



DESIGN & ACCESS STATEMENT

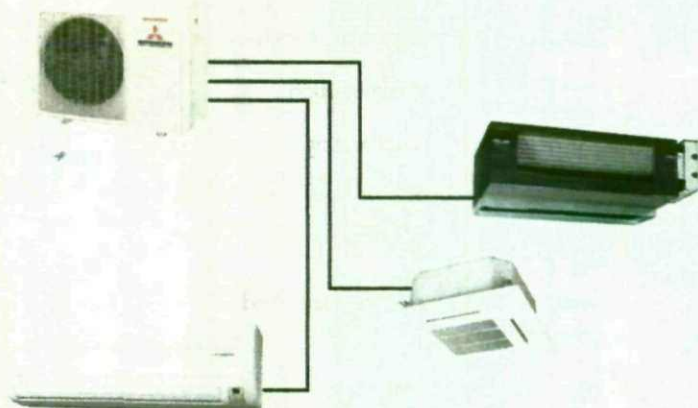
ecolution
AIR CONDITIONING

**SCM INVERTER
Multi Systems**
SCM

Mitsubishi Heavy Industries has further extended its development in world leading technology applied to high efficiency air conditioning and heat pump systems

SCM INVERTER Multi 2: 3: 4: to 1 Systems

Ideal for houses, apartments and small offices. The indoor unit range now includes ceiling cassette models, small ducted concealed units and high wall units



Wall, cassette, ducted systems, 4kW to 9.3kW for residential and light commercial application



RESIDENTIAL • SMALL OFFICES • HOTELS • SHOPS • CONSULTING & TREATMENT ROOMS

Mitsubishi SCM Multi Systems consist of one outdoor unit connected to 2, 3, or 4 indoor units, ideal for small multi room applications.

The outdoor unit is fully INVERTER driven, and is connected to each indoor unit by a pair of small diameter copper pipes, plus electrical supply.

The system will operate in either cooling mode or heating mode and the variable capacity outdoor unit will automatically adjust to suit the combined cooling or heating requirement. Unoccupied rooms can have units switched off to save energy.

SKM wall mounted indoor units now include the Mitsubishi Natural Enzyme-Sterilizing Filter and the Photocatalytic Deodorizing Filter.

Wired remote controllers are available as an option on the STM Cassette and the SRRM Ducted units.





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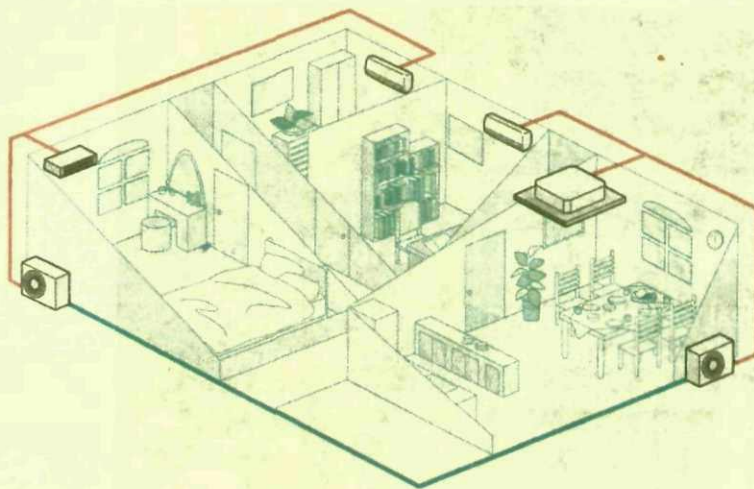
AIR CONDITIONING

SCM INVERTER Multi Systems

SCM

Key Features

- High C.O.P. up to 4.15
 - INVERTER technology for all models
 - 2, 3 or 4 indoor unit combinations
 - All models are cooling/heating
 - Infra-red controller
 - Individual unit control
 - Wall controller option for ducted and cassette units
 - Pipe runs up to 25 metres
 - Low noise - 24dBA on smaller models
 - Back-up switch for loss of controller
 - Cold draft prevention on heat pump start up
 - Fault diagnosis
 - Auto re-start after power interruption
 - PRE-CHARGED WITH REFRIGERANT
- For pipe length -
- | | |
|-----|-------|
| 20m | SCM45 |
| 30m | SCM60 |
| 40m | SCM80 |



Superior Controls Specification

The SCM variable capacity multi systems are ideal for light commercial and residential applications, having the highest C.O.P. up to 4.15 and low start currents, ideal where there is limited power supply. The INVERTER outdoor units are suitable for 2, 3, or 4 connected indoor units, depending on the model. Each indoor unit is connected directly by a pair of small diameter refrigerant pipes to the outdoor unit. There are no branch joints involved.

