



Form II – (B) [See regulation 7 (5)]

Permission/renewal of permission to affix label on room air conditioners under the Bureau of Energy Efficiency (Particulars and Manner of their Display on Label of Room Air Conditioner) Regulations, 2017

No. BEE/COM/02/0011/19/22/0022/WAC

Bureau of Energy Efficiency New Delhi, Dated - 21-11-2022 10:15:16

To,
MR DHANANJAI SINGH [PROPRIETOR]
COMTECH ENTERPRISES
T298B1B 2ND FLOORBALJEET NAGAR
WEST PATEL NAGAR NEAR 20 No ROAD Delhi -110008 Delhi
Mb:- 8826605031 Fax no:- 011- 25864267

- Pursuant to the provisions of regulation 7 of the Bureau of Energy Efficiency (Particulars and Manner of their Display on Labels of Room air conditioners) Regulations, 2017, the Bureau hereby permits you to affix label as per details of approvals set out in the Annexure D to this letter.
- 2. This permission is subject to-
 - (a) The star level displayed on the label of the room air conditioner shall conform to energy consumption standards for room air conditioner notified under clause (a) of section 14 of the Act and terms and conditions provided in the aforesaid regulations.
 - (b) the label shall be affixed only on such model of Room Air Conditioner (Variable Speed) / Split air conditioner for which permission has been granted;
 - (c) the label shall be printed and affixed on the Room Air Conditioner (Variable Speed) at the cost of the permittee;
 - (d) the permittee shall ensure that the star level displayed on the label ofRoom Air Conditioner (Variable Speed) / Split air conditioner shall be maintained at all time;
 - (e) the permittee shall pay the label fee of rupees 30 per label;
 - (f) the permittee shall furnish to the Bureau a statement containing details of production of labelled equipment and the accrued labelling fee due for each quarter within the following month of the close of each quarter of the financial year. The same details shall be furnished to the Bureau also through automated system.
 - (g) The same details shall be furnished to the Bureau also through automated system.
 - (h) the permittee shall make available such other details of Room Air Conditioner (Variable Speed) / Split air conditioner as and when sought by the Bureau for which the permission has been granted.
- 3. This permission shall be valid for from **19th November**, **2022** to **31st December**, **2024** and may be renewed as prescribed. You shall not withdraw the Room Air Conditioner (Variable Speed) from the market during the validity period of permission except with the prior approval of the Bureau.
- 4. Signed, sealed and dated this 21 day of 11 month 2022 year

For Secretary

BUREAU OF ENERGY EFFICIENCY

Signed by:Pravatanalini Samal Date:21-11-2022 10:15:18 Approved Director (PS) BEE





Annexure D [See para 1 of Form II-(B)] Details of Approvals

1. Details of the Equipment

Application ID	161347
Trade Mark (s)/Brand Name(s)	INDCOOL
Type of Room Air Conditioner: Unitary/Split	Split air conditioner
Cooling Capacity (Watts)	6900
Power Input of Room Air Conditioner	1050
Year of manufacturing	2022

(b) Technical specification:

SI.No	Measure	Measured values		values
1.	Standard cooling at full capacity (W)	6940.80	Standard Cooling at full capacity (W)	6900
2.	Standard cooling at fifty per cent. of full capacity (W)	3450.56	Standard cooling at fifty per cent. of full capacity (W)	3450
3.	Power consumption (in W) at Standard cooling at full capacity	1049.67	Power consumption (in W) at standard cooling at full capacity	1050
4.	Power consumption (in W) at standard cooling at fifty per cent. of full capacity	704.65	Power consumption (in W) at standard cooling at fifty per cent. of full capacity	705
5.	Frequency (in Hz) at standard cooling at full capacity	86.5	Frequency (in Hz) at standard cooling at full capacity	86.5
6.	Frequency setting (in Hz) at standard cooling at fifty per cent. of full capacity	37	Frequency setting (in Hz) at standard cooling at fifty per cent. of full capacity	37
7.	Cooling seasonal energy consumption in kWh	908.16	Cooling seasonal energy consumption in kWh	905.8
8.	Cooling seasonal total load in kWh	5372.81	Cooling seasonal total load in kWh	5341.23
9.	Indian seasonal energy efficiency ratio that is, Cooling seasonal total load / Cooling seasonal energy consumption	5.92	Indian seasonal energy efficiency ratio that is, Cooling seasonal total load / Cooling seasonal energy consumption	5.9

2. Label Details

Name of the manufacturer/importer/brand	INDCOOL
Model and year of manufacturing	IDCACS24K5I / 2022
Star level	5 Star
Cooling capacity (hundred per cent.)	6900
Cooling capacity (fifty per cent.)	3450
Electricity consumption in units per year	905.8
Variable speed compressor (yes/no)	Yes
Heat pump (yes/no)	No
Label period	01-07-2022 - 31-12-2024
Unique series code	BEE/COM/02/0011/19

