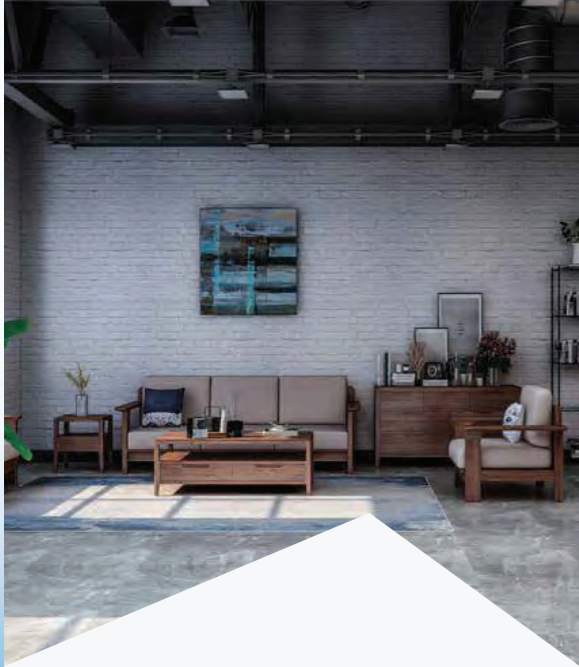


Copeland Variable Speed Solutions



COPELAND



Residential Air Conditioning

Our residential compressors include the latest advances in technology featuring major design improvements and breakthroughs in protection, reliability, efficiency, and sound.



Commercial Air Conditioning

Copeland offers the most advanced compression solutions creating cost-effective and comfortable indoor environments that meet requirements for modern office buildings.



Space Heating

Our comprehensive range of heating solutions provide precise and consistent comfort year-round while helping homes reduce their energy bills.



Sanitary Heating

Copeland scroll compressors set industry standards for high reliability and outstanding performance for water heating, making them the preferred choice for hotels, restaurants, and hospitals.



Commercial Refrigeration

From reducing food wastage in supermarkets, to boosting operational efficiency for cold storage facilities, Copeland technology enables refrigeration solutions to help extend the shelf life of perishables at every step of the lifecycle.

About

COPELAND

We are a global climate technologies company engineered for sustainability. Today, we are building on our 100-year legacy through industry-leading innovation, putting Copeland at the forefront of positive change. We create sustainable residential, commercial and industrial spaces through HVACR technologies. We maintain the integrity of goods throughout the cold chain. And we bring comfort to people globally.

Center for World-Class Manufacturing Excellence

Dubai, United Arab Emirates (UAE)

Technology hub and gateway to Middle East and Africa.



Dammam, Saudi Arabia

State-of-the-art manufacturing facility serving the region's ever-growing market.



Karad Engineering Lab, India

The center showcases psychrometric and integrated variable speed laboratories for R32 and R290 refrigerants. Full range testing compressor systems include reliability, performance, energy efficiency and sound level tests.



Suzhou Research and Solutions Center, China

Founded in 2002, the center is instrumental in the development of new compressors and innovative HVACR solutions for the Asia Pacific region. Equipped with state-of-the-art simulation laboratories, the R&D center boasts of the largest reliability testing lab in Asia.



Busan Climate Integrated Solutions Lab, Korea

The advanced facility provides a secure testing ground for customers aiming to maximize system performance and optimize energy efficiency.



Rayong, Thailand

Established In 1997, the Rayong facility is the first high-volume scroll compressor manufacturing plant in Asia.



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Sustainable and Innovative HVACR solutions for a greener future

To achieve the goals of the Paris Agreement, countries and companies worldwide must halve their greenhouse gas emissions by 2030 and reach net zero emissions by 2050. Fulfilling these decarbonization objectives requires innovative solutions, collaboration, and stakeholder commitment. Sustainable infrastructure characterized by its superior energy efficiency and use of environmentally friendly refrigerants advances decarbonization efforts by supporting the requirements of green buildings.

Packaged Copeland solutions enables best-in-class sustainable solutions to solve the toughest heating and air conditioning challenges in an evolving HVAC industry. We help customers determine what upcoming changes mean for their business while helping them prepare for tomorrow's challenges today.

Copeland Variable Speed Solutions







Delivering up to 30% Energy Savings Unparalleled **comfort** with **Precise Temperature** and **Humidity Control**

With an unparalleled commitment to engineering excellence, innovative design, and an extensive range of modulated solutions, Copeland not only establishes the benchmark for compression technology but also pioneers its evolution. Each Copeland Variable Speed solution consists of a meticulously engineered Copeland variable speed scroll compressor seamlessly integrated with a perfectly matched inverter drive, accompanied with essential agency approvals. This comprehensive package significantly minimizes development efforts and accelerates time to market, empowering businesses to thrive in a rapidly evolving HVAC industry.



Breakthrough Performance

Copeland Variable Speed compressors are engineered to provide optimal cooling and heating efficiency precisely when it's needed. Whether it's improving split air conditioning systems for high ambient temperatures, developing a packaged air conditioner tailored for four seasoned regions, or designing a chiller suited for China's unique climate, our innovative variable speed technology enables system manufacturers and building owners to attain unparalleled performance and value.

-  **Optimized scroll set with variable compression ratio valve technology**
 - Enables best peak load and part load efficiency
-  **Expansive 1000-7800rpm with highly efficient Brushless Permanent Motor (BPM)**
 - Supports seamless capacity modulation and load matching, reducing inrush current
-  **Enhanced Vapor Injection**
 - Helps deliver +30% capacity and enhanced efficiency at extreme low ambient conditions
-  **Low GWP Refrigerant**
 - R32 environment friendly solutions




Expansive Control & Flexibility

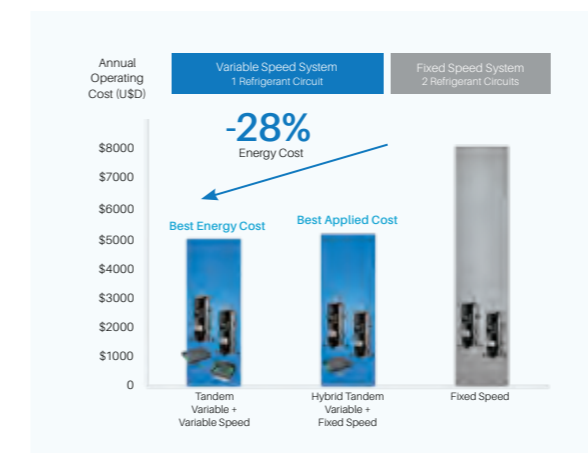
Copeland Variable Speed compressors are designed to enable system manufacturers, building owners experience a new level of control and operational flexibility.

-  **Broad Operating Envelope**
 - Supports flexibility to apply solutions for multiple applications
-  **Pre-Qualified tandems**
 - Facilitates capacity extension and proves best applied cost
-  **Available with a Perfectly matched Inverter Drive**
 - Reduces system development time and efforts, drive controls motor stator heating - eliminates the need for crankcase heater

Built on Proven Copeland Scroll Platform

With a legacy of over 100 years in design and manufacture of energy-efficient and dependable compressors, Copeland takes pride in continuously innovating its products. By leveraging the power of variable speed technology, Copeland compressors are further optimized, helping ensure greater efficiencies and performance.

