2019/2020
Integrated Learning Calendar

HANDS-ON TRAINING  |  INSTRUCTOR-LED TRAINING
## FULL COURSE SCHEDULE

<table>
<thead>
<tr>
<th>Course Name</th>
<th>Date(s)</th>
<th>Location(s)</th>
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</thead>
<tbody>
<tr>
<td>COPELAND COMPRESSOR TRAINING</td>
<td>$249</td>
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<tr>
<td></td>
<td>October 17, 2019</td>
<td>Brantford, ON</td>
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<td></td>
<td>February 12, 2020</td>
<td>Brantford, ON</td>
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<tr>
<td>ELECTRONICS TRAINING</td>
<td>$249</td>
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<td></td>
<td>April 16, 2020</td>
<td>Brantford, ON</td>
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<tr>
<td>MODULATION TRAINING</td>
<td>$249</td>
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<td>February 20, 2020</td>
<td>Brantford, ON</td>
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<tr>
<td>NATURAL REFRIGERANTS</td>
<td>$549</td>
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<td>November 13–14, 2019</td>
<td>Brantford, ON</td>
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<td>December 11–12, 2019</td>
<td>Brantford, ON</td>
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<td></td>
<td>May 13–14, 2020</td>
<td>Brantford, ON</td>
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<tr>
<td>INTRODUCTION TO THE E2 CONTROLLER TRAINING</td>
<td>$399</td>
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<td></td>
<td>October 2, 2019</td>
<td>Brantford, ON</td>
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<td>October 29, 2019</td>
<td>Montréal, QC</td>
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<td>Winnipeg, MB</td>
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<td>April 22, 2020</td>
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<tr>
<td>E2 SYSTEM PROGRAMMING AND INTEGRATION TRAINING</td>
<td>$499</td>
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<td>October 30, 2019</td>
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<td>November 20, 2019</td>
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<tr>
<td>VILTER RECIPROCATING COMPRESSOR TRAINING</td>
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<td>VILTER SCREW COMPRESSOR &amp; VISSION 20/20 TRAINING</td>
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<td>October 23–24, 2019</td>
<td>Halifax, NS</td>
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<td>November 6–7, 2019</td>
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<td>November 27–28, 2019</td>
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<td>March 31–April 1, 2020</td>
<td>Mississauga, ON</td>
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<tr>
<td>HEATING PRODUCTS TRAINING</td>
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<td>September 16–17, 2020</td>
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<tr>
<td>A/C PRODUCTS TRAINING</td>
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<td>May 20–21, 2020</td>
<td>Brantford, ON</td>
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### Look for the 3 FOR 2 Symbol on selected courses

The **3 for 2 program** entitles the registering company to a complimentary seat in the same course. Complimentary seat is non-transferable between other Emerson course offerings.

*Offer can be combined with multiple dates of the same course. Only valid for attendees registering and paying at the same time.*
Copeland Compressors
CAUSES AND PREVENTION OF COMPRESSOR FAILURES

ONE DAY SESSION  8:00 AM–4:00 PM

DATES AND LOCATION
October 17, 2019:  Brantford, ON
February 12, 2020:  Brantford, ON

KEY TAKEAWAYS
Technicians will acquire the ability to:
• Reduce call backs
• Effectively service, maintain, and troubleshoot a compressor
• Identify performance issues
• Avoid compressor failures and warranty claims

FEATURED TOPICS
• Understanding the refrigeration cycle
• Compressor fundamentals
• Compressor technologies
  – Digital technologies
  – Copeland Scroll two-stage
• Good service practices and troubleshooting techniques
• Analyzing system issues with CoreSense technology
• Applications and system accessories
• Understanding why compressors fail
• Hands-on diagnostics and teardown
• Online tools and mobile applications

REGISTRATION
A fee of $249 per person includes the hands-on course, all course materials, breakfast and lunch.

Register online at: emersoncanada.regfox.com/copeland-training

Cancellations received within one week prior to the scheduled course date will be charged the full course fee.

* Some conditions apply on 3 for 2 offer. Complimentary seat is non-transferable to other courses but is valid for any date this course is offered.

INTEGRATED LEARNING

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2019CAN-24
Electronics Training

ONE DAY SESSION  8:00 AM – 4:00 PM

DATE AND LOCATION
April 16, 2020: Brantford, ON

KEY TAKEAWAYS
Technicians will acquire the ability to:
- Properly select and size components
- Use best practices during installation and service
- Effectively maintain and troubleshoot
- Optimize efficiency

FEATURED TOPICS
Overview of Emerson Electronics Portfolio
- X-Line Controller: XCM25D
- EC3-D72, EXD-SH1/2, Electronic valves

Dixell Product Overview:
- XR Prime Controller
- Universal XR
- XW60K Walk in Box Controller
- XWeb Evo

Hands-on training will include wiring, programming and testing on active refrigeration systems.

