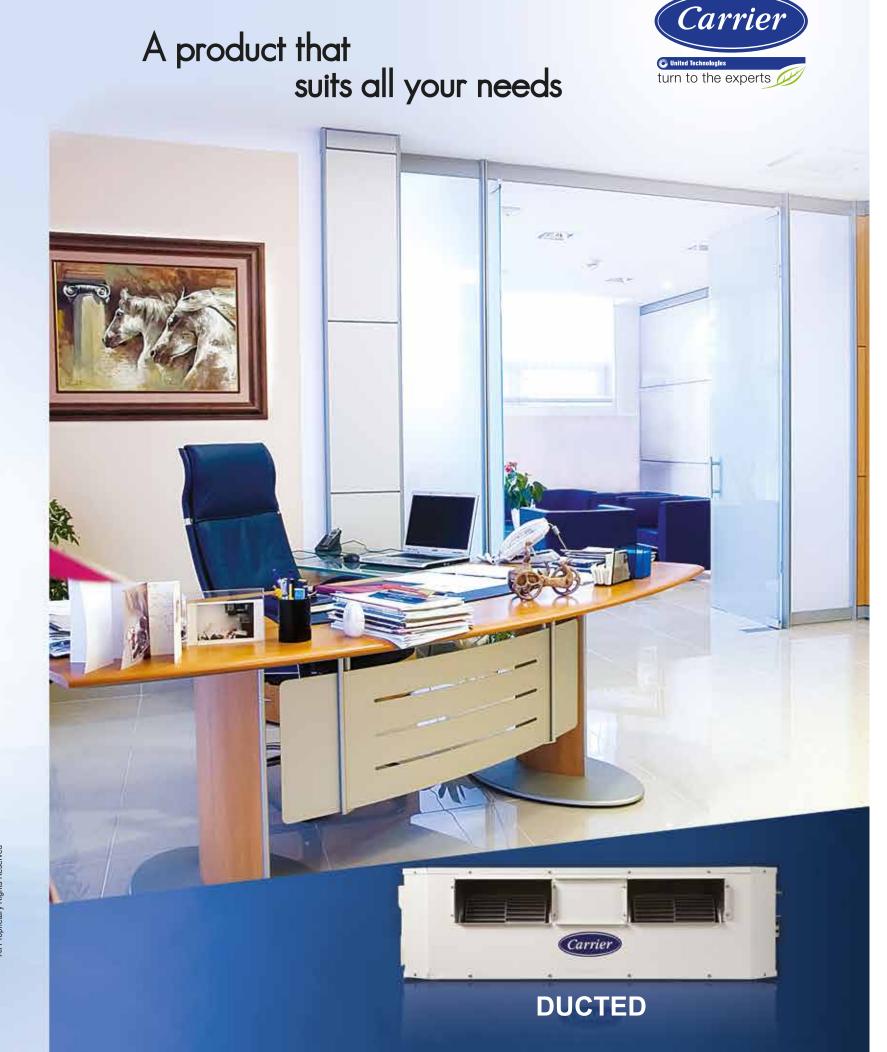
FURRED-IN R410A: TECHNICAL SPECIFICATION

Parameter Model No. Nominal Cooling capacity Nominal Air Quantity Power Supply Fan Fan Fan Fan Motor	Unit kW Btu/h m³/s CFM V-Hz-Ph Type	INDOOR UNITS 42CM-006GA 5.07 17300 0.28 600 230 ± 10% / 50 / 1	UNITS 42CM-008GA	OUTDOO 51MSG-018GRB	OUTDOOR UNITS 3RB 51MSG-024GRB
el No. inal Cooling capacity inal Air Quantity er Supply Motor	kW Btu/h m³/s CFM V-Hz-Ph Type	42CM-006GA 5.07 17300 0.28 600	42CM-008GA	51MSG-018GRB	51MSG-024GRB
inal Cooling capacity inal Air Quantity er Supply Motor	kW Btu/h m³/s CFM V-Hz-Ph Type		9 30		
inal Air Quantity er Supply Motor	Btu/h m³/s CFM V-Hz-Ph Type		20.0	5.07	6.30
inal Air Quantity er Supply Motor	m³/s CFM V-Hz-Ph Type		21500	17300	21500
er Supply Motor	CFM V-Hz-Ph Type		0.38	I	ı
er Supply Motor	V-Hz-Ph Type	230 ± 10%	800	I	ı
Motor	Type		/50/1	230 ± 10%	230 ± 10% / 50 / 1
Motor	1	Direct driven DIDW forward curved centrifugal blower	d curved centrifugal blower	Centrifu	Centrifugal Fan
	Qualilly	2			1
	Discharge	Horizontal	ntal	Horiz	Horizontal
	Type	Permanent Split C	nent Split Capacitor Type	Permanent Sp	Permanent Split Capacitor Type
	Quantity	-			-
	Type	I	ı	Rot	Rotary
	Quantity	I	ı	I	I
Net Weight	Kg	20	25	42	47
Refrigerant			R410A		
Height	cm (m)	28 (0.28)	28 (0.28)	69.2 (0.69)	82 (0.82)
Overall Dimensions Width	cm (m)	100 (1.00)	129 (1.29)	90.4 (0.90)	90.4 (0.90)
Depth	cm (m)	59.4 (0.59)	59.4 (0.59)	32.5 (0.33)	32.5 (0.33)









