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ABOUT CARRIER



In 1915, Carrier was founded by Dr. Willis H. Carrier, the inventor of modern airconditioning. Headquartered in Farmington, U.S.A., Carrier is a leader in providing heating, ventilation, air conditioning and refrigeration (HVACR) systems, controls, service and sustainable building solution for residential, commercial, industrial, good service and transportation application.

Carrier has a manufacturing facility in India, which produces airconditioning and refrigeration equipment for the residential and commercial market. Products manufactured at Carrier India include WRAC, duct free splits, ducted splits, chillers, airside systems, freezers and bus air conditioners.

Carrier is a part of United Technologies Corporation (UTC), which provides high technology products and services to the building systems and aerospace industries worldwide.

MAKING YOU AND THE ENVIRONMENT SMILE!

At Carrier, we firmly believe in making a meaningful difference in people's life by protecting the environment with our environmentally sustainable and energy efficient products. No wonder, when our air conditioners make you smile, the environment smiles with you too!

We care for the environment and it shows...

- Adopted the Energy Efficiency Label issued by BEE, Bureau of Energy Efficiency
- Awarded the first prize for Energy Conservation in Consumer Goods Sector continuously from 2007 till 2011 by Ministry of Power, Govt. of India



		20	I2 R4I0a Pro	duct Line Up)		
	INDOOR UNITS						
	Capacity	I.5TR	2.0TR	3.0TR	4.0TR	5.5TR	8.5TR
	CASSETTE						
	FI	1	<u>.</u>				
R410A	DUCT)		
	OUTDOOR UNITS						
	Capacity	I.5TR	2.0TR	3.0TR	4.0TR	5.5TR	8.5TR
	CASSETTE / DUCT	0	0	0	0	0 -	00





Cassette



Compact Size.

It is a compact unit with only 298 mm height and will occupy less space as 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.

Super thin design of outdoor unit lightens the unit, which makes the installation more flexible and convenient.



Silent Operation

INDOOR UNIT

The use of anit-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 eliminates the bothering throttle noise inside the room. The four flow guide plates used in 40GKX048 further reduce the unit's noise.

OUTDOOR UNIT

Units with capacity >2.0 TR are equipped with hermetic scroll compressors. This can reduce the outdoor unit's noise effectively.





Outdoor Unit

Rotary Compressor

Rotary Compressor is designed to perform efficiently under extreme climatic conditions for I8K and 24K models



Scroll Compressor

The Scroll technology in 36K and 48K models guarantees high volumetric efficiency and low friction losses.



Scroll Compressor

Reliable and Durable 🗕

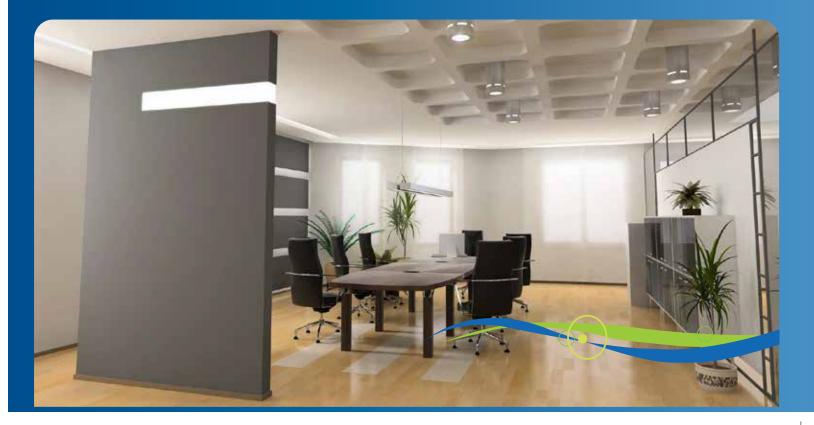
Both impeller and motor of the unit are tested strictly in the factory. The outdoor unit uses the hermetic scroll compressor and rotary compressor. All the refrigerant pipes are inspected carefully of leakage to avoid any leak of the refrigerants. The case panel of the unit is a galvanized steel panel and is coated with static electrical powder, while all the screws are made of stainless steel so that the units can stand in a rigorous environment.



High efficiency and energy saving ____

Helps in saving power consumption, 18K & 24K models are launched with star labeling and are probebly the first ones to enter star band for R410a refrigerant as compared to existing models in market.







Basy Operation and Maintenance

The air return grille 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.



Stylish Panel Design -

The front panel and grille 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.





Fresh Air Intake _

Side knockouts allow connection of fresh air inlet ducts and ducts to deliver conditioned air to an adjacent room.





Voltage Scanner (3 Ph Compressor protection relay) **_**

Voltage Scanner is a protection device added in 36K and 48K models to provide electrical safety to compressor from 3 Phase power issues in field. It provides protection against single phasing or Phase reversal, Phase to Phase Voltage imbalance, wrong Phase sequence or Phase reversal, under voltage and over voltage.





