model name	Cooling capacity after joint
	SPW-FR160AL	<22.4kW

SPW-CR...H56(B)/H8

- Top class COP= 4.06 (In case of 4HP cooling)
- DC Inverter Compressor and Fan
- 8 indoor units can be connected to 1 outdoor unit. (In case of 8HP)
- Wide model range: single-phase and three phase
- It is possible to perform cooling operation at outdoor temperatures down to -10°C
- Piping length is extended to 150m
- Indoor units are the same as those of ECO-i Series

R410A

SPW-C0705DXH8 • SPW-C0905DXH8 • SPW-C1155DXH8
SPW-C1305DXH8 • SPW-C1405DXH8

Power Range from 22.4 kW to 135 kW

Nrw

The ECO-i S-series is designed for energy savings, easy installation and high efficiency. Always keeping to evolving, Sanyo uses advanced technologies to meet the requirements of different situations and Aid in to the creation of comfortable living spaces.

- Top class COP=3.90 (in case of 8HP)
- Twin-rotary DC inverter compressor
- Wide range of product for narrower installation space
- DC fan motor
- New 14 & 16HP
- It is possible to perform cooling operation at outdoor temperature down to -10°C

R410A

V. R. F.

The advanced technology of ECO-i 2-WAY MULTI

Outdoor units have been unified to a body of the same size
Unification to one size and combination of five types. It allows a neat fit even when several units are installed and space savings in the top class of the industry have been realized.

Improved operation efficiency
In addition to the development of a new DC fan motor with high output and high efficiency, the output loss has been reduced by reducing the resistance of the fan guard. It contributes widely to COP increasing.

The constant-speed compressor adopts a high-performance inner high-pressure scroll
In comparison with the conventional low-pressure scroll, the oil behavior is stabilized, COP is improved and the reliability is also improved.

Improvement of the heat exchanger
Hairpins with a diameter of 7 mm are used for the heat exchanger and the radiation area has been increased. In addition, the air speed distribution has been improved by 4-direction suction and the COP has also been improved.

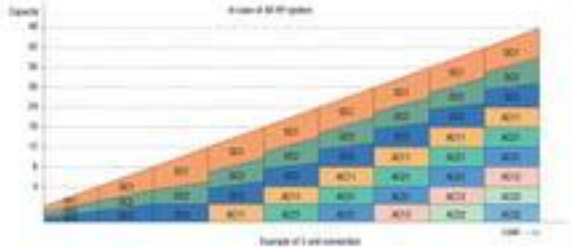
Review of the layout of the structural parts
Noise reduction has been realized by arranging the compressor in a special machine room at the bottom.

Close side-by-side installation is possible
The mounting fitting for the outdoor unit have been changed to front and back, so that the units can be installed side by side with just 100 mm between units and reduction of the installation space has been realized.

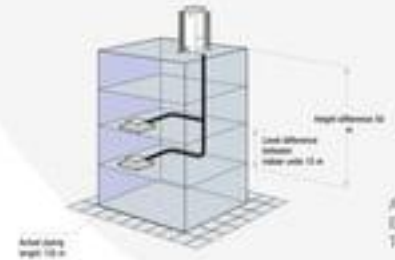
Smooth capacity control from 0.8 HP to 48 HP

By combination of a DC inverter compressor with a constant-speed compressor, the high harmonics generated by the DC inverter are suppressed to a minimum.
For all units of 8, 10, 12, 14 and 16 HP, a DC inverter and a constant-speed compressor both are installed. Correspondence to capacity control, difficult with a constant-speed compressor, is possible smoothly with a DC inverter. The performance difference at the time of start of a constant-speed compressor also is eliminated.

Comp. HP	Unit 1 (main)	Unit 2 (sub-1)	Unit 3 (sub-2)
DC comp.	4.0	4.0	4.0
AC1 comp.	8.0	8.0	8.0
AC2 comp.	8.0	8.0	8.0



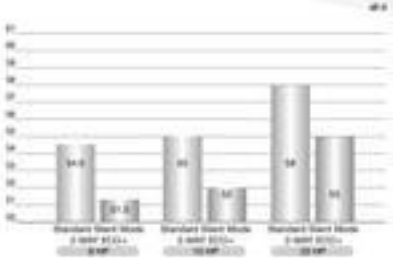
Correspondence to long piping in the top class of the industry



The reduction in the refrigerant volume by piping size down has extended the piping length to an actual length of 150 m and a total length of 300 m, the top class in the industry. The possible installation area for indoor and outdoor units has been widened and system deployment with a high degree of freedom has become possible.

Actual piping length 100 m → 150 m
Equivalent piping length 120 m → 175 m
Total piping length 150 m → 300 m

Low-operating sound design in the top class of the industry



Noise reduction has been realized by using of large-diameter plastic fans and low-loss plastic grilles.

- A silent function has been provided, making possible a further reduction of 3 dB (A).
- The outdoor fan speed can be saved only also switching to silent mode from the outdoor remote control unit.

*The rated capacity cannot be performed in silent mode.

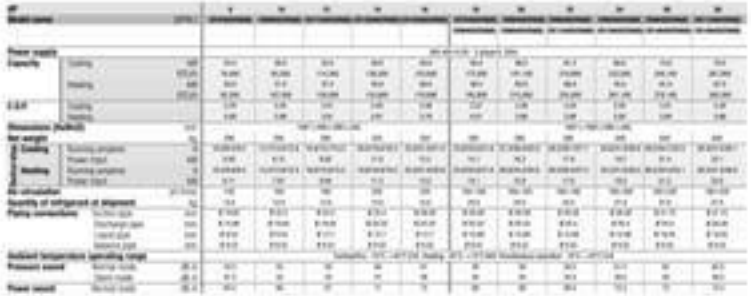
Increased max. number of connectable indoor units

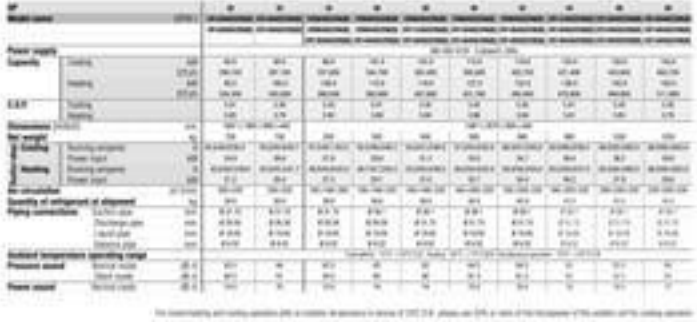
Most suitable for hotels or hospitals with many small rooms.

System HP	8	10	12	14	16	18	20	22	24 (48)
Connectable indoor units	13	16	19	23	26	29	33	36	39

SPW-CR704GDZH8 • SPW-CR904GDZH8 • SPW-CR1154GDZH8 SPW-CR1304GDZH8 • SPW-CR1404GDZH8

Power Range from 22.4 kW to 135 kW





Solenoid Valve Kit

ATK-RZP560G
ATK-RZP160BG

Solenoid Valve Controller

ACC-3WAY-A0

The ECO-i 3 Way Series have five DC inverter outdoor units from 8 HP to 16 HP as basic models and by combination of up to three units, an air-conditioning capacity of 8 HP to 48 HP can be set according to user requirements.

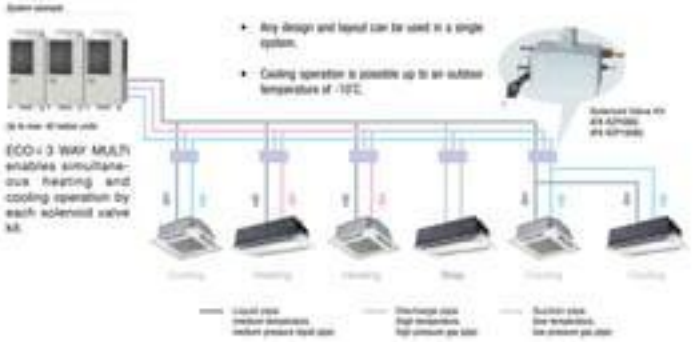
- Simultaneous cooling or heating operation for up to 40 indoor units
- Conform to COP3.94* as the top class in the industry
- Realization of the smallest installation space, top class in the industry
- Rotation operation function and back-up operation function provided

*Average cooling and heating value for 8 HP outdoor unit

R410A

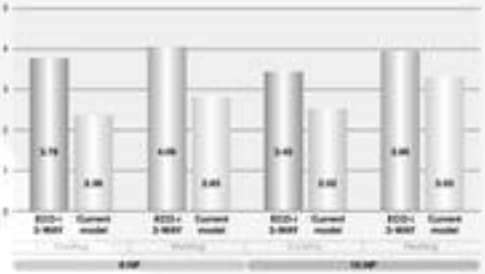
V. R. F.

Fully-automatic simultaneous Cooling/Heating operation and heat recovery



ECO-i 3 WAY MULTI enables simultaneous heating and cooling operation by each solenoid valve kit.

Excellent energy saving



The operation efficiency has been improved by using the highly efficient new refrigerant R410A and a DC inverter compressor as well as a new DC fan motor, improvement of the air speed distribution by changing the design of the heat exchanger from 3-direction suction to 4-direction suction and by using a low-loss wire guard for the fan guard.

The advanced technology of ECO-i 3-WAY MULTI

Outdoor units have been unified to a body of the same size

Unification to one size and combination of five types. It allows a neat fit even when several units are installed and space saving in the top class of the industry has been realized.

Improved operation efficiency

In addition to the development of a new DC fan motor with high output and high efficiency, the output loss has been reduced by reducing the resistance of the fan guard. It contributes widely to COP increasing.

The constant-speed compressor adopts a high-performance inner high-pressure scroll

In comparison with the conventional low-pressure scroll, the oil behavior is stabilized, COP is improved and the reliability is also improved.

Improvement of the heat exchanger

Wallpins with a diameter of 7 mm are used for the heat exchanger and the radiation area has been increased. In addition, the air speed distribution has been improved by 4-direction suction and the COP has also been improved.

