

“B” Card Study Guide

- BTU'S to change ice to steam
- Conversion of watts to BTU'S
- Conversion of watts to horse power
- Brazing & soldering temperatures and techniques
- Calculate sub-cooling and superheat of refrigerants
- Instruments for checking evacuation levels
- 400 series refrigerant characteristics & charging methods
- Condensing temperatures on air cooled equipment
- Ohms law
- Parallel & series circuits
- Watts to kilowatt conversion
- Safety and operating control difference
- Determine “VA” of a transformer
- Low voltage wiring
- Line & ladder diagrams
- Single phase motors
- Identify compressor start, run & Common terminals
- How to use a megger
- Refrigeration defrost methods
- Water cooled condenser styles
- Compression ratio
- Clearance volume in reciprocating compressors
- Thermal expansion valve operation
- T.X.V. bulb charges
- Refrigeration regulators(hot gas, E.P.R.'s & defrost regulators)
- Water pressure related to height
- Hot water heat piping
- Dry bulb and wet bulb
- Natural gas furnace operating and safety controls

Suggested books from the United Association
Refrigeration manual, Soldering and Brazing, U.A. Star Study
Guide, Basic Electricity, Electric Controls for Mechanical
Equipment Service & Air Conditioning