REGISTRATION
A fee of $249 per person includes the hands-on course, all course materials, breakfast and lunch.

Register online at: emersoncanada.regfox.com/electronics

Cancellations received within one week prior to the scheduled course date will be charged the full course fee.

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3 FOR 2
Book 2 and Get 3
Two paid registrations will qualify a company for one additional complimentary session in the same course.*

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Modulation Training

ONE DAY SESSION  8:00 AM–4:00 PM

DATE AND LOCATION
February 20, 2020:  Brantford, ON

KEY TAKEAWAYS
Attendees will acquire the ability to:
• Understand compressor modulation strategies
• Understand opportunities for new installation and retrofits
• Understand new products and emerging technologies

FEATURED TOPICS
• Copeland Discus Digital & Scroll
• Copeland Scroll two-stage
• Variable Speed Compressors – Residential
• Variable Speed Compressors – Commercial
• VFDs on Fixed Compressors

REGISTRATION
A fee of $249 per person includes all course materials, breakfast and lunch.
Register online at:
emersoncanada.regfox.com/modulation

Cancellations received within one week prior to the scheduled course date will be charged the full course fee.
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Natural Refrigerants

TWO DAY SESSIONS  8:00 AM – 4:00 PM

DATES AND LOCATIONS

November 13 and 14, 2019: Brantford, ON
December 11 and 12, 2019: Brantford, ON
May 13 and 14, 2020: Brantford, ON

KEY TAKEAWAYS

Technicians will acquire the ability to:

• Understand major trends in CO₂, NH₃, and R290
• Understand new terminology; transcritical, supercritical, subcritical, flash gas
• Properly map a cascade and transcritical booster system
• Use best practices to service natural refrigerant systems
• Recognize advantages of using natural refrigerants in refrigeration
• Start up, run, and test a CO₂ transcritical trainer

FEATURED TOPICS

• Introduction to CO₂, NH₃, and R290 as refrigerants
• Pressure enthalpy chart differences:
  – Subcritical vs. transcritical systems
• Basic system comparisons:
  – Secondary systems (CO₂ volatile brine)
  – Hybrid cascade systems NH₃/CO₂
  – Transcritical booster systems
• Safety handling and maintenance
• Charging of CO₂ system
• Oil management
• Gas cooler control
• Start-up and shutdown sequences
• Refrigerant regulations and code update

REGISTRATION

A fee of $549 per person includes all course materials, breakfast and lunch.

Register online at: emersoncanada.regfox.com/natural-refrigerants

Cancellations received within one week prior to the scheduled course date will be charged the full course fee.

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3 FOR 2
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Introduction to the E2 Controller

ONE DAY SESSION 8:00 AM – 4:00 PM

DATES AND LOCATIONS

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<thead>
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KEY TAKEAWAYS

Technicians will acquire the ability to:

- Understand the E2 control architecture/hierarchy
- Navigate the E2 controller
- Comprehend the basic functions; rack control, circuit control, condenser control
- Use basic functions to create graphs, initiate defrost, change set points
- Understand the alarm management

FEATURED TOPICS

- E2 control platform overview
- E2 control hierarchy
- Set-up, networking & configuration
- Alarm management
- Introduction to programming
- Troubleshooting

REGISTRATION

A fee of $399 per person includes the hands-on course, all course materials, breakfast and lunch.

Register online at: emersoncanada.regfox.com/E2-intro

Cancellations received within one week prior to the scheduled course date will be charged the full course fee.

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INTEGRATED LEARNING
E2 System Programming and Integration

ONE DAY SESSION  8:00 AM – 4:00 PM

DATES AND LOCATIONS

October 3, 2019: Brantford, ON
December 5, 2019: Dartmouth, NS
January 23, 2020: Burnaby, BC
February 13, 2020: Edmonton, AB
March 5, 2020: Winnipeg, MB
April 23, 2020: Brantford, ON

KEY TAKEAWAYS

Technicians will acquire the ability to:
• Use UltraSite™ service software to: perform backup and restore, program applications, and troubleshoot problems
• Set up Ethernet Peer to Peer network, Modbus network
• Add and configure Modbus devices
• Customize their applications

FEATURED TOPICS

• Modbus network wiring
• Modbus device integration
• Ethernet network
• Pointers and associations
• Analog and Digital Combiners
• UltraSite™ Software
• Program discrete controls
• PID Loop

This course is designed for Intermediate/Advanced users of the E2 controller. Attendees should be fully comfortable navigating within the E2 environment and have considerable experience working with the E2 on a regular basis.

