



# Arctic Chiller Group Training Program

The Arctic Chiller Group is proud to offer a training and certification course to provide technicians with the necessary skills to maintain and troubleshoot Arctic chiller systems.

This 3-day course covers the latest in Danfoss Turbocor® compressor technology, monitoring software, controllers, and Arctic chiller systems.



## Maintenance Training and Certification – Service Providers

### COURSE DESCRIPTION

This 3-day course is for service contractors who will maintain, service and troubleshoot Arctic Chiller Group chiller systems outside of the warranty period.

The course covers the latest in Danfoss Turbocor® compressor technology, monitoring software, controllers, and Arctic chiller systems.

#### DURATION

21 hours over 3 days (9 a.m. to 4 p.m.)

#### COURSE OUTLINE

##### Day 1

- Company Overview/Technology History
- Facility Tour
- Turbocor® DTC Compressor
  - Compressor overview and key features
  - Discussion on centrifugal compressors
  - Compressor in-depth
  - Compressor operation
  - DTC Service Monitoring Tool (SMT) installation

##### Day 2

- Controller review
  - Controller set up
  - Controller troubleshooting
  - Software installation
  - Chiller component review
  - Field server set up and operation

##### Day 3

- DTC SMT overview
- Compressor troubleshooting
- Chiller troubleshooting
- Technical literature familiarization
- Arctic Cool chiller forms and procedures

#### COMPETENCIES ACHIEVED

- Turbocor® compressors
  - TT300-TT500 components set up and troubleshooting
- Turbocor® monitoring software
  - Set up
- Arctic chiller controls
  - Set up and adjustments
- Sporlan expansion valves
  - Set up and adjustments

#### TWO-YEAR CERTIFICATION

Certification is valid for 2 years upon successful completion of the training course. A refresher course may be necessary to gain knowledge on new designs and technology.

**Important:** This course does not certify technicians to act as certified trainers for Arctic Cool chiller systems or Danfoss Turbocor® systems.

The Arctic Chiller Group reserves the right to:

1. Require additional courses or refresher training for certification to remain valid;
2. Reject applicants or refuse certification at its sole discretion if the prerequisites are not met to the satisfaction of training administrators.

#### PREREQUISITES

- Previous HVAC accreditation or minimum field experience
  - Documented education 1 of the following: Engineering degree, Associate's degree or Trade certificate
  - Minimum 5 years of experience with centrifugal chillers
- Adequate computer skills
  - Familiar with Microsoft Windows

- Familiar with Microsoft Office
- Ability to copy/paste files/folders
- Ability to open, create and save files
- Ability to capture screen shots
- Ability to download and install software
- Familiar with basic multi-meter functions
  - Measuring resistance ( $\Omega$ )
  - Measuring voltage (V)
  - Measuring amperage (A)
  - Measuring milli-amperage (mA)
  - Measuring continuity (...)
  - Measuring diodes
  - Measuring capacities
- Laptop computer
  - Windows XP/Vista 32-bit Operating System or Higher
  - Adobe Reader
  - Microsoft Word
  - Microsoft Excel
  - Portable wireless internet access
  - NO ADMINISTRATIVE RESTRICTIONS
- English language proficiency
  - Spoken
  - Written

#### PREFERENCES

- Ability to read P&ID documents
- Previous electrical training
- Previous centrifugal chiller experience
- Previous VFD experience
- Previous controls experience

#### COST

\$ 2,500 USD per person

- Price includes:
  - Danfoss Turbocor<sup>®</sup> software
  - Controller software
  - Current manuals (electronic format)
  - Hotel stay 3 nights paid, breakfast included (room and tax only)
  - Lunch 3 days
  - Dinner 2 nights

*Cost is based on a maximum-sized class of 14 participants only. Payment must be made in full at least 1 week prior to the class start date through [rozir@arcticchillergroup.com](mailto:rozir@arcticchillergroup.com) or call 905-789-9988.*

#### TRAINING CLASS SCHEDULE

The following dates are tentatively scheduled for the technical training classes. Dates are subject to change.

- 14 places on the following dates:
  - January 17-19
  - February 21-23
  - March 21-23
  - April 25-27
  - May 30-June 1
  - September 26-28
  - October 24-26
  - November 28-30

#### LOCATION:

Arctic Cool Chillers Limited  
 2100 Steeles Avenue East  
 Brampton, ON L6T 1A7  
 Phone: 905-789-9988  
 Fax: 905-789-9945

**Important:** All confirmed participants will be notified **2 weeks prior** to the **course start date**. Await your official enrollment confirmation e-mail before booking flight reservations.

If enrollment is insufficient, the Arctic Chiller Group reserves the right to cancel and/or reschedule a training course a minimum of 2 weeks prior to the scheduled course date.



# Maintenance Training and Certification – Service Providers

## APPLICATION FORM

Please complete and submit this form via e-mail or fax to:

**Justin Weightman:** justinw@arcticchillergroup.com or  
**Ali Khadiv:** akhadiv@arcticchillergroup.com or  
**Service:** service@arcticchillergroup.com  
**Fax c/o Ali Khadiv** at 905-789-9988, ext. 223.

### Contractor

Company Name \_\_\_\_\_  
Contact Name \_\_\_\_\_  
Address / City \_\_\_\_\_  
Province / State - Postal / Zip Code \_\_\_\_\_  
Office / Fax No. \_\_\_\_\_

### Applicant

Name \_\_\_\_\_  
Title \_\_\_\_\_  
Cell. No. \_\_\_\_\_  
e-mail \_\_\_\_\_

### Course Prerequisites per Applicant

Education (List degree, certification) \_\_\_\_\_  
Years of experience with centrifugal chillers (5 years' minimum required) \_\_\_\_\_  
Adequate computer skills? Yes \_\_\_\_\_ No \_\_\_\_\_  
Familiar with basic multi-meter functions? Yes \_\_\_\_\_ No \_\_\_\_\_  
Laptop computer prerequisites met? Yes \_\_\_\_\_ No \_\_\_\_\_  
Proficient in spoken/written English? Yes \_\_\_\_\_ No \_\_\_\_\_

### Session Booking

Training dates preference \_\_\_\_\_  
Purchase Order Number \_\_\_\_\_  
Method of payment \_\_\_\_\_

### Office Use Only

Training date Session \_\_\_\_\_  
Prerequisites confirmed \_\_\_\_\_  
Confirmed to client via: \_\_\_\_\_  
Payment received \_\_\_\_\_