

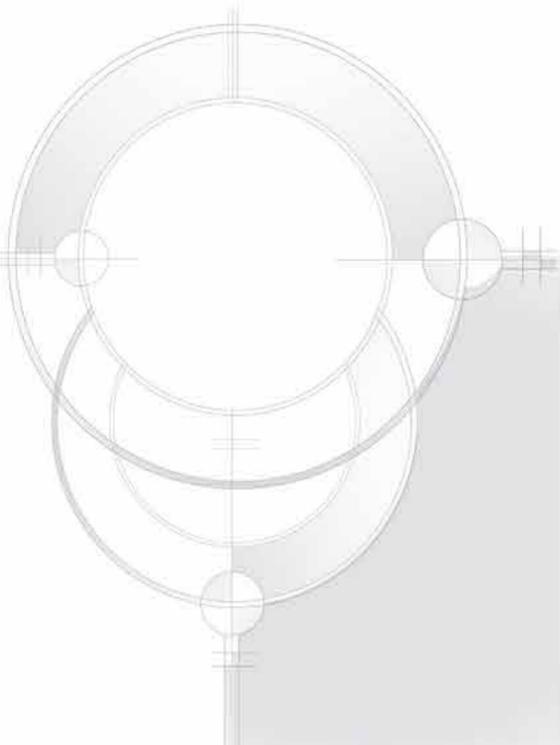
Grill:

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					
		Indoor Unit	Outdoor Unit	Indoor Unit	Outdoor Unit
Model		CPI132D3A	CP066D3A	CPI204D3A	CP102D3A
Nominal Cooling Capacity		11.0TR		17.0TR	
	kW	39kW		60kW	
No. of Units		1	2	1	2
Nominal Air Quantity	m ³ /s	3.53	3.371	5.46	5.02
Power Supply (V-ph_Hz)		400 ± 10% - 3-50	230 ± 10%-1-50	400 ± 10%-3-50	230 ± 10%-1-50
Blower / Fan	Type	Direct driven DIDW Forward Curved Centrifugal Fan	Propeller	Direct driven DIDW Forward Curved Centrifugal Fan	Propeller
	Qty.	1	1	2	1
	Discharge	Top	Horizontal	Top	Horizontal
	Type	3 Phase-Totally enclosed	1 Phase (PSC)	3 Phase-Totally enclosed	1 Phase (PSC)
Fan Motor	Qty.	1	1	1	1
Fan Motor Power	W	1100	370	1500	370
Speed	RPM	930	900	930	900
Control Type		LED controller		LED controller	
Overall dimensions	Width(cm)	75	104	75	98
	Height(cm)	183	88	183	108
	Depth(cm)	126	410	169	61
Compressor	Type	Scroll	-	Scroll	-
	Qty.	2	-	2	-
Net Weight	Kg	350	75	400	91
Refrigerant/Circuit (R-22)	Kg	4.65		7.25	
Discharge	inch	5/8"		7/8"	
Liquid	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



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Cooling You and the Nature, Naturally

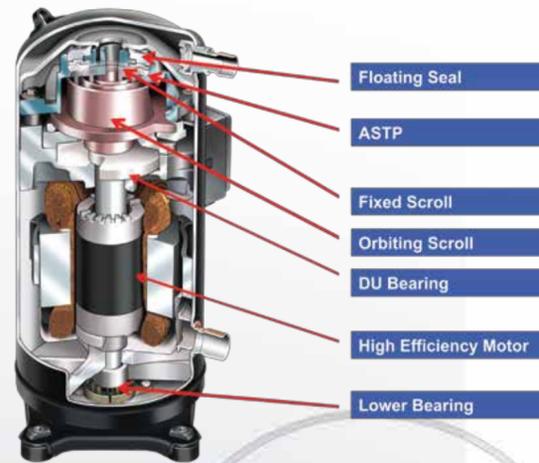
Air Cooled Package Units:

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 39 kW & 60 kW 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 39 kW



Outdoor Unit 60 kW

INDOOR UNIT

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



Indoor Unit

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.

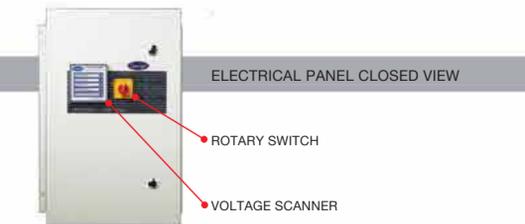
ELECTRICAL PANEL

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

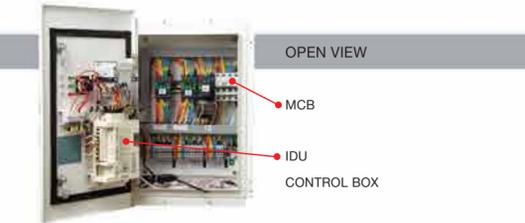
The rotary switch enables to turn ON /OFF main power supply to the Package Unit

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) |



Corded Remote Control

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.