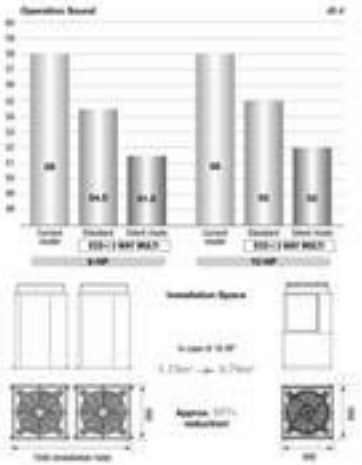
Review of the layout of the structural parts

Noise reduction has been realized by arranging the compressor in a special machine room at the bottom.

Close side-by-side installation is possible

The mounting fitting for the outdoor unit have been changed to front and back, so that the units can be installed side by side with just 100 mm between units and reduction of the installation space has been realized.

Smallest installation space in the industry! Further reduction of the operating sound



The five DC inverter types from 8 HP to 16 HP have been unified to the same outer dimensions by using a two-room construction with the compressor and other structural parts at the lower room of the outdoor unit and the heat exchanger at the upper room of the outdoor unit. In this way, the smallest installation space in the industry and low operating sound have been realized.

Gas Heat Pump 2 way

SGP-E70K1GU2 • SGP-E90K1GU2 • SGP-E120K1GU2W
SGP-E150K1GU2W • SGP-E190K1GU2W • SGP-E240K1GU2W

Power Range from 22.4 kW to 71 kW

SGP-E...GU2 SGP-E...GU2W

The Sanyo GHP uses HFC-type refrigerant and clean-burning natural gas for high-efficiency operation. Since it is designed to work with existing piping, the Sanyo GHP offers an easy way to machine that is economical to run and maintain.

- Prevent global warming (Lowers CO2 emission standard)
- Up to 40% reduction of nitrogen oxide (NOx) emission
- Reduced gas consumption
- Reduced Electric power consumption
- Outstanding durability for greater economical efficiency
- Outdoor unit has reduced noise and vibration

[illegible]

[illegible]

R410A

Gas Heat Pump 3 way

SGP-EZ190K1GU2

Power Range 56.0 kW

Solenoid Valve Kit

ATK-RZP56BG
ATK-RZP160BG

Solenoid Valve Controller

ACC-3WAY-AG

SGP-EZ190K1GU2

Sanyo 3-Way GHP is ideal for the following applications:

- Office buildings with different room temperatures due to the different amount of sunshine received
- Up to 28 indoor units connectable to one outdoor unit
- Buildings with computer/business equipment rooms requiring year-round cooling

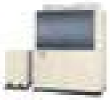
[illegible]

[illegible]

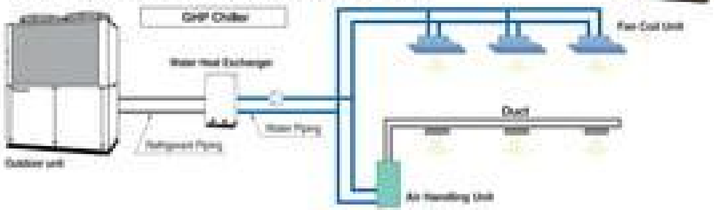
[illegible]

R410A

V.R.F.



GHP Chiller also available (9HP, 18HP)

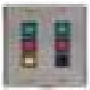


Meeting of a wide range of temperature needs for all kinds of industrial fields from air-conditioning to food processing to the replacement of existing boiler and other systems.

			GHP [illegible]	GHP [illegible]
Cooling capacity		kW	[illegible]	[illegible]
Heating capacity	Standard	kW	[illegible]	[illegible]
	Low temperature	kW	[illegible]	[illegible]

Operating condition	Cooling	Heating (standard)	Heating (low temperature)
[illegible]	[illegible]	[illegible]	[illegible]

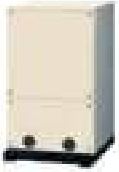
- **One-touch changeover between cooling and heating operation**
- **Can handle up to 120m of piping**
  The system can control up to 120m (actual length) of piping between the outdoor unit and the water heat exchanger, so choosing an installation location is easy.
- **Complies with "brine specifications"**
  The system uses antifreeze refrigerant coolant, so it can produce cold water even at -12°C.
- **Remote controller of GHP Chiller**
  (Option)
- **Reduced installation cost and circulating pump power**
  The water heat exchanger is a split type, which reduces installation costs and allows the use of a less powerful circulating pump.



RCS-WE17GJ

Water heat exchanger unit

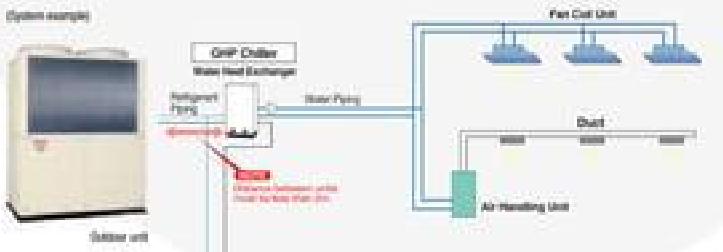
Model name			[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]



Operating condition	Cooling	Heating (standard)	Heating (low temperature)
[illegible]	[illegible]	[illegible]	[illegible]

- Combined with a water heat exchanger unit, the SANYO GHP can create a flexible system, the ideal replacement for existing chiller and boiler system.
- The GHP Multi System can have an indoor units plus a GHP chiller. When the two systems are operated independently, an outdoor unit with a 200% capacity can be connected.

(System example)



Connectable indoor units

E70K1GU2	16 units
E90K1GU2	22 units
E120K1GU2W	22 units
E150K1GU2W	26 units
E190K1GU2W	28 units
E240K1GU2W	30 units

Note: [illegible]

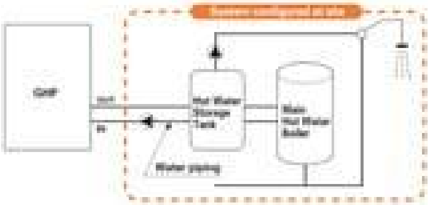
Hot Water Supply Function (During Outdoor temperature over 10°C)

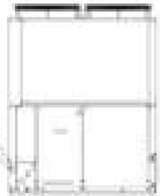
SGP-E120, 150, 190, 240 K1GU2W

System Advantage

The engine exceeding heat, which is normally wasted into the atmosphere, is recovered by means of the heat exchanger and effectively used as hot water, as the GHP Chiller acts as a sub system that minimizes the load on the customer main hot water system.

Water heating capacity	(produces 75°C hot water)
Hot water piping allowable pressure	0.7MPa
Hot water circulation rate	2.1 - 3.8 m³/h
Hot water pipe size	Rp3/4





SGP-E...K1GU2W

V.R.F.

SPW-XDR74GXH56 • SPW-XDR94GXH56 • SPW-XDR124GXH56 SPW-XDR164GXH56 • SPW-XDR184GXH56 • SPW-XDR254GXH56 SPW-XDR364GXH56 • SPW-XDR484GXH56 • SPW-XDR604GXH56

Power Range from 2.2 kW to 16.0 kW

RCS-TM80BG Transmitter common parts: RCS-KR1AGB

Option remote controller

Panel

PNR-XD484GHB

SPW-XDR...GXH56(B)

Air intake chamber

CMB-FS140AG + CMB-GS140AG (optional)

- Sirocco fans and heat exchanger fins with new shapes are adopted and the operating sound could be reduced by max 8 db (A)
- Wide reduction of the power consumption by adoption of newly developed DC fan motors with variable speed, new heat exchangers
- Easy fine adjustment of the body suspension height
- Discharge opening and flap with new shape
- Light, thin and attractive design with easy installation
- A drain height of approximately 85 cm from the ceiling surface
- Easy servicing of the drain pan

R410A

V. R. F.

Semi Concealed 4-way air discharge

SPW-XMR74EXH56 • SPW-XMR94EXH56 • SPW-XMR124EXH56
SPW-XMR164EXH56 • SPW-XMR184EXH56

Power Range from 2.2 kW to 5.6 kW

Option remote controller

SPW-XMR...EXH56(B)

Panel

PNR-XM184EHA

- New dimensions 60 x 60 cm suitable for European undercelling standards
- Three-speed centrifugal fan
- Anti-mould and anti-bacteria washable filters
- Low operating sound
- Night set back capability

MODEL NO. Indoor unit	SPW-XMR74EXH56(B)		SPW-XMR94EXH56(B)		SPW-XMR124EXH56(B)		SPW-XMR164EXH56(B)		SPW-XMR184EXH56(B)	
Performance	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity kW	2.20	2.50	2.80	3.20	3.60	4.00	4.70	5.20	5.60	6.30
Air circulation (high) m³/h	720/660/540		720/660/540		720/660/540		720/660/540		720/660/540	
Electrical Rating										
Phase, frequency	1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz	
Voltage rating (AVR) V	220-230-240		220-230-240		220-230-240		220-230-240		220-230-240	
Running amperes A	0.41		0.41		0.41		0.41		2.41	
Power input W	87		87		87		87		87	
Features										
Power sound level (SPW)-XM-A	54/51/48		54/51/48		54/51/48		55/51/48		55/51/48	
Pressure sound level (SPW)-XM-A	44/42/37		44/42/37		44/42/37		44/42/37		44/42/37	
Ref. Qty. Narrow/Wide Pipe ounces	6.35 (1/4) - 12.7 (1/2)		6.35 (1/4) - 12.7 (1/2)		6.35 (1/4) - 12.7 (1/2)		6.35 (1/4) - 12.7 (1/2)		9.35 (1/4) - 12.7 (1/2)	
Dimensions & Weight										
Indoor unit HxWxD mm	246 x 570 x 570									
Net weight Indoor unit kg	19.5						20			
Panel HxWxD mm	35 x 700 x 700									
Panel weight kg	2.5									

Specifications subject to change without notice

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

R410A

Semi Concealed 2-way air discharge

SPW-SR74GXH56 • SPW-SR94GXH56 • SPW-SR124GXH56
SPW-SR164GXH56 • SPW-SR184GXH56 • SPW-SR254GXH56

Power Range from 2.2 kW to 7.3 kW

Option remote controller

SPW-SR...GXH56(B)

