

This year's forecast:  
A relaxed and peaceful summer **Live Unruffled**



**Presenting Ducted Series**



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Genuine Spare Parts and Stabilizer by Carrier

# Carrier India



Dr. Willis Carrier

Carrier is a part of UTC Building & Industrial Systems, a unit of United Technologies Corp.(UTC), a leading provider to the aerospace and building systems industries worldwide. UTC was ranked at 151<sup>st</sup> position in Fortune 500 list of global corporations in 2014.

Built on Dr. Willis Carrier's invention of modern air conditioning in 1902, Carrier's research, expertise and innovation have resulted in market leading solutions. We recognize the vital importance of maintaining a responsible balance between the comfort we create today and the world we live in tomorrow. Millions of people trust Carrier's leadership in delivering efficient solutions. To know more, please visit <http://www.carrier.com>.

Over the years, Carrier India has significantly contributed in promoting sustainability. Carrier is the only company in the world to be a founding member of the Green Building Councils of the U.S., Argentina, China, India, Singapore and France. In fact, Carrier was instrumental in launching the U.S. Green Building Council® (USGBC) in 1993 and was the first company in the world to join the organization.



It invests in R&D resources to advance energy efficiency, ozone layer protection and low global warming technologies in its products. Carrier's AdvanTE<sup>3</sup>C Solutions Center is a natural evolution of Carrier's approach to sustainability and supports customers around the world in developing strategic, energy-efficient and custom-engineered building solutions.

Carrier's efforts in promoting sustainability can be quantifiably measured by means of the Carrier CO<sub>2</sub>NSERVATION Meter, which meticulously calculates the avoided greenhouse emissions with the help of Carrier products, globally since 2000. To know more about the Carrier CO<sub>2</sub>NSERVATION Meter, please visit <http://www.naturalleader.com>.



ACE(Achieving Competitive Excellence) is our proprietary operating system to ensure world-class quality in our products and processes. With its relentless focus on increasing efficiency and reducing waste, ACE is integral to the company's performance model. The company's facilities worldwide are using the operating system to improve quality and customer satisfaction while lowering cost.

Carrier's presence in India dates back to 1986, when Carrier India was established. In the year 1988, the first manufacturing facility was commissioned in Gurgaon, Haryana. Spread in an area of 19 acres, this state-of-the-art facility consists of highly automated manufacturing unit, an excellent R&D Center and an advanced Quality Clinic. Currently, products manufactured in this facility include Cassettes, Ducted Splits, Package Units, Air Cooled & Water Cooled Screw Chillers, Air Cooled & Water Cooled Reciprocating Chillers, Fan Coil Units, Air Handling Units, Refrigeration products and Fire & Security products.

Snapshots of Carrier India manufacturing facility



Our comprehensive Environment, Health & Safety (EH&S) program establishes a framework and provides tools for implementing our EH&S practices into our business & culture. The Carrier Gurgaon facility holds a distinctive record of delivering over 17 million man hours without a lost work day incident, clearly citing the measures of safety followed here.

Carrier India has 14 sales and service offices, more than 800 sales and service channel partners - throughout the country, ensuring efficient solutions and quality services at customer's doorstep. To know more visit <http://www.carrierindia.com>.

## 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.



ODU 5.5 TR & 11 TR\*



ODU 5.5 TR, 11 TR\*\* and 17 TR

\*2 Nos. units required for 11 TR  
\*\*11 TR Single CDU model

## INDOOR UNIT

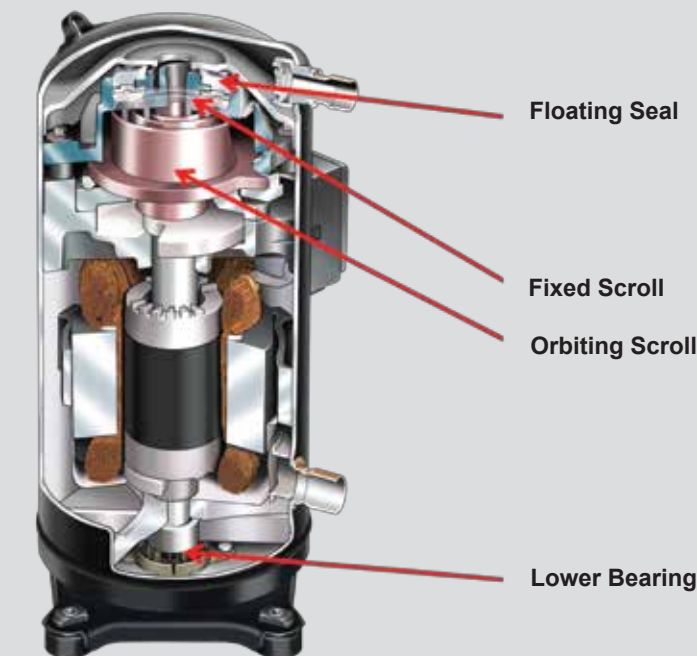
The Indoor Unit houses the Expansion Valve, which does not allow the refrigerant to feed into the compressor, thus increasing the life of the unit. It also houses the Distributor and Microprocessor based controls, which increases the cooling efficiency and ensures trouble-free functioning of the unit.