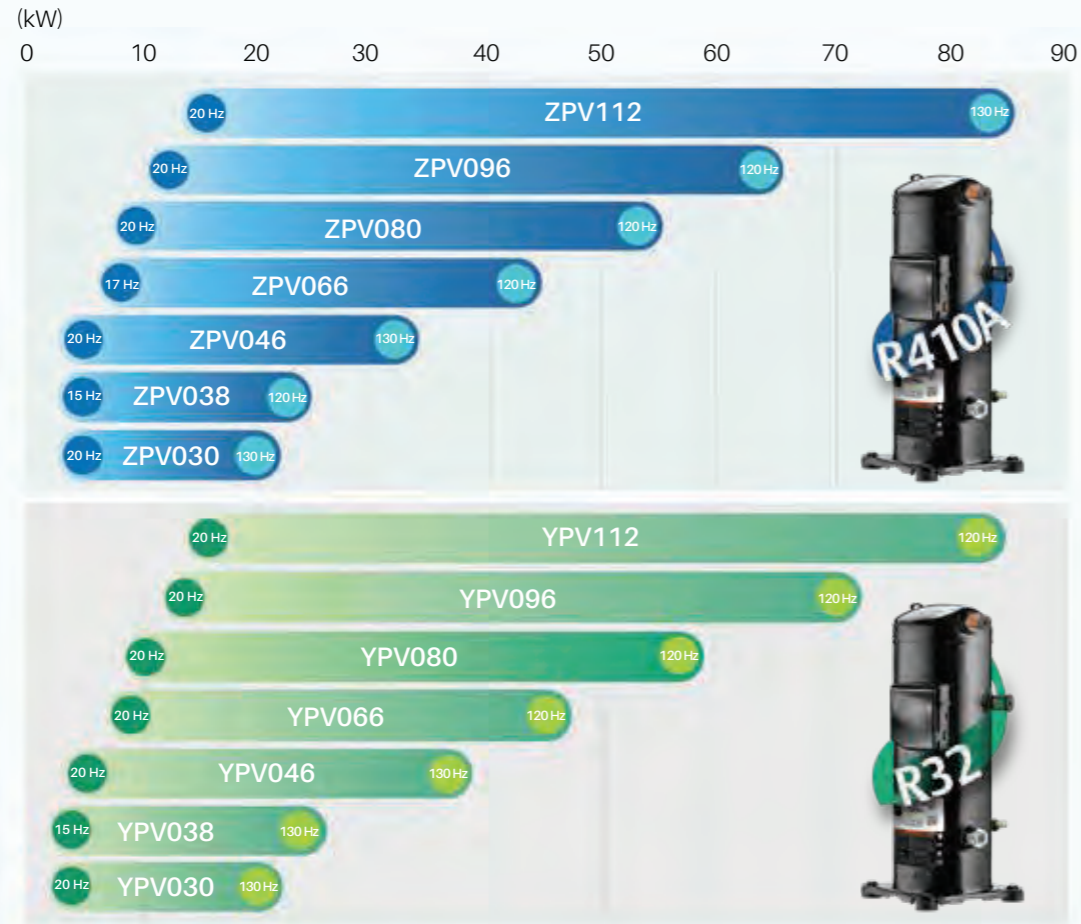
-  **Low oil circulation rate and oil injection**
 - Delivers best system performance
-  **Copeland tried and tested Axial and Radial compliance**
 - Enhanced liquid & debris handling capacity
-  **Rigorous and extensive development and manufacturing line testing**
 - Ensures high quality and reliability



Based on simulation results tested in a hotel with a 130 kW chiller system in Nanjing, China

Capacity Range

Copeland Variable Speed Scroll Compressor Capacity Range (kW)



ARI Conditions

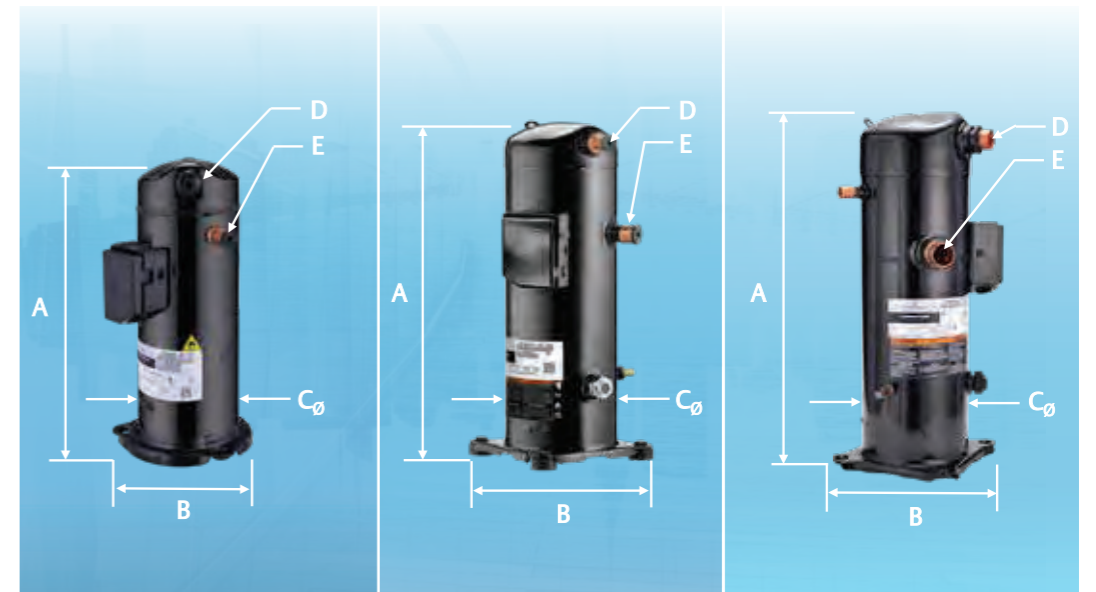
Copeland Tandem Scroll Compressors



ARI Conditions:
 ET: 7.2°C, CT: 54.4°C
 Var. Speed @ Max. Speed
 Fixed Speed @ 50Hz



Compressor Dimensions



Displacement	30cc	38cc	46cc	66/80/96cc	110cc
A Height (mm)	379	424	392	559	585
B Width (mm)	194	198	194	246	246
C Diameter (mm)	141			186	187
EVI Ø	12 mm / 0.47 in.			16 mm / 0.63 in.	16 mm / 0.63 in.
D Discharge (ST)	13 mm / 0.51 in.			22 mm / 0.87 in.	29 mm / 1.14 in.
E Suction (ST)	19 mm / 0.75 in.			29 mm / 1.14 in.	35 mm / 1.38 in.

