

HOW TO CHOOSE THE RIGHT SIZE OF AIRCON

1. Determine the area (in square meters) to be cooled using the following formula:
 - For square and rectangular rooms, multiply the length (L) of the area by its width (W) or (L x W)
 - For a triangular area, multiply the length of the area by the width and divide by 2 or $\frac{L \times W}{2}$
2. Measure the size of the room to be cooled.
 - a unit whose cooling capacity is too small for the room will not cool adequately.
 - a unit whose cooling capacity is too large will overcool before the thermostat can react.
3. Buy the aircon unit with the highest Energy Efficiency Ratio or EER you can afford.

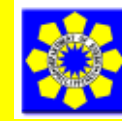
ENERGY SAVING TIPS

1. Install the air conditioning unit in the coolest part of the room, if possible, on a shady side where maximum air circulation is available.
2. Air conditioned rooms should be well-insulated from direct sunlight. Block out the sun's rays with curtains and drapes and close of unused rooms.
3. Make sure the thermostat is working efficiently. Set the temperature at a comfortable level. Don't overcool the room.
4. Avoid frequent changing of thermostat settings to reduce operating costs.
5. Avoid placing any electrical appliances that will generate heat in the room.
6. Clean the filter and vacuum the outdoor coil regularly to keep the unit working efficiently.

Consumer Welfare and Promotion Office
Ground Floor, Annex Building
Energy Center, Fort Bonifacio, Taguig City
Telefax: 840 -2267
Trunkline: 479-2900 local 329
Mobile No. 09175560759

You may also text in your suggestions,
comments, queries and complaints.

Please type : DOE <space> <message> and then send to 2920
(for Globe and Smart subscribers only)
Check our website at : www.doe.gov.ph



DEPARTMENT OF ENERGY

CONSUMER GUIDE IN BUYING ROOM AIR CONDITIONER



A consumer reminder from



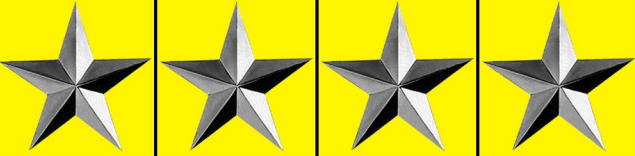
*Consumer Welfare
and Promotion
Office*

*Serving the Public.....
Serving the Nation*

Energy Label for Locally-made Air Conditioners

AIR CONDITIONERS ENERGY GUIDE

for cooling capacity of 12,000 kJ/h and above. This model is classified as:



lowest → highest
MORE STARS MEANS HIGHER EFFICIENCY


ENERGY EFFICIENCY RATIO
For this model, the minimum EER standard set by the government for the year 2006 is 8.8

▶ 10.0

Approximate monthly cost of operating this unit ▶ Cost of Operation = Power input in Watts (W) X Monthly Usage hours (h) X Power Rate Pesos/kW-h

Electrical Appliances Philippines Corporation

Brand : Room Air conditioner	Cooling Capacity : kJ/h
Model :	Power Input : W
Type : WINDOW	Frequency : 60 Hz
	Voltage : 230 V



REMOVAL OF THIS LABEL BEFORE CONSUMER PURCHASE IS A VIOLATION OF REPUBLIC ACT NO. 7394

For additional information ask your dealer or write / call the Department of Energy, Lighting and Appliance Testing Laboratory, PNOC-ERDC Compound, Commonwealth Avenue, Diliman, Quezon City. Tel. Nos. 929-54-43, 927-72-01 or Fax 929-54-74.
website: www.doe.gov.ph

4709228003649

DOE CONTROL NO.

AH-197510

Sizing of Air-conditioner: Rough Estimate**

Load Calculation: Rough Estimate Method

Cooling Capacity = Size of room (in sq. meter) x 500

Note: Use the next higher size available (standard)



Applicable Standard:

PNS 396 Part 1: 1995—Household appliances—Energy Efficiency Ratio (EER) and Labeling Requirements

Motor Compressor Rating, hp	Manufacturer's Equivalent Cooling Cap. Rating, kJ/hr,
3/4	7,385 - 8,440
1.0	9,495-10,550
1.5	12,660-13,290
2.0	18,990-20,045
2.5	25,320-26,580

** Source: ERTLS—LATL

Operating Cost (PhP/Hour)

Cooling Cap. (kJ/h)	Energy Efficiency Ratio (kJ/Wh)					
	Energy Cost* per hour of use					
5,040	-	5.17	4.91	4.68	4.46	4.20
7,910.	-	8.11	7.70	7.34	7.00	6.58
9,500.	-	9.74	9.25	8.81	8.41	7.91
10,550	-	10.82	10.28	9.79	9.34	8.78
11,520	-	11.81	11.22	10.69	10.20	9.59
12,660	14.17	12.98	12.33	11.74	11.21	10.54
16,200	18.14	16.61	15.78	15.03	14.34	13.49
18,990	21.26	19.47	18.50	17.62	16.81	15.81
19,600	21.94	20.10	19.09	18.18	17.35	16.32
25,000	27.99	25.63	24.35	23.19	22.14	20.81
31,800	35.60	32.60	30.97	29.50	28.16	26.47

*Energy Cost is based on the average residential rate for September 2007 @ P9.74/kWh