

What is BTU Capacity?

In short, BTU capacity is a measurement of an air conditioner's ability to cool down a given space, in this case, your RV.

Now for the technical definition: (British Thermal Unit) the amount of heat required to raise the temperature of one pound of water, one degree Fahrenheit. There are multiple methods for determining BTU Ratings which are used by Air Conditioner Manufacturers as well as different accepted Standards for test conditions to determine these ratings.



Examples of test conditions:

▶ ARI (Air Conditioning and Refrigeration Institute)

Indoor: 80° F 50% Humidity
Outdoor: 95° F

▶ TMC (Trucking Maintenance Council)

Indoor: 73° F 50% Humidity
Outdoor: 100° F

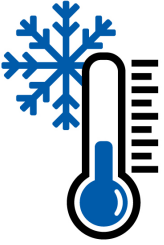
▶ IMACA (International Mobile Air Conditioning Society)

Indoor: 90° F 50% Humidity
Outdoor: 100° F



HERE'S THE PROBLEM:

Each of these testing conditions can give drastically different BTU ratings. For example: IMACA standards typically produce the highest BTU ratings and are the go to rating standards for Mobile air conditioning applications.



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there would be one rating standard, everyone would test and certify their air conditioners to that standard, and the consumer would be able to see very clearly how each unit would compare to each other.



Common Rating Practices that Produce High BTU Ratings

- ▶ Rating the highest rated component of the system (Example: Using BTU of Evaporator Core)
- ▶ Rating using the CFM the blower is capable of (Free Blow) vs Actual CFM out of the unit.
- ▶ Changing testing parameter is to achieve a Higher BTU Rating

This is why not all 20,000 BTU Systems are created equal. If a BTU rating is a measurement of the Air conditioners performance, now you can understand why one manufacturers 20,000 BTU unit can out perform another manufacturers 20,000 BTU system.

The best way to compare performance between systems is through comparison testing. The key to these comparison tests are that all variables are taken out of the equation, and the systems being compared are being **tested in exactly the same conditions (Temperature, Humidity, Time, etc....)**

During the development of your Turbo II system, we performed many of these comparison tests. **Your Turbo II was designed to outperform any other** systems on the market, and do so more efficiently using 35% less power consumption.

