

## 2019 TRAINING PROGRAMS



**3 day**

**Multistack  
Airstack Modular**

Jan. 8-10	April 23-25
Feb. 19-21	May 21-23
March 12-14	June 4-6

**5 day**

**MagLev®  
Gen 1 & 2**

March 25-29
June 17-21

**3 day**

**Heat Pump  
Heat Recovery**

Feb. 5-7
June 25-27

**5 day**

**MagLev®  
GenIII**

Jan. 21-25
March 4-8
May 6-10

**3 day**

**ARA**

April 9-11
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MULTISTACK®



AIRSTACK®



MAGLEV®



FLEXSYS™



ARA



**MULTISTACK & AIRSTACK - MODULAR TRAINING PROGRAM**

In our three day Multistack & Airstack training program, contractors and owner service technicians learn how to install, operate, maintain, and troubleshoot Multistack and Airstack chillers. Technicians who attend this course will help reduce expenses and downtime when servicing the equipment by having factory taught skills.

Participants will learn the design and controls of both, water and air cooled chillers, start up procedures, servicing, and off season maintenance.

The course balances classroom theory with hands-on training. State of the art equipment, experienced instructors, and detailed training support materials assure an effective and thorough learning experience. Technicians who complete the course and one factory supervised start-up will receive certification as a “Multistack & Airstack Authorized Service Technician”.

<b>TUITION</b>	\$900. Includes lunches, one evening dinner and local transportation. Participants are responsible for travel and hotel costs.
<b>CLASS</b>	8:00 am to 4:30 pm 3 days.
<b>CLOTHING</b>	Casual - Note, for security reasons no open toed shoes are permitted.
<b>LODGING</b>	Hampton Inn, Onalaska

*We have reserved a block of guest rooms at the Hampton Inn in Onalaska, WI, for \$80 per night plus taxes. Please make your reservations by clicking on the appropriate link below. If you require additional information, call the hotel directly (608-779-5000). Note that reservations can be made up to 10 days before class dates.*

[January, February and March reservations click here](#)

[April, May and June reservations click here](#)

- DAY 1**
- Company history
  - Factory tour
  - Water cooled components
  - Installation
  - Controller walk through

- DAY 2**
- Water cooled simulators
  - Heat pump and Heat recovery
  - Air-cooled components
  - Installation
  - Air-cooled controller variation

- DAY 3**
- Air-cooled simulators
  - Turbocor overview
  - Start-up Discussion
  - Maintenance

**MODULAR CURRICULUM**

Company history, factory tour, water cooled components, installation, and controller walk through. Water-cooled simulators, heat pump and heat recovery overview, air-cooled components, installation and controller variations. Air-cooled components, air-cooled installation, basic air-cooled controls. Air-cooled control simulators, maintenance, Turbocor over view, and Start-up discussion.

**LEVEL II: HEAT PUMP/HEAT RECOVERY**

**PREREQUISITE:** Multistack/Airstack Modular Training class

This class covers controls and operation for the Heat pump, and DHRC® (Dedicated Heat Recovery Chiller) with use of simulators. This class will also focus on how the controls differ between the basic heat pump and DHRC®, and the VME (Virtual Moveable Endcap) 2 systems (that incorporate the DHRC® modules).

<b>TUITION</b>	\$900. Includes lunches, one evening dinner and local transportation. Participants are responsible for travel and hotel costs.
<b>CLASS</b>	8:00 am to 4:30 pm 3 days.
<b>CLOTHING</b>	Casual - Note, for security reasons no open toed shoes are permitted.
<b>LODGING</b>	Hampton Inn, Onalaska

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- DAY 1**
- Components MSX DHRC
  - Basic DHRC Control Overview
  - DHRC Master controller operation
  - DHRC Module controller operation

- DAY 2**
- Components MSX HP
  - HP Controller differences
  - Components VME II, VME II Overview
  - VME II Install
  - VME II Operation and Controller
  - VME II Startup

- DAY 3**
- ARA Refrigerant Flow
  - C.PCO controller
  - ARA controller walkthrough



**MAGLEV GEN 1 & 2 - TRAINING PROGRAM**

The MagLev GEN 1 & 2 training programs are for contractors and owner service technicians. Students learn how to operate, maintain, modify controls, and trouble shoot MagLev GEN 1 & 2 Chillers. By attending this course, students will help reduce expense and downtime when servicing MagLev equipment.