IDU 5.5TR & 11TR

## COMPRESSOR

The compressor is the heart of the air conditioning system. The scroll compressors in our ducted system guarantees high volumetric efficiency and low friction losses compared to reciprocating and rotary compressors. These compressors have built-in compressor protection which offers enhanced reliability / fault tolerance, easy installation and longer service life.





## CORDED REMOTE CONTROLLER WITH LED DISPLAY

### FEATURES

- On/Off
- Auto Restart (Selectable)
- Mode Selection (Cool/Fan)
- Room Temperature Range (18°C - 32°C)
- Set Temperature Display
- Fault Indication LP, HP, Sensor Fail
- Indoor Blower Speed Selection (Low/Medium/High)
- Compressor ON/OFF Delay for Compressor Protection



LED Controller

## CORDED REMOTE CONTROL WITH LCD DISPLAY

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

**Keys:** 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.



LCD Controller

### FEATURES

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

		Indoor Unit										Outdoor Unit									
		40LC004SDR	40LC005SDR	40LC006SDR	40LC010DR LED & LCD	40LC012DRM	40LC012S	40LC018DR	40LC018HC												
		3.0TR	4.0TR	5.5TR	8.5TR	11.0TR (Ducted Refresh)	11.0TR	11.0TR (High CFM)	17.0TR (High CFM)												
		10551	14068	19343	29894	36687	36687	36687	59789												
		1	1	1	1	1	1	1	1												
		1200	1600	2200	3400	4400	4400	5500	6800												
		0.56	0.75	1.03	1.60	2.07	2.07	2.59	3.20												
		230 ± 10% - 1 - 50																			
		Direct driven DIDW Forward Curved Centrifugal Blower																			
		2																			
		Horizontal/Top																			
		Permanent Split Capacitor Type																			
		1																			
		2																			
		3																			
		Horizontal																			
		2																			
		475 & 370																			
		2250																			
		1500																			
		3750																			
		Microprocessor-LED Display																			
		97.0(0.970)																			
		194.6 (1.946)																			
		68.4(0.684)																			
		—																			
		—																			
		190																			
		175																			
		182																			
		192																			
		Thermostatic Expansion Device																			

		Indoor Unit										Outdoor Unit									
		40LC010DR / LED & LCD	38LH066SDR + 38LH066DRM	38LH066S + 38LH066DRM	38LH100SDR / 38LH100DRM	38LH100S + 38LH100DRM	38LH132S	38LH132S	38LH100SSDR + 38LH100SSDR	38LH100SSDR + 38LH100SSDR											
		8.5TR	11.0TR (Ducted Refresh)	11.0TR (High CFM)	17.0TR (High CFM)	11.0TR	11.0TR	11.0TR	17.0TR (High CFM)	17.0TR (High CFM)											
		29894	36687	36687	59789	36687	36687	36687	59789	59789											
		1	1	1	1	1	1	1	1	1											
		4200	4200	4200	4200	4200	4200	4200	4200	4200											
		1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97	1.97											
		400 ± 10% - 3-50																			
		Propeller Fan																			
		1																			
		Horizontal																			
		Permanent Split Capacitor Type																			
		1																			
		450																			
		370																			
		61.0(0.610)																			
		60.2(0.602)																			
		61.0(0.610)																			
		125.0(1.250)																			
		84.5(0.845)																			
		108.2(1.082)																			
		105.5(1.055)																			
		84.5(0.845)																			
		108.2(1.082)																			
		Scroll																			
		1																			
		1																			
		150																			
		150																			
		R22																			
		Capillary																			

### Carrier Versatech Series

True to its name, the Versatech multi-split air conditioner is extremely versatile. The Versatech compact unit saves your valuable floor space and requires no space for plant room. Versatech is available in capacity of 1.5, 2.0, 3.0, 4.0, 5.0 and 7.5 tons.