Signed by:Pravatanalini Samal Date:21-11-2022 10:15:18 Approved Director (PS) BEE

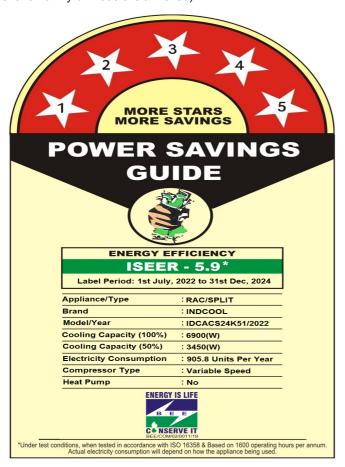
स्वहित एवं राष्ट्रहित में ऊर्जा बचाएँ

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- 3. The label design, size, colour scheme, material to be used for the label and the content of the label and colour scheme of the Bureau's logo shall be as specified in the Schedule to these regulations.
- Specimen of the label duly approved by the Bureau to be affixed on the room air conditioner is shown below (Separate 4. specimens for family of models is annexed).





The unique label series code provided in the letter has to be mentioned in the label affixed on the room air conditioner.

Date:21-11-2022

Name: PRAVATANALINI SAMAL

Designation: Director For and on behalf of: Secretary

> (Name of the firm) **SEAL OF FIRM**

प्रभातनलिनी सामल PRAVATANALINI SAMAL निदेशकं/Director कर्जा वक्षता ब्यूरो Bureau of Energy Efficiency भारत सरकार/Govt. of India विद्युत मेत्रालय/Ministry of Power Signed by:Pravatanalini Samal Date:21-11-2022 10:15:18 Approved Director (PS) BEE

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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 Ir	ndia Pvt. Ltd.	
Address	Plot No. 16, Udyog Kendra, Eco	otech III, Greater Noida- 20130	06, Uttar Pradesh.
Date of Unit Receipt	03.01.2022	- 07	
Test Report No.	202201060004178		
ULR	TC95962200000001F	Date Of Testing	06.01.2022
UID	ES0601E001	Date Of Issued	07.01.2022
Tested By	Ashu Singh	Approved By	Prashant Rajaura

2. Details of the Sample Tested

Customer Name / Address	Comtech Enterprises, T-29/78, 2nd Floor Baljeet Nagar New Delhi -110008			
Brand	INDCOOL Year Of Manufacture 2022			
Indoor Model No.	IDCACS24K5I	Outdoor Model No.	IDCACS24K5I	
Indoor Serial No.	IDCACS24K5I2001	Outdoor Serial No.	ODIDCACS24K5I2001	
Refrigerant Type	R-32	Refrigerant charged (8m)	890	
Test Standard	IS 1391 (Part 2): 2018, Standard Incorporating Amendment 4, June-2021.			

Standard Cooling at Full Capacity (W)	6900	Standard Cooling at 50% of Full Capacity (W)	3450
Rated Power Consumption (in W) at Standard Cooling at Full Capacity	1050	Rated Power Consumption (in W) at Standard Cooling at 50% of Full Capacity (W)	705
Rated Frequency (in Hz) at Standard Cooling at Full Capacity	86.5	Rated Frequency (in Hz) at Standard Cooling at 50% of Full Capacity	37
Rated Power Supply (V, Hz, Ø)	230V,50Hz,1Ø	Nominal Current (A)	9.11
Rated CSEC (kwh)	902.8	Rated CSTL (kwh)	5341.23
Rated ISEER	5.90	Star Rating	5 Star

Tested By

(Lab Engineer)

Approved By

(Technical Manager)





Test Report No.: 202201060004178
ULR : TC95962200000001F

3. Measuring Equipment and Instruments details

Sr. No.	Instrument / Equipment Name	Make	Accuracy Class	Range	Cal. Valid Date
	Psychrometric	Testing Laboratory,	± 2% for Capacity	2500 W to	NABL Accreditation
1.	Calorimeter Method	Ezentech India Pvt. Ltd.	± 2% for Power	12000 W	valid until 13.06.2023

4. Test Condition

a) Temperature settings

Parameters	Specification/Tolerance	Observation		
		Min(℃) Max(℃) Averag		Average(℃)
Indoor Dry Bulb (°C)	27.00 ± 0.3°C	27.00	27.02	27.01
Indoor Wet Bulb (℃)	19.00± 0.2°C	19.0	19.00	19.00
Outdoor Dry Bulb (°C)	35.00± 0.3℃	34.99	35.02	35.00
Outdoor Wet Bulb (°C)	Not Applicable			:
Fan Setting		Turbo	9.	Ž.

