

ENERGY



สถาบันไฟฟ้าและอิเล็กทรอนิกส์
ELECTRICAL AND ELECTRONICS INSTITUTE

Test Services

■ Performance Requirements

- Total Cooling Capacity
- Sensible Cooling Capacity
- Latent Cooling Capacity
- Heating Capacity

■ Safety Requirements

- Insulation Resistance
- Withstanding Voltage of Insulation
- Insulation Distance



Energy Label
No. 5 (EGAT)



Products Covered and Standards

■ Air - Cooled Split Type

- Wall Mounted Type
- Floor and Ceiling Type

■ Air - Cooled Window Type

- Window Type
- Splash Type
- Sling - Up Type

TIS 1155, TIS 2134, ISO 5151, ISO 13253, JIS B 8615
JIS B 8616, JIS B 9612, SSA 385
Energy Label No. 5 (EGAT)



Calorimeter Control Panel

Measurements

- Balanced Ambient Room-Type Calorimeter
- Psychrometric Type Calorimeter

Measurement Item

1. Total Cooling Capacity or Heating Capacity
2. Sensible Cooling Capacity
3. Latent Cooling Capacity
4. Power Input
5. Power Source Frequency
6. Source Voltage
7. Source Current
8. COP of EER
9. Refrigerant Pressure
10. General Purpose Temperature

Rating Capacity

1. Cooling Capacity : 4,000 - 40,944 BTU/hr
2. Heating Capacity : 4,000 - 44,000 BTU/hr

Capability

4-6 Samples / day

Repeatability

Test results repeatables within 1.5%

Heat Balance

Heat Balance within 4% for UUT capacities



Calorimeter

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ENERGY

REFRIGERATOR / FREEZER

Test Services

- Pull down test
- Energy - Consumption Test
- Testing the airtightness of door or lid seal
- Testing the opening force of door or lid
- Testing the durability of hinges and handles of door and lid
- Testing the mechanical strength of shelves and similar component
- Testing the storage temperatures
- Temperature rise test
- Freezing test
- Ice making test
- Storage volume



Products Covered and Standards

- Refrigerators without freezer
- Refrigerator / Freezer
- Commercial Closed Food and Beverage Coolers
- Closed Food Freezers

*TIS 455, TIS 2186, ISO 15502, ISO 8561 EN 153, ISO 8187
AS/NZS 4474, EN 441, Energy Label No. 5 (EGAT)
Green Label (Thailand)*

Measurements

■ Roomy Chamber (Walk-In Type)

1. Temperature range : 0-80 °C
Controllable range : Within ± 0.5 °C
2. Humidity range : 30 - 80 % RH
Controllable range : Within $\pm 3-5$ °C
Capability : 17 Samples / Time



Roomy Chamber (walk-in Type)



Energy Label No. 5 (EGAT)



Temperature Sensor

For more information, please send your queries or contact us at the following:

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