2

Carrier India



Carrier is a part of UTC Climate, Controls & Security a unit of United Technologies Corp. (UTC), a leading provider to the aerospace and building systems industries worldwide. UTC was ranked at 151st 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 AdvanTE³C 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 CO2NSERVATION Meter, which meticulously calculates the avoided greenhouse emissions with the help of Carrier products, globally since 2000. To know more about the Carrier CO2NSERVATION 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.



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 16 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.

CARRIER VERSATECH SERIES

True to its name, the Versatech multi-split air conditioners are extremely versatile. The Versatech compact unit saves valuable floor space and requires no plant room space. It is available in 1.5, 2.0, 3.0, 4.0, 5.0 & 7.5 TR capacities. All models in this series offer unmatched flexibility within a range of ductable & fan coil indoor units that blend beautifully with any interior.



FEATURES & BENEFITS

Saves Space: Sleek, aesthetic indoor unit that matches 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. Its dual sine wave fin pattern gives high performance

Easy Servicing: The outdoor unit design ensures easy servicing of compressor by making it easily accessible. Both side panels and bottom panel of indoor unit are easily removable for convenient adjustment or replacement of motor or housing.

Efficient Design: Direct driven DIDW fan provides powerful air throw for uniform distribution over large area and operates silently.

Powder coated units give durability to air conditioners.

Flexible Air-discharge Option: Its unique, multiplex configuration helps you switch discharge from horizontal to vertical & vice-versa depending on where you wish to place the outdoor unit.

Installation Ease: Quick lock fittings ensure quick & easy installation.

Electronic Remote Control: The system has microprocessor based remote control for precise temperature setting.



CARRIER DUCTED

With sustained market leadership & strong legacy, Carrier presents a wide range of highly reliable ducted products to suit your needs. It caters to a wide variety of applications such as small offices, big workstation,

The outdoor condensing unit housing the scroll compressor gives a wide range of comfort features, especially suited to Indian conditions such as wide operating voltage, silent operation, economical running and unmatched reliability. Its compact size indoor units with the best-in-class height of 345mm in 3TR, 4TR, and 5.5TR and these models occupy less space and give sleek aesthetics.





FEATURES & BENEFITS



Highly Reliable: Scroll compressor technology with built-in compressor protection offers higher efficiency, minimal noise, enhanced reliability/ fault tolerance, easy installation and longer service life compared to conventional reciprocating & rotary compressors.

Phase sequence protection safeguards the compressor against reverse phase sequencing.



Efficient Performance: Thermostatic expansion valve adjusts refrigerant flow to cater to variations in heat load and make the system more efficient over a broader temperature range. It increases the flow of refrigerant to provide better cooling at higher temperatures. It also prevents liquid slugging, which can damage compressors.

Its high efficiency Double Inlet Double Width (DIDW) fans help realize high savings in the consumption of electricity. The aerodynamic profile of its inlet cone and static & dynamic balancing of the impeller helps reduce noise considerably.

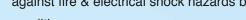
Highly efficient metallic fans, with higher airflow rate, draws more heat across the condensing unit leading to greater cooling capacity.



Filter Drier for liquid line protects refrigeration and air-conditioning system from moisture, acids, and solid particles. With these contaminants eliminated, systems are safer from harmful chemical reactions.







Safe & Reliable operations

Motor capacitors*: Its fan motors equipped with P2 capacitors provide protection against fire & electrical shock hazards by opening an internal link in case of faulty condition

Factory fitted MCB & Scanner*: MCB protects against short circuit & overload condition and provides ease of serviceability. Scanner monitors the health of input voltage & provides protection against reverse rotation of scroll

HP Switch*: The high pressure switch cuts-off power supply in case of excess compressor discharge pressure thereby preventing equipment damage.