b) Electrical Input

Supply Voltage (V)	230.00±1.0 %	230.37
Supply Frequency (Hz)	50.00±1.0 % 50.00	
Current at Full Capacity (amps)	9.11	9.112
Current at 50% of Full Capacity		122
Power Factor	0.	963

c) Frequency settings

	Standard Cooling at Full Capacity (Rated)	Standard Cooling at 50% of Full Capacity (Rated)
Frequency setting (in Hz)	86.5	37

Tested By

(Lab Engineer)

Approved By

(Technical Manager)

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Test Report No.: 202201060004178 **ULR** : TC95962200000001F

Testing Frequency Setting Method:

Full Load Capacity

- 1. Switch on the AC and wait for compressor start working.
- 2. Remote setting to be done as:- Mode- "COOL", Fan Speed-"High" & Setting Temperature- "16℃"
- 3. Press "DISPLAY" button for 8 times with in 10 sec.

Half Load Capacity

- 1. Switch on the AC and wait for compressor start working.
- 2. Remote setting to be done as:- Mode- "COOL", Fan Speed-"High" & Setting Temperature- "17°C"
- 3. Press "DISPLAY" button for 8 times with in 10 sec

5. Test Results

a) Measured input values (at 35°C)

Standard cooling at full	6940.80	Standard cooling at 50%	3450.56
Capacity (W)	: 1812-1811-1813-1818;	of Full Capacity (W)	
Sensible cooling at full	5552.64	Sensible cooling at 50% of	2760.44
Capacity (W)		Full Capacity (W)	may banking
Latent cooling at full	1388.16	Latent cooling at 50% of	690.12
Capacity (W)	1300.10	Full Capacity (W)	050.12
Power consumption(in W)	1010.57	Power consumption(in W)	704.65
at standard Cooling at full	1049.67	at standard Cooling at	704.65
capacity		50% of Full capacity	

b) Calculated input values (29°C)

Standard cooling at full Capacity (W)	7475	Standard cooling at 50% Capacity (W)	3716
Power consumption(in W)at standard Cooling at full capacity	959	Power consumption(in W)at standard Cooling at 50% of Full Capacity	644

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(Lab Engineer)

Approved By

(Technical Manager)

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Test Report No.: 202201060004178
ULR : TC95962200000001F

c) Air Flow

Airflow(M³/Hr)	923.14

d) Calculated & Rated Values

Parameters	Calculated	Rated
CSTL (kWh)	5372.81	5341.23
CSEC (kWh)	908.16	902.8
ISEER	5.92	5.9
Star Rating	5 Star	5 Star

Conclusion:

- 1. The measured total cooling capacity is 101.33% of the rated cooling capacity.
- 2. Test Samples conforms to the Cooling Capacity test as per test Standard IS 1391(Part2):2018, Standard Incorporating Amendment 4, June-2021.
- 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 Pictorial:



Indoor Unit



Outdoor Unit

Tested By

apply

(Lab Engineer)

Authorized Signature

Approved By

(Technical Manager)

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Test Report No.: 202201060004178
ULR : TC95962200000001F

Product Rating Label:

24K IDU	Name Plate Data		
Serial No. IDCACS24K5I2001			
Model Name	IDCACS24K5I		
Operating Mode	Cooling		
Rated Voltage	230 V		
Rated Frequency	50 Hz / 16		
Cooling Capacity	6900 Watt		
Air Flow Volume	923,14 M ³ /H		

24K ODU Nam	e Plate Data
Serial No.	ODIDCACS24K5I2001
Model Name	IDCACS24K5I
Operating Mode	Cooling
Rated Voltage	230 V
Rated Input Current	9.11 A
Rated Frequency	50 Hz / 1¢
Cooling Capacity (100%)	6900 Watt
Cooling Capacity(50%)	3450 Watt
Rated Power Input (100%)	1050 Watt
Rated Power Input (50%)	705 Watt
Refrigerant	R-32
Refrigerant Charge	890

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

Tested By

(Lab Engineer)

Approved By

(Technical Manager)

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Discipline: Electrical Testing Group: Domestic Electrical Appliances

Test Report: The Maximum Operating Test for Split Type (Inverter) Air Conditioner

