

# Heating, A/C, Refrigeration and Ventilation

Catalog Number: C31325  
Exam Number: 915012  
Effective Date: 09/27/12

## License Information

**Scope** – Tests a candidate’s knowledge of the installation, maintenance, repair, fabrication, alteration, and extension of air conditioning, refrigeration, heating, ventilation systems, duct systems, warm air systems, low pressure boiler and unfired pressure vessel systems, solar heating and cooling systems, and related appurtenances unlimited in horsepower or tonnage.

## Examination Outline

### Open Book

**100 Questions – Four-hour time limit**

**70% Correct required to pass**

Exam Topic	%
General Knowledge	20
Low Pressure Boilers and Solar	10
Warm Air Heating	10
Refrigeration	18
Ventilation	10
Fuel Gas Systems	10
Controls	8
Piping	6
Load Calculations	5
Insulation	3

## References

**NOTE:** The following references were used to develop this exam. With the exception of the Code books, you may use newer editions of references as they become available at your own discretion. However, newer editions may or may not contain applicable information to the content on the exam. You assume the risk of using a more current reference than that listed below. In regards to Code books, only the edition of the Code book listed below will be allowed into the test site.

The following references **are allowed** in the testing center.

1. *International Fuel Gas Code*, 2012 Edition, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, [www.iccsafe.org](http://www.iccsafe.org).
2. *International Mechanical Code*, 2012 Edition, International Code Council, 4051 West Flossmoor Road, Country Club Hills, IL 60478-5795, [www.iccsafe.org](http://www.iccsafe.org).

3. *ACCA Duct Slide Rule*, Air Conditioning Contractors of America, 2800 Shirlington Road, Suite 300, Arlington, VA 22206, [www.acca.org](http://www.acca.org).

The following references were used to create exam questions but **are not allowed** in the testing center.

1. *Low Pressure Boilers*, Third Edition, 2008, American Technical Publishers (ATP), 1155 West 175<sup>th</sup> Street, Homewood, IL 60430-4600, [www.go2atp.com](http://www.go2atp.com).
2. *Modern Refrigeration and Air Conditioning*, 18th Edition, 2004, Goodheart-Willcox Company, Inc., 18604 West Creek Drive, Tinley Park, IL 60477-6243, [www.g-w.com](http://www.g-w.com).

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