For 30cc EVI option, please refer to the 46cc dimensions
 For 38cc (R32), please refer to Technical Data
 ST - Stub Tube

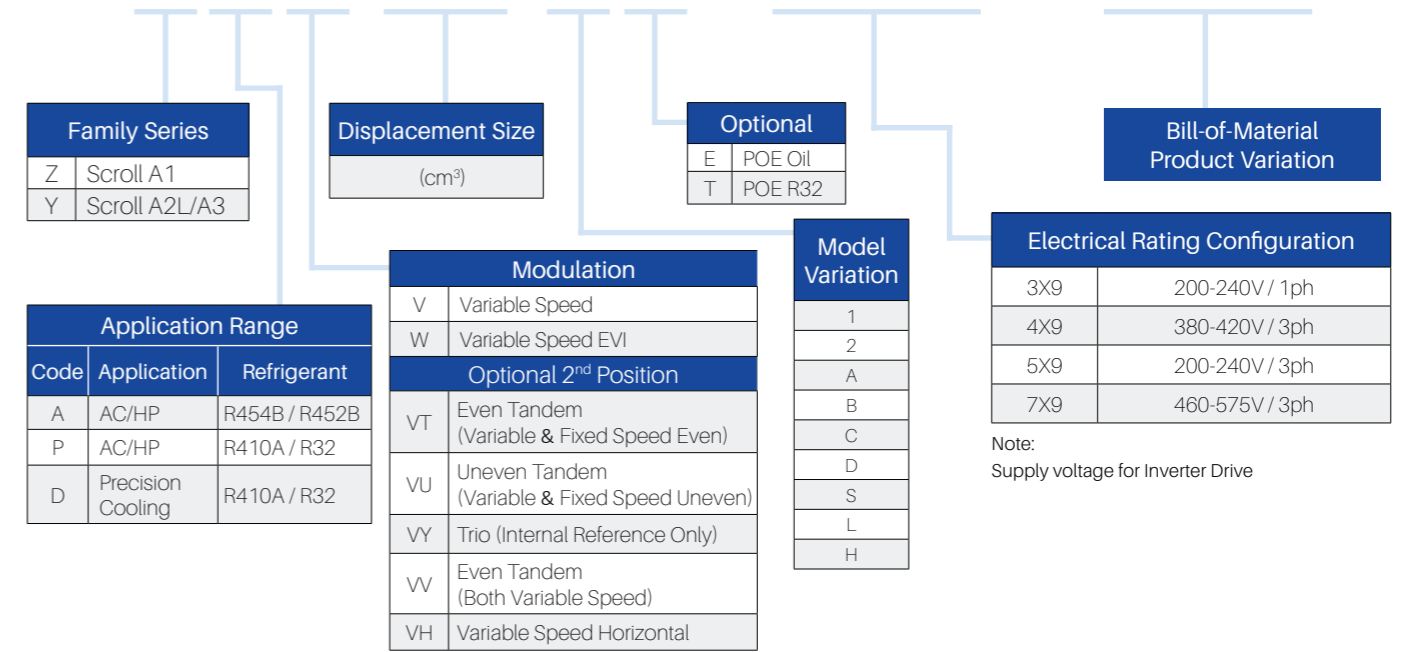
Technical Data

Refrigerant	R410A							R32						
	ZPV 030HE	ZPV 038DE	ZPV 046HE	ZPV 0662E	ZPV 0802E	ZPV 0962E	ZPV 112AE	YPV 030HT	YPV 038LT	YPV 046HT	YPV 0662T	YPV 0802T	YPV 0962T	YPV 112AT
Compressor Models	ZPV 030HE	ZPV 038DE	ZPV 046HE	ZPV 0662E	ZPV 0802E	ZPV 0962E	ZPV 112AE	YPV 030HT	YPV 038LT	YPV 046HT	YPV 0662T	YPV 0802T	YPV 0962T	YPV 112AT
Displacement (cm ³ /rev)	30	38	46	66	80	96	110	30	38	46	66	80	96	110
Speed Range (RPM)	1200-7800	900-7200	1200-7800	1000-7200	1200-7200	1200-7200	1200-7800	1200-7800	900-7200	1200-7800	1200-7200	1200-7200	1200-7200	1200-7200
Speed Range (Hz)	20-130	15-120	20-130	17-120	20-120	20-120	20-130	20-130	15-120	20-130	20-120	20-120	20-120	20-120
Max Cooling Capacity (kW @ Max RPM)	21.4	25.3	34	44.1	54.1	65.9	82.6	23	27.8	37.9	47.3	58.9	70.7	83.3
Cooling Capacity* (kW)	12.2	16.1	19.3	27.5	34.2	41.1	47.6	13.1	17.1	20.9	29.6	36.7	44.1	51.7
COP* (without drive)	3.4	3.4	3.3	3.3	3.4	3.4	3.4	3.4	3.4	3.3	3.4	3.5	3.5	3.5
Power Input* (kW)	3.8	4.8	6.2	8.4	10.2	12.3	14.3	4	5	6.4	8.9	10.7	12.8	15.2
EVI Option	Yes	Yes	Yes	No	Yes	No	Yes	Yes	Yes	Yes	No	Yes	No	Yes
Electricals	3X9 4X9	3X9 4X9	4X9 <u>5X9</u>	4X9 5X9 7X9	4X9 7X9	4X9 5X9 7X9	4X9	3X9 4X9	3X9 4X9	4X9 <u>5X9</u>	4X9 5X9	4X9	4X9 5X9	4X9
Height (mm)	379**	424	392	559			585	379**	379	392	559			585
Width (mm)	194**	198	194	246			246	194**	194	194	246			246
Diameter (mm)	141**	141	141	186			187	141**	141	141	186			187
Suction Dia. (ST)	19 mm / 0.75 in.		29 mm / 1.14 in.		35 mm / 1.38 in.		19 mm / 0.75 in.		29 mm / 1.14 in.			35 mm / 1.38 in.		
Discharge Dia. (ST)	13 mm / 0.51 in.		22 mm / 0.87 in.		29 mm / 1.14 in.		19 mm / 0.75 in.	13 mm / 0.51 in.	19 mm / 0.75 in.	22 mm / 0.87 in.			29 mm / 1.14 in.	

Notes:
 *ARI Condition @75Hz
 **For 30cc EVI option, please refer to the 46cc dimensions
5X9 - Under development
 ST - Stub Tube

Nomenclature

Z P V 030 H E - 3 X 9 - X X X



BOM Selection

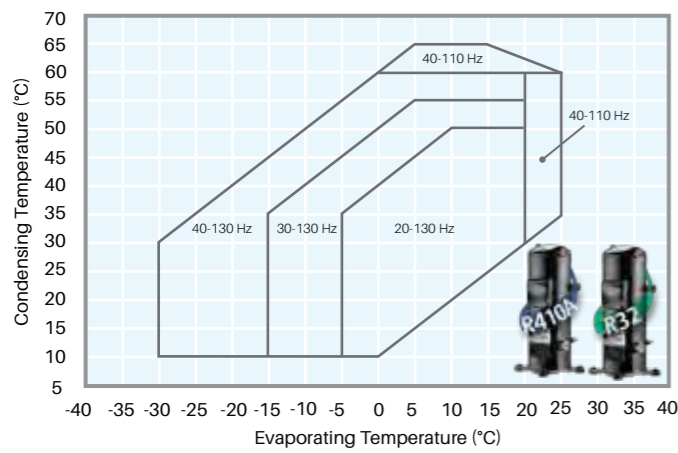
Refrigerant	Models	519	522 / EBK	550 / EBR	571 / EBK	576
R410A	ZPV030HE				X	
	ZPV038DE				X	
	ZPV046HE				X	
	ZPV0662E	X	X	X		
	ZPV0802E		X	X		
	ZPV0962E	X	X	X		
	ZPV112AE	X	X	X		X
R32	YPV030HT				X	
	YPV038LT				X	
	YPV046HT				X	
	YPV0662T		X	X		
	YPV0802T		X	X		
	YPV0962T		X	X		
Configuration	Stub Tube	X	X	X	X	X
	Terminal Block	X	X	X	X	X
	Grounding	X	X	X	X	X
	T-Box/Cover (IP21)		X	X	X	
	T-Box/Cover (IP54)	X				X
	Sight Glass	X		X		
	Schrader Valve	X		X		
	OEL Fitting	X		X		
	Mounting Parts	X	X	X	X	

