



COOLING THAT SUITS YOUR NEEDS

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 Chlorofluorocarbons (CFCs), Hydrochlorofluorocarbons (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

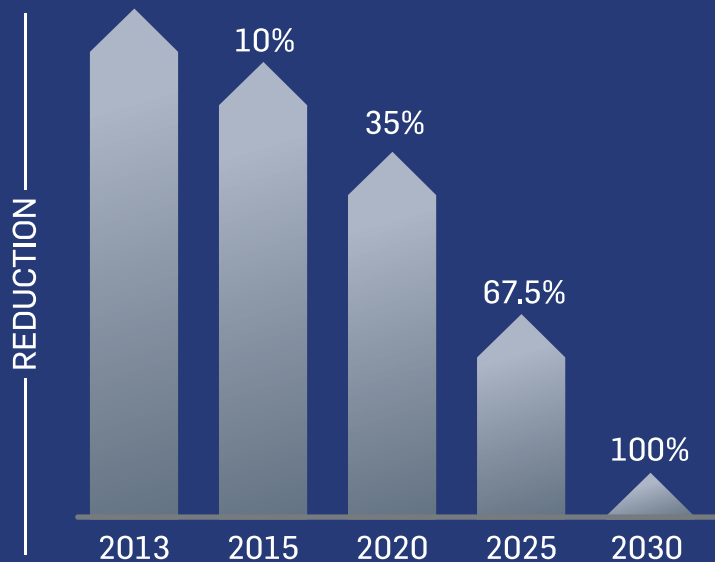


THE MONTREAL PROTOCOL NEED FOR GREENER ALTERNATIVES

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.

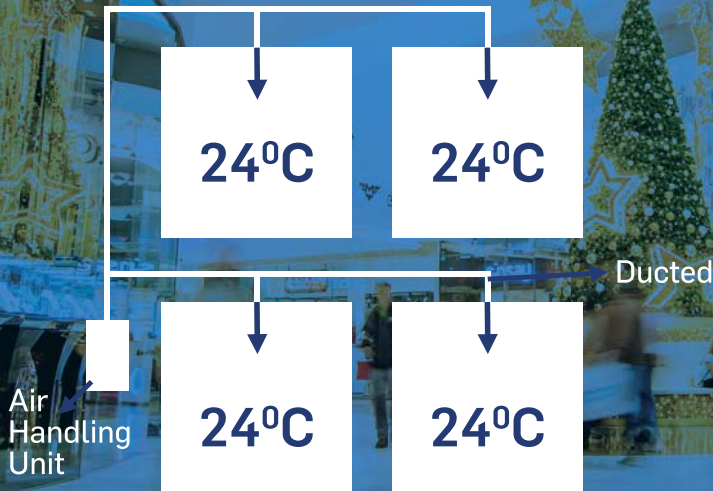
India is a signatory to the Montreal Protocol on Substances that Deplete the Ozone Layer, which envisaged complete phase-out of HCFCs by 2030.

THE PHASE-OUT SCHEDULE



WHAT IS DUCTED AIR CONDITIONING?

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



AIR-CONDITIONING, THE WAY IT SHOULD BE

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.

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.

