

**SANYO**  
AIR CONDITIONERS

SAP R410A  
Single + Multi



The Flexi Multi DC inverter heat pump multi split range



**R410A**

All round air conditioning by **SANYO**

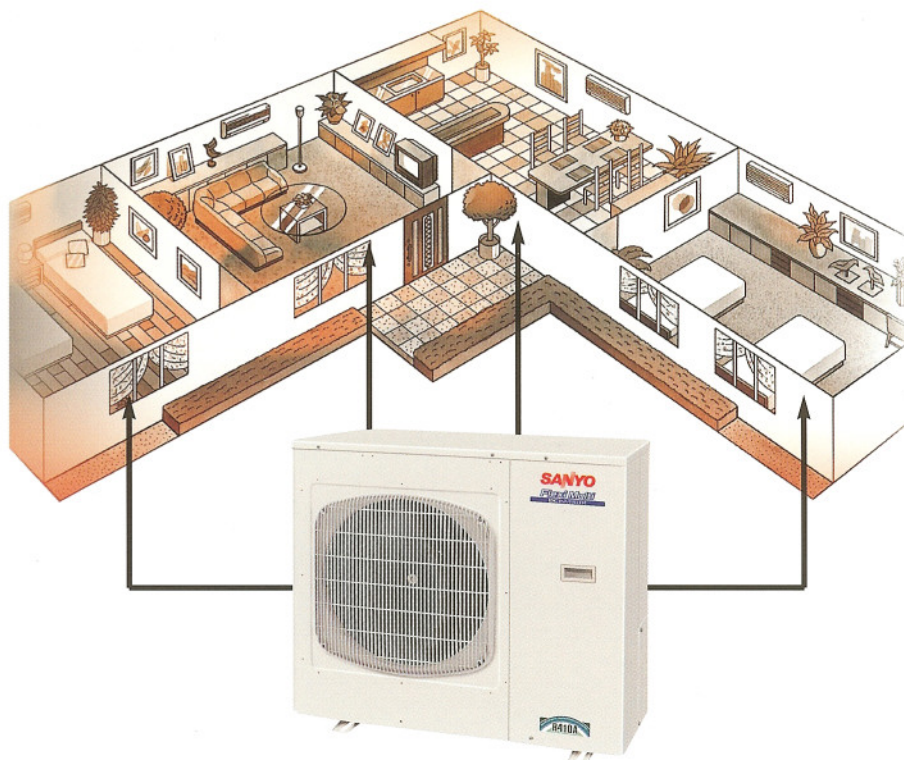


# Flexi Multi DC inverter heat pump multi split systems

## The flexible solution

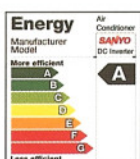
The new SANYO Flexi Multi range of heat pump multi split systems are the ideal, flexible solution for providing quiet and efficient air conditioning to 2, 3 or 4 areas from a single outdoor unit.

- 3 system capacities 5.6, 6.8 and 9.0kW
- 6 indoor model styles
- 2, 3 or 4 way multi split
- DC inverter technology for precise temperature control and low start current
- Provides heating or cooling as required but not simultaneously



## R410A

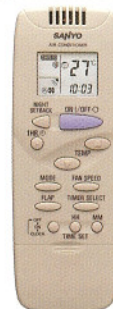
The Flexi Multi systems utilise the non-ozone depleting R410A refrigerant, this means increased system performance, increased energy efficiency and improved heat transfer which results in smaller pipe sizes and more compact indoor units.



All Flexi Multi DC inverter models are rated as EEL Category A, which confirms that they are amongst the most energy efficient systems available. Power consumption during operation is substantially less than that of lower rated units and consequently both the day to day running costs and full life cycle costs are significantly reduced.

## Simple, one touch control

- Full function Remote Controller
- Built-in temperature sensor
- Temperature setting
- Operational mode selection
- Fan speed control
- 24 hour on/off timer
- 1 hour timer



SANYO Flexi Multi systems qualify for inclusion on the Energy Technology List and therefore for 100% first year enhanced capital allowances, where the total cost of the system and installation can be offset against taxable profits in the year of purchase. For further information, visit [www.ea.gov.uk](http://www.ea.gov.uk) or email [ecaadmin@eaat.co.uk](mailto:ecaadmin@eaat.co.uk).