Note:
 *For R32 Models



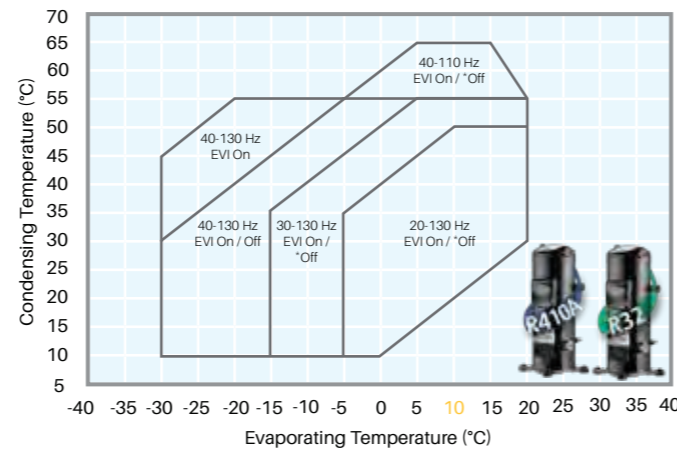
Operating Envelopes

30cc & 46cc



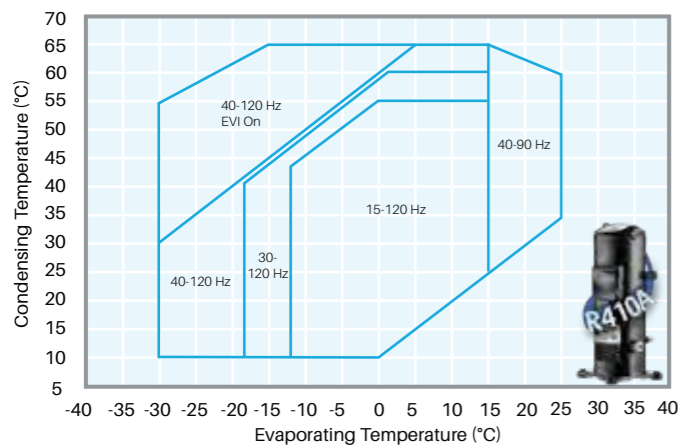
Note:
- Preliminary data

30cc & 46cc with EVI



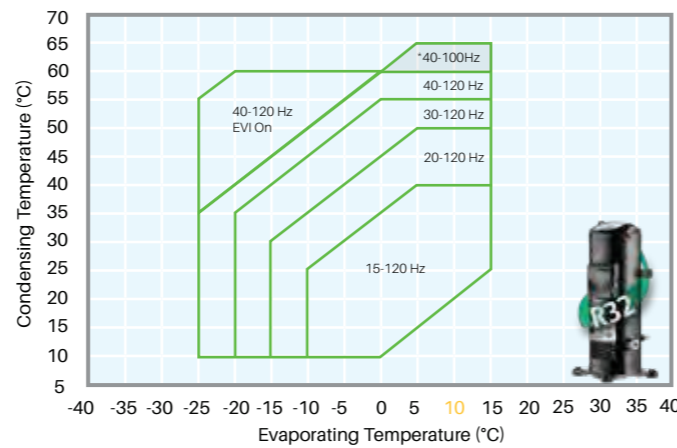
Notes:
- ET > 10°C, EVI must be OFF
- Minimum Speed for EVI ON = 40Hz (2400rpm)
- Preliminary data

38cc with & without EVI



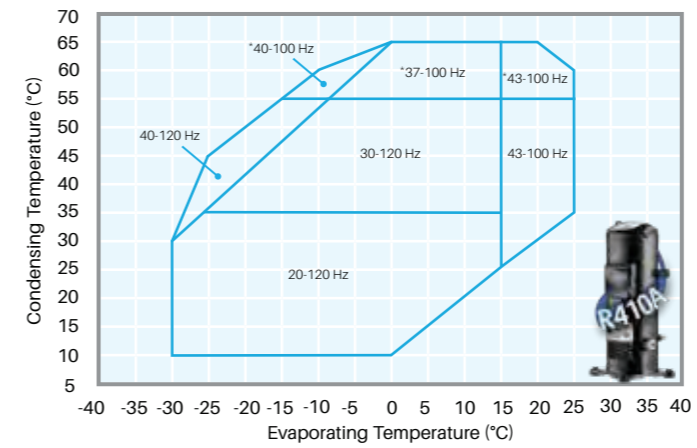
Notes:
- Minimum Speed for EVI ON = 40Hz (2400rpm)

38cc with & without EVI



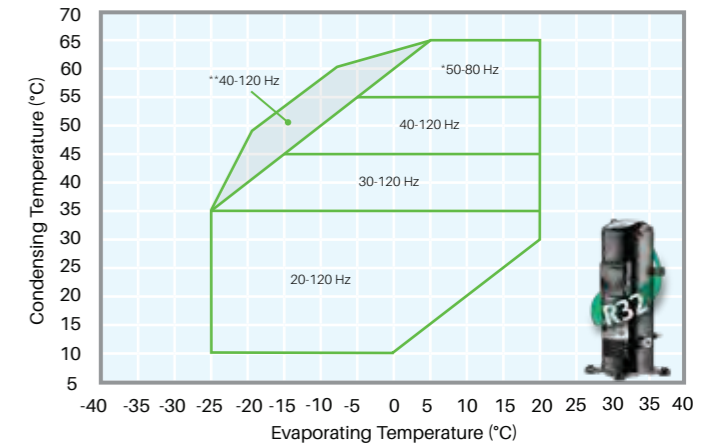
Notes:
- Limited operation 800 hours
- ET > 10°C, EVI must be OFF
- Minimum Speed for EVI ON = 40Hz (2400rpm)

66cc & 96cc



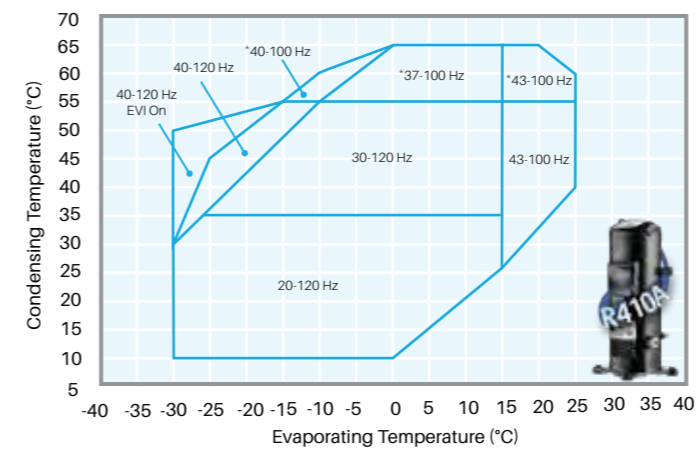
Note:
- Contact an applications engineer for operations beyond 250 hours / year