Panel

PNR-S183GHANB
(for 7 kW and less)

PNR-S253GHANB
(for 10 kW and less)

- Realization of thin, compact and light units
- Silent design
- Realization of most suitable air flow for heating and cooling
- Excellent installation performance
- Adoption of a power up-drain pump
- Simple maintenance

MODEL NO. Indoor unit	SPW-SR74GXH56(B)		SPW-SR94GXH56(B)		SPW-SR124GXH56(B)		SPW-SR164GXH56(B)		SPW-SR184GXH56(B)		SPW-SR254GXH56(B)	
Performance	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity kW	2.20	2.50	2.80	3.20	3.60	4.00	4.70	5.20	5.60	6.30	7.30	8.00
Air circulation (high) m³/h	660		660		720		660		660		720	
Electrical Rating												
Phase, frequency	1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz	
Voltage rating (AVR) V	220-230-240		220-230-240		220-230-240		220-230-240		220-230-240		220-230-240	
Running amperes A	0.40	0.38	0.40	0.38	0.40	0.38	0.40	0.38	0.40	0.38	0.43	0.40
Power input W	85	80	85	80	85	80	85	80	85	80	145	138
Features												
Power sound level (SPW)-SR-A	49/46/42		49/46/42		50/47/42		50/46/42		50/46/42		55/46/42	
Pressure sound level (SPW)-SR-A	39/37/34		39/37/34		40/37/34		39/37/34		39/37/34		45/37/34	
Ref. Qty. Narrow/Wide Pipe ounces	6.35 (1/4) - 12.7 (1/2)		6.35 (1/4) - 12.7 (1/2)		6.35 (1/4) - 12.7 (1/2)		6.35 (1/4) - 12.7 (1/2)		6.35 (1/4) - 12.7 (1/2)		9.52 (3/8) - 15.88 (5/8)	
Dimensions & Weight												
Indoor unit HxWxD mm	200 x 840 x 620		200 x 840 x 620		200 x 840 x 620		200 x 840 x 620		200 x 840 x 620		200 x 1140 x 620	
Net weight Indoor unit kg	23		25		25		25		25		34	
Panel HxWxD mm	30 x 1000 x 680		30 x 1000 x 680		30 x 1000 x 680		30 x 1000 x 680		30 x 1000 x 680		30 x 1400 x 680	
Panel weight kg	5		5		5		5		5		8	

Specifications subject to change without notice

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

R410A

Semi Concealed 1-way air discharge

SPW-ADR74GXH56 • SPW-ADR94GXH56 • SPW-ADR124GXH56

Power Range from 2.2 kW to 3.6 kW

Option remote controller

SPW-ADR...GXH56(B)

Panel

PNR-AD124GHB

- New development concept: low Sound, Light Weight and Compact
- Ideal for hotel and hospital applications
- Drain pump features 850mm height
- Ultra-light design: only 17kg for class 9 and class 12
- Automatic flap movement ensures optimum air distribution and ceiling protection
- Long life filter included
- Three-speed centrifugal fan by wired or wireless remote controller

Model(s) (R)	Indoor unit	SPW-ADR74GXH56(B)		SPW-ADR94GXH56(B)		SPW-ADR124GXH56(B)	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	2.24	2.24	2.80	3.20	3.60	4.00
Air circulation	High / H						
Electrical Rating							
Phase, frequency		1 phase/6, 50Hz		1 phase/6, 50Hz		1 phase/6, 50Hz	
Voltage rating (415)	V	220-230-240		220-230-240		220-230-240	
Running amperes	A						
Power input	W						
Features							
Power sound level	(H/M/L) dB(A)	44/42/40		44/42/40		47/45/43	
Pressure sound level	(H/M/L) dB(A)	33/31/29		33/31/29		36/34/31	
Ref. dia. flare/reflex (Pipe	inch(es)	6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)	
Dimensions & Weight							
Indoor unit H/W/D	mm	305 x 840 x 360		305 x 840 x 360		305 x 840 x 360	
Net weight Indoor Unit	kg	17		17		17	
Panel W/H/D	mm	30 x 780 x 600		30 x 780 x 600		30 x 780 x 600	
Panel weight	kg	3.5		3.5		3.5	

Specifications subject to change without notice.

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

R410A

Semi Concealed Slim 1-way air discharge

SPW-LDR94GXH56 • SPW-LDR124GXH56 SPW-LDR164GXH56 • SPW-LDR184GXH56 SPW-LDR254GXH56

Power Range from 2.2 kW to 7.3 kW

Option remote controller

SPW-LDR...GXH56(B)

Panel

PNR-LD254GHB

- Industry high capacity to handle ceiling heights up to 4.2m
- Lightweight, compact and quiet
- 3 types of air-blow (down, down+front, front) only
- Smudge-free operation
- The hanging height of the unit can be easily adjusted
- Automatic flap movement ensures optimum air distribution
- Drain pump features 850 mm height
- Three-speed centrifugal fan by wired or wireless remote controller

Model(s) (R)	Indoor unit	SPW-LDR94GXH56(B)		SPW-LDR124GXH56(B)		SPW-LDR164GXH56(B)		SPW-LDR184GXH56(B)		SPW-LDR254GXH56(B)	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	2.80	3.20	3.60	4.00	4.5	5.0	5.6	6.3	7.1	8.0
Air circulation	High / H	720/660/540		720/660/540		780/660/540		780/660/540		1080/960/780	
Electrical Rating											
Phase, frequency		1 phase/6, 50Hz		1 phase/6, 50Hz		1 phase/6, 50Hz		1 phase/6, 50Hz		1 phase/6, 50Hz	
Voltage rating (415)	V	220-230-240		220-230-240		220-230-240		220-230-240		220-230-240	
Running amperes	A	0.5	0.57	0.5	0.57	0.5	0.57	1.02	0.98	0.93	0.91
Power input	W	110	90	110	90	110	90	210	190	200	180
Features											
Power sound level	(H/M/L) dB(A)	47/45/43		47/45/43		47/45/43		48/46/44		48/47	
Pressure sound level	(H/M/L) dB(A)	36/34/33		36/34/33		36/34/34		38/36/34		43/42/38	
Ref. dia. flare/reflex (Pipe	inch(es)	6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		9.52 (3/8) / 15.88 (5/8)	
Dimensions & Weight											
Indoor unit H/W/D	mm	250x1050x710		250x1050x710		250x1050x710		250x1050x710		250x1050x710	
Net weight Indoor Unit	kg	31		31		31		31		33	
Panel W/H/D	mm	35x1240x650		35x1240x650		35x1240x650		35x1240x650		35x1240x650	
Panel weight	kg	5.5		5.5		5.5		5.5		5.5	

Specifications subject to change without notice.

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

R410A

SPW-UR74GXH56 • SPW-UR94GXH56 • SPW-UR124GXH56
SPW-UR164GXH56 • SPW-UR184GXH56 • SPW-UR254GXH56
SPW-UR364GXH56 • SPW-UR484GXH56

Power Range from 2.2 kW to 14.0 kW

MODEL NO. Indoor unit												
Performance												
Capacity	kW											
Air circulation	(High) m³/h											
External static pressure	(High) Pa											
External static pressure with booster cable	Pa											
Electrical Rating												
Phase, frequency												
Voltage rating (AVR)	V											
Running amperes	A											
Power input	W											
Features												
Power sound level	(SPL), dB-A											
Pressure sound level	(SPL), dB-A											
Pipe dia. Narrow/Wide Pipe	mm(in)											
Dimension & Weight												
Indoor Unit H/W/D	mm											
Net weight: Indoor Unit	kg											

Specifications subject to change without notice.

MODEL NO. Indoor unit												
Performance												
Capacity	kW											
Air circulation	(High) m³/h											
Outer static pressure (High) Pa												
Outer static pressure with booster cable	Pa											
Electrical Rating												
Phase, frequency												
Voltage rating (AVR)	V											
Running amperes	A											
Power input	W											
Features												
Power sound level	(SPL), dB-A											
Pressure sound level	(SPL), dB-A											
Pipe dia. Narrow/Wide Pipe	mm(in)											
Dimension & Weight												
Indoor Unit H/W/D	mm											
Net weight: Indoor Unit	kg											

Specifications subject to change without notice.

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB. Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB. Outdoor air temperature 7°C DB / 6°C WB

Option remote controller

SPW-UR...GXH56(B)

- Realized comfortable ambient by dispersed arrangement of discharge ports
- The static pressure outside the unit can be increased using a booster cable
- Discharge duck adapter flange included (2 a 200 for sizes 74-184, 3 a 200 for size 254, 4 a 200 for sizes 364, 484)
- Drain pump with increased power
- Easy maintenance by outer installation of eletric equipment box
- Unified body height of approximately 31 cm for all models

R410A

V. R. F.

SPW-FUR74EXH56 • SPW-FUR94EXH56 • SPW-FUR124EXH56 SPW-FUR164EXH56 • SPW-FUR184EXH56 • SPW-FUR224EXH56

Power Range from 2.2 kW to 6.4 kW

Option remote controller

SPW-FUR...EXH56(B)

- Ultra-slim profile: 195 mm for all models
- Suitable for horizontal and vertical installation
- Ideal for hotel application with very thin false-ceiling
- Extremely silent: 26 dB-A at low speed (Class 7,9,12)
- Anti-mould washable filters included
- Easy maintenance and service by air suction port
- Three-speed centrifugal fan by wired or wireless remote controller

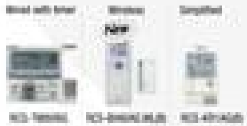
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Rating conditions
[illegible]

R410A

SPW-UMR74EXH56 • SPW-UMR94EXH56 • SPW-UMR124EXH56 SPW-UMR164EXH56 • SPW-UMR184EXH56 • SPW-UMR224EXH56

Power Range from 2.2 kW to 6.4 kW



Option remote controller

SPW-UMR...EXH56(B)

