



Rotary Chiller Workshop

Course Description: This course is designed to introduce students to the controls, components, and maintenance procedures for rotary chillers. Course work will focus on system components, refrigeration cycle, capacity control, maintenance considerations, and application standards. Upon completion a student will be able to describe the refrigeration cycle, how capacity control is achieved, what maintenance considerations should be considered, and what applications are best suited for each configuration.

Course Outline:

- I. Introduction
- II. Components
 - a. Compressor
 - b. Evaporator
 - c. Condenser
 - d. Metering Device
- III. Refrigeration Cycle
- IV. Compressor Capacity Control
- V. Maintenance Considerations
- VI. Application Considerations
 - a. Air Cooled or Water Cooled
 - b. Condensing Temperature Control
 - c. Short Water Loops
 - d. Equipment Standards
- VII. Review

Target Audience: Servicing owners and operating personnel