All connected indoor units operate in the same mode, i.e. either all heating, or all cooling, but the temperature and operation can be controlled individually in each room.

There are many permutations of connectable indoor units to each outdoor unit. Typical examples are listed below. The cooling and heating data is based on all connected units operational at the same time at full load. In practice, the load in each room is unlikely to be at 100% continuously, so the available spare capacity is then shared to other units accordingly.

SCM MULTI Outdoor units			
	SCM45-ZG	SCM60-ZG	SCM80-ZG

Max connected indoor units		2	3	4
Cooling (nominal) range	kW	1.0 - 6.4	1.1 - 7.5	1.8 - 9.5
UK Cooling	kW	6.21	7.25	9.22
HEATING (nominal) range	kW	1.8 - 6.8	1.4 - 7.6	0.8 - 9.6
C.O.P.		4.15	4.02	3.89
Exterior dimensions	mm	640 x 850 x 290	640 x 850 x 290	845 x 880 x 340
Net weight	kg	46	51	66
Sound Pressure Level (Outdoor)	dBA	47	50	52
Power Source Rating MCB (to Outdoor)	A	16A	16A	16A
Interconnecting wires to indoor unit		3 + E	3 + E	3 + E
Typical Indoor Unit combinations	TWIN	25 + 25	50 + 35	-
	TWIN	25 + 35	50 + 50	-
	TWIN	35 + 35	60 + 35	-
	TRIPLE	-	25 + 25 + 25	25 + 25 + 25
	TRIPLE	-	50 + 25 + 25	60 + 25 + 25
	TRIPLE	-	35 + 35 + 35	60 + 35 + 25
	TRIPLE	-	-	50 + 50 + 25
	QUAD	-	-	25 + 25 + 25 + 25
	QUAD	-	-	50 + 25 + 25 + 25
	QUAD	-	-	35 + 35 + 25 + 25

Cooling Nom: 27°Cdb/19°Cwb, Amb: 35°C UK Cooling 1/d: 23°Cdb/16°Cwb, Amb: 30°C Heating 1/d: 20°Cdb, Amb: 7°Cdb/6°Cwb

SCM MULTI Indoor units						
Nominal Duties		Dimensions				
Cooling	Heating	Height	Width	Depth	Weight	
kW	kW	mm	mm	mm	kg	

Wall Mounted Unit (inc. Controller)

SKM25-ZG	2.5	3.4	268	790	199	8.5
SKM35-ZG	3.5	4.5	268	790	199	8.5
SKM50-ZG	5.0	5.8	268	790	199	8.5
SKM60-ZG	6.0	6.8	318	1098	248	15
SKM71-ZG	7.1	8.0	318	1098	248	15

Cassette 4-way (inc. Fascia Panel & Wireless Controller - Receiver integral in panel)

STM25-ZF	2.5	3.4	248	570	570	14
STM35-ZF	3.5	4.5	248	570	570	14
STM50-ZF	5.0	5.8	248	570	570	14.5
STM60-ZF	6.0	6.8	248	570	570	14.5
STM Fascia			35	700	700	3.5

Optional Controller RCE1 Wired remote Controller

Ducted Unit (includes Wireless Controller and Receiver Kit)

SRRM25-ZF	2.5	3.4	230	740	455	22
SRRM35-ZF	3.5	4.5	230	740	455	22
SRRM50-ZF	5.0	5.8	230	740	455	23
SRRM60-ZF	6.0	6.8	230	740	455	23

Optional Controller RCE1 Wired remote Controller



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Selected systems are listed on the Energy Technology List. This listing enables 100% tax allowance in the first year, on the total cost of Mitsubishi systems, plus the installation costs (including pipework and electrical supplies, materials, labour and design costs). Check ETL listing on government web site: www.eca.gov.uk/etl