REGISTRATION

A fee of $499 per person includes the hands-on course, all course materials, breakfast and lunch.

Register online at: emersoncanada.regfox.com/E2-advanced

Cancellations received within one week prior to the scheduled course date will be charged the full course fee.

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3 FOR 2
Book 2 and Get 3
Two paid registrations will qualify a company for one additional complimentary session in the same course.*
Introduction au contrôleur E2

Séance d'un jour (8 h –16 h)

DATES ET LIEUX

29 octobre 2019: Montréal, QC
19 novembre 2019: Québec, QC

PRINCIPAUX APPRENTISSAGES

Les techniciens apprendront à :

• Comprendre l'architecture et la hiérarchie de contrôle de la plateforme E2
• Navigation au travers des menus du contrôleur E2
• Comprendre les fonctions de base : Contrôle du groupe compresseur, circuit, condenseur
• Utiliser les fonctions de base pour produire des graphiques, démarrer le dégivrage, changer des consignes
• Comprendre la gestion des alertes

SUJETS ABORDÉS :

• Survol de la plateforme de contrôle E2
• Hiérarchie de contrôle de la plateforme E2
• Installation, mise en réseau et configuration
• Gestion des alertes
• Introduction à la programmation
• Diagnostique

INSCRIPTION

Les frais de 399 $ par personne incluent la formation pratique, la documentation et les repas du matin et du midi.

Inscrivez-vous en ligne à :
emersoncanada.regfox.com/E2-intro-fr

Les annulations dans la semaine précédant la formation ne donnent droit à aucun remboursement.

* Certaines conditions s’appliquent à l’offre 3 pour 2. L’inscription gratuite peut être utilisée pour n’importe quelle séance de la formation, mais ne peut être utilisée pour une autre formation.

3 POUR 2
Réservez 2 places, obtenez-en 3
Une entreprise qui paie pour deux inscriptions a droit à une inscription gratuite à la même formation.*
Intégration et programmation du système E2

Séance d’un jour (8 h –16 h)

DATES ET LIEUX

30 octobre 2019: Montréal, QC
20 novembre 2019: Québec, QC

PRINCIPAUX APPRENTISSAGES

Les techniciens apprendront à :
• Utiliser le logiciel UltraSite™ pour la sauvegarde et la restauration, la programmation d’applications et le diagnostique
• Configurer les réseaux Ethernet et Modbus
• Ajouter et configurer des appareils Modbus
• Personnaliser leurs applications

SUJETS ABORDÉS :

• Câblage de réseau Modbus
• Intégration d’appareils Modbus
• Réseau Ethernet
• Pointeurs et associations
• Combineurs analogiques et numériques
• Logiciel UltraSite™
• Programmation de commandes précises
• Boucle PID

Cette formation est conçue pour les utilisateurs du contrôleur E2 de niveau intermédiaire ou avancé. Les participants doivent être parfaitement à l’aise dans un environnement E2 et avoir acquis beaucoup d’expérience en travaillant régulièrement avec la plateforme E2.

INSCRIPTION

Les frais de 499 $ par personne incluent la formation pratique, la documentation et les repas du matin et du midi.

Inscrivez-vous en ligne à :
emersoncanada.regfox.com/E2-avancee-fr

Les annulations dans la semaine précédant la formation ne donnent droit à aucun remboursement.

* Certaines conditions s’appliquent à l’offre 3 pour 2. L’inscription gratuite peut être utilisée pour n’importe quelle séance de la formation, mais ne peut être utilisée pour une autre formation.

FORMACION INTEGRADA

3 POR 2
Réservé 2 plazas, obtiene 3
Una empresa que paga por dos inscripciones tiene derecho a una inscripción gratuita en la misma formación.
Vilter Reciprocating Compressors

ONE DAY SESSION  8:00 AM–5:00 PM

DATES AND LOCATIONS
November 26, 2019:  Brantford, ON

KEY TAKEAWAYS
Technicians will acquire the ability to:
• Understand the compressor’s unique design features
• Properly select components for 400 Series VMC Compressors
• Use best practices during installation and service
• Effectively maintain and troubleshoot
• Optimize efficiency

FEATURED TOPICS
• Compressor technology and components
• Oils and oil management
• Compressor maintenance
• Compressor troubleshooting
• Compressor start-up
• Reciprocating compressor teardown and inspection

REGISTRATION
A fee of $350 per person includes all course materials, breakfast and lunch.