- Integrated pump for condensate discharge
- Fresh air intake
- Reduced dimensions
- Anti-mould and anti-bacteria washable filters
- Three-speed centrifugal fan by remote control and feature to increase speed/pressure, using the booster cable
- Night set back capability

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Rating conditions
[illegible]

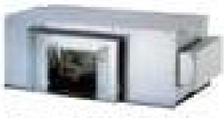
R410A

Concealed duct High Static Pressure

SPW-DR254GXH56 • SPW-DR364GXH56 • SPW-DR484GXH56 SPW-DR764GXH56 • SPW-DR964GXH56

Power Range from 7.3 kW to 28.0 kW

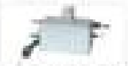
Option remote controller



SPW-DR254GXH56(B)
SPW-DR364GXH56(B)
SPW-DR484GXH56(B)

SPW-DR764GXH56(B)
SPW-DR964GXH56(B)

Flap Valve Kit



ATK-RX160AG(B)

- High static pressure, low noise design
- Flap valve kits required for sizes 76 and 96
- Ideal indoor unit blending with interior decoration

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

Ceiling mounted

SPW-TDR124GXH56 • SPW-TDR164GXH56 • SPW-TDR184GXH56 SPW-TDR254GXH56 • SPW-TDR364GXH56 • SPW-TDR484GXH56

Power Range from 3.6 kW to 14.0 kW

Option remote controller

SPW-TDR...GXH56(B)

- Newly developed DC fan motor with variable speed
- Weight reduction for all models
- New design with lower operating sound
- Realization of the most suitable air flow for heating and for cooling
- Further comfort improvement
- Most suitable for long and narrow spaces
- Low operating sound in top class of the industry
- Easy installation even in exisiting buildings

[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]

[illegible]

R410A

R410A

SPW-KR74GXH56 • SPW-KR94GXH56 • SPW-KR124GXH56
SPW-KR164GXH56 • SPW-KR184GXH56 • SPW-KR254GXH56

Power Range from 2.2 kW to 7.3 kW

Option remote controller

SPW-KR...GXH56(B)

- Closed air discharge ports, when operation is stopped the flap closes completely to prevent the entry of dust and to keep the unit clean
- Lighter and small units make the installation easy
- Silent design
- Smart colour and round-shape design with horizontal stripes
- Piping outlet in three directions
- Anti-mould filters are standard equipment
- Washable front panel
- Optional external electronic expansion valve kit ADK-SUPK160AGB prevent noise in total rooms and bed rooms

SPW-FTR74EXH56 • SPW-FTR94EXH56 • SPW-FTR124EXH56
SPW-FTR164EXH56 • SPW-FTR184EXH56 • SPW-FTR224EXH56

Power Range from 2.2 kW to 6.1 kW

Option remote controller

SPW-FTR...EXH56(B)

- Three-speed centrifugal fan
- Anti-mould and anti-bacteria washable filters
- Low operating sound
- Night set back capability
- Infrared remote control with 24h digital timer and full features control and horizontal flap swinging or set on a fixed position

MODEL NO. Indoor unit	SPW-KR74GXH56(B)		SPW-KR94GXH56(B)		SPW-KR124GXH56(B)		SPW-KR164GXH56(B)		SPW-KR184GXH56(B)		SPW-KR254GXH56(B)	
Performance	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	2.20	2.50	2.80	3.20	3.40	4.20	4.80	5.4	5.60	6.40	7.30	8.4
Air circulation (m³/h)	600		660		660		720		720		960	
Electrical Rating												
Phase, frequency	1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz	
Voltage rating (AVR) (V)	220-230-240V		220-230-240V		220-230-240V		220-230-240V		220-230-240V		220-230-240V	
Running amperes (A)	0.15	0.13	0.15	0.13	0.15	0.13	0.15	0.13	0.15	0.13	0.23	0.21
Power input (W)	33	30	33	30	33	30	33	30	33	30	51	47
Features												
Power sound level (SWL), dB-A	67 (H) 57 (M) 52 (L)		67 (H) 57 (M) 52 (L)		67 (H) 57 (M) 52 (L)		67 (H) 57 (M) 52 (L)		67 (H) 57 (M) 52 (L)		52 (H) 46 (M) 42 (L)	
Pressure sound level (SPL), dB-A	36 (H) 26 (M) 22 (L)		36 (H) 26 (M) 22 (L)		36 (H) 26 (M) 22 (L)		36 (H) 26 (M) 22 (L)		36 (H) 26 (M) 22 (L)		42 (H) 36 (M) 32 (L)	
Pipe dia. Narrow/Wide Pipe (mm)	6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 15.88 (5/8)	
Dimensions & Weight												
Indoor unit W/H/D (mm)	780 × 295 × 210		780 × 295 × 210		780 × 295 × 210		960 × 295 × 210		960 × 295 × 210		960 × 1140 × 220	
Net weight: Indoor unit (kg)	10		10		10		14		14		21	

Specifications subject to change without notice.

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

R410A

MODEL NO. Indoor unit	SPW-FTR74EXH56		SPW-FTR94EXH56(B)		SPW-FTR124EXH56(B)		SPW-FTR164EXH56(B)		SPW-FTR184EXH56(B)		SPW-FTR224EXH56(B)	
Performance	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity (kW)	2.20	2.50	2.80	3.20	3.40	4.20	4.70	5.20	5.60	6.20	6.10	7.0
Air circulation (m³/h)	420/360/300		420/360/300		420/360/300		720/600/480		720/600/480		720/600/480	
Electrical Rating												
Phase, frequency	1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz	
Voltage rating (AVR) (V)	220-230-240V		220-230-240V		220-230-240V		220-230-240V		220-230-240V		220-230-240V	
Running amperes (A)	0.14		0.14		0.14		0.23		0.23		0.27	
Power input (W)	30		30		30		50		50		58	
Features												
Power sound level (SWL), dB-A	62 (H) 54 (M) 46 (L)		62 (H) 54 (M) 46 (L)		62 (H) 54 (M) 46 (L)		62 (H) 54 (M) 46 (L)		62 (H) 54 (M) 46 (L)		62 (H) 54 (M) 46 (L)	
Pressure sound level (SPL), dB-A	42 (H) 34 (M) 26 (L)		42 (H) 34 (M) 26 (L)		42 (H) 34 (M) 26 (L)		42 (H) 34 (M) 26 (L)		42 (H) 34 (M) 26 (L)		42 (H) 34 (M) 26 (L)	
Pipe dia. Narrow/Wide Pipe (mm)	6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 15.88 (5/8)	
Dimensions & Weight												
Indoor unit W/H/D (mm)	960 × 640 × 190											
Net weight: Indoor unit (kg)	23.0											

Specifications subject to change without notice.

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

R410A

SPW-FMR74GXH56 • SPW-FMR94GXH56 • SPW-FMR124GXH56
SPW-FMR164GXH56 • SPW-FMR184GXH56 • SPW-FMR254GXH56

Power Range from 2.2 kW to 7.1kW

Option remote controller

SPW-FMR...GXH56(B)

- Realization of perimeter air conditioning with high interior quality
- Large window space can be taken
- Effective perimeter handling is possible with simple work execution
- Easy installation

MODEL NO. Indoor unit													
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	2.20	2.50	2.80	3.20	3.60	4.00	4.50	5.00	5.60	6.30	7.10	8.0
Air circulation	High m³/h	420		420		540		720		960		1020	
Electrical Rating													
Phase, frequency		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz	
Voltage rating (AVR)	V	220-230-240		220-230-240		220-230-240		220-230-240		220-230-240		220-230-240	
Running amperes	A	0.23	0.19	0.25	0.19	0.36	0.31	0.36	0.41	0.36	0.41	0.72	0.54
Power input	W	50	40	54	40	80	70	80	91	128	91	160	120
Features													
Power sound level	SWL dB A	44/41/38		44/41/38		52/49/46		49/46/43		49/46/43		52/51/46	
Pressure sound level	SWL dB A	33/30/26		33/30/26		39/37/33		36/33/31		33/30/31		41/38/33	
Ref. pip. Narrow/Wide Pipe	ømm/in	6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 15.88 (5/8)	
Dimensions & Weight													
Indoor unit H×W×D	mm	610 x 664 x 220		610 x 664 x 220		610 x 960 x 220		610 x 1214 x 220		610 x 1214 x 220		610 x 1214 x 220	
Net weight, Indoor Unit	kg	21		21		31		38		38		38	

Specifications subject to change without notice

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

R410A

SPW-FR74GXH56 • SPW-FR94GXH56 • SPW-FR124GXH56
SPW-FR164GXH56 • SPW-FR184GXH56 • SPW-FR254GXH56

Power Range from 2.2 kW to 7.1 kW

Option remote controller

SPW-FR...GXH56(B)

- Realization of perimeter air conditioning with high interior quality
- Effective perimeter handling is possible with simple work execution
- Large window space can be taken
- Easy installation
- The wired remote controller can be easily installed in the body

MODEL NO. Indoor unit													
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating	Cooling	Heating
Capacity	kW	2.20	2.50	2.80	3.20	3.60	4.00	4.50	5.00	5.60	6.30	7.10	8.0
Air circulation	High m³/h	420		420		540		720		960		1020	
Electrical Rating													
Phase, frequency		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz		1 phase/N, 50Hz	
Voltage rating (AVR)	V	220-230-240		220-230-240		220-230-240		220-230-240		220-230-240		220-230-240	
Running amperes	A	0.25	0.19	0.25	0.19	0.36	0.31	0.36	0.41	0.36	0.41	0.72	0.54
Power input	W	56	40	54	40	80	70	80	91	128	91	160	120
Features													
Power sound level	SWL dB A	44/41/38		44/41/38		52/49/46		49/46/43		49/46/43		52/51/46	
Pressure sound level	SWL dB A	33/30/26		33/30/26		39/37/33		36/33/31		33/30/31		41/38/33	
Ref. pip. Narrow/Wide Pipe	ømm/in	6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 12.7 (1/2)		6.35 (1/4) / 15.88 (5/8)	
Dimensions & Weight													
Indoor unit H×W×D	mm	610 x 1060 x 236		610 x 1060 x 236		670 x 1060 x 236		670 x 1260 x 236		670 x 1260 x 236		610 x 1260 x 236	
Net weight, Indoor Unit	kg	29		29		39		39		39		39	