The class is in two parts which can be taken together or separate. These two parts are MagLev/Turbocor (2-day) and FlexSys (3-day). The trainee will learn the design and controls of Turbocor compressors, its maintenance; as well as, the layout, settings, operation, and adjustments available in the FlexSys controller of the MagLev chiller.

The course balances classroom theory with hands on training, state of the art equipment, experienced instructor, and detailed training support materials assure students of an effective and thorough learning experience.

The Turbocor portion of this class runs for two days and is for those who need training on Turbocor Compressors only (OEM). The FlexSys portion of the class runs three days and is for those who already have a working knowledge of the Turbocor Compressor and need to know how the Multistack MagLev chiller controls the compressors differently from other manufacturers. The entire 5 day MagLev class is designed for any technician who needs the knowledge base to work on both sides of the machine (compressor and controls).

**TUITION**  
2 Day  
Turbocor  
or  
3 Day  
FlexSys  
Course

Full 5 Day  
Course

**CLASS**

**CLOTHING**

**LODGING**

**\$900.** Includes lunches, local transportation, one evening dinner.  
Participants are responsible for travel and hotel cost.

**\$1,250.** Includes lunches, local transportation, and two evening dinners.  
Participants are responsible for travel and hotel costs.

8:00 am to 4:30 pm 2, 3 or 5 days.

Casual - Note, for security reasons no open toed shoes are permitted.

Hampton Inn, Onalaska

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**DAY 1**

- History/Compressor Intro.
- Factory Tour
- Centrifugal Basics
- Compressor components
- Compressor disassembly (Hands on)

**DAY 2**

- Compressor interface
- Monitoring Software (SMT)
- Maintenance and troubleshooting
- Component testing (Hands on)

**DAY 3**

- FlexSys Basics
- Controller components and layout
- User Screens
- Controller Settings
- Logging into a controller with a laptop

**DAY 4**

- Exercise 1
- Basic logic writing
- Exercise 2
- Advanced Logic Writing
- Exercise 3

**DAY 5**

- Test
- Test Review



**MAGLEV GENIII - TRAINING PROGRAM**

The planned class layout for the MagLev GenIII flooded class will introduce the students to the Turbocor VTT compressor as well as the Turbocor TT compressor. This introduction will include operation of these compressors, components, and tear down with testing of components. After the compressors, we will then begin covering the third generation FlexSys controller. The controller portion of the class will include basic operation, components and an in depth look at all of the settings.

<b>TUITION</b>	<b>\$1,250.</b> Includes lunches, local transportation, and two evening dinners. Participants are responsible for travel and hotel costs.
<b>CLASS</b>	8:00 am to 4:30 pm, 5 days
<b>CLOTHING</b>	Casual - Note, for security reasons no open toed shoes are permitted.
<b>LODGING</b>	Hampton Inn, Onalaska

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- DAY 1**
- Company History, Compressor
  - Factory Tour
  - Centrifugal Basics
  - TT Compressor components
  - VTT Compressor components
  - TT Compressor disassembly (Hands

- DAY 2**
- VTT Compressor disassembly (Hands
  - TIB and CIM operation
  - Monitoring Software (SMT)
  - Maintenance and troubleshooting

- DAY 3**
- TT Component Testing (Hands on)
  - VTT Component Testing (Hands
  - FleySys Basics
  - Controller Components
  - Logging into a controller with a

- DAY 4**
- Connecting to controller through
  - End Level user log on
  - Technician Level user log on
  - Controller settings
  - Controller exercise

- DAY 5**
- Test

**ARA - TRAINING PROGRAM**

The planned class layout for the ARA will include the following: C.Pco - controller background, program installation, file transfer, trend logs, ARA piping layout as well as refrigerant flow through piping, and step-by-step current ARA software which includes all set points.

<b>TUITION</b>	<b>\$900.</b> Includes lunches, local transportation, and one evening dinner. Participants are responsible for travel and hotel costs.
<b>CLASS</b>	8:00 am to 4:30 pm, 3 days
<b>CLOTHING</b>	Casual - Note, for security reasons no open toed shoes are permitted.
<b>LODGING</b>	Hampton Inn, Onalaska

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- DAY 1**
- Piping Lay out
  - Modes of operation
  - C.Pco set up
  - Program installation

- DAY 2**
- Controller settings
  - Remote internet connection

- DAY 3**
- FTP log in for remote log retrieval
  - Downloading logs