



DUCTED AIR-CONDITIONING BY CARRIER

R410A REFRIGERANT

PROTECTING THE PROTECTOR OF ENVIRONMENT

Exposure to UV rays can cause wrinkles, leathery skin, liver spots, actinic keratosis, and solar elastosis, and even skin cancer.

The Ozone layer, unarguably the paramount protector of earth against the harmful UV rays is under an existential risk from the substances such as Chloroflurocarbons (CFCs), Hydrochloroflurocarbons (HCFCs) and Halons, commonly used as refrigerants in air conditioning.

The R410A refrigerant is set to change that, drastically.

WHAT IS R410A

- R410A is a Chlorine free refrigerant that meets stringent environmental guidelines
 - ➤ It is a Hydro Fluoro Carbon (HFC) which does not contribute in Ozone depletion. The ODP for R410A is Zero.
 - R410A refrigerant qualifies to be used in Green Buildings as per IGBC guidelines

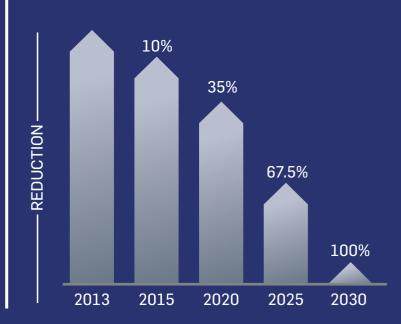


THE MONTREAL PROTOCOL NEED FOR GREENER ALTERNATIVES

The shift to R410A is a step towards gradual phase down of HCFC production and its use, supporting the Montreal Protocol and its amendments for phase-out of Ozone Depleting Substances.

India is a signatory to the Montreal Protocol on Substances that Deplete the Ozone Layer, which envisaged complete phase-out of HCFCs by 2030.

THE PHASE-OUT SCHEDULE





With ducted air conditioning, all rooms are air-conditioned uniformly at the same temperature settings.





CARRIER PRESENTS
THE BEST-IN-CLASS
RANGE OF DUCTED AIR
CONDITIONING SYSTEMS.

They are perfect for homes, open-plan offices, shops, schools, restaurants and any other big-size spaces that require balanced air distribution around the building.

ITS COMFORTABLE, AND ITS RELIABLE.

R410A DUCTED AIR CONDITIONING

With sustained market leadership & strong legacy, Carrier is proud of its highly reliable fixed-speed ducted air-conditioning systems.



R410A DUCTED AIR CONDITIONER:

FEATURES THAT DEFINE A RELIABLE LEADER



HIGHLY RELIABLE

Scroll compressor technology with built-in compressor protection for higher efficiency, minimal noise, enhanced reliability/ fault tolerance, easy installation and longer service life



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



ENERGY EFFICIENT

High power saving compressor configurations. Its dual sine wave fin pattern and internally grooved copper tube gives high performance



EASY SERVICING

The outdoor unit design ensures easy servicing of compressor. 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 indoor (applicable for 8.5Tr IDU only) unit.



INSTALLATION EASE

Quick lock fittings ensure quick & easy installation.



ELECTRONIC REMOTE CONTROL

The system has microprocessor based remote control for precise temperature setting.

SAFE & RELIABLE OPERATIONS



MOTOR CAPACITORS

Its fan motors equipped with S3 capacitors provide protection against fire & electrical shock hazards by opening an internal link in case of faulty condition



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.



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

INBUILT ELECTRICAL SAFETY

- SURGE PROTECTED
- PROTECTION AGAINST REVERSE PHASE SEQUENCE
- UNDER VOLTAGE PROTECTION
- PHASE LOSS PROTECTION
 - OVER VOLTAGE
 PROTECTION
 - IN BUILT COMPRESSOR
 OVER LOAD PROTECTION

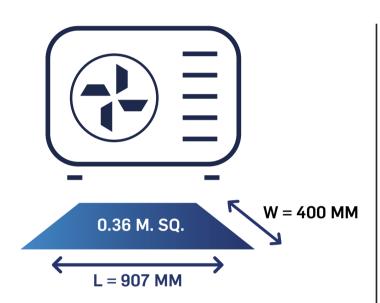


NEW WIRED REMOTE CONTROL



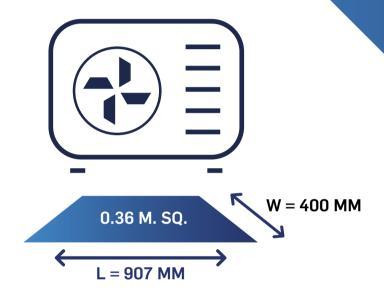
- Smart Time Guard
- ♦ Communication through Modbus protocol on RS485 connection*
- ◆ IR enabled
- ◆ Fault code and logging
- ♦ Audio Alarm for Corded remote disconnect
- ♦ Auto restart enable / disable
- Voltage Scanner status
- Probe calibration
- Filter Clean timer view / Reset
- Staggered start time for multiple Units in same power grid