66cc & 96cc



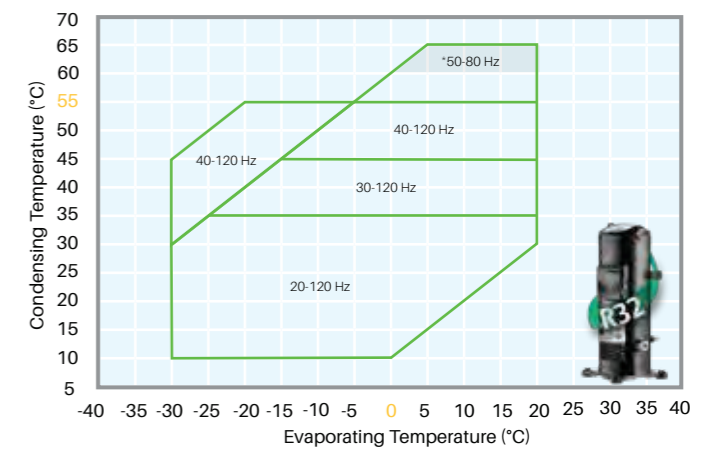
Note:
- Maximum of 260 operating hours / year
- Limited operations to 20 hours / year

80cc with & without EVI



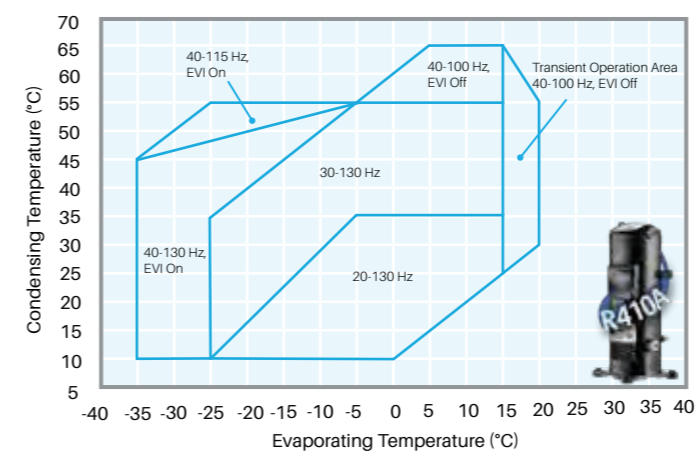
Notes:
- Contact an applications engineer for operations beyond 250 hours / year

80cc with & without EVI



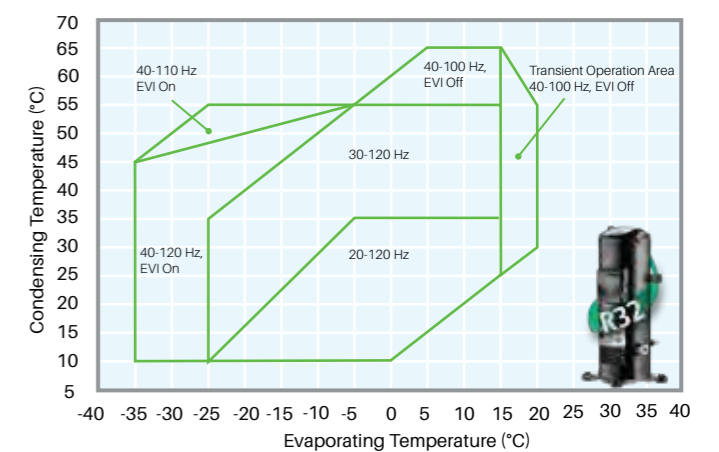
Notes:
- Limited operation to 200hrs (grey area)
- Minimum Speed for EVI ON = 40Hz (2400rpm)
- EVI ON when ET < 0°C
- EVI OFF when ET > 0°C & CT > 55°C

110cc with & without EVI



Note:
- Transient operation area total running time is no more than 300 hours
- Minimum Speed for EVI ON = 40Hz (2400rpm)

110cc with & without EVI



Note:
- Transient operation area total running time is no more than 300 hours
- Minimum Speed for EVI ON = 40Hz (2400rpm)

Variable Speed Drives

EVD Drive Features and Benefits

- Fully optimized drive and motor design
- Improved reliability through protection and control features
- Reduced system design time and effort
- Communication set up Baud rate 2400
- Full compressor compatibility, plug and play capability

Specification

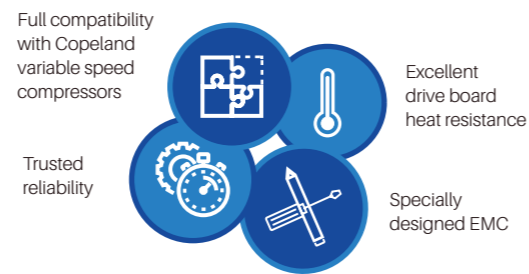
Details		Operational Output		Max. Input	Max. Output
Inverter Drive Model	Rating (kW)	Voltage / Phase	Frequency (Hz)	Current (A)	Current (A)
EVD1080B-JX-111	8	170V ~ 250V / 3ph	50/60	22	22
EVD2080B-D1-11X	8	340V ~ 440V / 3ph	50/60	17	21
EVD3080B-C8-111	8	160V ~ 265V / 1ph	50/60	35	25
EVD1110B-JX-111	11	170V ~ 250V / 3ph	50/60	32	32
EVD2110B-DX-11X	11	340V ~ 440V / 3ph	50/60	21	21
EVD2150B-DX-111	15	340V ~ 440V / 3ph	50/60	27	27
EVD2180B-DX-111	18	340V ~ 440V / 3ph	50/60	38	38
EVD3250B-DB-111	25	340V ~ 440V / 3ph	50/60	38	49
EVD1360B-D1-112	36	340V ~ 440V / 3ph	50/60	58	58

Drive Selection

System Capacity (kW)	16 - 20	20 - 28	28 - 36	36 - 45	45 - 54	54 - 65
Compressor Displacement (cc)	30/38	46	66	80	96	110
Drive Input Power (kW)	8	11	15	18	25	36
Drive Platform	<p>Air Cooled</p>			<p>Refrigerant Cooled</p>		

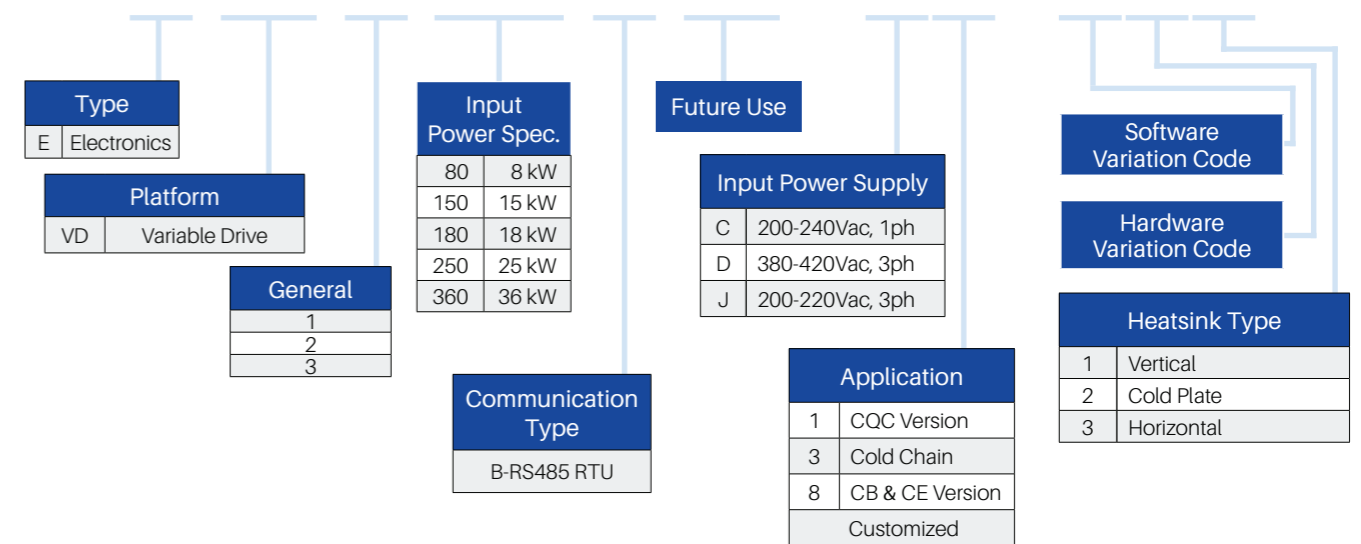
Notes:
- Please contact Application Engineering for Drive selection and matching.