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



### Features of Versatech 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
- **Energy Efficient:** High power saving because of unique two or three compressor configurations, which shut off separately. This state-of-the-art feature is from Carrier Corporation, USA
- **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
- **Flexible Air Discharge Options:** The Versatech 5.0 and 7.5 ton come in unique, multiplex configurations, which mean you can switch discharge from horizontal to vertical & vice-versa. depending on where you wish to place the outdoor unit
- **Quick Lock Fittings:** Easy and quick installation
- **3 Levels of Performance:** Versatech 7.5 ton can operate at approx. 100%, 66% or 33% capacity by automatically sensing air conditioning loads, whereas 3.0, 4.0 and 5.0 ton Versatech can operate at approx. 100% and 50% capacity, thereby ensuring low power consumption matched precisely to the load



Parameter	Unit	Indoor Units						
		Ductable Units			Fan Coil Units			
Model Nos.		40LC004R	40LC005R	40LC008	40LC009C	42CX-006	42CX-008	42CM0010DX
Rated cooling capacity		3TR	4 TR	5 TR	7.5 TR	1.5 TR	2 TR	2.5 TR
	Watt	10551	14068	17585	26377	5275	7034	8792
	Btu/h	36000	48000	60000	90000	18000	24000	30000
Nominal Air-Quantity	m <sup>3</sup> /s	0.57	0.75	0.94	1.42	0.28	0.38	0.47
	CFM	1200	1600	2000	3000	600	800	1000
Power Supply	V-ph-Hz	230-1-5-	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
Fan	Type	Direct Driven DIDW forward curved centrifugal fan						
	Quantity	N	1		2		2	
	Discharge	Horizontal						
Fan Motor	Type	Permanent Split Capacitor Type						
	Quantity	N	1		2		1	
	Width	cm (m)	63.3 (0.63)	66 (0.66)	70/67 (0.70/0.67)**	120 (1.20)	121 (1.21)	61.3 (0.61)
Overall Size	Depth	cm (m)	46 (0.46)	46 (0.46)	46 / 49 (0.46/0.49)**	24 (0.24)	31 (0.31)	33.2 (0.33)
	Height	cm (m)	99.1 (0.99)	99.1 (0.99)	116.3 (1.16)	149.6 (1.49)	54.1 (0.54)	129 (1.29)
Compressor	Type	—						
	Quantity	N	—	—	—	—	—	—
Net Weight	Kg	55	57	65	80	20	25	20
Refrigerant		R-22						

Parameter	Unit	Outdoor Units									
		Direct Driven DIDW forward curved centrifugal fan					Permanent Split Capacitor Type				
Model Nos.		51MSG-018RH	51MSG-024RH	51MSC-036DRB	51MSC-048DK	38HO60DK	38LH050TK				
Rated cooling capacity		1.5 TR	2 TR	3 TR	4 TR	5 TR	7.5 TR				
	Watt	5275	7034	10551	14068	17585	26377				
	Btu/h	18000	24000	36000	48000	60000	90000				
Fan Motor	m <sup>3</sup> /s	0.57	0.75	0.94	1.42	0.28	0.38				
	CFM	1200	1600	2000	3000	600	800				
Power Supply	V-ph-Hz	230-1-5-	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50				
Fan	Type	Direct Driven DIDW forward curved centrifugal fan									
	Quantity	N	1		2		2				
	Discharge	Horizontal									
Compressor	Type	Permanent Split Capacitor Type									
	Quantity	N	1		2		1				
	Width	cm (m)	63.3 (0.63)	66 (0.66)	63.3 (0.63)	70/67 (0.70/0.67)**	120 (1.20)	121 (1.21)			
Overall Size	Depth	cm (m)	46 (0.46)	46 (0.46)	46 (0.46)	46 / 49 (0.46/0.49)**	24 (0.24)	31 (0.31)			
	Height	cm (m)	99.1 (0.99)	99.1 (0.99)	116.3 (1.16)	149.6 (1.49)	56.6 (0.57)	54.1 (0.54)			
	Type	—									
	Quantity	N	—	—	—	—	—	—			
Net Weight	Kg	55	57	65	80	20	25				
Refrigerant		R-22									

## Ducted

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 volumetric 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 3TR, 4TR, 5.5TR and 8.5TR 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 Filter