## KMRV wall units 2.8kW - 7.00kW

- Designed for flush mounting against a wall
- Choice of indoor unit styles
- Auto swing louvres for optimum air distribution
- 3 fan speeds
- Quiet operation
- High power mode for rapid cooling or heating



Indoor		SAP-KMRV93GJH	SAP-KMRV123GJH	SAP-KMRV183GJH	SAP-KMRV243GJH
Nominal Cooling	kW	2.80	3.60	5.00	7.00
Nominal Heating	kW	4.00	4.80	7.10	8.00
Noise Levels - LMH	dB(A)	33/38/41	33/39/46	38/44/49	38/43/47
Airflow - LMH	m³/h	370/510/620	400/450/580	530/620/680	920/1000/1100
Dimensions - HWD	mm	275x805x178	285x805x219	285x805x219	330x1140x228
Weight	kg	8.5	9.5	10.0	18.0
Pipe Sizes	inch	1/4, 3/8	1/4, 3/8	1/4, 3/8	1/4, 1/2

## XMRV 4 way blow compact cassettes 2.80kW - 5.00kW

- Designed to fit into standard 600mm x 600mm ceiling grid
- Fresh air knock out
- Multi directional airflow
- Integrated drain pump give 250mm lift
- Auto swing louvres for optimum air distribution
- Quiet operation



Indoor		SAP-XMRV93EH	SAP-XMRV123EH	SAP-XMRV183EH
Nominal Cooling	kW	2.80	3.60	5.00
Nominal Heating	kW	4.00	4.80	7.10
Noise Levels - LMH	dB(A)	37/40/44	37/40/44	37/40/45
Airflow - LMH	m³/h	500/600/700	500/600/700	530/630/750
Dimensions - HWD	mm	273x575x575	273x575x575	273x575x575
Weight	kg	16.5	16.5	18.2
Pipe Sizes	inch	1/4, 3/8	1/4, 3/8	1/4, 3/8



## FMRV floor unit 2.80kW

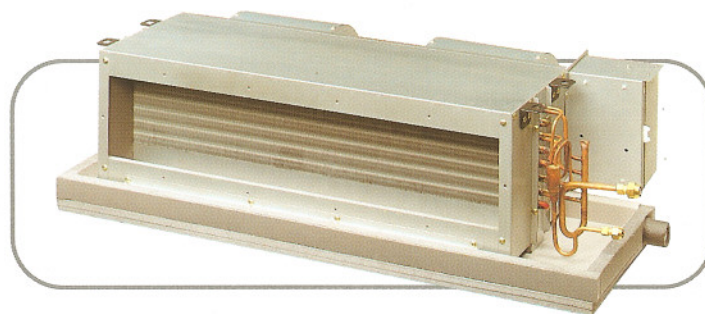
- Ideal for perimeter air conditioning
- Compact design, just 200mm deep, requires small installation space
- Quiet operation from 34dB(A)
- 3 fan speeds
- Infra red remote control



Indoor		SAP-FMRV93EH
Nominal Cooling	kW	2.80
Nominal Heating	kW	4.00
Noise Levels - LMH	dB(A)	30/40/43
Airflow - LMH	m <sup>3</sup> /h	300/360/400
Dimensions - HWD	mm	700x560x200
Weight	kg	18.0
Pipe Sizes	inch	1/4, 3/8

## DMRV ducted units 2.80kW - 7.00kW

- Unobtrusive installation designed for bulkhead applications
- Condensate removal from either end
- Infra red remote control
- 3 fan speeds



