

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 Window Type (Fixed Speed) Air Conditioner****1. General Information**

<b>Laboratory Name</b>	Testing Laboratory, Ezentech India Pvt. Ltd.		
<b>Address</b>	Plot No. 16, Udyog Kendra, Ecotech III, Greater Noida- 201306, Uttar Pradesh.		
<b>Date of Unit Receipt</b>	13.05.2023		
<b>Test Report No.</b>	202211150005385		
<b>ULR</b>	TC959622000000154F	<b>Date Of Testing</b>	15.05.2023
<b>UID</b>	ES1311E080	<b>Date Of Issued</b>	04.06.2023
<b>Tested By</b>	Ashu Singh	<b>Approved By</b>	Hira Lal

**2. Details of the Sample Tested**

<b>Customer Name / Address</b>	Comtech Enterprises T-29/78, 2 <sup>nd</sup> Floor Baljeet Nagar New Delhi-110008.		
<b>Brand Name</b>	INDCOOL		
<b>Model</b>	IDCACW24K3F	<b>Year Of Manufacture</b>	2023
<b>Indoor Model No.</b>	IDCACW24K3F		
<b>Indoor Serial No.</b>	IDCACW24K3F30000001		
<b>Refrigerant Type</b>	R-32	<b>Refrigerant charged(gm)</b>	1250
<b>Test Standard</b>	The test standards adhered to in this test was: <b>IS 1391 (Part 1): 2017</b> ; Standard Incorporating Amendment4, June2021		

<b>Standard Cooling at Full Capacity (W)</b>	7050	<b>Standard Cooling at 50%of Full Capacity (W)</b>	NA
<b>Rated Power Consumption (in W) at Standard Cooling at Full Capacity</b>	2190	<b>Rated Power Consumption (in W) at Standard Cooling at 50%of Full Capacity (W)</b>	NA
<b>Rated Frequency (in Hz) at Standard Cooling at Full Capacity</b>	NA	<b>Rated Frequency (in Hz) at Standard Cooling at 50% of Full Capacity</b>	NA
<b>Rated Power Supply (V, Hz, Ø)</b>	230V, 1 Phase, 50Hz	<b>Nominal Current (A)</b>	8.6
<b>Rated CSEC (kWh)</b>	1695.29	<b>Rated CSTL (kWh)</b>	5457.34
<b>Rated ISEER</b>	3.22	<b>Star Rating</b>	3

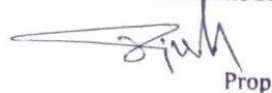
Tested By



(Lab Engineer)



For COMTECH ENTERPRISES


  
Prop.

Approved By



(Technical Manager)

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

Test Report No.: 202211150005385

ULR : TC959622000000154F

**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

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

## b) Electrical Input

Supply Voltage (V)	230.00 ± 1.0 %	230.30
Supply Frequency (Hz)	50.00 ± 1.0 %	50.00
Current at Full Capacity (amps)	8.6	8.78
Current at 50% of Full Capacity	--	--
Power Factor	--	

## c) Frequency settings

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

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

**Test Report No.:** 202211150005385**ULR** : TC959622000000154F**Test Results****a) Measured input values (at 35°C)**

Standard cooling at full Capacity (W)	7062	Standard cooling at 50% Capacity (W)	NA
Power consumption (in W) at standard Cooling at full capacity	2210	Power consumption (in W) at standard Cooling at 50% of Full Capacity	NA
Sensible Cooling Capacity at Full Capacity (W)	5649.6	Sensible Cooling Capacity at 50% of Full Capacity (W)	NA
Latent Cooling Capacity at Full Capacity (W)	1412.4	Latent Cooling Capacity at 50% of Full Capacity (W)	NA

**b.) Calculated input values (at 29°C)**

Standard cooling at full Capacity (W)	7606	Standard cooling at 50% of Full Capacity (W)	NA
Power consumption (in W) at standard Cooling at full capacity	2020	Power consumption (in W) at standard Cooling at 50% of Full capacity	NA

**c.) Air Flow**

Airflow(M <sup>3</sup> /Hr)	923.14
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**d.) Calculated & Rated Values**

Parameters	Calculated	Rated
CSTL (kWh)	5466.63	5457.34
CSEC (kWh)	1710.78	1695.29
ISEER	3.2	3.22
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 8<sup>th</sup> August-2017.

