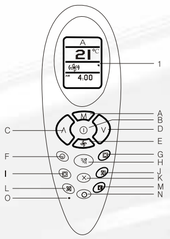
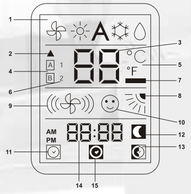
Remote Controller

Remote Controller



1. Display readout
A. Mode selection button
B. ON/OFF button
C. Increase temperature button
D. Decrease temperature button
E. Fan speed selection button
F. Personalised control button
G. Personalised settings button
H. Louver control button(Flap)
I. ON timer button
J. DAILY timer button(Everyday)
K. Cancel timer button
L. OFF timer button
M. Sleep timer button(night)
N. Current time adjusting button
O. Reset button



1. Operating mode(from left to right);
Ventilation(fan only)
Heating (heat pump models only)
Automatic(heat pump models only)
Cooling and dehumidification
Dehumidification only
2. Signal transmission symbol
3. Temperature selected
4. Address selector
5. Temperature unit of measurement (°C or °F)
6. Unit configuration
7. Batteries exchausted indicator
8. Louver positioning(Flap)
9. Fan speed
10. Personalisation active
11. ON timer active
12. Night timer active
13. DAILY timer active(Everyday)
14. ON timer, OFF timer and current time
15. OFF timer selected

Specification

Cassette Split Unit

MODEL No (INDOOR)		40KMC018	40KMC024	40GKX036	40GKX048
MODEL No (OUTDOOR)		51MSB018R	51MSB024R	51MSC036S	51MSC048S
COOLING CAPACITY	kw	5.3	7.0	9.0	11.7
POWER INPUT	kw	2.06	2.56	2.8	4
EER	kw/kw	2.57	2.73	3.00	2.82
NOISE LEVEL(Hi)	dB(A)	36	42	39	45
REFRIGERANT		R22			
COMPRESSOR	Type	Rotary	Recip.	Scroll	Scroll
	Number	1	1	1	1
POWER SUPPLY					
- INDOOR UNIT	V-ph-Hz	230 - 1 - 50	230 - 1 - 50	220 - 1 - 50	220 - 1 - 50
- OUTDOOR UNIT	V-ph-Hz	230 - 1 - 50	230 - 1 - 50	440 - 3 - 50	440 - 3 - 50
RUNNING CURRENT	A	10.1	12.4	5.2	7.32
FLARE CONNECTION					
- LIQUID PIPE	inch	1/4"	1/4"	3/8"	3/8"
- GAS PIPE	inch	1/2"	5/8"	3/4"	3/4"
MAX PIPE LENGTH	m	15	15	50	50
MAX HEIGHT DIFFERENCE	m	5	5	30	30
DIMENSION (H X W X D)					
- INDOOR	mm	298 X 575 X 575	298 X 575 X 575	298 X 825 X 825	298 X 825 X 825
- OUTDOOR	mm	541 X 740 X 320	541 X 740 X 320	803 X 800 X 300	1264 X 800 X 300
- GRILLE	mm	30 X 720 X 720	30 X 720 X 720	30 X 960 X 960	30 X 960 X 960
WEIGHT					
- INDOOR	kg	19	19	38	38
- OUTDOOR	kg	52	56	65	92
- GRILLE	kg	2.5	2.5	5	5

**Above design & specifications are subject to change without prior notice for product improvement

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20 YEARS IN INDIA
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Cassette

Cooling Capacity: 5.3-11.7KW

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Features

Features

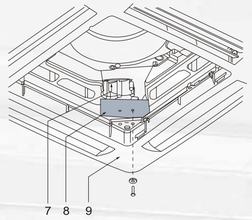
- **Easy in installation**
  Indoor unit
  It is a compact unit with only 298mm high and will occupy less space and it requires less height of rooms, As the four suspension brackets of the unit adopt the T shape opening, it can be installed up and fixed easily.
  Outdoor unit
  300mm super thin design of the outdoor unit lightens the unit, which makes the installation more flexible and convenient.
- **Silent Operation**
  Indoor unit
  The use of anti-vibration pads of the motor makes the motor run quietly and smoothly. The special design of centrifugal fan ensures the quiet running of the indoor unit, All the throttle device is mounted in the outdoor unit. This thoroughly eliminate the bothering throttle noise inside the room. The four flow guide plates used in 40GKX048 reduce further the unit's noise.
  Outdoor unit
  Some units are equipped with hermetic scroll compressors,This can reduce the outdoor unit's noise effectively
- **Reliable and durable**
  Both impeller and motor of the unit are tested strictly in the factory, The outdoor unit uses the hermetic scroll compressor and rotary compressor, All the refrigerant pipes are inspected carefully of leakage to avoid any leak of the refrigerants,The case panel of the unit is galvanized steel panel and is coasted with static electrical powder, while all the screws are stainless so that the units can stand rigorous environment.
- **High efficiency and energy saving**
  The cooling COP of the unit is up to 2.9
- **Easy Operation and Maintenance**
  The air return grill and fan of the indoor unit is easy to be dismantled, There are service valves installed in the pipe of the outdoor unit to facilitate service operation.
- **Other**
  The front panel and grill of the indoor unit are designed by Italian specialists, Stylish appearance makes it suitable to match various room decorations.Special design of air supply assures the fast mixture of supply air and room air.
  High performance condensate drain pump can drain out the condensate water fast and quietly.
  By applying special anti-humidity processing technic, the control board can avoid failures caused by humidity when operating in hot and wet environment.
  The front panel is insulated by special insulation.This can protect the panel against condensation.
  The application of Lanced fin and inner grooved copper tubes largely enhance the coil's heat exchange efficiency, Hydrophilic aluminum fins can avoid cold bridge's generation between fins and decrease air resistance caused by condensate generated during cooling.All these designs, along with the use of high efficient scroll compressor and rotary compressor, ensure the unit's energy saving and economic spending
  The 38GL/YL uses flow control assembly design (38GL048 uses capillary).This can improve the manufacture process effectively and reduce the running vibration, thus ensure the precise, stable and safe throttle.
  Three phase unit is equipped with special phase sequence protection device.
- **Global Modular Control**
  * Self failure diagnose by PCB LED
  * Less terminal connections
  * Optimized defrost logic
  * Enhanced PCB relibility
  * Room Controller can control up to 6 units.

