

Plot No. 16, Udyog Kendra, Ecotech III, Greater Noida- 201306, Uttar Pradesh

Test Laboratory Discipline: Electrical Testing

Test Laboratory Group: Domestic Electrical Appliances

Test Report Cooling Capacity Test for Split Type (Inverter) Air Conditioner

1. General Information

Laboratory Name	Testing Laboratory, Ezentech India Pvt. Ltd.		
Address	Plot No. 16, Udyog Kendra, Ecotech III, Greater Noida- 201306, Uttar Pradesh.		
Date of Unit Receipt	13.11.2022		
Test Report No.	202211150005285		
ULR	TC95962200000054F	Date Of Testing	15.11.2022
UID	ES1311E015	Date Of Issued	04.12.2022
Tested By	Ashu Singh	Approved By	Hira Lal

2. Details of the Sample Tested

Customer Name / Address	Comtech Enterprises T-29/78, 2 nd Floor Baljeet Nagar New Delhi-110008.		
Brand Name	INDcool		
Model	IDCACS24K3I	Year Of Manufacture	2022
Indoor Model No.	IDCACS24K3I	Outdoor Model No.	IDCACS24K3I
Indoor Serial No.	IDCACS24K300000001	Outdoor Serial No.	IDCACS24K300000001
Refrigerant Type	R-32	Refrigerant charged(Kg)	0.770 Kg
Test Standard	The test standards adhered to in this test was: IS 1391 (Part 2): 2018 ; Standard Incorporating Amendment 4, June 2021		

Standard Cooling at Full Capacity (W)	6200	Standard Cooling at 50% of Full Capacity (W)	3100
Rated Power Consumption (in W) at Standard Cooling at Full Capacity	1950	Rated Power Consumption (in W) at Standard Cooling at 50% of Full Capacity (W)	760
Rated Frequency (in Hz) at Standard Cooling at Full Capacity	90Hz	Rated Frequency (in Hz) at Standard Cooling at 50% of Full Capacity	37Hz
Rated Power Supply (V, Hz, ϕ)	230V, 1 Phase, 50Hz	Nominal Current (A)	8.48
Rated CSEC (kWh)	1231.15	Rated CSTL (kWh)	4799.36
Rated ISEER	3.90	Star Rating	3

Tested By


(Lab Engineer)



Approved By


(Technical Manager)

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3. Measuring Equipment and Instruments details

Sr. No.	Instrument / Equipment Name	Make	Accuracy Class	Range	Cal. Valid Date
1.	Psychrometric Calorimeter Method	Testing Laboratory, Ezentech India Pvt. Ltd.	± 1.11% for Capacity ± 0.5% for Power	2500 W to 12000 W	NABL Accreditation valid until 13.06.2023

4. Test Condition

a) Temperature settings

Temperature		Cooling Capacity Test as per IS 1391 (Part 2)	Power Consumption Test as per IS 1391 (Part 2)
Outdoor	Indoor	At 35 °C	
35°C DBT & 24°C WBT	27°C DBT & 19°C WBT	Standard Cooling Capacity at Full Capacity 6136.9 W	Power consumption(in W) at full capacity 1876 W
		Standard Cooling at 50% of Full Capacity 3157.9 W	Power consumption(in W) at 50%of Full Capacity 675

b) Frequency settings

	Standard Cooling at Full Capacity (Rated)	Standard Cooling at 50% of Full Capacity (Rated)
Frequency setting (in Hz)	90Hz	37Hz

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Test Results

a) Measured input values (at 35°C)

Standard cooling at full Capacity (W)	6136.9	Standard cooling at 50% Capacity (W)	3157.9
Power consumption(in W)at standard Cooling at full capacity	1876	Power consumption(in W)at standard Cooling at 50%of Full Capacity	675
Power Factor at Full Capacity	0.95	Power Factor at Half Capacity	0.795
Sensible Cooling Capacity at Full Capacity (W)	4335.2	Sensible Cooling Capacity at 50% of Full Capacity (W)	2955.9
Latent Cooling Capacity at Full Capacity (W)	1801.7	Latent Cooling Capacity at 50% of Full Capacity (W)	202

b.) Calculated input values (at 29°C)

Standard cooling at full Capacity (W)	6609	Standard cooling at 50%of Full Capacity (W)	3401
Power consumption(in W)at standard Cooling at full capacity	1715	Power consumption(in W)at standard Cooling at 50%of Full capacity	617

c.) Calculated & Rated Values

Parameters	Calculated	Rated
CSTL (kWh)	4750.52	4799.36
CSEC (kWh)	1105.86	1231.15
ISEER	4.30	3.90
Star Rating	3	3

The test covered under the mandatory BEE Star Labeling Program at 24°C as per the **S.O. 2527(E)** and **S.O. 2528(E)** dated 8th August-2017.

- **Default temperature setting of the room air conditioner at 24°C: YES**

Product and Rating Label:

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Product Pictorial:



Indoor Unit



Outdoor Unit

Product Rating Label:

18K IDU Name Plate Data	
Serial No.	IDCACS24K3I00000001
Model Name	IDCACS24K3I
Operating Mode	Cooling
Rated Voltage	230 V
Rated Frequency	50 Hz / 1Φ
Cooling Capacity	6200 Watt
Air Flow Volume	1000 M ³ /H

18K ODU Name Plate Data	
Serial No.	IDCACS24K3I00000001
Model Name	IDCACS24K3I
Operating Mode	Cooling
Rated Voltage	230 V
Rated Input Current	8.48 A
Rated Frequency	50 Hz / 1Φ
Cooling Capacity	6200 Watt
Rated Power Input	1950 Watt
Refrigerant	R 32
Refrigerant Charge	0.770 Kg

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-----End of Test Report-----

Tested By



(Lab Engineer)



Approved By



(Technical Manager)