

# Air and Water-Cooled Screw Chiller



## Maintenance, Operation and Service Course

### Schedule for 2012

March 19 – 23, 2012  
August 20 – 24, 2012

Screw Chiller Courses are held at:

**McQuay International  
Staunton, VA**

Daikin McQuay Learning Institute  
P.O. Box 2510  
Staunton, Virginia 24402-2510  
Phone: (540) 248-9646  
Fax: (763) 509-7663

Visit Our Web Site at:  
[www.mcquay.com](http://www.mcquay.com)  
for the latest training  
schedules

McQuay International has been approved as an Authorized Provider by the International Association for Continuing Education and Training (IACET),  
1760 Old Meadow Road, Suite 500, McLean, VA 22102;  
(703) 506-3275



### Screw Chiller Maintenance, Operation & Service Training

This brochure lists the dates for the continuation of the highly successful Screw Chiller Maintenance, Operation and Service training program.

This program is structured to provide basic classroom instruction, demonstrations, and "hands-on" exercises designed to familiarize the student with the product features, operation, maintenance and service requirements for McQuay screw chiller products.

In our training shop, each student will work with selected screw product simulators. The emphasis of this "hands-on" training will be to enhance the technicians' knowledge of good service and electrical trouble shooting practices necessary for proper service and maintenance of McQuay screw chillers.

The products covered in this seminar will be the AGS air-cooled screw chiller; the WGS water-cooled chiller and the Pathfinder™ model AWS air-cooled screw chiller.

**SCREW CHILLER CONTROL TRAINING INCLUDES THE MICROTECH II® AND MICROTECH III™ CONTROL SYSTEMS.**

To maximize the benefit of this course, the student should have a basic understanding of the refrigerant cycle, electrical power, and simple air conditioning control circuits. Although the seminar opens with a review of these topics, the emphasis will be applying this knowledge to analyzing unit and system performance.

All scheduled sessions are held in our newly renovated Training Center at our chiller manufacturing facility in Staunton, Virginia.



## Course Fee:

**\$1,700.00**

Per student payable to  
McQuay International

### Fee Includes:

All instruction and work materials  
Daily lunches and coffee breaks  
Group Dinner (first night)

### Payment is due in advance.

Application accompanied by  
payment should be submitted to:

**Daikin McQuay Learning Institute**  
**Linda Custer**  
**P.O. Box 2510**  
**Staunton, VA 24402-2510**

If other payment arrangements  
are necessary, direct all inquiries  
to:

Linda Custer  
Training Administrator  
Phone: (540) 248-9646  
Fax: (763) 509-7663

e-mail:  
[linda.custer@mcquay.com](mailto:linda.custer@mcquay.com)

***Specifically Designed  
for  
Building Engineers  
and  
Maintenance Personnel***

## Learning Outcomes:

### In this course, students will learn:

- The basic cycle of air and water-cooled chillers
- How to read electric schematics
- Screw compressor and design components
- Oil, refrigerant & economizer systems
- Electrical systems
- McQuay MicroTech® II Microprocessor Control System for AGS & WGS
- McQuay MicroTech® III Microprocessor Control System for AWS
- Electronic Expansion Valve
- Solid-State Starters
- General maintenance and service
- Evacuation procedures
- Refrigerant & oil charging procedures
- Air-cooled DX evaporator theory
- Flooded evaporator theory
- The class includes product review, plant tour of manufacturing facility and group hands-on training on MicroTech® simulators

### Assessment:

At the conclusion of the course, the student will review, discuss and be assessed with a test on the learning outcomes of the course. The test will be graded based on the percentage of questions to determine the students' learning outcome. A score of 70% will be required for successful completion of the course and to be awarded CEU's (continuing education units).

### Enrollment/Payment:

Enrollment is limited and will be accepted on a first-come, first-serve basis. To enroll, please register online at [www.mcquay.com](http://www.mcquay.com), on the Training Page or fill out the attached enrollment form. Confirmation of enrollment along with an information packet will be sent to the student within five working days after receipt of your paid application. Full payment is required in advance of the class. If payment is not received prior to the start of class, the student(s) will be denied entrance.

### Cancellation Policy:

For Cancellations made within 10 working days prior to course start date, the enrollee(s) will be charged the full course fee. Cancellations made less than four weeks prior to the course start date will be charged 50% of the course fee. An alternative person may use a confirmed space without penalty and substitutions may be made up until start of class.

**Motel:** A list of area motels will be provided with McQuay preferred rates.

**Transportation:** Students are responsible for their own transportation to and from the training center.

**Attire:** Dress is business casual. Students are required to wear steel toe shoes during the plant tour, at all times when passing through the production areas to and from the cafeteria through the plant. Safety glasses will be supplied.

