



# Magnitude<sup>®</sup> WME Magnetic Bearing Chiller

Maintenance and Operation Course

Daikin University, Irvine, CA



Maintenance, operation, trouble shooting, and performance analysis  
of Daikin Magnitude<sup>®</sup> WME Magnetic Bearing Centrifugal chillers

Daikin Applied is accredited by the International Association for Continuing Education and Training (IACET) and is authorized to issue the IACET CEU.



# Magnitude<sup>®</sup> WME Magnetic Bearing Centrifugal Chiller Maintenance & Operation Course

## Course Location

Daikin University  
17570 Cartwright Road  
Irvine, CA  
PH: 949-732-5000

## Course Fee

\$1,600

## Course Length

3 days

## CEU's Offered - 2.3

Yes  No

Testing Required

Yes  No

## 2017 Course Schedule

Mar 14 - 16  
(3 full days)

## Registration Deadline

Mar 3

The training fee is 10%  
higher for registrations re-  
ceived after the deadline.

Daikin Learning Institute  
will provide

Instruction Materials  
Coffee Breaks  
Lunch

## Magnitude<sup>®</sup> WME Magnetic Bearing Chiller Maintenance & Operation Course

The Magnitude<sup>®</sup> WME Magnetic Bearing Chiller Course is designed to teach the maintenance and service technician how to maintain and operate the Magnitude WME magnetic bearing chillers. The standard program for the Magnitude WME Magnetic Bearing Chiller Maintenance & Operation is three days of intensive training.

### Prerequisite:

The student should have a minimum of 5 years experience with Centrifugal chillers to maximize the benefit of this course. The Magnitude<sup>®</sup> WME magnetic bearing chiller uses a centrifugal compressor that has highly technical components.

### Learning Outcomes:

Upon successful completion of this course, students will be able to:

- Define and analyze the basic refrigeration cycle of water chillers
- Describe magnetic bearing centrifugal chiller & compressor design & operation
- Review different types of chillers and their manufacturing processes
- Identify MicroTech E<sup>®</sup> control system components
- Navigate MicroTech E<sup>®</sup> for Magnitude WME software
- Describe Electronic Expansion Valve operation (EXV)
- Describe the purpose and function of WME REV-part-load-balance valves
- Describe variable speed drive components and operation
- Optimize operation of cooling tower controls with Magnitude WME chillers
- Use Trend analysis software
- Perform general maintenance procedures

Upon completion of this training course, students will be provided access to the Daikin Applied Technical Response Center for technical assistance on Daikin Magnitude<sup>®</sup> WME Centrifugal products.

## Daikin Learning Institute Safety Statement

The goal of Daikin Learning Institute is to provide product specific training and information necessary to establish a high level of proficiency in operating and servicing Daikin products. While product specific safe work procedures are built into our training program, knowledge and formal training of an applicable safe working culture, competency, practices and procedures for working in the HVAC field is the obligation of the employer and individual prior to attending Daikin Applied equipment training.



# Magnitude<sup>®</sup> WME Magnetic Bearing Centrifugal Chiller Maintenance & Operation Course

## Daikin Learning Institute Service Training Registration Form

Course Title: \_\_\_\_\_  
Dates: \_\_\_\_\_  
Course Location: \_\_\_\_\_  
Company Name: \_\_\_\_\_  
Mailing Address: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Student Name: \_\_\_\_\_ Email: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_  
Submitted By: \_\_\_\_\_ Email: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

### **Please Specify Payment Option Below And Complete All Information.**

Company Name: \_\_\_\_\_  
Billing Address: \_\_\_\_\_  
Contact: \_\_\_\_\_  
City, State, Zip: \_\_\_\_\_  
Phone Number: \_\_\_\_\_ Fax Number: \_\_\_\_\_

PURCHASE ORDER: (Purchase Order MUST accompany registration)  CHECK (Due prior to start of class)

CREDIT CARD:  Master Card  VISA  American Express  Discover (Novus)

Card Number: \_\_\_\_\_ Expiration Date: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

Cardholder Printed Name: \_\_\_\_\_

### **Payment is due in advance or student(s) will not be admitted.**

Mail copy of application form and check to:  
Daikin Applied/ Attn: Daikin Learning Institute  
P.O. Box 2510  
Staunton, VA 24402-2510

Fax application, copy of purchase order/check to:  
Linda Custer at 763-509-7663  
E-mail to:  
[linda.custer@daikinapplied.com](mailto:linda.custer@daikinapplied.com)

*Daikin Learning Institute reserves the right to make changes or alternations to the course content or schedule, and is not responsible for fees associated with changing dates or cancellation of classes. In the unlikely event of a schedule change or cancellation, our best effort will be made to notify all registrants in a timely manner.*