Copeland Variable Speed Drive Advantage



Nomenclature

E V D 1 0 8 0 B X X - D 1 - 1 1 2



Agency Approvals:

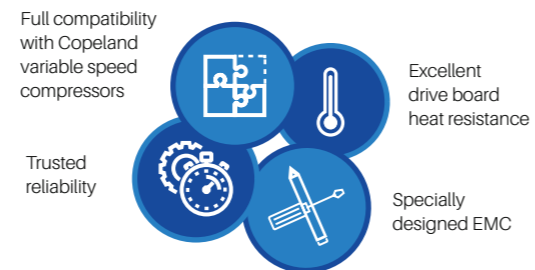


Variable Speed Drives

EV2 and EV3 Drive Features and Benefits

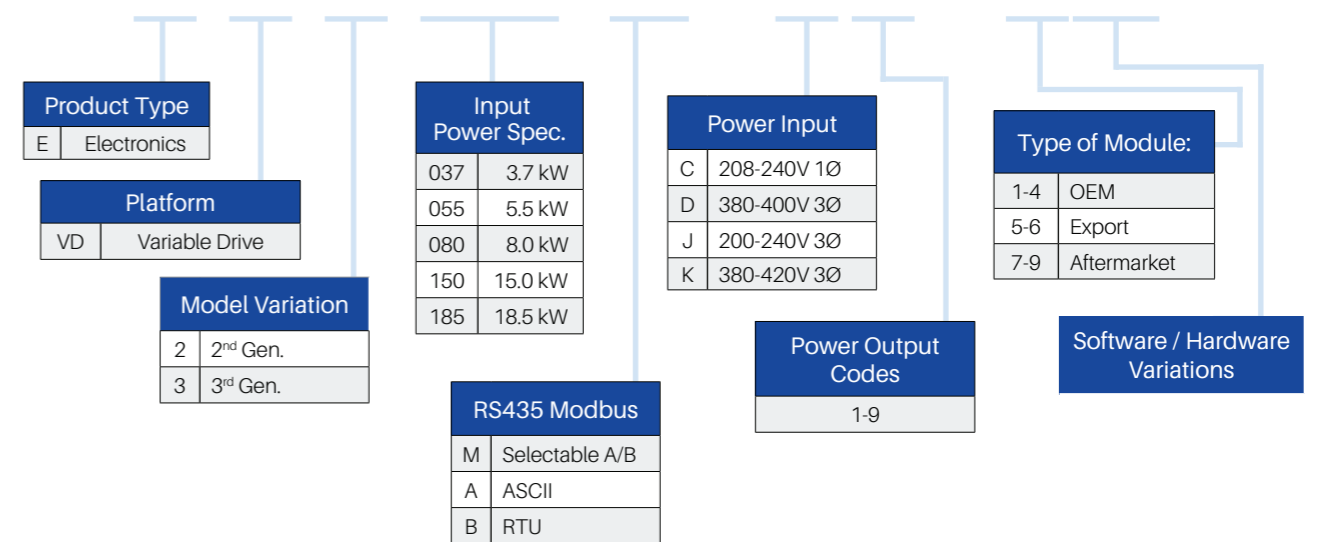
- Designed for Copeland Variable Speed Scroll (ZPV) Compressors
- Predefined selection for compressor protection, functionality and reliability
- Controllable via RS485 & Modbus protocols
- Designed to meet EN 60335-1 and UL 60730

Copeland Variable Speed Drive Advantage



Nomenclature

E V 2 0 5 5 M - C 1 - 8 1 1



Specification

Details		Operational Output		Max. Input	Max. Output
Inverter Drive Model	Rating (kW)	Voltage / Phase	Frequency (Hz)	Current (A)	Current (A)
EV2055M-K8-XXX	5.5	380V ~ 420V / 3ph	50/60	10	17
EV2080M-C8-XXX	8	208V ~ 240V / 1ph	50/60	35	24
EV2080M-K8-XXX	8	380V ~ 420V / 3ph	50/60	14	24
EV2080M-J8-XXX	8	200V ~ 240V / 3ph	50/60	22	24
EV3150B-K9-294	15	380V ~ 420V / 3ph	50/60	27	27
EV3185B-K9-294	18.5	380V ~ 420V / 3ph	50/60	38	38

Drive Selection

System Capacity (kW)	16 - 20	28 - 36	36 - 45	45 - 54
Compressor Displacement (cc)	38	66	80	96
Drive Input Power (kW)	8	15		18
Drive Platform	<p>Air Cooled</p>		<p>Air Cooled</p>	

Notes:
- Please contact Application Engineering for Drive selection and matching.

Certification:



Integrated Solutions

Controller

- Modular design, flexible and scalable
- Various options for a host of different applications
- Parametric controller for standard application
- Programmable PLC controller for customized applications

HMI

- Standard HMI for residential applications
- 4.3"/7" touch HMI for customization applications
- Standard firmware for programmable HMI



Technical advantages of Copeland integrated solutions for commercial chillers

- Full range of core components designed and developed by Copeland engineers
- Equipped with a full range of Copeland variable speed, fixed speed scroll compressors and tandem configurations for effortless cooling capacity expansion.
- Dynamic controller hardware platform, rich expansion modules, programmable technology to meet various needs of customers.
- Optimized system control logic for maximum energy efficiency and reliability of IPLV systems.
- Highly skilled technical team with comprehensive lab testing facilities to support system development – saving time and effort.

Electronic expansion valves

- DX1/DX3 series cover capacity range from 5 kW - 100 kW
- Highly reliable under extreme applications, qualified for over 100k full cycles
- Precise expansion process control helps maintain stable system super heat
- Bi-directional flow characteristics applicable for heat pump systems
- Optimum wide modulation range helps deliver higher integrated part load efficiency
- DX1: Compact and lightweight with hermetic valve body design
- DX3: Take-apart design, easy for field troubleshooting