Scroll Compressor



Scanner

### 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.



### 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.

### 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.

### Keys

- On/Off
- Built in Real Time Clock
- Auto Re-start
- Mode Selection (Cool/Fan)
- Room Temperature Setting (16o C to 30o 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 (+-10o 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





DUCTED : Technical Specification													
Parameter	INDOOR UNITS						OUTDOOR UNITS						
	Unit	3TR	4TR	5.5TR	8.5TR	8.5TR	3TR	4TR	5.5TR	8.5TR	8.5TR		
Model No.		40LC004GA	40LC005GA	40LC007GA	40LC010GA	40LC010GA	51MSG-036GGSB	51MSG-048GGSB	38LH-066GSA	38LH-102GSA			
Nominal Air Quantity		36000	48000	66000	102000	102000	36000	48000	66000	102000			
		0.57	0.76	1.04	1.61	1.61	1.13	1.42	2.01	2.83			
		1200	1600	2200	3400	3400	2400	3000	4250	6000			
Power Supply	V/Hz/Ph	230 ± 10% / 50 / 1						400 ± 10% / 50 / 3					
Type		Direct driven DIDW forward curved centrifugal blower						Centrifugal Fan					
Fan/Blower	Quantity	2		3		1						2	
	Discharge	Horizontal						Horizontal					
	Type	Permanent Split Capacitor Type						Permanent Split Capacitor Type					
Fan Motor	Quantity	1		2		1						2	
	Power	300		450		107		930		920			
	Type	—						Scroll					
Compressor	Quantity	—						1					
Net Weight	Kg	50		62		72		82		225			
Refrigerant		R410A											
Expansion Valve		—		Thermal Expansion valve		Capillary		Capillary		—			
	Width	120.5(1.21)		120.5(1.21)		120.5(1.21)		43.5(0.44)		60.2(0.60)			
Overall Dimension	Depth	72.5(0.73)		72.5(0.73)		73(0.73)		103(1.03)		120(1.20)			
	Height	34.5(0.35)		34.5(0.35)		34.5(0.35)		82(0.82)		105.5(1.06)			

## 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.

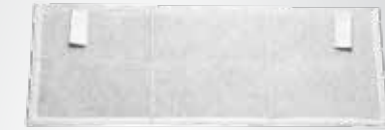
• **Easy Servicing:** The outdoor unit design ensures easy servicing of compressor by making it easily accessible. In the indoor unit, both side panels and the bottom are removable for convenient adjustments or replacement of motor or housing.

• **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:

- 1) Room temperature from 18C to 29C
- 2) On/Off Timer Setting 1 to 24 Hrs
- 3) System Configuration

Keys:

7 keys for different function

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

Features:

- 1) On/Off
- 2) Timer (On/Off)
- 3) Mode Selection (Cool/Fan/Dry)
- 4) Room temp setting 18C to 29C
- 5) Room & Set Temperature display
- 6) Time(Hrs) Display
- 7) Indoor Fan speed Selection (Low/Med/High/Auto)
- 8) Compressor On/Off delay (3min) for compressor protection
- 9) Auto Restart (Selectable)
- 10) Anti freeze cut protection
- 11) Error indication (E1-Room sensor defective/E2-Coil sensor Defective/E3- Coil temperature<0C)



Parameter		INDOOR UNITS		OUTDOOR UNITS	
		Unit			
Nominal Cooling capacity	kW	5.07	6.30	5.07	6.30
	Btu/h	17300	21500	17300	21500
Nominal Air Quantity	m <sup>3</sup> /s	0.28	0.38	—	—
	CFM	600	800	—	—
Power Supply	V/Hz/Ph	230 ± 10% / 50 / 1		230 ± 10% / 50 / 1	
	Type	Direction driven DIDW forward curved centrifugal blower		Centrifugal Fan	
Fan	Quantity	2		1	
	Discharge	Horizontal		Horizontal	
Fan Motor	Type	Permanent Split Capacitor Type		Permanent Split Capacitor Type	
	Quantity	1		1	
Compressor	Type	—	—	Rotary	
	Quantity	—	—	1	1
Net Weight	Kg	20	25	42	47
		R410A			
Refrigerant	Overall Dimensions	Height	28(0.28)	69.2(0.69)	82(0.82)
		Width	100(1.00)	129(1.29)	32.5(0.33)
		Depth	59.4(0.59)	59.4(0.59)	90.4(0.90)