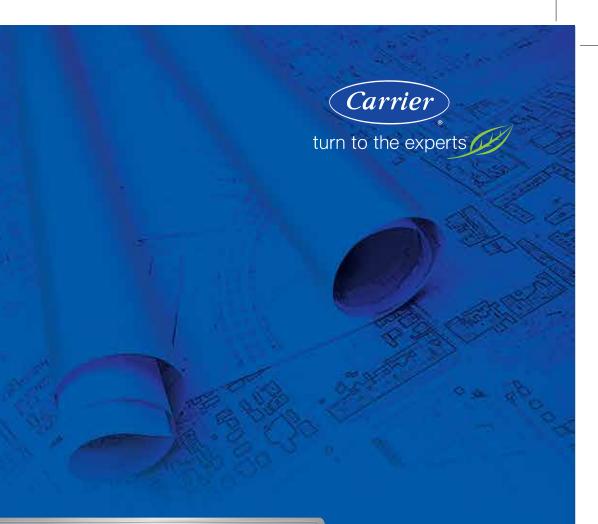
## EVER INNOVATING = EVER EVOLVING = FOREVER EXCELLING

DIGITAL DUCTED SCROLL SERIES With Digital Scroll Compressor















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, services and sustainable building solutions for residential, commercial, industrial, food service and transportation applications.

Carrier has a manufacturing facility in India, which produces airconditioning and refrigeration equipment for the domestic market. Products manufactured at Carrier India include WRAC, duct free splits, ducted splits, chillers, airside systems and truck refrigeration.

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 lives by protecting the environment with our environ- mentally 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 in 2007, 2008 & 2009 by Ministry of Power, Govt. of India.
- Carrier has also won the first prize in "Manufacturers of BEE Star Labeled Appliances (Air Conditioner) Sector' in 2009 and second prize in 2010.



Carrier presents Digital Ducted Series, the first of its kind R410a ducted product ever to be sold in India. These aesthetically designed, feature-packed products are the result of years of research undertaken by Carrier.

Cutting-edge innovation and state-of-the-art technology of the Digital Ducted Series make them amazingly energy efficient and also easy to use. With the Digital Scroll Compressor, Electronic Expansion Valve (EXV) and Cordless Remote (optional), this premium series product is miles ahead of existing ducted systems.

same time.





The next generation Variable Capacity Compression Technology is here.

It's time to embrace a technology that protects the environment and saves energy at the

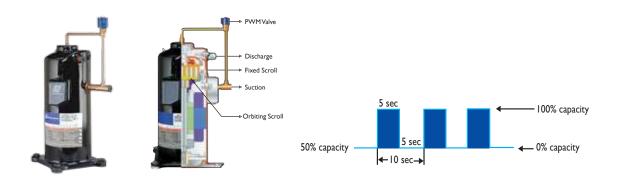


# KEY COMPONENTS

DIGITAL

### Digital Scroll Compressor

Digital Scroll is the next generation of variable capacity compression technology. Digital Scroll compressor can operate under wide capacity range from 30%-100% which means a reduced number of start stops and better efficiency at part loads. The Digital Scroll compressor provides real step-less energy adjustment and has a long life span as the PWM solenoid valve can be used 40 billion times on an average, equivalent to 30 years of lifespan.



Digital Scroll System applies the axial compliant sealing technology which ensures high efficiency and stability of the refrigerant compressed.

Digital Ducted system causes no electromagnetic interference since the loading and unloading of compressor are merely mechanical movements. This special feature makes Digital Ducted system suitable for any comfort application.

GITAL
UCTED

### Heat Exchanger

Carrier's Digital Ducted has Heat Exchanger which has thicker tubes that are internally grooved to deliver high efficiency and ensures safe operation of the system during high ambient conditions.



### Electronic Expansion Valve

The Digital Ducted indoor unit uses the Electronic Expansion Valve, which helps in maintaining faster and accurate temperature control inside the room for better comfort. It also does not allow the liquid refrigerant to feed into the compressor, which improves reliability and thus increases life of the unit.





Accumulator

Accumulator is used to prevent liquid refrigerant from entering into the compressor in low load conditions which ensures high system reliability.

