

Discipline: Electrical Testing**Group:** Domestic Electrical Appliances**Test Report: Cooling Capacity Test for Window Type Air Conditioner**

Test Report No	202211140005264
ULR	TC959622000000054F
UID	EW1211E013
Date of Unit Receipt	12.11.2022
Date of Test	14.11.2022
Date of Issue	03.12.2022

Customer Name and Address: Comtech EnterprisesT-29/78, 2nd 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 cooling capacity test was conducted using a Psychometric- 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:** IDCACWN18K3F**Unit Serial No.:** IDCACWN18K300000001**Rated Data:**

Capacity	5440W	Refrigerant	R-32
Power	1680W	Refrigerant Charge	550 gm
Power Supply	230V, 1 Phase, 50Hz, 7.17A	CSTL	4211.06 kWh
CSEC	1300.5kWh	ISEER	3.24

Tested By

Ashu Singh
(Lab Engineer)


Comtech Enterprises
Proprietor
Approved By

Hira Lal
(Technical Manager)

Test Report No.: 202211140005264
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Parameters	Specification/ Tolerance			
		Min °C	Max °C	Average °C
Indoor Dry Bulb (°C)	27.00 ± 0.3°C	26.99	27.02	27.00
Indoor Wet Bulb (°C)	19.00 ± 0.2°C	19.00	19.01	19.00
Outdoor Dry Bulb (°C)	35.00 ± 0.3°C	34.96	35.03	34.99
Outdoor Wet Bulb (°C)	24.00 ± 0.2°C	24.01	24.04	24.02
Fan Setting				

Electrical Input		
Supply Voltage (V)	230.00 ± 1.0 %	230.19
Supply Frequency (Hz)	50.00 ± 1.0 %	50.00
Line Current (amps)		7.22
Total Power Input (W)		1682
Power Factor (%)		0.95

Results	Watts	BTU/Hr
Measured Total Cooling Capacity	5488.90	17704.52
Measured Sensible Cooling Capacity	4391.12	12603.93
Measured Latent Cooling Capacity	1097.78	5100.59
Indoor Sensible total Ratio (%)	71.19	
Indoor Measured Airflow (m ³ /mint)		12.37
Energy Efficiency Ratio (EER/COP)		3.26
Cooling Seasonal Total Load (CSTL) in kWh		4248.91
Cooling Seasonal Energy Consumption (CSEC) in kWh		1302.05
ISEER (kWh/kWh)		3.26

Conclusions:

- The measured total cooling capacity is 99.78% of the rated cooling capacity.
- Test Samples conforms to the Cooling Capacity test as per test Standard IS 1391(Part 1):2017, 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

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Comtech Enterprises

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(Technical Manager)

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Product Pictorial:



Indoor Side



Outdoor Side


Product Rating Label:

18K WAC Name Plate Data	
Serial No.	IDCACWN18K300000001
Model Name	IDCACWN18K3F
Operating Mode	Cooling
Rated Voltage	230 V
Rated Frequency	50 Hz / 1 Φ
Cooling Capacity	5440 Watt
Air Flow Volume	730 M ³ /H
Net Weight	57.5 Kg

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

Tested By


Ashu Singh
(Lab Engineer)

Comtech Enterprises

Proprietor



Approved By


Hira Lal
(Technical Manager)

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

Test Report No	202211140005265
ULR	TC959622000000055F
UID	EW1211E013
Date of Unit Receipt	12.11.2022
Date of Test	14.11.2022
Date of Issue	03.12.2022

Customer Name and Address: Comtech EnterprisesT-29/78, 2nd Floor Baljeet Nagar New Delhi-110008**Testing Laboratory Name and Address:**

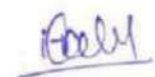
Testing Laboratory, Ezentech India Pvt. Ltd.; Plot No. 16, Udyog Kendra, Ecotech III, Greater Noida -201306, Uttar Pradesh.

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:** IDCACWN18K3F**Unit Serial No.:** IDCACWN18K300000001**Rated Data:**

Capacity	5440W	Refrigerant	R-32
Power	1680W	Refrigerant Charge	550 gm
Power Supply	230V, 1 Phase, 50Hz, 7.17A	CSTL	4211.06 kWh
CSEC	1300.5kWh	ISEER	3.24

Tested By

Ashu Singh
(Lab Engineer)

Approved By

Hira Lal
(Technical Manager)

Test Report No.: 202211140005265

ULR No.: TC95962200000055F

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

Observations:

- 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.
- 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:

- 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**.

Comtech Enterprises
Proprietor

Tested By



Ashu Singh

(Lab Engineer)



Approved By



Hira Lal

(Technical Manager)

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Product Pictorial:

Indoor Side



Outdoor Side

Product Rating Label:

18K WAC Name Plate Data	
Serial No.	IDCACWN18K300000001
Model Name	IDCACWN18K3F
Operating Mode	Cooling
Rated Voltage	230 V
Rated Frequency	50 Hz / 1Φ
Cooling Capacity	5440 Watt
Air Flow Volume	730 M ³ /H
Net Weight	57.5 Kg

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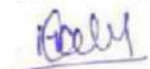
EZENTECH (Engineer)

Comtech Enterprises

 Proprietor



Approved By



Hira Lal

(Technical Manager) Page 3/3