Specifications subject to change without notice

Rating conditions
Cooling: Indoor air temperature 27°C DB/19°C WB, Outdoor air temperature 35°C DB / 24°C WB
Heating: Indoor air temperature 20°C DB, Outdoor air temperature 7°C DB / 6°C WB

R410A

SPW-GU055XH • SPW-GU075XH • SPW-GU105XH

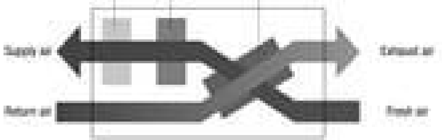
Power Range from 500 m³/h to 1000 m³/h

[illegible]		[illegible]		[illegible]		[illegible]	
Performance		Cooling	Heating	Cooling	Heating	Cooling	Heating
Air circulation	m³/h	500		750		1 000	
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	%	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	%	[illegible]		[illegible]		[illegible]	
[illegible]	Pa	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	Pa	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	dB	*	*	*	*	*	*
[illegible]	dB	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	mm	[illegible]		[illegible]		[illegible]	
[illegible]	kg	[illegible]		[illegible]		[illegible]	
[illegible]	mm	[illegible]		[illegible]		[illegible]	
[illegible]	[illegible]	[illegible]		[illegible]		[illegible]	
[illegible]	A	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
Power supply	[illegible]			[illegible]			

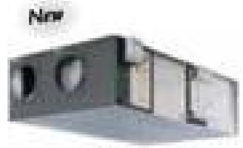
[illegible]

[illegible]				
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

[illegible]



Option remote controller



SPW-GU...XH

A powerful fresh air incoming to match the right temperature and humidity indoor condition in medium-sized commercial space

- Integration of heat recovery ventilation and DX coil technology for optimum air temperature control
- The DX coil can be connected to all ECO&GHP outdoor units
- High efficiency on both temperature and humidity condition
- Compact and quiet design
- High static pressure available
- Standard spigots ensure simple connection to ductwork
- Easy-to-clean filter prevent mould or bacteria from occouring
- Connectable to current ECO&GHP control systems
- Easy maintenance and service by out installation of the electric box
- Humidifier function available as option

Sanyo control equipment meets the needs of variety of customers

Operation system	Individual control system			Timer operation
Mode	Normal operation	Operation from each seat	Quick and easy operation	Daily and weekly program
External appearance	New 			
Type, model name	Timer wired remote control **RCS-TM80BG**	Wireless remote control **RCS-SH80AG-M,(E)** **RCS-TH80AG-M,(E)** **RCS-SH80AG-M,(E)** **RCS-TH(P)80AG-M,(E)** **RCS-SH1AG(E)**	Simplified remote control **RCS-RT1AG(E)**	Schedule timer **SHA-TM64AG(E)**
No. of AC units which can be controlled	1 group, 8 units	1 group, 8 units	1 group, 8 units	64 groups, max. 64 units
Limitation in use	• Up to 2 units can be connected per group	• Up to 2 units can be connected per group	• Up to 2 units can be connected per group	• Power supply from the system controller • In case of no system controller possibility of connection to the T10 terminal of an indoor unit
Connectable indoor unit	4 series indoor unit	4 series indoor unit	4 series indoor unit	3 series indoor unit 4 series indoor unit

Function					
ON/OFF	○	○	○	--
Mode setting	○	○	○	--
Fan speed setting	○	○	○	--
Temperature setting	○	○	○	--
Air flow direction	○	○	○	--
Normal/Timed switching	--	--	--	--
Weekly program	○	--	--	○

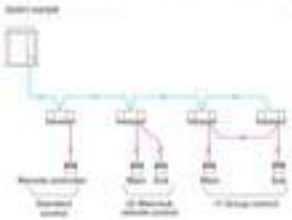
* Selection of the following: "fan speed", "air flow direction", "louver/individual", and "filter sign"

Operation system	Centralized control system			
Mode	Operation with different functions from centre station	Only ON/OFF operation from centre station	Simplified charge calls for each tenant: Touch screen panel	Simplified charge calls for each tenant: Personal computer (field supply)
External appearance				
Type, model name	System controller **SHA-KC64AG(E)**	ON/OFF controller **SHA-KC16AG(E)**	Intelligent controller **SHA-KT256AG(E)**	Communication adapter **SHA-KA12AG(E)**
No. of AC units which can be controlled	64 groups, max. 64 units	16 groups, max. 64 units	64 units x 4 systems, max. 256 units	2 systems, max. 128 units
Use limitation	• Up to 10 units can be connected to one system • Main unit/sub unit (1 main unit + 1 sub unit) connection is possible • Use without remote controller is possible	• Up to 8 units (A main units + a sub units) can be connected to one system • Use without remote controller is impossible	• A communication adapter (SHA-AA1 (5AG) must be installed for three or more system	
Connectable indoor unit	3 series indoor unit 4 series indoor unit	3 series indoor unit 4 series indoor unit	3 series indoor unit 4 series indoor unit	3 series indoor unit 4 series indoor unit

Function					
ON/OFF	○	○	○	○
Mode setting	○	--	○	○
Fan speed setting	○	--	○	○
Temperature setting	○	--	○	○
Air flow direction	○*	--	○*	○*
Normal/Timed switching	○	○	○	○
Weekly program	--	--	○	○

* Setting is only possible when a remote control unit is present. Use the remote control for setting.

Remote controller (Wired remote controller/Wireless remote controller)



Control contents	Part name, model No.	Quantity
Standard control • Control of the various operations of the indoor unit by wired or wireless remote controller • Cooling or heating mode of the outdoor unit is decided by first-pressed priority at the remote controller • Switching between remote controller sensor and body sensor is possible	• Wired remote controller **RCS-SH80AG(B)** • Wireless remote controller **RCS-SH80AG2-WL(B)** **RCS-TH80AG-WL(B)** **RCS-B16DAG-WL(B)** **RCS-TSPB16AG-WL(B)** **RCS-SH14AG(B)**	1 unit each
(1) Group control • Batch remote control of all indoor units • Operation of all indoor units in the same mode • Up to 8 units can be connected • The sensor is the body sensor and thermostat ON/OFF setting in regard to the temperature set by the remote controller is possible for each indoor unit	• Wired remote controller **RCS-B08DAG(B)**	1 unit
(2) Main/sub remote control • Max. 2 remote controllers per indoor unit. (Main remote controller and sub remote controller can be connected) • The button pressed last has priority • Timer setting is possible even with the sub remote controller	Main or sub • Wired remote controller **RCS-SH80AG(B)** • Wireless remote controller **RCS-SH80AG-WL(B)** **RCS-TH80AG-WL(B)** **RCS-B16DAG-WL(B)** **RCS-TSPB16AG-WL(B)** **RCS-SH14AG(B)**	As required

Timer remote controller RCS-TM80BG

New

- **Basic remote controller ON/OFF**
  - Operation mode changeover (Cooling, Heating, Dry, Auto, Fan)
  - Temperature setting (Cooling/Dry: 19.-30 deg Heating: 16.30 deg)
  - Air volume adjustment (HH, H, L, Auto)
  - Air flow direction adjustment
- **Time Function**
  - 24-hour real time clock
  - Day of the week indicator
- **Weekly Program Function**
  - A maximum of 6 actions can be programmed per day
- **Outing Function**
  - This function can prevent the room temperature from dropping or rising when the occupants are out for a long time
- **Sleeping Function**
  - This function controls the room temperature for comfortable sleeping
- **Max. 8 indoor units can be controlled from one remote controller**
- **Remote control by main remote controller and sub controller is possible**
  - Max. 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit

Wireless remote controller

8 type
RCS-SH80AG-WL(B)

7 type
RCS-TSPB80WG-WL(B)

4 type
RCS-SH14AG(B)

5, 5L type
RCS-TH80AG-WL(B)

For all indoor units
RCS-B16DAG-WL(B)

- **Ventilation independent operation is possible**
  - When commercial ventilation fans or heat exchange ventilation fans have been installed, they can be operated with this remote control (interlocked operation with the indoor unit or independent ventilation ON/OFF)
- **Easy installation for the 4-way cassette type simply by replacing the corner part**
- **Timer setting is up to 72 hours (in easy 30 minutes)**
- **Remote control by main remote controller and sub controller is possible**
  - Max. 2 remote controllers (main remote controller and sub controller) can be installed for one indoor unit
  - *Do not perform group control for 2 Series Indoor unit and 3 Series indoor unit together.*
- **When RCS-B16DAG-WL is used, wireless control becomes possible for all indoor units**
  - When a separate receiver is set up in a different room, control from that room also becomes possible
  - Automatic operation by means of the emergency operation button is possible even when the remote controller has been lost or the batteries have been exhausted
- **In addition, there are other functions like temperature setting, operation switching, wind direction/fan speed setting, and so on**

Dimensions in mm
(2.9 in.) 77.48 x 141.2

Simplified remote controller RCS-KR1AG(B)

- **A remote controller with simple functions and basic operation**
  - Suitable for open rooms or hotels where detailed functions are not required
  - ON/OFF, operation mode switching, temperature setting, wind speed switching, wind direction setting, alarm display and remote controller self-diagnosis can be performed
  - Batch group control for up to 8 indoor units
  - Remote control by main remote controller and sub-controller is possible with a simplified remote controller or a wired remote controller (up to two units)

Schedule timer SHA-TM64AG(B)

Dimensions in mm
(3.9 in.) 97.48 x 141.2

- *No operation mode and temperature settings are not possible with the schedule timer. It must be used together with a remote controller, a system controller, an intelligent controller, etc., being not provided with as it does not have an address setting function. For control function of a system controller and so on must be used for address setting and so on.*
- **Up to 64 groups (max. 64 indoor units) can be controlled divided into 8 timer groups**
- **Six program operations (Operation/Stop/Local permission/Local prohibition) per day can be set in a program for one week**
  - Only operation or stops, remote controller local permission or remote controller local prohibition and their respective combinations are possible (Operation + local permission, stop + local prohibition, only local permission, etc.)
  - Local prohibition and the combination of the three items of temperature setting, mode change and operation/stop can be set at the time of installation
- **A function for pausing the timer in case of national holidays has been added and timer operation also can be stopped for a long time**
  - By setting holidays or operation stop within one week, the timer can be paused only during that week
  - All timer settings can be stopped with the timer "ON/OFF effective" button (Return to timer operation is made by pressing the button again)

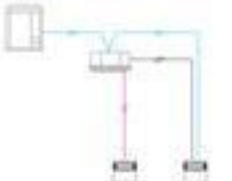
*The power supply for the schedule timer is taken from one of the following.