Drain Pump_

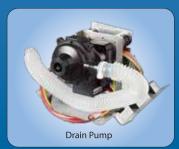
High performance condensate drain pump can drain out the condensate water fast and quietly. By applying special anti-humidity processing technique, the control board can avoid failure caused by humidity when operating in a hot and wet environment. The front panel is insulated by special insulation. This can protect the panel against condensation.



Heat Exchanger _

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 decreases air resistance caused by condensation generated during cooling. All these designs, along with the use of high efficient scroll compressor and rotary compressor, ensure unit's energy saving and economic spending.







Remote Controller __

LCD Display – The remote control has LCD display with following listed functions

- Setting Current Time The up and down button supports in setting the current time.
- $\bullet \ \, \text{Start/Stop Button} \text{This allows switching the air conditioner ON/OFF.}$
- Operating Mode With this button the operating mode of the air conditioner can be selected.
 - Cooling with dehumidification
 - Dehumidification only
 - Ventilation(Fan only)
 - Heating
 - Automatic changeover
- Temperature Setting The up and down buttons will increase the temperature from the previously set value. The temperature can be set between 16° C and 30° C at one degree interval.
- Selecting direction of air flow louver The air flow can be adjusted to optimize air distribution in the room.



Remote Controller







Fan Speed .

This option is to set the fan speed of indoor unit as LOW, MEDIUM or HIGH or AUTOMATIC. In automatic mode fan speed will automatically switch the value required for optimum comfort).



ON/OFF Timer __

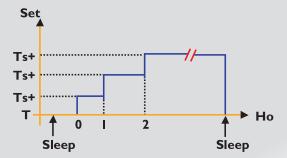
This will activate ON timer setting function, the current clock setting will increase one minute interval on each press.

This will activate OFF timer setting function, the current clock setting will increase one minute interval on each press.



Sleep Timer_

This button will activate the sleep function. Set temperature will be increased or decreased with time. Cool mode sleep profile is as follows:-









	R-410a								
		CASSETTE SPLIT A	IR-CONDITIONERS : TE	CHNICAL SPECIFICATION	ON				
	PARAMETER \ CATEGORY		1.5TR	2.0TR	3.0TR	4.0TR			
	MODEL No (INDOOR)		40GKX018V	40GKX024V	40GKX036GA	40GKX048GA			
	MODEL NO (OUTDOOR)		51MSG-018GRA	51MSG-024GRA	51MSG-036GSA	51MSG-048GSA			
	NOMINAL COOLING CAPACITY*	Btu/Hr	18000	22100	36000	43500			
	NOMINAL POWER INPUT*	Watts	1566	1973	3632	4400			
Į.	BEE STAR RATING**		4 Star	4 star	NA	NA			
GENERAL	RATED POWER SUPPLY	V-Ph-Hz	230 ±10% - 1 - 50	230 ±10% - 1 - 50	400 ±10% - 3 - 50	400 ±10% - 3 - 50			
E	Net WEIGHT - INDOOR/OUTDOOR/GRILLE	Kgs	18/46/2.5	18/55/2.5	38 / 72 / 5	38 / 77 / 5			
	AIR FLOW RATE	CFM	412	500	741	974			
	FAN MOTOR (INDOOR)	# of Speeds	3	3	3	3			
	FAN MOTOR (OUTDOOR)	# of Speeds	1	1	1	1			
	COMPRESSOR TYPE		Rotary	Rotary	Scroll	Scroll			
	Flare Connection: Liquid Line	Inch	1/4"	1/4"	3/8″	3/8″			
	Flare Connection : Gas pipe	Inch	1/2"	5/8"	3/4"	3/4"			
1ZE	INDOOR UNIT (H x W x D)	mm	298 x 575 x 575	298 x 575 x 575	298 x 825 x 825	298 x 825 x 825			
ALL S	PROJECTED GRILLE UNIT (H x W x D)	mm	30 x 720 x 720	30 x 720 x 720	30 x 960 x 960	30 x 960 x 960			
OVERALL SIZE	OUTDOOR UNIT (H x W x D)	mm	692 x 904 x 325	820 x 904 x 325	820 x 904 x 325	695 x 1030 x 435			
INDOOR	SOUND DATA @ 50 Hz	HI/MED/LOW	43.9/39.4/37	49.5/45.5/41.9	46.2/42.2/39.4	53.2/47.2/43.3			
	PRE FILTER		Yes	Yes	Yes	Yes			
	CONTROL TYPE		LCD Remote	LCD Remote	LCD Remote	LCD Remote			
	AUTO OFF TIMER		Yes	Yes	Yes	Yes			
/ 0	AUTO ON TIMER		Yes	Yes	Yes	Yes			
RES	SLEEP MODE		Yes	Yes	Yes	Yes			
FEATURES	DRY MODE		Yes	Yes	Yes	Yes			
FE/	AUTO FAN SPEED		Yes	Yes	Yes	Yes			
	NIGHT TIMER		Yes	Yes	Yes	Yes			
	REAL TIME CLOCK		Yes	Yes	Yes	Yes			
	BATTERIES EXHAUSTED INDICATOR		Yes	Yes	Yes	Yes			
	DAILY TIMER ACTIVE		Yes	Yes	Yes	Yes			

^{*} All Specification as per IS 1391(Part 2): 1992 Room air-conditioner Rounded off as per IS 2: 1960 rules for rounding off numerical values.

