

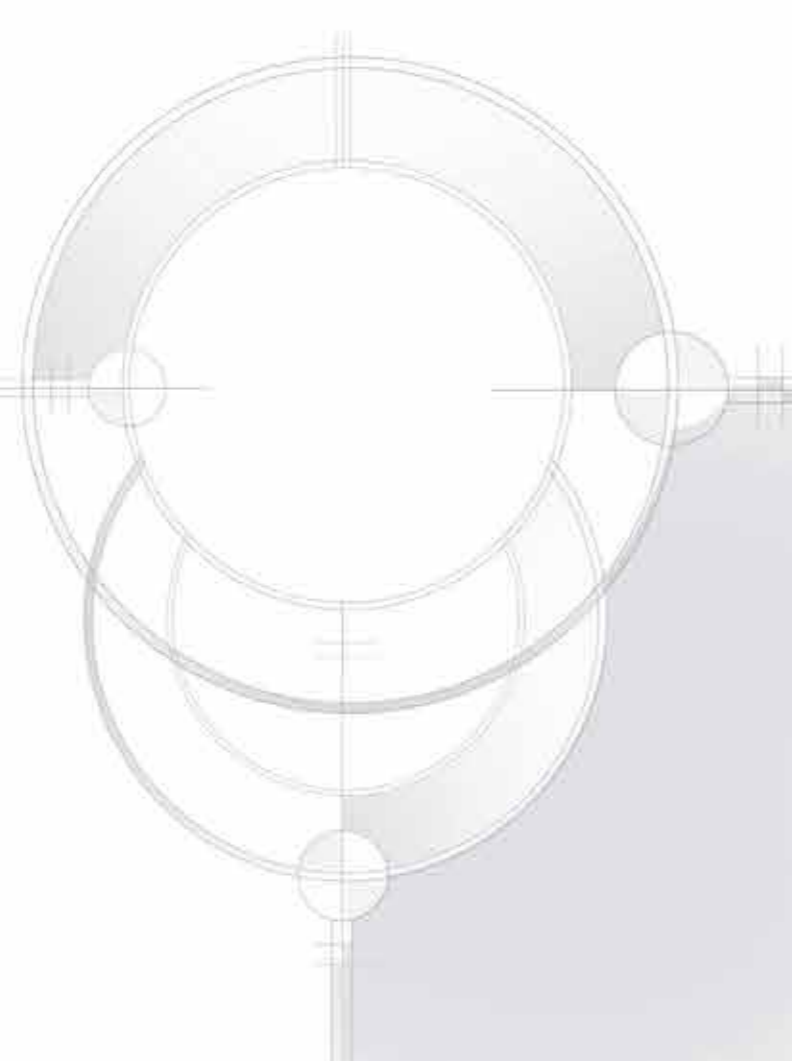
Grill:

Grill louvers are designed as such to maximize return air flow to the unit .



MOTOR:

Package units contain direct driven 3 Phase efficient Indoor fan motor.



Air Cool Package 11TR/17TR						
		Indoor Unit		Outdoor Unit		
Model		CPI132D3A	CP066D3A	CPI204D3A	CP102D3A	
Nominal Cooling Capacity		11.0TR		17.0TR		
	Btu/hr	132000		204000		
	Kcal/hr	33000		51000		
No. of Units		1	2	1	2	
	Nominal Air Quantity	CFM	4400	4200	6800	6250
		CMH	7480	7140	11560	10625
	Power Supply (V-ph_Hz)	400 ± 10% - 3-50		230 ± 10%-1-50		
	Type	Direct driven DIDW Forward Curved Centrifugal Fan		Propeller		
	Blower / Fan	Qty.	1	1	2	1
	Discharge	Top		Horizontal		
	Type	3 Phase-Totally enclosed		1 Phase (PSC)		
Fan Motor	Qty.	1	1	1	1	
	Power HP (Watt)	1.5(1100)	1/2(370)	2.0(1500)	1/2 (370)	
Speed RPM	RPM	930	900	930	900	
Control Type	LED controller		LED controller			
	Width	750	1040	750	982	
Overall dimensions (mm)	Height	1825	875	1825	1082	
	Depth	1255	410	1685	610	
	Compressor	Type	Scroll		Scroll	
	Qty.	2	-	2	-	
	Net Weight	Kg	350	75	400	91
Refrigerant/Circuit (R-22)	Kg	4.65		7.25		
Interconnection						
Discharge	inch	5/8"		7/8"		
	inch	1/2"		5/8"		
Expansion Device	Thermostatic Expansion Device		Thermostatic Expansion Device			