1 Control circuit board (T1U) of a nearby indoor unit (Power supply wiring length: Within 200 m from the indoor unit)

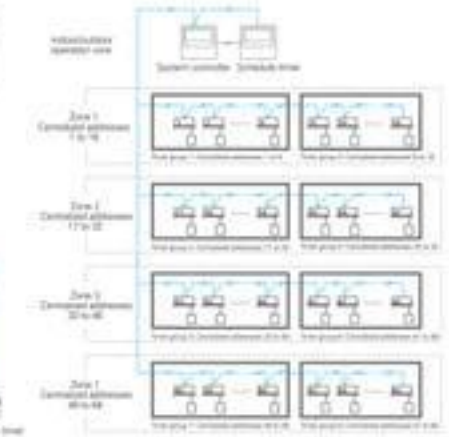
2 System controller, (power supply wiring length: within 100 m from the indoor unit)

*When the power supply for the schedule timer is taken from the control circuit board of the indoor unit, that indoor unit cannot be used with other control devices using the T1U terminal.

- **Connection example 1 (power supply from the indoor unit)**



- **Connection example 2 (power supply from the control controller)**



System controller SHA-KC64AG(B)

Dimensions in mm
(15 h x 120 W x 70 D + 12 connecting dimension)

* Power supply	AC 220 to 240 V
* I/O port	- Remote input effective voltage: DC 24 V, dc 24mA/ OFF - Remote output (voltage free contact): at ON/44 OFF (external power supply within DC 30V)
* Total wiring length	1 km

- **Individual control is possible for max. 64 groups, 64 indoor units**
  - Control of 64 indoor units divided into 4 zones; each zone can have up to 16 groups and each group can have up to 8 units)
  - Control is possible for ON/OFF, operation mode, fan speed, air flow direction (only when used without a remote controller), operation monitoring, alarm monitoring, ventilation, remote controller local operation prohibition and so on.

Individual	All operations are possible also from the remote controller. However, the contents will be changed to with operated last the contents of the controller.
Control 1	The remote controller cannot be used for ON/OFF (All other operations are possible from the remote controller)
Control 2	The remote controller cannot be used for ON/OFF, mode change and temperature setting (all other operations are possible from the remote controller)
Control 3	The remote controller cannot be used for mode change or temperature setting change (all other operations are possible from the remote controller)
Control 4	The remote controller cannot be used for operation mode change (all other operations are possible from the remote controller)

- **A control mode corresponding to the one condition can be selected from 10 patterns.**

① *Operation mode: Control control mode or remote control mode can be selected*

- *Central control mode*: the system controller is used as centralized control device. (Setting from a remote controller can be prohibited by prohibiting local operation from the system controller).
- *Remote control mode*: the system controller is used as a remote controller. (Setting from the system controller can be prohibited by prohibiting local operation from another central control unit.)

② *Controlled unit number mode: all mode or zone 1, 2, 3, 4 mode can be selected*

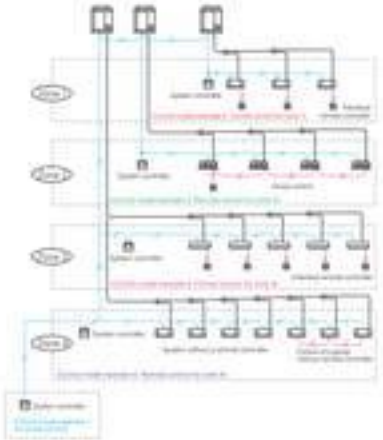
- *All mode*: all, zone, or group unit can be selected.
- *Zone 1, 2, 3, 4 mode*: setting is possible only for the indoor units of zone 1, 2, 3, or 4

Controlled unit number mode	Operation mode: Central control mode	Operation mode: Remote control mode
All mode	All remote controls (Example 1)	All remote controls
Zone 1 mode	Zone 1 remote controls (Example 2)	Zone 1 remote controls
Zone 2 mode	Zone 2 central control	Zone 2 remote controls (Example 2)
Zone 3 mode	Zone 3 central control (Example 2)	Zone 3 remote controls
Zone 4 mode	Zone 4 central control	Zone 4 remote controls (Example 2)

- **Joint use with a remote controller, an intelligent controller, a schedule timer and so on is possible**
  (The maximum number of connectable system controllers is 10, including other central controllers on the same circuit)
  In case of joint use with a wireless remote controller, there are limitations for the control mode.
  Please use only with "Individual" and "Control (*1)

- **Control of systems without a remote controller and of mute/sub systems (a total of up to two units) is possible**

- **Connection example**



Intelligent controller SHA-KT256AG(B)

Dimensions in mm
(50 h x 200 W x 37.2 + 1.8)

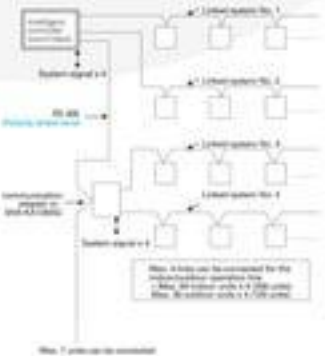
* Power supply	AC 100 to 240 V (50/60), 25 W (separate power supply)
* I/O port	- Remote input (effective voltage: DC 24 V, dc 24mA/ OFF - Remote output (voltage free contact): 60 (ON/44) alarm (external power supply within DC 30V)
* Total wiring length	1 km for each system
* Only for connecting to the panel	

- **Max. 256 indoor units (4 systems x 64 units) can be controlled. In case of three or more systems, a communication adapter SHA-KA128AG must be installed on the outside**
- **Operation is possible on batch, in zone units, in lowest units and in group units**
- **ON/OFF, operation mode setting, temperature setting, fan speed setting, air flow direction setting (when used without a remote controller) and remote controller local operation prohibition (prohibition 1, 2, 3, 4) can be done**
- **A system without a remote controller is possible. Joint use with a remote controller or a system controller and so on also is possible**
- **Use of a schedule timer and holiday setting also can be done**
- **Proportional distribution of the air-conditioning energy is possible**

** In case of joint use with a wireless remote control system, there are limitations for the control mode. Please use only with "Permission" and "Prohibition 1".*

- **Limitation contents for prohibited operation**
  Prohibition means limitation of the operation contents from the remote controller.
  It is also possible to change the prohibition items.

Limitation contents	
Individual	There is no limitation for the operation of the remote controller. However, the contents will be changed with operated last to the contents of the controller (Last pressure priority)
Prohibition 1	The remote controller cannot be used for ON/OFF (all other operations are possible from the remote controller)
Prohibition 2	The remote controller cannot be used for ON/OFF operation mode change, and temperature setting (All other operations are possible from the remote controller)
Prohibition 3	The remote controller cannot be used for operation mode change and temperature setting (all other operations are possible from the remote controller)
Prohibition 4	The remote controller cannot be used for operation mode change (all other operations are possible from the remote controller)
	Note: Avoid joint use of the ERT system and the intelligent controller as the same indoor/outdoor operation line.



Communication adaptor
RCS-KA128AG(B)

Dimensions in mm
(50 h x 120 W x 65 D)

* Power supply	AC 100 to 240 V (50/60), 2 W (separate power supply)

- **Required to connect three or more linked wiring systems (indoor/outdoor operation lines) to the intelligent controller**
- **Also required for connection of the ERT software**
  ** For more detail, please refer a chart of page 34*
- **Two linked wiring systems can be connected to one SHA-KA128AG but max. 4 systems can be connected for the entire intelligent controllers**

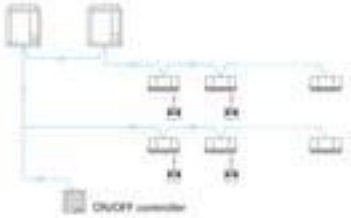
** As this is not a splash-proof design, it must be installed indoors or in the control panel etc.*

ON/OFF controller SHA-KC16KAG(B)

- 16 groups of indoor units can be controlled
- Collective control and individual group (unit) control can also be performed
- Up to 8 ON/OFF controller (4 main, 4 sub) can be installed in one link system
- The operation status can be determined immediately

* An operation mask and temperature settings are not possible with the ON/OFF controller. It must be used together with a remote controller or system controller etc.