**BEE (Bureau Of Energy Efficiency) an autonomous body under Ministry of Power, Government of India, started this initiataive of Star rating basis EER ranging from 1 Star to 5 Star.

Number of Speed Selection (High, Medium, Low).







Ducted (Furred-In)

True to its name, the Furred-In multi-split air conditioner is extremely versatile. The Furred-In compact unit saves your valuable floor space and requires no space for plant room. Furred-In is available in capacity of 1.5 & 2.0 TR.

The Furred-In range is designed with high energy efficient compressors that can uniformly cool any area, corner to corner. All models in this range offer unmatched flexibility with a range of ductable and fan coil indoor units that blend beautifully with any interior.

Features of Furred-In Series ____

- •Saves Space: Sleek, aesthetic indoor units matched to the beam. As a result, it fits unobtrusively above false ceiling. Ideal for architects, interior decorators and consultants.
- •Synthetic Woven Filters: Easy to clean, provides highly effective filtration.
- •Powder Coated Units: Gives durability to the air conditioner.
- Dual Sine Wave Fin Pattern: Higher performance.
- Easy Servicing: The outdoor unit design ensures easy servicing of compressor by making it easily accessible. In the indoor unit, both side panels and the bottom are removable for convenient adjustments or replacement of motor or housing.
- Electronic Remote Control: The system has microprocessor based remote control for precise temperature setting.
- •World-class Service: An extensive and well-equipped network gives you trouble-free service operation.
- Direct Driven DIDW Fan: Provides powerful air throw for uniform distribution over large areas and operates silently.
- •Quick Lock Fittings: Easy and quick Installation.



Synthetic Woven Filters







Pendent Controller_____

Display:

There is 2 digit 7 segment LED Display and 9 LED indicators (Power/Cool/Dry/Sleep/Timer/Auto/High/Med/Low) to display unwritten features:

- Room temperature from 18°C to 29°C
- On/Off Timer Setting I to 24 Hrs
- System Configuration

• keys for different function

(TEMP UP/TEMP DN/ SLEEP/MODE/FAN/TIMER/ON/OFF) settings.

Features:

- On/Off
- Timer (On/Off)
- Mode Selection (Cool/Fan/Dry)
- Room temp setting 18°C to 29°C
- Room & Set Temperature display
- Time(Hrs) Display
- Indoor Fan speed Selection (Low/Med/High/Auto)
- Compressor On/Off delay (3min) for compressor protection
- Auto Restart (Selectable)
- Anti freeze cut protection
- Error indication (EI-Room sensor defective/E2-Coil sensor Defective/E3- Coil temperature<0C)





	R410a							
			FURRED	-IN : Technical Specifi	cation			
			OUTDOOR UNITS					
	PARAMETER/CATEGORY		1.5TR	2.0TR	1.5TR	2.0TR		
	Model No.		42CM-006GA	42CM-008GA	51MSG-018GRB	51MSG-024GRB		
	Nominal cooling Capacity	Btu/hr	17300	21500	17300	21500		
		Kcal/hr	4325	5375	4325	5375		
	Nominal air quantity	CFM	600	800	-	-		
RAI	Power Supply	Volts/Hz/Ph	230 +/-10	0% / 50 /1	230 +/-10% / 50 / 1			
GENERAL		Туре	Direct driven DIDW forwa	ard curved centrifugal blower	Centrifugal Fan			
פֿ	Fan	Qty		2	1			
		Discharge	Horiz	zontal	Horizontal			
		Туре	Permanent Spli	t Capacitor Type	Permanent Split Capacitor Type			
	Fan Motor	Qty		1	1	1		
		Power HP	1,	/ 12	1 / 11'	1 / 7'		
	Fan Speed	RPM	9	40	780 920			
	COMPRESSOR	Туре	-	_	R	otary		
		Qty	-	-	1	1		
	Net Weight	Kg	20	25	42	47		
	Refrigerant R-4			l10a				
OVERALL SIZE	Overall Dimension mm	HxWxD	280 x 1000 x 594	280 x 1290 x 594	692 x 325 x 904	820 x 325 x 904		





Ducted (Furred-In)

The Compressor is the heart of any air conditioning system. So, we decided to bring you the 3TR, 4TR, 5.5 TR and 8.5 TR Scroll Compressors, the best technology that guarantees high volumatric efficiency and low friction losses. They also have low sound and vibration, compared to reciprocating and rotary compressors.