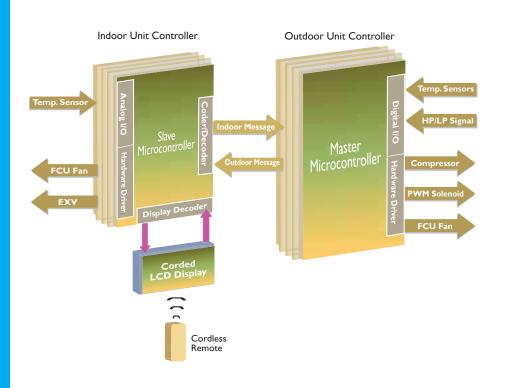


4



Controller

The indoor and outdoor unit controllers form a master-slave control system. The indoor and outdoor controllers exchange the system status and user inputs to control compressor capacity with help of modulation.

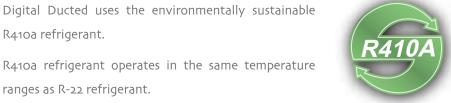




ranges as R-22 refrigerant.

R410a Refrigerant

Digital Ducted uses the environmentally sustainable R410a refrigerant.







Carrier Digital Ducted maintains precise control of room temperature ( $\pm 0.5^{\circ}$ C) and creates a comfortable environment.

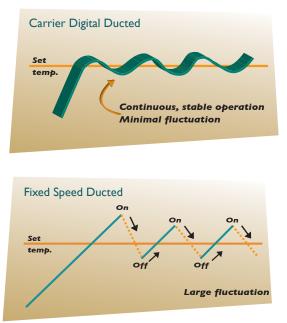
In fixed units the compressor switches off once the set temperature is reached and switches on again after the temperature drops. The time it takes for the compressor to switch on and off causes the room temperature to greatly fluctuate.

Carrier Digital Ducted, reduces the compressor power once the desired temperature has reached, but continues operating at reduced state to maintain a stable room temperature with minimal fluctuations.



# **KEY BENEFITS**

### Precise temperature control and improved comfort



### 5th Colour Sliver





#### Power savings

In any standard fixed capacity AC equipment, the output from the machine is either "full capacity" or "no capacity". This is a function of the compressor switching "on" when there is full capacity output and switching "off" when there is zero capacity output. Digital Scroll technology operates on the principle of loading and unloading of scrolls. The motor runs at a constant speed but the scrolls are engaged and disengaged periodically to get duration of "full capacity" and "no capacity". Time averaging of the loading and unloading state results in variable capacity output.

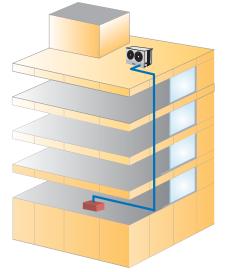
Carrier Digital Ducted delivers high efficiency which provides efficient cooling while lowering the power consumption. Most of the air conditioning equipment operates at less than full load during major part of its operation. And at part load operation, Carrier's Digital Ducted with its wide operating capacity range can help achieve significant energy savings through out the year.



	FIGINAL
5	
1	

### Layout Flexibility

Carrier Digital Ducted system can use a maximum piping length of 50 mtrs. This makes it much easier to design for floors with many small rooms, or for tenants who often rearrange their floor layouts.





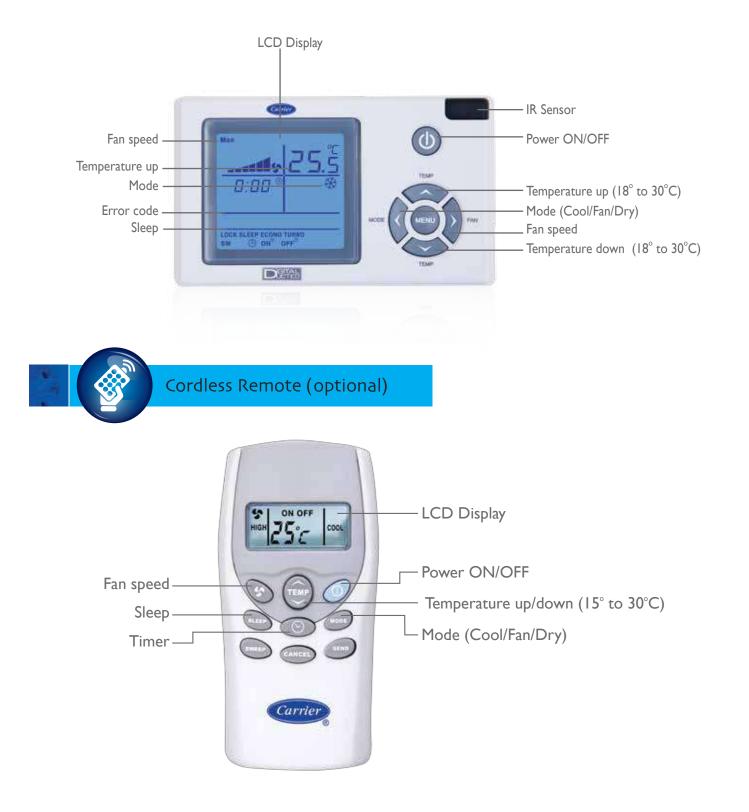
Carrier Digital Ducted has compact indoor unit with height of just 345mm. The indoor unit also houses the distributor and microprocessor based controls, which increases the cooling efficiency and ensures trouble free functioning of the unit.