LP Switch*: The low pressure switch monitors the refrigeration system for loss of refrigerant charge. It also helps in stopping the evaporator (indoor) coil from freezing due to a clogged/dirty filter or lower airflow over the coil.



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

^{*}applicable to capacities of 5.5 TR and above

6

VERSATECH R22: TECHNICAL SPECIFICATIONS

				INDOOF	DOOR UNITS				
Parameter	neter	Unit		Ductab	Ductable Units			Fan Coil Units	
			3TR	4TR	5TR	7.5TR	1.5TR	2TR	2.5TR
Model Nos	Nos.		40LC004R	40LC005R	40LC006	40LC009C	42CX-006	42CX-008	42CM010DX
		Watt	10551	14068	17585	26377	5275	7034	8792
Nominal Air-Quanity	r-Quanity	s/sm	0.57	0.75	0.94	1.42	0.28	0.38	0.47
		CFM	1200	1600	2000	3000	009	800	1000
Power Supply	Supply	V-ph-Hz	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50	230-1-50
	Type				Direct D	Direct Driven DIDW forward curved centrifugal fan	curved centrifuga	al fan	
Fan	Quantity	z		-		2		2	
1	Discharge			Horizontal		Horizontal/Vertical**		Horizontal	
For Motor	Type				Perm	Permanent Spilt Capacitor type	r type		
	Quantity	z		-		2		-	
	Width	cm (m)	63.3(0.63)	(99.0)99	63.3(0.63)	70/67(0.70/0.67)	121(1.21)	121(1.21)	61.3(0.61)
Overall Size	Depth	cm(m)	99.1(0.99)	99.1(0.99)	116.3(1.16)	149.6(1.49)	56.6(0.57)	(69:0)69	129(1.29)
I	Height	cm(m)	46(0.46)	46(0.46)	46(0.46)	46/49(0.46/0.49)	24(0.24)	31(0.31)	33.2(0.33)
Compressor	Type	I	I	I	I	ı	I	I	I
	Quantity	Z	I	ı	ı	ı	ı	ı	ı
Net Weight	eight	kg	22	25	99	80	30	68	29
Refrigerant	erant					R-22			

	7.5TR	38LH090TK	26377	400-3-50		2	Horizontal/Vertical		2	(99.0)99	120(1.20)	85(0.85)	Recip	က	200		
	5TR	38LH060DK	17585	400-3-50			Horizonta			0)99	120(0)98	Re	2	160		
	4TR	51MSC-048DK	14068	230-1-50	Centrifugal fan		Horizontal	oilt Capacitor		0.44)	103(1.03)	69.4(0.69)	Rotary/Recip	2	78	52	
S	3TR	51MSC-036DRB	10551	230-1-50	Centrif		Horiz	Permanent Spilt Capacitor		43.5(0.44)	103(9.4(Rotary	2	20	R-22	
OUTDOOR UNITS	2TR	51MSG-024RH	7034	230-1-50		1	Horizontal		_	90.4(0.90)	32.5(0.32)	69.2(0.69)	Rotary	-	47		
O	1.5TR	51MSG-018RH	5275	230-1-50			Horiz			90.4(0.90)	32.5(0.33)	(0.00)	Rotary	-	42		
	Unit		Watt	V-ph-Hz		Z			Z	cm (m)	cm(m)	cm(m)		Z	kg		
	Parameter	Model Nos.		Power Supply	Type	Quantity	Discharge	Type	Quantity	Width	Depth	Height	Type	Quantity	Net Weight	lerant	
	Parai	Mode		Power		Fan		Fan Motor			Overall Size		Compressor		Net V	Refrigerant	