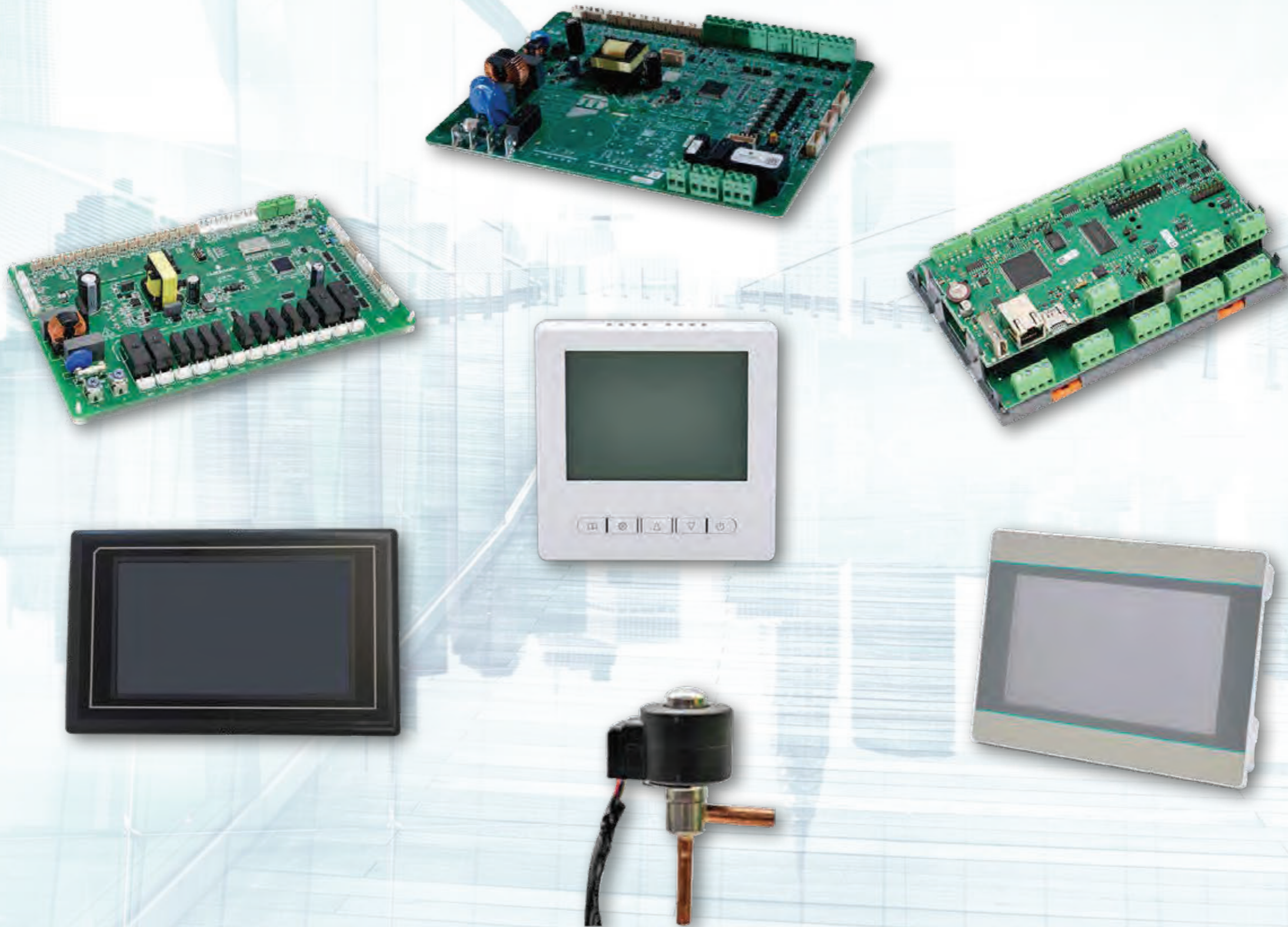
- Linear flow control features, precise control from 10% to 90% opening range
- Two-way maximum working pressure difference up to 35 bar, ideal for low ambient temperature environments
- 250,000 times (full on and off) cycle, IP65/67 protection, high reliability and long product life span

Compressors

- Optimized design of variable speed drive compressors are based on permanent magnet DC brushless motor
- 1000 - 7200RPM wide speed range for improved partial load energy efficiency
- Tandem installation provides maximum flexibility for system design



Integrated Solutions



Controllers



IPG215D

Power supply	24V AC/DC
Analog input	10 channels available - NTC
Digital input	20 channels are available
Relay output	15*5A
Analog output	4 channels 0 ~ 10V signal 2 channels can be equipped with 0 ~ 10V/ 4 ~ 20mA signal
Other Output	Remote Display Control Panel (2*VGIPG) RS485 bus, RS485 slave (Modbus RTU) USB, Ethernet, CAN bus RS485 slave (Modbus RTU)
Other	RTC Real Time, Clock Internal Modem (optional analog cat) BACnet protocol (optional), LON protocol (optional)



IPX206D

Power supply	24V AC/DC
Analog input	7 channels are available - NTC/PTC/0 ~ 1V/0 ~ 5V/0 ~ 10V/4 ~ 20mA/DI
Digital input	3 channels can be matched
Relay output	5*5A + 1*8A
Analog output	3 channels 0 ~ 10V signal
Other Output	CAN Bus
Other	DIP switch configuration address



XEV20D

Power supply	24V AC/DC
Analog input	Total 4 channels
	2 channels are available for NTC/PTC/Pt1000
	2 channels are available for 4 ~ 20mA/0 ~ 5V/Pt1000
Support EEV	Bipolar or Unipolar
EEV Output	2 Ports
Power consumption	Max 40VA
Operating temperature:	-10 ~ 60 °C
Storage temperature:	-30 ~ 85 °C
Communication	CAN Bus
Other	DIP switch configuration address



EO1AVNB-CJ (HPC)

Power supply	220V AC
Analog input	10 channels available - NTC /0 ~ 5V/DI
Digital input	3 channels are available
Relay output	5*5A
Analog output	0 ~ 10V signal 1 channel PWM signal 2 channels
Other output	RS485 Master
	RS485 Slave *2
	EEV drive (Unipolars) 2
Insulation class	Double insulation
Storage temperature	-25 ~ 60°C
Operating temperature	-25 ~ 60°C
Index of protection	IP00
Category of resistance to heat and fire	Category D (UL94-V0)



EO2AVNB-CJ (DHC)

Power supply	220V AC
Analog input	20 channels available - NTC /0 ~ 5V/DI
Digital input	6 channels are available
Relay output	9*5A, 4*16A
Other output	RS485 Master
	RS485 Slave *2
	EEV drive (Unipolars) *4
Insulation class	Double insulation
Storage temperature	-40 ~ 80°C
Operating temperature	-25 ~ 60°C
Index of protection	IP00
Category of resistance to heat and fire	Category D (UL94-V0)



IPLT212K

Power supply	220V AC
Analog input	20 channels available - NTC /0 ~ 5V/DI
Digital input	6 channels are available
Relay output	9*5A, 4*16A
Other output	RS485 Master
	RS485 Slave *2
	EEV drive (Unipolars) *4
Insulation class	Double insulation
Storage temperature	-40 ~ 80°C
Operating temperature	-25 ~ 60°C
Index of protection	IP00
Category of resistance to heat and fire	Category D (UL94-V0)

Controls, Valves and Sensors

HMI Module



Part number	543-0303-00
Power supply	12Vdc
Communication	RS485
Index of protection	IP20
Power consumption	<2w
Function:	Temperature Setting/Display
	Mode Selection
	System Status Monitor
	Timer
	Alarm Code Display
Dimensions	Fan Speed Selection
	86 x 86 mm

HMI 4.3" RS485



Part number	543-0339-00
Power supply	4.5 ~ 30Vdc
TFT	4.3"
Resolution	480 x 272px
Touch:	Resistive
Index of protection	Rear IP20; Front IP65
Power consumption	<2w
Colors	65k, 16 bits
Operating temperature:	-20 ~ 70 °C
Storage temperature:	-30 ~ 80 °C
Communication	RS485
Dimensions	139 x 87 mm (130 x 78.1 hole size)