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

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

**Test Report No.:** 202211150005385

**ULR** : TC959622000000154F

**Product Rating Label:**

24K Name Plate Data	
Serial No.	IDCACW24K3F30000001
Model Name	IDCACW24K3F
Operating Mode	Cooling
Rated Voltage	230 V
Rated Frequency	50 Hz/1ø
Rated Current	8.6
Cooling Capacity	7050
Rated Power	2190
Refrigerant	R-32
Refrigerant Charge	1250

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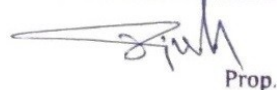
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(Lab Engineer)



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**Approved By**



(Technical Manager)

**Discipline:** Electrical Testing**Group:** Domestic Electrical Appliances**Test Report: The Maximum Operating Test for Window Type (Fixed Speed) Air Conditioner**

<b>Test Report No</b>	202211150005386
<b>ULR</b>	TC959622000000156F
<b>UID</b>	ES1311E080
<b>Date of Unit Receipt</b>	13.05.2023
<b>Date of Test</b>	15.05.2023
<b>Date of Issue</b>	04.06.2023

**Customer Name and Address:** Comtech Enterprises  
T-29/78, 2<sup>nd</sup> Floor Baljeet Nagar New Delhi-110008.

**Testing Laboratory Name and Address:**

Testing Laboratory, Ezentech India Pvt. Ltd.; Plot No. 16, Udyog Kendra, Ecotech III, Greater Noida -201306, Uttar Pradesh.

**Test Standards:** The test standards adhered to in this test was: **IS 1391 (Part 1): 2017**; Standard Incorporating Amendment 4, June-2021.

**Test Method:** The maximum operating test was conducted using a Psychrometric- Calorimeter method was employed for the test.

**Sample Condition:** We received the Window air conditioner sample was physically checked and found in good conditions.

**Sample Detail:****Brand Name:** INDCOOL**Unit Model No:** IDCACW24K3F**Unit Serial No.:** IDCACW24K3F30000001**Rated Data:**

<b>Capacity</b>	7050	<b>Refrigerant</b>	R-32
<b>Power</b>	2190	<b>Refrigerant Charge (gm)</b>	1250
<b>Power Supply</b>	230V, 1 Phase, 50Hz, 8.6A	<b>CSTL</b>	5457.34
<b>CSEC</b>	1695.29	<b>ISEER</b>	3.22

**Tested By**


Ashu Singh  
(Lab Engineer)

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Hira Lal  
(Technical Manager)

Test Report No.: 202211150005386

ULR No.: TC959622000000156F

Parameters	Specifications				
Test Unit Voltage(V)	Standard Specified $\pm$ 1%	207		253	
Voltage Frequency(Hz)	50 $\pm$ 1%	50	50	50	50
Duration		1Hr	1Hr	1Hr	1Hr

Indoor Dry Bulb( $^{\circ}$ C)	35 $\pm$ 0.5 $^{\circ}$ C	35.01	35.00	34.99	35.00
Indoor Wet Bulb( $^{\circ}$ C)	24 $\pm$ 0.5 $^{\circ}$ C	24.00	23.98	24.00	24.00
Outdoor Dry Bulb( $^{\circ}$ C)	46 $\pm$ 0.5 $^{\circ}$ C	46.05	46.04	45.98	45.98
Outdoor WetBulb( $^{\circ}$ C)	27 $\pm$ 0.5 $^{\circ}$ C	26.98	27.00	27.02	27.04

**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.

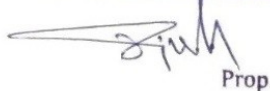
**Conclusions:**

1. Test sample was tested to the Maximum Operating Test and it is passed as per Test Standard **IS 1391(Part 1):2017 Standard incorporating Amendment 4, June-2021**.

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**Test Report No.:** 202211150005386  
**ULR No.:** TC959622000000156F

**Product Rating Label:**

24K Name Plate Data	
Serial No.	IDCACW24K3F30000001
Model Name	IDCACW24K3F
Operating Mode	Cooling
Rated Voltage	230 V
Rated Frequency	50 Hz/1ø
Rated Current	8.6
Cooling Capacity	7050
Rated Power	2190
Refrigerant	R-32
Refrigerant Charge	1250

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

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