Above design & specifications are subject to change without prior notice.
Notes 1: Refrigerant to be charged in field isolation/service valves to be fitted in field
Note:-2 (Factory Fitted): Model has voltage protection scanner high pressure/low pressure cut of switch MCB for power isolation



For more details please contact the following Carrier sales offices:-
CARRIER REGISTERED OFFICE: Carrier Airconditioning & Refrigeration Ltd., Carrier Complex, Vill. Narsingpur, Kherki Daula Post, Gurgaon-122004, Haryana; Phone No.: 0124-4825500. **CARRIER SALES OFFICES:** Gurgaon: 0124-4707311, Ghaziabad: 0120-4183260, Chandigarh: 0172-5007550-53, Jaipur: 0141-4109080, Mumbai: 022-42188800, 26528989, Pune: 020-41051000, Goa: 022-42188800, 26528989, Ahmedabad: 079-40267777, Kolkata: 033-40201300, Chennai: 044-42222888, Bangalore: 080-43442000, Patna: 9931199442, Hyderabad: 040-45462896, Cochin: 0484-4029001, Lucknow: 0522-4158700, Indore: 0731-4294700, Pondicherry: 9840921364, Coimbatore: 9840921359, Guwahati: 09830028670, 09831035510, Bhubaneswar: 9437067440, Nagpur: 9158911676, Ranchi: 9931199442, Raipur: 9158911676.

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Cooling You and the Nature, Naturally

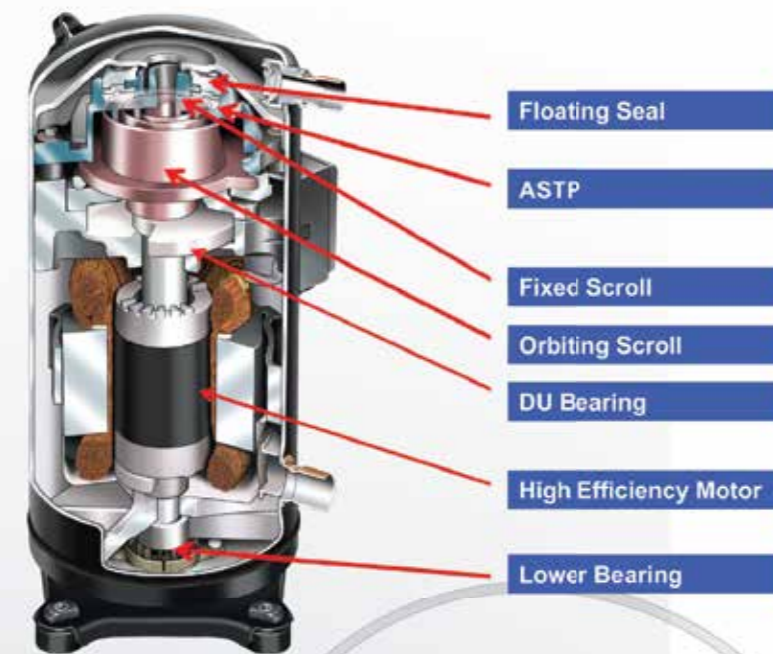
Air Cooled Package Units:

The Air Cooled Package system can be used in commercial buildings and offices where cooling load requirement is high. Their multi-circuit design allows part load operation and provides automatic back-up in case of one circuit failure, thereby increasing efficiency as well as reliability.

The Package unit is composed of two units, one installed outside and the other inside, which are interconnected after positioning. Indoor unit (evaporator coil unit /fan coil unit) pulls heat out from the surrounding air while the outdoor unit (condensing coil unit) transfers the heat into the environment.

Compressor:

Scroll compressors are used in both 11TR & 17TR 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 & subjected to abnormal test conditions so that they match the stringent quality standards.



Outdoor Unit:

The outdoor condensing unit houses fan and motor to remove heat from condenser coil. It gives a wide range of comfort features especially suited for Indian conditions like wide operating voltage, silent operation, economical running and unmatched reliability.



Outdoor Unit 17TR



Outdoor Unit 11TR

INDOOR UNIT

The indoor unit contains electrical panel scroll compressor, filter drier, TXV, evaporator coil, air filter, blower, blower motor and grill. Both the indoor and outdoor units are connected through copper tubing and electrical cabling.