1. General Information

Laboratory Name	Testing Laboratory,Ezer	Testing Laboratory, Ezentech India Pvt. Ltd.			
Address	Plot No. 16, Udyog Ken	Plot No. 16, Udyog Kendra, Ecotech III, Greater Noida- 201306, Uttar Pradesh.			
Date of Unit Receipt	03.01.2022	03.01.2022			
Test Report No.	202201060004178	202201060004178			
ULR	TC959622000000002F	TC959622000000002F Date Of Testing 06.01.2022			
UID	ES0601E001	Date Of Issued	07.01.2022		
Tested By	Ashu Singh	Approved By	Prashant Rajaura		

2. Details of the Sample Tested

Customer Name / Address	Comtech Enterprises, T-29/78, 2nd Floor Baljeet Nagar New Delhi -110008		
Brand	INDCOOL	Year Of Manufacture	2022
Indoor Model No.	IDCACS24K5I	Outdoor Model No.	IDCACS24K5I
Indoor Serial No.	IDCACS24K5I2001	Outdoor Serial No.	ODIDCACS24K5I2001
Refrigerant Type	R-32	Refrigerant charged (gm)	890

Standard Cooling at Full Capacity (W)	6900	Standard Cooling at 50% of Full Capacity (W)	3450
Rated Power Consumption (in W) at Standard Cooling at Full Capacity	1050	Rated Power Consumption (in W) at Standard Cooling at 50% of Full Capacity (W)	705
Rated Frequency (in Hz) at Standard Cooling at Full Capacity	86.5	Rated Frequency (in Hz) at Standard Cooling at 50% of Full Capacity	37
Rated Power Supply (V, Hz, Ø)	230V,50Hz,1Ø	Nominal Current (A)	9.11
Rated CSEC (kwh)	902.8	Rated CSTL (kwh)	5341.23
Rated ISEER	5.90	Star Rating	5 Star

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Hira Lal (Lab Engineer) **Approved By**

Prashant Rajaura (Technical Manager)

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Test Report No.: 202201060004178 ULR No.: TC959622000000002F



3. Measuring Equipment and Instruments details

Sr. No.	Instrument / Equipment Name	Make	Accuracy Class	Range	Cal. Valid Date
1	Psychrometric Calorimeter	Testing Laboratory, Ezentech	± 2% for Capacity	2500 W to	NABL Accreditation
1	Method	India Pvt. Ltd.	± 2% for Power	12000 W	valid until 13.06.2023

4. Test Condition

Parameters	Specifications				
Test Unit Voltage(V)	Standard Specified±1%	20)7	25	i3
Voltage Frequency(Hz)	50±1%	50	50	50	50
Duration		1Hr	1Hr	1Hr	1Hr

Indoor Dry Bulb(°C)	35±0.5°C	35.00	35.02	35.00	35.00
Indoor Wet Bulb(°C)	24±0.5°C	24.00	24.00	24.00	24.00
37					
Outdoor Dry Bulb(°C)	46±0.5°C	46.03	46.02	46.01	46.00

Observations:

- 1. Machine run for the above mentioned condition for one hour at 207 Volt. After one hour power was cut off for 3 minutes and then restored. Voltage rise during the switching off the machine was less than 3%. Machine started without any abnormal sound and run continuously for 1 hour after restart without any tripping.
- 2. Machine run for the above mentioned condition for one hour at 253 Volt. After one hour power was cut off for 3 minutes and then restored. Voltage rise during the switching off the machine was less than 3%. Machine started without any abnormal sound and run continuously for 1 hour after restart without any tripping.

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Hira Lal (Lab Engineer) Approved By

Prashant Rajaura (Technical Manager)

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Test Report No.: 202201060004178 ULR No.: TC959622000000002F

Conclusions:

1. Test sample was tested to the Maximum Operating Test and it is passed as per Test Standard IS 1391(Part2):2018 Standard incorporating Amendment 4, June-2021.

Product Pictorial:



Indoor Unit



Outdoor Unit

Product Rating Label:

24K IDU	Name Plate Data
Serial No.	IDCACS24K5I2001
Model Name	IDCACS24K5I
Operating Mode	Cooling
Rated Voltage	230 V
Rated Frequency	50 Hz / 16
Cooling Capacity	6900 Watt
Air Flow Volume	923.14 M ³ /H

24K ODU Nam	e Plate Data
Serial No.	ODIDCACS24K5I2001
Model Name	IDCAC\$24K5I
Operating Mode	Cooling
Rated Voltage	230 V
Rated Input Current	9.11 A
Rated Frequency	50 Hz / 1¢
Cooling Capacity (100%)	6900 Watt
Cooling Capacity(50%)	3450 Watt
Rated Power Input (100%)	1050 Watt
Rated Power Input (50%)	705 Watt
Refrigerant	R-32
Refrigerant Charge	890

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

Tested By

apply

Hira Lal (Lab Engineer) Authorized Signature

Approved By

Prashant Rajaura (Technical Manager)

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