Register online at: emersoncanada.regfox.com/vilter-recip

Cancellations received within one week prior to the scheduled course date will be charged the full course fee.

* Some conditions apply on 3 for 2 offer. Complimentary seat is non-transferable to other courses but is valid for the date the course is offered above.

3 FOR 2
Book 2 and Get 3
Two paid registrations will qualify a company for one additional complimentary session in the same course."
Vilter Screw Compressors & Vission 20/20

TWO DAY SESSION 8:00 AM–5:00 PM

DATES AND LOCATIONS
October 23 and 24, 2019: Halifax, NS
November 6 and 7, 2019: Montréal, QC
November 27 and 28, 2019: Brantford, ON
January 22 and 23, 2020: Winnipeg, MB
February 19 and 20, 2020: Calgary, AB
March 11 and 12, 2020: Vancouver, BC
March 31 and April 1, 2020: Mississauga, ON

KEY TAKEAWAYS
Technicians will acquire the ability to:
• Understand the compressor’s unique design features
• Properly select components for VSM and VSS compressors
• Inspect compressor internals and tolerances
• Effectively maintain and troubleshoot
• Optimize efficiency
• Understand the capabilities of Vilter control panels
• Understand differences between soft starters and variable frequency drives

FEATURED TOPICS
• Single Screw compressor technology and components
• Oil cooling and management
• Calibration of actuators
• Compressor start-up, maintenance and troubleshooting
• Single Screw compressor teardown and inspection
• Vilter Vission 20/20
• Starters & VFDs for compressors

REGISTRATION
A fee of $700 per person includes all course materials, breakfast and lunch.

Register online at: emersoncanada.regfox.com/vilter-screw

Cancellations received within one week prior to the scheduled course date will be charged the full course fee.

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3 FOR 2
Book 2 and Get 3
Two paid registrations will qualify a company for one additional complimentary session in the same course.*
Heating Products Training

TWO DAY SESSION  8:00 AM–4:00 PM

DATE AND LOCATION
September 16 and 17, 2020:  Brantford, ON

KEY TAKEAWAYS
Participants will acquire the ability to:
• Understand installation, configuration, and maintenance of White-Rodgers heating products
• Troubleshoot gas valves, thermostats, zone controls, and furnace ignition controls
• Understand wiring diagrams and system diagnostics
• Properly select gas valves

FEATURED TOPICS
• Introduction to White-Rodgers heating products
• New thermostat technologies made simple
• Gas valves, thermostats, zone controls, and furnace ignition control selection
• Cross referencing to universal parts
• Online tools and apps
• Interactive group exercises – Troubleshooting, servicing and understanding what causes components and systems to fail

REGISTRATION
A fee of $299 per person includes all course materials, breakfast and lunch.

Register online at:  https://emersoncanada.regfox.com/heating-products

Cancellations received within one week prior to the scheduled course date will be charged the full course fee.

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3 FOR 2
Book 2 and Get 3
Two paid registrations will qualify a company for one additional complimentary session in the same course.*
Air Conditioning Products Training

TWO DAY SESSION 8:00 AM – 4:00 PM

DATE AND LOCATION

May 20 and 21, 2020: Brantford, ON

KEY TAKEAWAYS

Participants will acquire the ability to:
• Understand TXV and solenoid valve function
• Understand proper sizing, installation, and set up of TXV, solenoid valves, and system protectors
• Troubleshoot and diagnose Scroll compressors

FEATURED TOPICS

• Residential and Light Commercial
• Understanding Scroll compressors
• Introduction to electronic valves and controllers
• Cross-referencing
• Online tools and apps
• Interactive group exercises including:
  – How to properly set subcooling and superheat on 18,000 BTU systems
  – Understand what caused components or compressors to fail

REGISTRATION

A fee of $299 per person includes all course materials, breakfast and lunch.

Register online at: emersoncanada.regfox.com/ac-training

Cancellations received within one week prior to the scheduled course date will be charged the full course fee.

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Integrated Learning Instructor Profiles

**Trevor Matthews**  
RSE  
HVAC/R TRAINING & DEVELOPMENT SPECIALIST  
Trevor has over 15 years of experience in the refrigeration industry and is a certified trainer in adult education. He has worked with commercial refrigeration and HVAC companies in Canada as well as abroad. Trevor is dedicated to providing professional training and helping clients achieve their vision for success through his role with Emerson.