These technological marvels are manufactured in a world-class facility by using the latest machining, assembly, process control techniques and are tested and subjected to abusive test conditions so that they can match stringent quality standards you have set for yourself as a professional.



Indoor Unit __

Compact Size - The indoors have Best in Class height of 345mm in 36K, 48K, 66K and 102K occupies less space, requires less height of rooms and has sleek aesthetics.

Air Filter - The Non-woven synthetic with 90% efficiency traps foreign particles and prevents the entry of dust loaded particles to the heat exchanger.

Expansion Valve - Expansion valve does not allow the liquid refrigerant to feed into the compressor, thereby increasing the life of the unit.



Compact Size



Air Filte



Outdoor Unit_

The Outdoor Condensing unit houses the Scroll Compressor. It gives a wide range of comfort features, especially suited for Indian conditions like wide operating voltage, silent operation, economical running and unmatched reliability.



Scroll Compresso



Voltage Scanner (3 Ph Compressor protection relay)_

Voltage Scanner is a protection device added in all models to provide electrical safety to compressor from 3 Phase power issues in field.

It provides protection against phasing or phase reversal, pPhase to phase voltage imbalance, wrong phase sequence or phase reversal, under voltage and over voltage.



Scanner

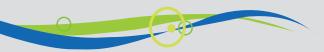


Pendent Controller (for 5.5 TR & 8.5 TR)

Display: Graphics LCD with back light, menu driven, user-friendly screen for different function settings.

Key: 8 keys for different functions and settings, 2 Multi function keys, Up and Down keys, Right and Left Shift Keys, On/Off key, Reset key.

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Keys _

- On/Off
- Built in Real Time Clock
- Auto Re-start
- Mode Selection (Cool/Fan)
- Room Temperature Setting (16° C to 30° C)
- Room Temperature Display
- Indoor Fan Speed Selection (Low/Medium/High)
- Compressor On/Off delay for Compressor Protection
- Fault Indication LP, HP, Sensor Fail
- System Set Up
- Probe Calibration (+-10° C)
- Holiday Exception (20 Holidays)
- Total Run Time Viewing
- Password Protected Menu and Parameter Setting
- 6 Prog. timer with 24 Hr Time Mode for Different Events Setting in a Day
- Weekly Off. (2 Days)
- Fault Logger for Viewing 100 Faults
- Filter Clean Time Setting



D440a												
		R410a										
			DUCTED : TECHNICAL SPECIFICATION									
			INDOOR UNITS				OUTDOOR UNIT					
			3 TR	4 TR	5.5 TR	8.5 TR	3 TR	4 TR	5.5 TR	8.5 TR		
	MODEL No.		40LC004GA	40LC005GA	40LC007GA	40LC010GA	51MSG-036GSB	51MSG-048GSB	38LH-066GSA	38LH-102GSA		
	Nominal cooling Capacity	Btu/hr	36000	48000	66000	102000	36000	48000	66000	102000		
	Tronmar cooming Capacity	Kcal/hr	9000	12000	16500	25500	9000	12000	16500	25500		
	Nominal air quantity	CFM	1200	1600	2200	3400	2400	3000	4250	600		
₹		CMH	2040	2720	3740	5780	4080	5100	7225	10200		
GENERAL	Power Supply	Volts/Hz/Ph	230 +/-10% / 50 /1			400 +/ -10% / 50 /3						
		Туре	Direct	driven DIDW forw	ard curved centrifuç	gal blower	Centrifugal Fan					
כ	Fan/Blower	Qty		2		3	1 2			2		
		Discharge	Horizontal				Horizontal					
	Fan Motor	Туре	Permanent Split Capacitor type				Permanent Split Capacitor Type					
		Qty	1 2		2	1			2			
		Power Watts	125	300	450	450	107	124	370	107		
	Fan Speed	RPM	1050	1380	1350	1350	920	1050	930	920		
	Control Type			Micro prod	cessor-LCD display		-			-		
	Compressor	Туре	-	-	-	-	Scroll					
	Compressor	Qty	-	-	-	-	1					
	Net Weight	kg	50	62	62	110	72	82	03/37/201203/27/2012	225		
	Refrigerant		R-410a			R-410a						
	Expansion Valve		-	-	Thermal Expansion Value	Thermal Expansion Value	Capillary	Capillary				
OVEKALL SIZE	Overall Dimensions mm	(H x W X D)	345 x 1205 x 725 345 x 1720 x 730		320 x 904 x 325	95 x 1030 x 435	875 x 1040 x 410	1055 x 1200 x 602				