Indoor		SAP-DMRV93GJH	SAP-DMRV123GJH	SAP-DMRV183GJH	SAP-DMRV243GJH
Nominal Cooling	kW	2.80	3.60	5.00	7.00
Nominal Heating	kW	4.00	4.80	7.10	8.00
Noise Levels - LMH	dB(A)	37/39/41	37/39/41	37/39/41	39/41/52
Airflow - LMH	m <sup>3</sup> /h	700/760/850	700/760/850	700/760/850	680/760/1180
Dimensions - HWD	mm	260x958x479	260x958x479	260x958x479	260x958x479
Weight	kg	19.0	19.0	19.0	19.0
Pipe Sizes	inch	1/4, 3/8	1/4, 3/8	1/4, 3/8	1/4, 1/2



## FTMRV floor / ceiling units 3.60kW - 6.00kW

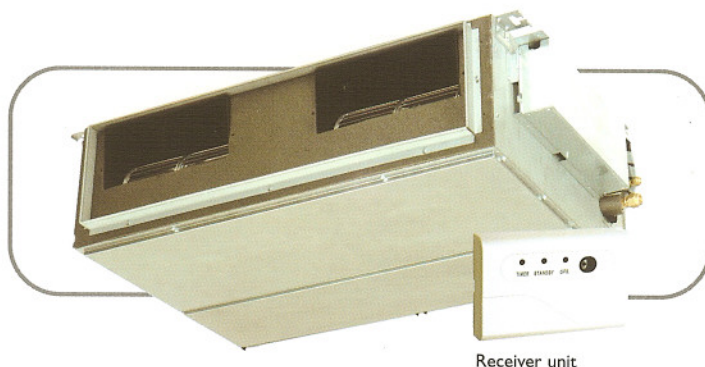
- Flexible design allows floor or ceiling mounting without modification
- Large and wide air distribution
- Auto air sweep for optimum distribution
- 3 fan speeds
- Quiet operation
- Infra red remote control



Indoor		SAP-FTMRV123EH	SAP-FTMRV183EH	SAP-FTMRV223EH
Nominal Cooling	kW	3.60	5.00	6.00
Nominal Heating	kW	4.80	7.10	7.50
Noise Levels - LMH	dB(A)	38/43/47	41/45/49	42/46/50
Airflow - LMH	m³/h	500/590/700	590/700/800	670/770/840
Dimensions - HWD	mm	600x900x190	600x900x190	600x900x190
Weight	kg	23.5	23.5	23.5
Pipe Sizes	inch	1/4, 3/8	1/4, 1/2	1/4, 1/2

## UMRV ducted units 2.80kW - 6.00kW

- Ideal for flexible, concealed air conditioning
- Infra red remote control
- Built-in drain pump gives 250mm lift
- 3 fan speeds



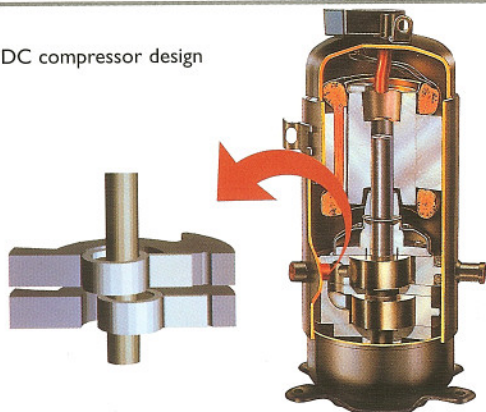
Indoor		SAP-UMRV93EH	SAP-UMRV123EH	SAP-UMRV183EH	SAP-UMRV223EH
Nominal Cooling	kW	2.80	3.60	5.00	6.00
Nominal Heating	kW	4.00	4.80	7.10	7.50
Noise Levels - LMH	dB(A)	36/38/41	36/38/41	42/47/51	44/48/52
Airflow - LMH	m³/h	440/510/600	440/510/600	400/600/875	600/700/1000
Dimensions - HWD	mm	266x852x571	266x852x571	266x1058x571	266x1058x571
Weight	kg	16.5	16.5	18.2	23.5
Pipe Sizes	inch	1/4, 3/8	1/4, 3/8	1/4, 3/8	1/4, 1/2