Inbuilt Protection Device:

1. MCB (Miniature Circuit Breaker)
MCB isolates power supply of the unit from the main power source. It also protects unit in case of electrical fault like overload or short circuit.



MCB

VOLTAGE SCANNER



2. VOLTAGE SCANNER (3-phase compressor protection relay):- It is a stand-alone microcontroller based protection device which is to provide electrical safety of 3-phase compressor and fan motor from abnormal voltage conditions in field. It provides electrical protection against Phase reversal, Phase Loss, Phase to Phase voltage unbalance and Over & Under voltage. It has LED indications for power status.

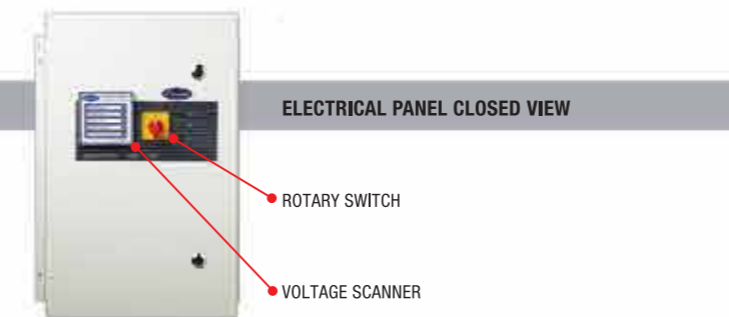
ELECTRICAL PANEL

Electrical Panel is mounted on the Package Unit therefore easy to access and self-sufficient to protect the product from any abnormal operating conditions.

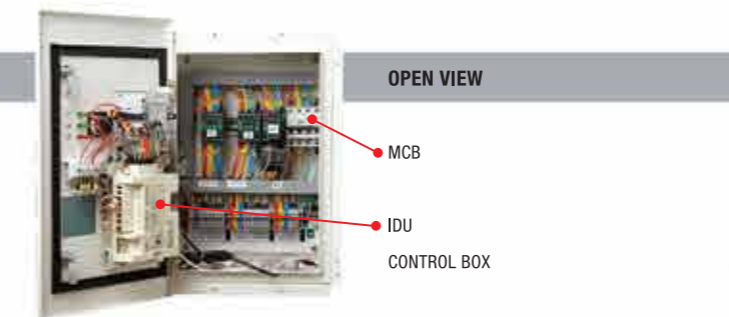
The rotary switch enables to turn ON /OFF main power supply to the Package Unit

It drives both systems (S1 & S2) and consists of electrical devices & microcontroller based IDU control box along with corded remote control, which has seven segment LED display.

Controls two compressor systems (C1 & C2) of product as per inbuilt logic function in microcontroller which is embedded inside the IDU control box.



ELECTRICAL PANEL CLOSED VIEW



OPEN VIEW

MCB

IDU CONTROL BOX

CORDED REMOTE CONTROL

IDU control box is microcontroller based device which controls product functions as per customer settings. It has a corded remote control with seven segment LED display (two digits)

Features:

- Seven segment LED display (two digits)
 - ON Compressor (C1 or C2 / C1 & C2)
 - Set temperature (18°C to 32°C)
 - Error Code indication (L1/L2/H1/H2/F3/F4/E1)

LED indication	Status
RED	Power ON FAN mode Selected SYSTEM (S1/S2)
GREEN	Compressor ON (C1/C2)

3. Function Keys

- MODE: Press to select mode of operation (COOL/FAN)
- SET TEMPERATURE: Press UP/DOWN key to select set temperature value
- ON/OFF: Press to turn ON/OFF the unit
- MEMORY ON/OFF SLIDE SWITCH: This switch is to memorize last setting and auto restart unit on power restart

4. System Protection

- Compressor Delay Protection:
 - ON Delay - If unit is restarted by corded remote control then compressor will restart after 2 mins of delay
 - OFF Delay - If unit is turned OFF by corded remote control then IDU blower motor & compressor will turn OFF after 15 seconds of delay

During ON / OFF delay times, respective LED of active compressor will blink.

Error indication provision:

To protect the product, in case of any error in system like HP/LP pressure fault or room temperature sensor fault, respective error code will be generated on seven segment LED display (two digits). This error code would be cancelled once error is being rectified.



Corded Remote Control