**For 5.5Tr and above*



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

**for 5.5 TR and above*

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**



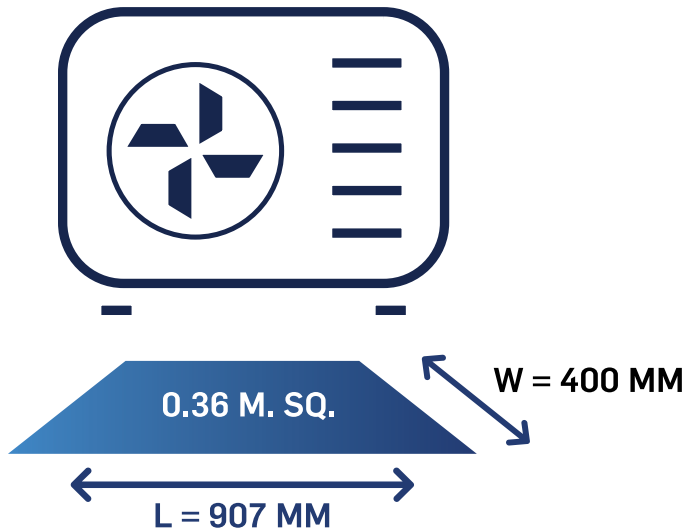
NEW WIRED REMOTE CONTROL



- ◆ 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

**Additional hardware required*

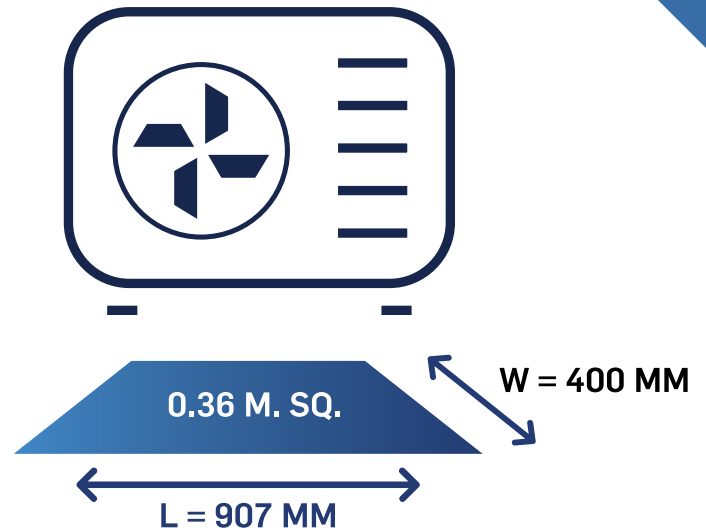
REDUCED FOOTPRINT



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

ADD COMFORT TO YOUR COMMERCIAL SPACE

OFFICES



SHOWROOMS



GYMNASIUMS



BANQUET
HALLS



RESTAURANTS



RETAIL



Model		3.0 TR DUCTED		4.0 TR DUCTED		5.5TR DUCTED	
		INDOOR UNIT	OUTDOOR UNIT	INDOOR UNIT	OUTDOOR UNIT	INDOOR UNIT	OUTDOOR UNIT
		40LC004GB	51MSG-036GSF	40LC005GB	51MSG-048GSF	40LC-007GC	38LH-066GSD
Nominal Static Pr.	Pa	(0) (20)		(0) (20)		(0) (30)	
Nominal Cooling Capacity*	Ton	(3.0) (2.9)		(4.0) (3.9)		(5.5) (5.2)	
	Btu/hr	(38560) (34800)		(48000) (46800)		(66000) (62400)	
	Watt	(11301) (10300)		(14068) (13700)		(19343) (18300)	
No. of units		1	1	1	1	1	1
Nominal Air Quantity	CMH	(2040) (1870)	4080	(2720) (2500)	5440	(3740) (3570)	7225
	CFM	(1200) (1100)	2400	(1600) (1470)	3200	(2200) (2100)	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	Type	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	Type	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	350
Control Type		LED Display		LED Display		LED 7 Segment Display	
Overall Dimensions	Length (mm)	1205	904	1205	904	1250	904
	Width (mm)	725	325	725	325	750	325
	Height (mm)	345	692	345	820	345	820
Compressor	Type	-	Rotary Compressor	-	Rotary Compressor	-	Scroll Compressor
	Qty.	-	1	-	1	-	1
Net Weight	Kg	45	65	46	70	60	65
Refrigerant	Kg	-	R-410A (2.05)	-	R-410A (2.7)	-	R-410A (3.35)
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 designs & specifications are subjected to change without prior notice for product improvement