Net Weight
Refrigerant
under IS test condit

DUCTED: TECHNICAL SPECIFICATIONS

						ססם	1 E D . 11	DUCTED . I ECHINICAL SPECIFICATIONS	LSPEC	ILICALIC	SNS						
								DUCTED-R22							DUCTED-R410A	R410A	
	Mominal Cooling Capacity		Ш	3.0TR	4.0TR	5.5TR	8.5TR	11.0TR	11.0TR	JTR	11.0TR	17.0TR	17.0TR	3TR	4TR	5.5TR	8.5TR
	Morning Capacity		×	10551	14068	19343	29894	38687	38687	87	38687	59789	59789	10551	14068	19343	29894
	MODEL			40LC004SDR	40LC005SDR	40LC006SDR	40LC010DR	40LC012DRM	40LC012S	112S	40LC012HC	40LC018DR	40LC018HC	40LC004GA	40LC005GA	40LC007GA	40LC010GA
	Nominal Air Ouantity		CFM	1200	1600	2200	3400	4400	4400	0	2500	0089	8500	1200	1600	2200	3400
	ממווווטן און און און און און און און און און או		m3/s	0.57	0.76	1.04	1.60	2.07	2.07	7	2.59	3.20	4.00	0.57	0.76	1.04	1.60
	Power Supply		V-ph-Hz		7	$230 \pm 10\% - 1-50$)				4	$400 \pm 10\% -3 - 5$	5		230 ± 10	230 ± 10% / 50 / 1	
ţiu	Fan/Propeller		Type		Direct driven	Direct driven DIDW Forward Curved Centrifugal Blower	Centrifugal Blower				Belt driven DIDM	Belt driven DIDW forward Curved Centrifugal Blower	ntrifugal Blower	Direct	Direct driven DIDW forward curved centrifugal blower	d curved centrifugal	blower
U 10	Corded Remote Control								Microcontro	Microcontroller - LED display	ay						
opu		Width	cm(m))'69	59.0 (0.59)	75.0 (0.75)	70.0 (0.70)	76	92.5 (0.925)			97.0 (0.970)		72.5(0.73)	72.5(0.73)	72.5(0.73)	73 (0.73)
I	Overall dimensions	Length	(m)mo	120	120.0(1.20)	125.0(1.25)	164.6(1.646)	16	190.0(1.90)			194.6(1.946)		120.5 (1.21)	120.5 (1.21)	120.5 (1.21)	172.0 (1.72)
		Height	cm(m)	31	31.0(0.31)	34.5(0.345)	46.0(0.46)	7	46(0.46)			68.4(0.684)		34.5(0.35)	34.5(0.35)	34.5(0.35)	34.5(0.35)
_	Net Weight		- Kg	39	43	62	91	100	130	130	175	182	192	20	62	62	110
	Expansion Device			1	I		Themo	Thermostatic Expansion Device	evice					I	I	Thermal Expansion valve	nsion valve
			Model	51MSD-036SDR	51MSD-048SDR	38LH066SDR	38H100SDR/ 38LH102HCM	38LH066SSDR S+ 38LH066DRM	38LH132	38LH132LP*	38LH066S+	38LH100SSDR+ 38LH100SSDR+ 38LH100DRM 38LH100SSDR	38LH100SSDR+ 38LH100SSDR	51MSG-036GSB	51MSG-048GSB	38LH-066GSA	38LH-102GSA
_	No. of units		z	-	-	-	-	+	-		+	+	+	-	-	-	-
			CFM	2400	3000	4200	6250	4200	8000	0	4200	6250	6250	2400	3000	4250	0009
	Nominal Air Quantity		m³/s	1.13	1.41	1.97	2.94	1.97	3.76	9	1.97	2.94	2.94	1.13	1.42	2.01	2.83
tinL	Power suppy		V-ph-Hz					400±10%-3-50							400∓1	400±10% / 50 / 3	
סג ר	Fan/Propeller		type	A	Axial				Propeller Fan						Cent	Centrifugal Fan	
nţqo			Type				Perman	Permanent Spilt Capacitor Type	. Type						Permanent Spl	Permanent Split Capacitor Type	эс
0	Fan/Propellor Motor	Power	M	107	125		370		470	0	150	37	370	107	124	370	107 X 2
		Width	cm(m)	32.5(0.325)	32.5(0.325)	41.0(0.410)	61.0(0.610)	41.0(0.410)	60.2(0.602)	.602)	(009.0)0.09	61.0	61.0(0.610)	32.5(0.33)	43.5(0.44)	41(0.41)	60.2(0.60)
	Overall dimensions	Length	cm(m)	90.4(0.904)	90.4(0.904)	104.0(1.040)	98.2(0.982)	104.0(1.04)	120.0(1.20)	1.20)	120.0(1.20)	98.2	98.2(0.982)	90.4(0.90)	103(1.03)	104(1.04)	120(1.20)
		Height	cm(m)	(269.2)(0.695)	82.0(0.820)	87.5(0.875)	108.2(1.082)	87.5(0.875)	105.5(1.055)	.055)	84.5(0.845)	108.2	108.2(1.082)	82(0.82)	(0.70)	87.5(0.88)	105.5(1.06)
	Compressor		Type							Scroll							
	Net Weight		Kg	89	73	112	150	112	175	180	150	150	0	72	82	112	225
	Expansion Device			Cap	Capillary									Capillary	lary		

*For long piping applications up to 50 m.
** Cooling capacities under IS test condit