REDUCED FOOTPRINT



30% 5.5 TR ODU

Lower footprint 5.5Tr ODU compared to conventional 5.5Tr ducted



36% 4.0 TR ODU

Lower footprint 4Tr ODU compared to conventional 4Tr ducted



		3.0 TR DUCTED (R410A)		4.0 TR DUCTED (R410A)		5.5TR DUCTED (R410A)		
		INDOOR UNIT	OUTDOOR UNIT	INDOOR UNIT	OUTDOOR UNIT	INDOOR UNIT	OUTDOOR UNIT	
Model		40LC004GB	51MSG-036GSF	40LC005GB	51MSG-048GSF	40LC-007GB	38LH-066GSC	
Nominal Cooling Capacity*	ninal Cooling Capacity* Ton		3.0		4.0		5.5	
	Btu/hr	38560		48000		66000		
	Watt	11301		14068		19343		
No. of units		1	1	1	1	1	1	
Nominal Air Quantity	СМН	2040	4080	2720	5440	3740	7225	
	СҒМ	1200	2400	1600	3200	2200	4250	
Power Supply (V-ph-Hz)		230 ± 10% - 1 - 50	400 ± 10% -3-50	230 ± 10% - 1 - 50	400 ± 10% -3-50	230 ± 10% - 1 - 50	400 ± 10% -3-50	
Fan	Туре	Direct driven DIDW Forward Curved Centrifugal Fan	Axial	Direct driven DIDW Forward Curved Centrifugal Fan	Axial	Direct driven DIDW Forward Curved Centrifugal Fan	Propeller	
	Qty./Unit	2	1	2	1	2	1	
	Discharge	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	
Fan Motor	Туре	Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type	
	Qty.	1	1	1	1	1	1	
	Power (watt)	125	124	300	350	450	370	
Control Type		LED Display		LED Display		LED Display		
Overall dimensions (mm)	Length (mm)	1205	904	1205	904	1205	904	
	Width (mm)	725	325	725	325	725	325	
	Height (mm)	345	692	345	820	345	820	
Compressor	Туре	-	Rotary Compressor	-	Rotary Compressor	-	Scroll Compressor	
	Qty.	-	1		1	-	1	
Net Weight	Kg	45	65	46	70	60	112	
Refrigerant	Kg	-	R-410A (2.05)		R-410A (2.7)	-	R-410A (3.5)	
Liquid Line	In		3/8"		3/8"		1/2"	
Suction Line	In	-	3/4"		3/4"	-	7/8"	
Expansion Device			Capillary		Capillary	Thermal Expansion Device	-	

^{**} Above design & specification are subjected to change without prior notice for product improvement

^{*} Cooling capacity under IS-8148 test conditions

		8.5TR DUCTED (R410A)		11.0 TR DUCTED (R410A)		17.0TR DUCTED (R410A)	
		INDOOR UNIT	OUTDOOR UNIT	INDOOR UNIT	OUTDOOR UNIT	INDOOR UNIT	OUTDOOR UNIT
Model		40LC-010GB	38LH-102GSC	40LC-012GB	38LH-132GSC	40LC-018GA	38LH-102GSBM 38LH-102GSBS
Nominal Cooling Capacity*	Ton	8.5		11.0		17.0	
	Btu/hr	102000 29894		132000 38687		204000 59789	
	Watt						
No. of units		1	1	1	1	1	2
Nominal Air Quantity	СМН	5780	10625	7480	13090	11560	10625
	СҒМ	3400	6250	4400	7700	6800	6250
Power Supply (V-ph-Hz)		230 ± 10% - 1 - 50	400 ± 10% -3-50	230 ± 10% - 1 - 50	400 ± 10% -3-50	400 ± 10% -3-50	
Fan	Туре	Direct driven DIDW Forward Curved Centrifugal Fan	Propeller	Direct driven DIDW Forward Curved Centrifugal Fan	Propeller	Direct driven DIDW Forward Curved Centrifugal Fan	Propeller
	Qty./Unit	2	1	3	1	2	1
	Discharge	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Fan Motor	Туре	Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type
	Qty.	1	1	2	1	1	1
	Power (watt)	475	470	475 & 370	470	1500	470
Control Type		LED Display		LED Display		LED Display	
Overall dimensions (mm)	Length (mm)	1646	982	1900	1200	1946	982
	Width (mm)	700	610	925	605	970	610
	Height (mm)	460	1100	460	1055	684	1100
Compressor	Туре	-	Scroll Compressor	-	Scroll Compressor	-	Scroll Compressor
	Qty.	-	1	-	1	-	1
Net Weight	Kg	91	135	130	175	182	135
Refrigerant	Kg	-	R-410A (5.6)	-	R-410A (7.2)	-	R-410A (5.7)
Liquid Line	In	-	5/8"	-	5/8"	-	5/8"
Suction Line	In	-	1-1/8"	-	1-1/8"	-	1-1/8"
Expansion Device		Thermal Expansion Device		Thermal Expansion Device		Thermal Expansion Device	

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