# CMRV outdoor units

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

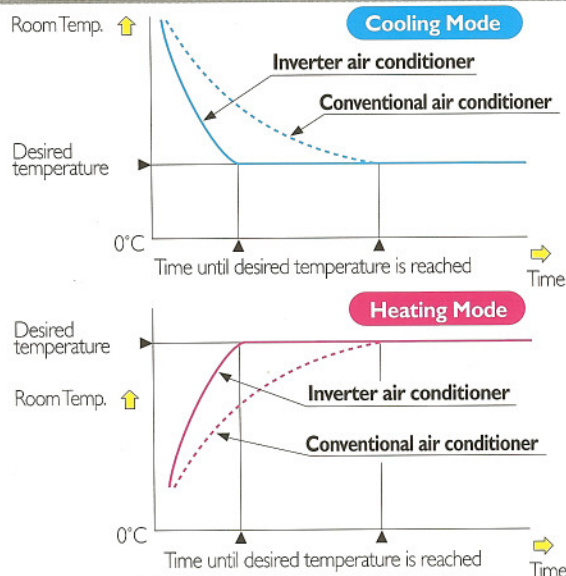
Advanced DC compressor design



SAP-CMRV1923GJH

## Rapid and accurate temperature control

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



Outdoor Units		SAP-CMRV1923GJH	SAP-CMRV2433GJH	SAP-CMRV3143GJH
Nominal Cooling	kW	5.60	6.80	9.00
Nominal Heating	kW	7.30	8.60	10.00
COP - C/H		3.20 / 3.46	3.33 / 3.81	4.64 / 4.61
Noise Levels - C H	dB(A)	48 49	48 49	53 54
Dimensions - HWD	mm	730x940x340	730x940x340	880x940x340
Weight	kg	69.0	70.0	90.0
Power Supply		1 phase	1 phase	1 phase
Interconnecting Wiring	1.5mm	3 core + earth	3 core + earth	3 core + earth
Run Current - H	A	9.9	10.6	9.7
Fuse Size	A	20	20	30
Max. Pipe Run Per Indoor Unit	m	25	25	30
Max. Total Pipe Run	m	35	50	70
Max. Height Difference	m	10	10	10
Connectable Units		2	3	4



# Flexi Multi indoor unit operating capacities

A minimum of 2 indoor units must be connected to each system. The total available duty is shared amongst the operating indoor units to match the indoor requirements.

## Model No SAP-CMRV1923GJH

	Indoor Model Size	Indoor Unit Cooling Capacities kW				Total kW	Indoor Unit Heating Capacities kW				Total kW
		A	B	C	D		A	B	C	D	
1 indoor operating	93	2.80	-	-	-	2.80	4.00	-	-	-	4.00
	123	3.60	-	-	-	3.60	4.80	-	-	-	4.80
	183	5.00	-	-	-	5.00	7.10	-	-	-	7.10
2 indoors operating	93+93	2.80	2.80	-	-	5.60	3.65	3.65	-	-	7.30
	93+123	2.45	3.15	-	-	5.60	3.30	4.00	-	-	7.30
	93+183	2.00	3.60	-	-	5.60	2.65	4.65	-	-	7.30
	123+123	2.80	2.80	-	-	5.60	3.65	3.65	-	-	7.30
	123+183	2.35	3.25	-	-	5.60	2.95	4.35	-	-	7.30

## Model No SAP-CMRV2433GJH

	Indoor Model Size	Indoor Unit Cooling Capacities kW				Total kW	Indoor Unit Heating Capacities kW				Total kW
		A	B	C	D		A	B	C	D	
1 indoor operating	93	2.80	-	-	-	2.80	4.00	-	-	-	4.00
	123	3.60	-	-	-	3.60	4.80	-	-	-	4.80
	183	5.00	-	-	-	5.00	7.10	-	-	-	7.10
2 indoors operating	93+93	2.80	2.80	-	-	5.60	4.00	4.00	-	-	8.00
	93+123	2.80	3.60	-	-	6.40	3.10	4.70	-	-	8.60
	93+183	2.45	4.35	-	-	6.80	4.30	5.50	-	-	8.60
	123+123	3.40	3.40	-	-	6.80	3.45	4.30	-	-	8.60
	123+183	2.85	3.95	-	-	6.80	2.95	5.15	-	-	8.60
3 indoors operating	93+93+93	2.26	2.26	2.26	-	6.80	2.86	2.86	2.86	-	8.60
	93+93+123	2.07	2.07	2.65	-	6.80	2.70	2.70	3.20	-	8.60
	93+93+183	1.80	1.80	3.20	-	6.80	2.30	2.30	4.00	-	8.60
	93+123+123	1.90	2.45	2.45	-	6.80	2.50	3.05	3.05	-	8.60
	93+123+183	1.65	2.15	3.00	-	6.80	2.15	2.60	3.85	-	8.60
	123+123+123	2.26	2.26	2.26	-	6.80	2.86	2.86	2.86	-	8.60