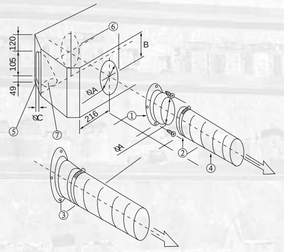
Fresh Air Renewal

Fresh Air Renewal

- Side knockouts allow connection of fresh air inlet ducts and ducts to deliver conditioned air to an adjacent room.
- Remove the external prepunched anti-condensate insulation and take away the knockout panels using a punch.
- Air distribution to adjacent room
- With a pencil, trace a line on the polystyrene around the inside edges of the panel that was previously removed.
  Cut away the polystyrene with a knife, taking care not to damage the heat exchange coil.
- Fresh air intake
- Remove the polystyrene partition.
  Introduce baffle supplied after frame has been hooked as per above figure.
- Following that screw the frame/grille assembly using the 4 screws.
- Use locally purchased material, suitable for operating temperatures of 60°C(continuous).
  Conduits can be of flexible polyester(with spiral core) or corrugated aluminium,externally covered with anti-condensate material(fibre glass from 12 to 25 mm thickness.
  To complete the installation, all non-insulated ducts must be covered with anti-condensate insulation(ex.expanded neoprene,6 mm thickness).
- Not observing of these instructions may cause condensate dripping;the manufacturer will not be held responsible for any damage caused.
  The two prepunched side knockouts must not be used at the same time to deliver conditioned air to an adjacent room.
- The return and supply duct lengths can be calculated in accordance with the "air distribution to an adjacent room" and "fresh air renewal" diagrams (also taking into account the pressure drop through air diffusers, grilles and fresh air filters), as well as the increase in noise caused by these ducts.

Model	036/048
ⓐAmm	150
Bmm	120
ⓒCmm	100

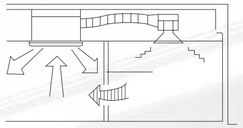




1 Duct connection flange
2 Clip
3 6 mm neoprene gasket
4 Insulated flexible duct
5 Fresh air intake
6 Conditioned air supply to an adjacent room
7 Polystyrene partition
8 Baffle
9 Frame

Conditioned Air Supply to an Adjacent Room

Air Intake Grille



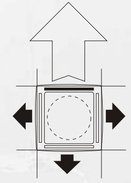
⑩ Wall
⑪ Undercut door
⑫ Wall-fitted grille
⑬ Door-fitted grille

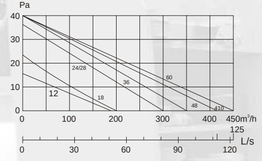
Conditioned Air Supply to an Adjacent Room

- Fresh air renewal
- The supplementary fan motor for outside air intake has to be supplied separately and controlled by a bipolar ON-OFF switch with safety fuses(field-installed).
  To adjust the fan motor air flow to the required values it is advisable to install a speed controller.
- Fresh air flow must be less than 10% of the total air flow to avoid operating problems.

  For fresh air ventilation rates higher than 10%, a primary air treatment system with separate deflectors is recommended.
- Install an air inlet grille with fillter inspection port to prevent dust and dirt from entering and fouling the indoor unit heat exchanger.
  Filter installation also makes the installation of a duct closing damper during shutdown periods unnecessary.
- Conditioned air supply to an adjacent room
- Air supply to an adjacent room requires that the outlet corresponding with the duct is closed,using the air supply outlet obstruction kit supplied.
  The kit cannot be used in units equipped with electric heater.
  An air inlet grille must be fitted(if possible near the floor)between the air conditioned room(where the unit is situated)and the adjacent room or, alternatively, the door must be undercut,as shown in the drawing.
- The duct lengths can be calculated in accordance with the"air distribution to an adjacent room"diagram,also taking into account the pressure drop through air diffusers and fresh air filters.
- DO NOT use active carbon or electrostatic filter kits for ducts towards adjacent rooms.

Supply air duct to adjacent room





In case of two louvers closed, the fresh air flow towards the adjacent room is 50% hight compared with only the louver closed(with equal static external pressure)