- System example



Remote sensor ART-K45AG(B)

- This is a remote sensor which can be used with 4 series indoor unit. Please use it to detect the room temperature when no remote controller sensor or body sensor is used (correspondence to a system without a remote controller is possible)
- For joint use with a remote control switch, use the remote control switch as main remote controller

Signal output board ACC-SG-AG(B)

- Defrost, heating, cooling and thermostat ON signal can be put out to the outside
- Signal type (2 types): Voltage specification, non-voltage specification

Seri-Para I/O Unit for 16 groups indoor unit ACC-SP16TAG(B)

- This unit can control up to 4 outdoor units
- From the centre control device, mode changing and batch operation/ batch stop are possible
- This unit can control and monitor the status up to 16 groups of indoor units (Max 64 indoor units)
- Up to 4 seri-para units can be connected in one system
- From the center control device, it is possible to set the temperature and to monitor the room temperature or intake air temperature

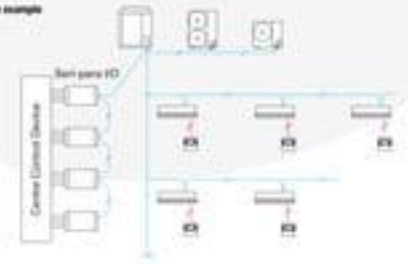
Input

1. ON/OFF (Pulse DC 24 V)
2. Local prohibit (Continuous DC 24 V)
3. Temp. setting (Analog DC 1 -5 V)
4. All ON/OFF (Pulse DC 24 V)
5. All local prohibit & Emergency stop (Continuous DC 24 V)

Output

1. On/Operation/Heater back/Filter sign
2. Room temp. (Analog DC 4 -20 m A)
3. All ON/OFF

- System example



Lon Works Interface SHA-LN16UG(B)

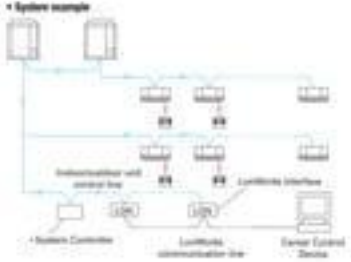
- This interface is a communications converter for connecting LonWorks to the Sanyo air conditioner unit (PAC - SHP) control network
- From the host connected to LonWorks, basic settings and status monitoring is possible for up to 16 groups of A/C units

Functions

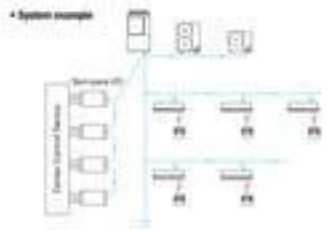
A/C unit settings from the LonWorks communicator	Settings for each group of indoor units	Start/stop Temp. Setting Operation mode Option 1 setting(*) Option 2 setting(*)
	Setting for all units	Emergency stop
A/C unit status notifications made to the LonWorks communicator		Alarm stop Temp. setting Operation mode Option 1 setting(*) Option 2 setting(*) Alarm status Indoor units with active alarms Room temp. A/C unit status
Configuration properties		Transmission interval settings Minimum time separation by Transmission

(*) Select one of the following: sensor controller provided, fan speed setting, air direction setting, filter sign reset

- System example

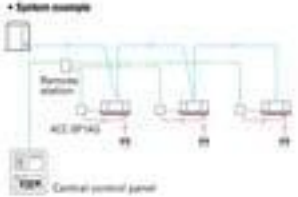


Seri-Para I/O unit for outdoor unit
ACC-XSP4U1G(B)



Seri-Para I/O unit for each indoor unit
ACC-SP1AG(B)

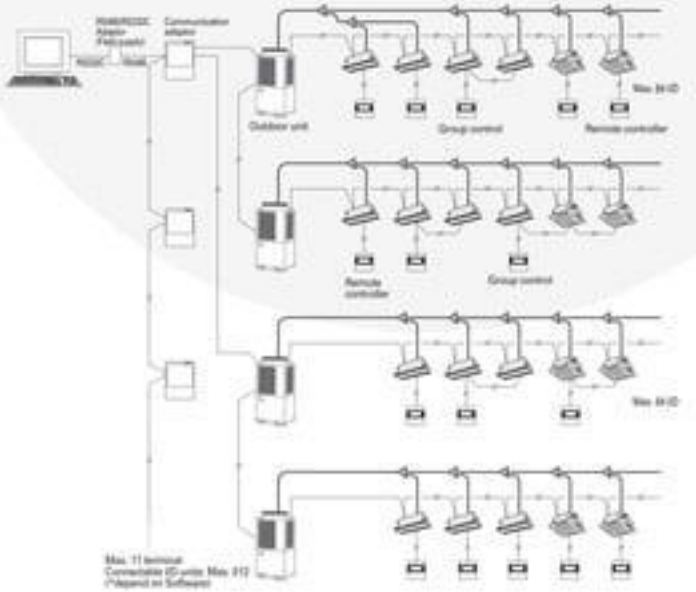
- Control and status monitoring is possible for individual indoor units (1 group)
- In addition to operation and stop, there is a digital input function for air speed, air direction, operation mode and demand
- Temperature setting and measurement of the indoor suction temperature can be performed from central monitoring
- The analog input for temperature setting is 0 to 10 V
- Power is supplied from the T10 terminal of the indoor unit. Separate power supply also is possible (in case of suction temperature measurement.)



Interface adaptor SHA-KL4UG(B)

AMY software

- This software (AMY) is an air conditioner control system for buildings. By using the adaptor Kit, Amy adaptor and the link cables up to 16 system can be connected for a maximum of 512 indoor units



Software environment

OS: Windows 2000, Windows XP 4.0 Service Pack 6 or above

Browser: Internet Explorer 6.0 or above

Functions

A/C unit settings
- Unit ON/OFF
- Mode change
- Room temperature setting
- Fan speed setting
- Flap setting
- Central control setting
- Filter sign Clear
- Alarm reset

A/C unit status
- Unit ON/OFF status
- Operation mode
- Setting temperature
- Fan speed status
- Flap status
- Central control setting
- Filter sign situation
- Cancel/Undercurrent status
- Alarm code
- Charge calculation rate

* When this AMY software is connected with communication adaptor, the setting of adaptor address and communication speed need to be changed

SANYO

SANYO Hydronic products
a year-round comfort air-conditioning in any residential and commercial building

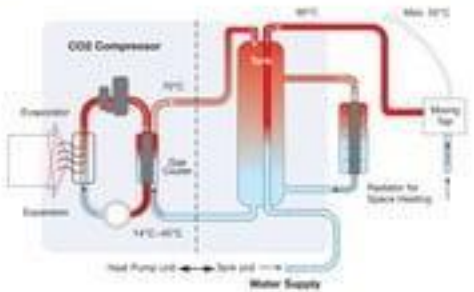
In the small and medium capacity range **Sanyo offers a very large range of hydronic products** to satisfy any Customer's demand and expectations. With CO2 ECo Sanyo reviewed the physicality of **CO2 natural refrigerant** and verified its good performance in cold climates and its advantage in application to water heaters for the refrigeration cycle. **Air-to water chillers and heat pumps** with built-in hydronic system make installation quick and easy and reduce installation space.
The **elegant and compact design** of the water terminal and fan-coil units ensure **high performances and low noise level certified by Eurovent**.

INDEX OF PRODUCTS:

CO2 hot water supplier inverter type

SHP-C45DEN • SHP-TH22DDN • SHP-TH22DHN

Sanyo CO2 ECO is a system that effectively utilizes heat in the atmosphere



System flow of the Heat Pump Hot Water Supplier

	Heat pump Unit / Tank unit		SHP-C45DEN	SHP-TH22DDN	SHP-TH22DHN
Performance					
*1 Heating capacity / input		kW		4.5 / 1.35	
C.O.P (Outdoor temp. 20°C)		W/W		3.75	
*2 Heating capacity / input		kW		4.5 / 1.45	
C.O.P (Outdoor temp. 7°C)		W/W		3.10	
*3 Heating capacity / input		kW		4.5 / 2.48	
C.O.P (Outdoor temp. -12°C)		W/W		1.81	
Electrical Rating					
Power supply	Heat pump unit	V		220-230-240	
	Tank unit	V	400 / 3-N		230 / 3-N
Maximum current		A	20		32
Tank unit					
Tank capacity		l		223	
Maximum working pressure		kg/cm²		2.5	
Auxiliary electric heater capacity		kW	9.0		7.00
Dimensions	Net (HxWxD)	mm		1547 x 597 x 619	
	Shipment (HxWxD)	mm		1736 x 700 x 737	
Weight	Net/Shipping	kg		170.0 / 190.0	
Heat pump unit					
Refrigerant (amount)		kg		1.07 (0.95)	
Pressure sound level		dB-A		40.0	
Compressor				DC Rotary two stage compression	
Dimensions	Net (HxWxD)	mm		690 x 940 x 290	
	Shipment (HxWxD)	mm		765 x 940 x 420	
Weight	Net/Shipping	kg		65.0 / 72.0	

Rating conditions
*1, *2, *3: Outlet Water Temp. 64 deg. C / Inlet Water Temp. 20 deg. C
Specifications subject to change without notice.

SHP-C45DEN SHP-TH22DDN/DHN

- Abundantly supply space heating and tap water
- Environmentally friendly with CO2 natural refrigerant
- Low ambient operation down to -20°C
- DC rotary 2 stage compressor
- High reliability, hig efficiency
- Freeze protection circuit
- The unique construction of water-to-refrigerant heat exchanger ensure improved efficiency

Environmentally friendly

A natural refrigerant (CO2) heat pump hot water supplier that considers the global environment

For its refrigerant, Sanyo "CO2 ECO" uses heat energy derived from compressed CO2, friendly to the ecosystem and our living environment. CO2 is an atoxic natural refrigerant with Ozone-Destruction Potential "0" and Global Warming Potential "1".

Characteristics of Natural Refrigerant CO2

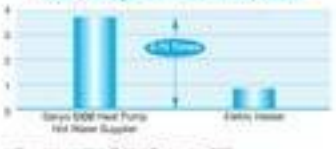
Natural refrigerant		ODP	GWP
CO2		0	1
HFC	R410A	0	1924
	R407C	0	1652
HCFC	R22	0.055	1700

Economical

The high-efficiency heat pump method enable its superior energy-conservation capability

The coefficient of performance (COP) is 3.75 for Sanyo "CO2 ECO" compared to 1 for electric heaters (standard condition).

C.O.P. Comparison with Electric Heater



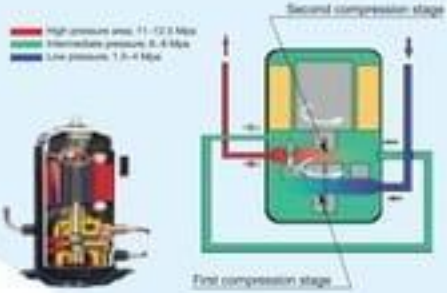
Operating condition: Outdoor Temperature 20°C
Water Outlet at 90°C/Water Inlet at 20°C

Low ambient operation

With Sanyo "CO2 ECO", the heat pump operates continuously in the harsh condition of -20°C, maintaining its performance at no less than 4.0 kW. The consistent operation of the heat pump extremely low temperatures is made possible by the refrigerant circuit technology developed and refined by Sanyo

The heat pump operation of many models using "HCFC or HFC" as the refrigerant can only withstand the ambient temperature up to approximately -15°C. Electric heaters are required for temperatures below this level, resulting in performance that is not high in efficiency.