## Model No SAP-CMRV3143GJH

	Indoor Model Size	Indoor Unit Cooling Capacities kW				Total kW	Indoor Unit Heating Capacities kW				Total kW
		A	B	C	D		A	B	C	D	
1 indoor operating	93	2.80	-	-	-	2.80	4.00	-	-	-	4.00
	123	3.60	-	-	-	3.60	4.80	-	-	-	4.80
	183	5.00	-	-	-	5.00	7.10	-	-	-	7.10
2 indoors operating	93+93	2.80	2.80	-	-	5.60	4.00	4.00	-	-	8.00
	93+123	2.80	3.60	-	-	6.40	4.00	4.80	-	-	8.60
	93+183	2.80	5.00	-	-	7.80	3.60	6.40	-	-	10.00
	123+123	3.60	3.60	-	-	7.20	4.80	4.80	-	-	9.60
	123+183	3.60	5.00	-	-	8.60	4.00	6.00	-	-	10.00
3 indoors operating	93+93+93	2.80	2.80	2.80	-	8.40	3.33	3.33	3.33	-	10.00
	93+93+123	2.75	2.75	3.50	-	9.00	3.10	3.10	3.80	-	10.00
	93+93+183	2.40	2.40	4.20	-	9.00	2.65	2.65	4.70	-	10.00
	93+93+243	2.00	2.00	5.00	-	9.00	2.35	2.35	5.30	-	10.00
	93+123+123	2.50	3.25	3.25	-	9.00	3.00	3.50	3.50	-	10.00
	93+123+183	2.20	2.85	3.95	-	9.00	2.50	3.00	4.50	-	10.00
	123+123+123	3.00	3.00	3.00	-	9.00	3.33	3.33	3.33	-	10.00
	123+123+183	2.65	2.65	3.70	-	9.00	2.85	2.85	4.30	-	10.00
4 indoors operating	93+93+93+93	2.25	2.25	2.25	2.25	9.00	2.50	2.50	2.50	2.50	10.00
	93+93+93+123	2.10	2.10	2.10	2.70	9.00	2.38	2.38	2.38	2.85	10.00
	93+93+93+183	1.90	1.90	1.90	3.30	9.00	2.10	2.10	2.10	3.70	10.00
	93+93+123+123	1.95	1.95	2.55	2.55	9.00	2.30	2.30	2.70	2.70	10.00
	93+93+123+183	1.75	1.75	2.30	3.20	9.00	2.00	2.00	2.40	3.60	10.00
	93+123+123+123	1.80	2.40	2.40	2.40	9.00	2.20	2.60	2.60	2.60	10.00
	93+123+123+183	1.70	2.15	2.15	3.00	9.00	2.00	2.30	2.30	3.40	10.00
	123+123+123+183	2.25	2.25	2.25	2.25	9.00	2.50	2.50	2.50	2.50	10.00



#### Rating Conditions

The cooling and heating capacities are based on the following conditions:

Cooling: Indoor temperature 27°C DB / 10°C WB, Outdoor temperature 35°C DB / 24°C WB.

Heating: Indoor temperature 20°C DB, Outdoor temperature 7°C DB.



Indicates conformation  
with EC Directives



ISO 9001:2001  
Certificate Number: JQ116B



ISO 14001:2001  
Certificate Number: ECOJ0303-33



ATP0205FM Specifications subject to change without notice. Printed in the UK.

# SANYO

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