

# Application Note 1013

## Rated Capacity vs. Maximum Capacity

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## Rated Capacity vs. Maximum Capacity

“**Rated Capacity**” is the system output capacity observed at standard AHRI rated testing conditions (47°F, and 17°F outdoor for heating). AHRI testing, performed to AHRI-210/240, requires the compressors to be run at a constant speed (60Hz) due to testing limitations. Any advantage gained by variable speed equipment is not exhibited in the test results. The test result values are listed in the AHRI *Directory of Certified Product Performance*, which is accessible through the AHRI website. These values are also listed and identified in all Mitsubishi Electric Trane HVAC US published resources, including brochures, technical documentation, and the website.

“**Maximum Capacity**” is the actual output capacity units will produce when trying to achieve set point condition (selected room temperature) from relative load condition (current room temperature). The greater the load requirement, the more the capacity increases until maximum capacity of the unit is reached. *Maximum Capacity was equal to Rated Capacity before the introduction of inverter drive variable-speed compressor systems.* Maximum Capacities are also listed and identified in all Mitsubishi Electric Trane HVAC US published resources.

### Example: MSZ-FH12NA, 12,000 BTU/h Heat-pump System

- Rated Heating Capacity at 47°F = 13,600 BTU/h
- Rated Heating Capacity at 17°F = 8,000 Btu/h
- Maximum Heating Capacity at 17°F = 13,600 BTU/h