* Cooling capacity under IS-8148 test conditions

8.5TR DUCTED		11.0 TR DUCTED		11.0 TR DUCTED (Twin CDU)		16.5TR DUCTED (R410A)	
INDOOR UNIT	OUTDOOR UNIT	INDOOR UNIT	OUTDOOR UNIT	INDOOR UNIT	OUTDOOR UNIT	INDOOR UNIT	OUTDOOR UNIT
40LC-010GB	38LH-102GSC	40LC-012GB	38LH-132GSC	40LC-012GC	38LH-066GSM+ 38LH-066GSS	40LC-018GB	38LH-102GSCM+ 38LH-102GSCS
(0) (30)		(0) (40)		(0) (40)		(0) (40)	
(8.5) (8.2)		(11.0) (10.5)		(11.0) (10.5)		(16.5) (16.0)	
(102000) (98400)		(132000) (126000)		(132000) (126000)		(198000) (192000)	
(29894) (28500)		(38687) (37000)		(38687) (36900)		(58028) (56200)	
1	1	1	1	1	2	1	2
(5780) (5440)	10625	(7480) (7055)	13090	(7480) (7055)	7225	(11560) (10710)	10625
(3400) (3200)	6250	(4400) (4150)	7700	(4400) (4150)	4250	(6800) (6300)	6250
230 ± 10% - 1 - 50	400 ± 10% -3-50	230 ± 10% - 1 - 50	400 ± 10% -3-50	230 ± 10% - 1 - 50	400 ± 10% -3-50	230 ± 10% -1-50	400 ± 10% -3-50
Direct driven DIDW Forward Curved Centrifugal Fan	Propeller	Direct driven DIDW Forward Curved Centrifugal Fan	Propeller	Direct driven DIDW Forward Curved Centrifugal Fan	Propeller	Direct driven DIDW Forward Curved Centrifugal Fan	Propeller
2	1	3	1	3	1	3	1
Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal	Horizontal
Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type	Permanent Split Capacitor Type
1	1	2	1	2	1	2	1
475	470	475 & 370	470	475 & 370	350	2400	470
LED Display		LED Display		LED Display		LED Display	
1646	982	1900	1200	1900	904	1946	982
700	610	925	605	925	325	970	610
460	1100	460	1055	460	820	684	1100
-	Scroll Compressor	-	Scroll Compressor	-	Scroll Compressor	-	Scroll Compressor
-	1	-	1	-	1	-	1
91	135	130	175	130	65	182	135
-	R-410A (5.6)	-	R-410A (7.2)	-	R-410A (4.3)	-	R-410A (6.1)
-	5/8"	-	5/8"	-	1/2"	-	5/8"
-	1-1/8"	-	1-1/8"	-	7/8"	-	1-1/8"
Thermal Expansion Device	-	Thermal Expansion Device	-	Thermal Expansion Device	-	Thermal Expansion Device	-

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

* Cooling capacity under IS-8148 test conditions



CARRIER SERVICE HELPLINE
1800 3000 3545
1800 1021 421

For more details, please contact our sales office:

Corporate & Registered Office: Carrier Airconditioning & Refrigeration Ltd, Kherki Daula Post, Narsingpur, Gurgaon 122004, Tel: 0124-4825500
Sales Offices:— Ahmedabad: 079-44820400/401 **Ghaziabad:** 0120-4183260 **Bangalore:** 080-43442000 **Bhubaneswar:** 9778030033 **Chandigarh:** 0172-5007549/50 **Chennai:** 044-66448888 **Cochin:** 0484-4029000/001, **Coimbatore:** 7397444250 **Daryaganj:** 011-23244491, 9810973264 **Delhi/NCR:** 0124-4873200 **Goa:** 9987868667 **Guwahati:** 9831079624 **Hyderabad:** 040-4181 2222 **Indore:** 0731-2445200 **Jaipur:** 0141-4921737 / 738 **Kolkata:** 033-40592000/3000 **Lucknow:** 0522-4158701/704 **Navi Mumbai/Thane:** 9167788252 **Mumbai:** 022-61700700 **Nagpur:** 9881714903 **Patna:** 7070621177 **Pune:** 020-48571000 **Raipur:** 9752542882 **Surat:** 7433920332

CIN: U74999HR1992FLC036104/ **Website:** www.carrierindia.com / **E-mail:** customersupport@carrier.com



This catalogue provides certain general information and is intended for general guidance only and Carrier is not liable for any damage arising out of the use of the catalogue.
The Manufacturer reserves the right to change any product specification without prior notice.
All Proprietary Rights Reserved.