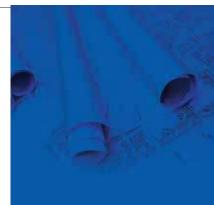




Carrier Digital Ducted corded controller comes with backlit LCD display. It also has a menu driven display and user friendly screen for different function settings.

There are 6 keys for different functions and settings, Temp. Up/Down, Fan Mode ON/OFF and Menu Key.





Model Nominal

> No. Of Ur Nominal

> Power Su Fan

Fan Mot

Speed RF

Control<sup>®</sup> Overall

Dimensi

Cabinet

Compres

Net Weig Refrigera

Expansio

Above design & specific

9



		INDOOR UNIT	OUTDOOR UNIT	
		40LC-006DS-7	38LH-066DS-7	
Cooling Capacity*	5.5TR			
	Btu/hr	66000		
	Kcal/hr	16500		
Jnits		I	I	
l Air Quantity	CFM	2200	-	
	СМН	3740	-	
Supply (V-ph-Hz)		230+/-10%-1-50	400 +/-10%-3-50	
	Туре	Direct Driven DIDW Forward Curved Centrifugal Fan	Propeller	
	Qty.	2	2	
	Discharge	Horizontal	Horizontal	
tor	Туре	Permanent Split Capacitor Type		
	Qty.	I	2	
	Power Hp. (watt)	(450)	1/7 (107)	
RPM	Hi	1350	920	
	Med	1300	-	
	Lo	1250	-	
Туре		Microprocessor with Digital Display		
	Width	1250	1250	
ions (mm)	Height	345	845	
	Depth	750	600	
:	Depth	725	600	
	Width	1203	1200	
essor	Туре	-	Digital Scroll	
	Make	-	Emerson	
	Qty.	-	I	
	Model	-	ZPD72KCE-TFD-532	
ight (Kg)		62	160	
rant		-	R410a	
on Device		Electronic Expansion Device	-	

pecifications are subject to change without prior notice.

# Option-2



Carrier Digital Ducted corded controller comes with backlit LCD display. It also has a menu driven display and user friendly screen for different function settings.

There are 6 keys for different functions and settings, Temp. Up/Down, Fan Mode ON/OFF and Menu Key.







		INDOOR UNIT	OUTDOOR UNIT	
Model		40LC-006DS-7	38LH-066DS-7	
Nominal Cooling Capacity*		5.5TR		
	Btu/hr	66000		
	Kcal/hr	16500		
No. Of Units		I	I	
Nominal Air Quantity	CFM	2200	-	
	СМН	3740	-	
Power Supply (V-ph-Hz)		230+/-10%-1-50	400 +/-10%-3-50	
Fan	Туре	Direct Driven DIDW Forward Curved Centrifugal Fan	Propeller	
	Qty.	2	2	
	Discharge	Horizontal	Horizontal	
Fan Motor	Туре	Permanent Split Capacitor Type		
	Qty.	I	2	
	Power Hp. (watt)	(450)	1/7 (107)	
Speed RPM	Hi	1350	920	
	Med	1300	-	
	Lo	1250	-	
Control Type		Microprocessor with Digital Display		
Overall	Width	1250	1250	
Dimensions (mm)	Height	345	845	
	Depth	750	600	
Cabinet	Depth	725	600	
	Width	1203	1200	
Compressor	Туре	-	Digital Scroll	
	Make	-	Emerson	
	Qty.	-	l	
	Model	-	ZPD72KCE-TFD-532	
Net Weight (Kg)		62	160	
Refrigerant		-	R410a	
Expansion Device		Electronic Expansion Device	-	

Above design & specifications are subject to change without prior notice.