**François Aucoin**, Ing. M.Sc.A.  
SENIOR MANAGER, PROJECT & FIELD SERVICES  
François is a Professional Engineer who began his career in refrigeration as the Manager of Design and Energy for a major supermarket chain in Canada. François has over 15 years of experience in Project Management with Emerson Retail Solutions, and has designed over 250 refrigeration, HVAC and energy management systems.

**Jeff Stroud**  
NATIONAL RETAIL SOLUTIONS ACCOUNT MANAGER  
Jeff is responsible for business development and account management for Retail Solutions Canada. Jeff has 25 years of experience in various refrigeration business segments including Copeland, aftermarket wholesale, OEM coordination at Emerson and recently, controls and automation with Emerson Retail Solutions.

**Peter Sison**  
FIELD SERVICES SPECIALIST  
Peter is a Field Services Specialist for Emerson Retail Solutions and has worked in the refrigeration and HVAC industry for over 18 years. He started his career as a refrigeration technician and prior, has studied as a Computer Engineering Technologist. He specializes in the E2 platform and all of the integrated electronic devices from the Emerson product line.

**Yvon St. Gelais**  
FIELD SERVICE SPECIALIST  
Yvon brings over 25 years of experience working in the automation industry. He started his career as an Electro-technician and prior, has studied automation. Working with Emerson for the past 15 years, Yvon has been able to utilize his skills to implement and support countless automated refrigeration and HVAC systems. Yvon specializes in the E2/Site Supervisor platforms and all of the integrated electronic devices from the Emerson product line.

**Tim Burke**  
EDUCATIONAL, APPLICATIONS, AND TECHNICAL SERVICES MANAGER  
Tim is a 40 year veteran to the HVACR industry and an Education and Learning Leader for White-Rodgers. A certified instructor for NATE and ACCA trainings, he is recognized as an expert in successful strategies for the application, troubleshooting and sales of HVACR products. He approaches contractor technical and sales training from the technician’s perspective in a common sense, down-to-earth manner that is readily understood and immediately applicable.
Alain Mongrain  
**RSE**  
**CONTRACTOR BUSINESS DEVELOPMENT MANAGER**  
Alain has 34 years of industry experience working in various capacities and over 8 years of experience with Emerson. Alain supports contractors in the field with the implementation of new technologies and retrofit solutions and educates partners on the benefits and value that can be derived from an Emerson solution.

Jim Dick  
**INDUSTRIAL SERVICE SPECIALIST**  
Jim is responsible for start-up, service and warranty of the Vilter Refrigeration and Gas Compression products at Emerson Canada. Jim is a licensed Refrigeration Mechanic with 32 years of experience in the industrial refrigeration field. He has extensive experience in large ammonia refrigeration systems, being involved in start-up, service and automation.

Greg Swiercz  
**MANAGER, TECHNICAL SERVICES**  
Greg has over 30 years of experience working at Emerson. With a background in refrigeration, air conditioning, and electronics he has worked in Engineering, Application Engineering, Operations, Customer Training and Sales roles within Emerson. As the Manager of the Technical Services team at Emerson's Brantford facility, Greg is active in many aspects of customer support including customer training.

Bruce Bosnell  
**PRODUCT SUPPORT SPECIALIST**  
Bruce is a Product Support Specialist with over 30 years of experience working at Emerson. Bruce’s work experience at Emerson has encompassed; Multi Skilled Lead Manufacturing Technician, Compressor Analysis Technician, Warranty Administrator, Engineering Control Specialist, Procurement and Operation Support.
Product Selection Software

Emerson’s Product Selection Software is an integrated PC based software tool that allows users to select and generate compressor performance. Users have the ability to:

- Simulate performance of a refrigeration rack of up to 10 compressors
- Perform annual energy analysis of selected compressors
- Generate non-standard conditions compressor performance, download rating coefficients, view reference drawings, wiring diagrams, and bill-of-materials
- Simulate AC Modulation for designing chillers and rooftop units
- Search for a Copeland compressor by application conditions

Find PSS under “Software Downloads” at the link below.

https://climate.emerson.com/online-product-information/opiinterfaceservlet

Technical Support When You Need It

Copeland™ Mobile

The Copeland Mobile smartphone app provides on-the-go access to Emerson Online Product Information (OPI) database for Copeland compressor specifications. This database includes both air conditioning and refrigeration products. Quickly locate:

- Model/serial number scanning
- Replacement cross references
- Service replacement parts
- Compressor diagnostics
- Where to buy

Available for Android™, Android Tablet, iPhone®, iPad® and BlackBerry® devices.
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