Comparison of Heat Pump Operation in Low Ambient



The world First C02 ECO Rotary 2-stage Compression System

Sanyo "CO2 ECO" adopts the rotary 2-stage compressor, a creation of Sanyo original technology.

The outstanding performance of Sanyo's "2-stage compressor" supports the basic operation capability of "CO2 ECO".

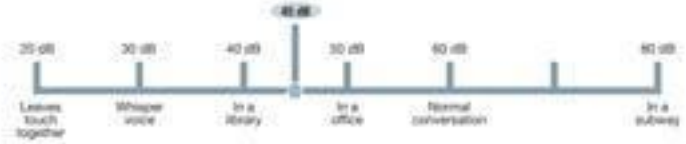
Resistant to high working pressure
Internal intermediate pressure system
- easier to design shell (lower O.P.)

Resistant to large pressure difference
2-stage compression system
- high-reliability through load dispersion
- high efficiency (lower leakage loss)
- low vibration and low noise

High-efficiency and lightweight design
2-stage compression system
DC brushless motor and inverter drive
- high efficiency intensive winding motor with high-power neodymium magnet

Silent operation

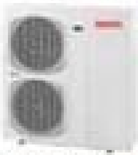
With Sanyo "CO2 ECO" the noise level during operation is 45 dB-A



SCP-AR061E5/EH5 • SCP-AR061E8/EH8
SCP-AR111EH5 • SCP-AR111E8/EH8
SCP-AR151E8/EH8 • SCP-AR171E8/EH8

Power Range from 6.0 kW to 16.6 kW

SCP-AR...E/EH



SCP-AR...E/EH

- High C.O.P.
- Friendly to the eco-system refrigerant R410A
- Pump and expansion vessel integrated
- Does not require the installation of a buffer tank (*)

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R410A

SCP-AR241EH8 • SCP-AR271EH8 • SCP-AR351EH8
SCP-AR401EH8 • SCP-AR201E8 • SCP-AR251E8
SCP-AR301E8 • SCP-AR401E8

Power Range from 20.8 kW to 39.0 kW

- High C.O.P.
- Friendly to the eco-system refrigerant R407C
- Pump and expansion vessel integrated
- Does not require the installation of a buffer tank (*)

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R407C

Hydronic

SCP-AR501E8/EH8 • SCP-AR601E8/EH8 • SCP-AR701E8/EH8
SCP-AR801E8/EH8

Power Range from 40.6 kW to 78.0 kW

- High C.O.P.
- Friendly to the eco-system refrigerant R407C
- Built-in hydraulic module with pump, expansion tank, buffer tank

Capacity	kW	40.6	46.0	52.4	54.0	60.8	68.0	67.9	75.0
Absorbed power	kW	14.4	14.6	18.3	20.1	22.1	23.1	25.6	26.0
E.E.R./C.O.P.	W/W	2.74	3.05	2.84	2.68	2.73	2.95	2.64	2.88
Water flow	l/sec	1.94	2.24	2.50	2.51	2.90	3.25	2.58	4.21
Available pump head	kPa	260	210	200	170	120	70	90	50
Main power supply	V/Ph/Hz				400/3+N/50				
Hydraulic connection diameter	inch				2"				
Power sound level	dB-A				1 "1/2 Male				
Pressure sound level	dB-A	70		75		80		83	
System minimum water content (*)	l	30		40		52		57	
Dimensions & Weight									
H/W/D set	mm	1670 x 1100 x 1050		1670 x 1900 x 1050		1670 x 1900 x 1050		1920 x 1900 x 1050	
Weight set	kg	810		870		910		960	

Capacity	kW	47.9	52.3	67.9	73.5
Absorbed power	kW	15.7	17.5	20.6	22.1
E.E.R./C.O.P.	W/W	3.04	3.03	3.14	3.34
Water flow	l/sec	2.10	2.36	2.74	3.73
Available pump head	kPa	200	180	140	70
Main power supply	V/Ph/Hz			400/3+N/50	
Hydraulic connection diameter	inch			2"	
Power sound level	dB-A			1 "1/2 Male	
Pressure sound level	dB-A	70	80	80	80
System minimum water content (*)	l	40	42	47	51
Dimensions & Weight					
H/W/D set	mm	1670 x 1900 x 1050	1670 x 1900 x 1050	1670 x 1900 x 1050	1920 x 1900 x 1050
Weight set	kg	930	980	910	970

Specifications subject to change without notice

Nominal conditions		Operating limits	minimum	maximum	Sound pressure level
• Outdoor air temperature	35°C	• Outlet air temperature			• Unit installed outdoor (free field)
• Cold water temperature	12°C	standard unit	14°C	45°C	• Measuring distance 10 m
• Outlet water temperature	7°C	with head pressure control	+10°	45°C	
		• Outlet water temperature (without glycol)	4°C	20°C	

R407C

SCP-AR951EH8 • SCP-AR1001EH8 • SCP-AR1401EH8
SCP-AR1601EH8 • SCP-AR1001E8 • SCP-AR1251E8 • SCP-AR1401E8

Power Range from 80.8 kW to 140 kW

- Ozone friendly R407C refrigerant
- High efficiency
- Built-in hydraulic module with pump, expansion tank and buffer tank

Capacity	kW	80.8	90.3	91.0	101.4	114.0	117.9	130.2	140.0
Absorbed power	kW	30.4	32.4	34.4	42.1	38.1	45.8	52.1	47.3
E.E.R./C.O.P.	W/W	02.23	02.46	02.53	02.02	02.14	02.46	02.24	2.96
Water flow	l/sec	3.84	4.47	4.5	5.14	5.33	5.74	5.98	7.3
Available pump head	kPa	300	330	330	240	340	310	340	370
Main power supply	V/Ph/Hz				400/3+N/50				
Buffer tank volume	l				300				
Hydraulic connection diameter	in				2" 1/2 male				
Power sound level	dB-A	75		84		85		88	
Pressure sound level	dB-A	47		56		57		60	
Dimensions & Weight									
H/W/D set	mm				2000 x 2200 x 2290				
Weight set	kg	1460		1480		1570		1630	

Capacity	kW	111.2	125.2	140.0
Absorbed power	kW	43.0	50.4	47.3
E.E.R./C.O.P.	W/W	2.58	2.24	2.97
Water flow	l/sec	6.83	5.97	6.67
Available pump head	kPa	350	330	370
Main power supply	V/Ph/Hz		400/3+N/50	
Buffer tank volume	l		500	
Hydraulic connection diameter	in		2" 1/2 male	
Power sound level	dB-A	79	81	88
Pressure sound level	dB-A	51	53	60
Dimensions & Weight				
Outlet set	mm		2200 x 2290 x 2290	
Weight set	kg	1470	1550	1610

Specifications subject to change without notice

Nominal conditions		Operating limits	minimum	maximum	Sound pressure level
• Outdoor air temperature	35°C	• Outlet air temperature			• Unit installed outdoor (free field)
• Cold water temperature	12°C	standard unit	14°C	45°C	• Measuring distance 10 m
• Outlet water temperature	7°C	with head pressure control	+10°	45°C	
		• Outlet water temperature (without glycol)	4°C	20°C	

R407C

Fan-coils units

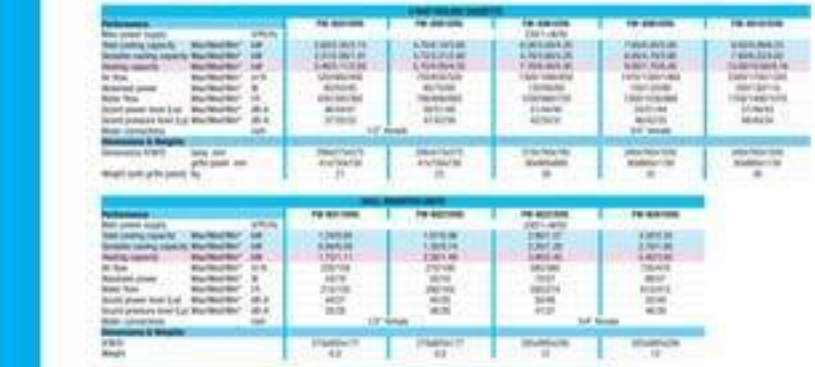
FW-X031EH5 • FW-X051EH5 • FW-X061EH5 • FW-X081EH5 • FW-X101EH5
FW-FT021EH5 • FW-FT031EH5 • FW-FT041EH5 • FW-K011EH5 • FW-K021EH5
FW-K031EH5 • FW-K041EH5

Power Range from 1.24 kW to 9.92 kW

60x60 X type | X type | K type | FT type

- Wide model range for 2-pipe and 4-pipe design system (K type size 031 and 051)
- Suitable for any commercial buildings and even for hotels and residential applications
- K and FT also available with infrared remote controller

- Silent operation ensures maximum comfort
- 3-way valve kit features precise temperature control in the room
- Cleanable air filter standard included



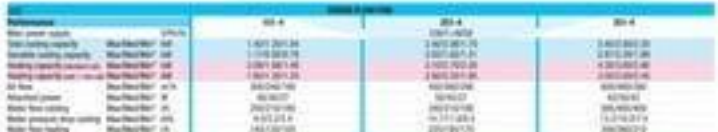
S-VMT/HMT/VHT151-251-351
S-VMC/HMC/VHC151-251-351-401-501-601-701

Power Range from 1.4 kW to 6.6 kW

VM type | HM type | VH type

- Very wide and complete line-up: centrifugal or cross flow fan, 2-pipe or 4-pipe design
- Decorative cabinet can easy match with any kind of rooms
- Easy to install and very simple maintenance

- Cleanable air filter included
- Electronic controllers available for unit mounting and remote installation ensure precise control of the room temperature
- Large choice of accessories, either separately supplied or factory mounted



Note

Note