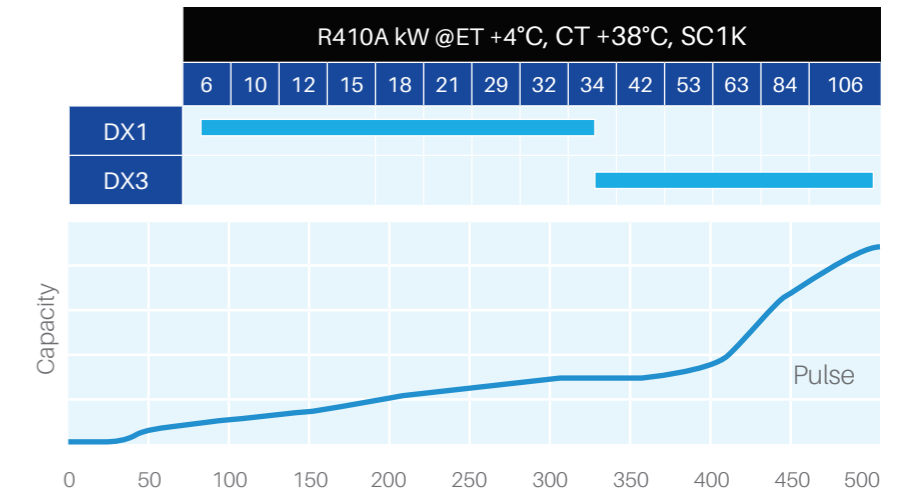
HMI 7" Display Ethernet Port



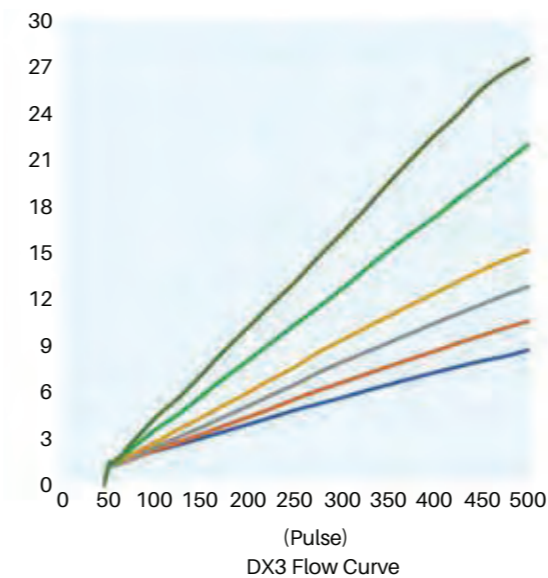
Part number	543-0326-00
Power supply	12 ~ 28Vdc
TFT	7"
Resolution	800 x 480 px
Touch:	Resistive
Index of protection	Front IP65
Power consumption	<8w
Colors	16000k, 24bits
Operating temperature:	-10 ~ 60 °C
Storage temperature:	-20 ~ 70 °C
Communication	RS485/Ethernet
Dimensions	272 x 192 mm (260 x 179 hole size)

DX1

- Compact and lightweight with hermetic valve body design
- Precise expansion process control helps maintain stable system super heat
- Bi-directional flow characteristics applicable for heat pump systems
- Optimum wide modulation range enables higher integrated part load efficiency
- Optimum wide modulation range helps deliver higher integrated part load efficiency



DX3



- **Two-way application design**
 - Two-way MOPD of 35 bar, stable control at low opening
 - Low internal leakage rate, support for pump down, reduces refrigerant migration, no solenoid valve required
 - Minimal forward and reverse flow backlash to avoid malignant out-of-step
- **Simple control**
 - Fully linear flow for easy implementation of multiple control objectives
 - Qualified for a wide variety of control solutions
 - Single pole motor, compatible with mainstream controllers
- **High reliability design for harsh environments**
 - Operating temperature: -50°C ~ +70°C
 - Long lifespan, high reliability: 250k cycles' reliability test
 - Take-apart valve body

Sensors

Temperature sensor	Temperature range	Standard resistance (25°C)	Cable type	Temperature sensing component packaging material	Protection grade	
Low temperature sensor TS-110	-40 ~ 110°C	10KΩ ±1%	24AWG black	Stainless steel	IP67	
High temperature sensor TS-150	Sensor TS-150 -50 ~ 150°C	50KΩ ±1%	22AWG blue			
Pressure sensor	Measuring pressure range	Operating voltage	Output signal	Suitable refrigerant	Full error band	Protection grade
Low temperature sensor PRS-30	0 ~ 30barG	5.0 ± 0.5 VDC	0.5 ~ 4.5 VDC	R410a, R134a, R404a, R407c, R507	±2.5% FS	IP67
High temperature sensor PRS-46	0 ~ 46barG					

Solution Packages

Ducted Split System (10 kW)



Item	Model / Part Number	Quantity
Compressor	YPV030HT-3X9-EBK	1
Drive Board (Low Ambient)	EVD3080B-C8-111	1
Filter Board	143-0097-00	1
Choke	037-0096-00	1
Outdoor Controller	EO1AVNB-CJ-999	1
Indoor Controller	EI1AVNB-AJ-102	1
Electronic Expansion Valve Body	098373	1
Electronic Expansion Valve Coil	098379	1
High Pressure Sensor	099304	1
Low Pressure Sensor	099303	1
DLT Sensor	099302	1
Temperature Sensor	099301	4
HMI	543-0303-00	1

Precision Cooling (35 kW)



Item	Model / Part Number	Quantity
Compressor	ZPV0662E-4X9-522	1
Drive board	EVD2150B-D1-111	1
Capacitor board	143-0091-00	1
Filter board	143-0092-00	1
Choke	037-0093-00	1
Controller	IPLT212K	1
HMI	543-0326-00	1
Electronic expansion valve	98302	1
Electronic expansion valve coil	98315	1
High pressure transducer	99304	1
Low pressure transducer	99303	1
High temperature sensor	99302	1
Low temperature sensor	99301	4

Package AC (24 kW)



Item	Model / Part Number	Quantity
Compressor	YPV046HT-4X9-EBK	1
Drive Board (Low Ambient)	EVD2110B-D1-111	1
Filter Board	143-0091-00	1
Capacitor Board	143-0094-00	1
Choke	037-0094-00	1
Outdoor Controller	EO1AVNB-CJ-999	1
Electronic Expansion Valve Body	098375	1
Electronic Expansion Valve Coil	098379	1
High Pressure Sensor	099304	1
Low Pressure Sensor	099303	1
DLT Sensor	099302	1
Temperature Sensor	099301	3
HMI	543-0303-00	1

Chiller (130 kW)



Item	Model / Part Number	Quantity
Compressor	ZPV112AE-4X9-522	1
Drive board	EVD3250B-D8-111	1
Filter Board	143-0124-00	1
Choke	037-0124-00	1
Controller	EO2AVNB-CJ-999	1
HMI	543-0339-00	1
Electronic expansion valve	098306	2
Electronic expansion valve coil	098315	2
High pressure transducer	099304	2
Low pressure transducer	099303	2
High temperature sensor	099302	2
Low temperature sensor	099301	5

Solution Packages are application sample recommendations only.

For more inquiries on Copeland Integrated Solutions, scan the QR code:



Contact lists

Asia Pacific Headquarters

Suite No. 2503-10A, 25/F,
Exchange Tower, 33 Wang Chiu Road,
Kowloon Bay, Kowloon, Hong Kong
Tel: (852) 2866 3108
Fax: (852) 2520 6227

Australia

356 Chisholm Road
Auburn NSW 2144, Australia
Tel: (612) 9795 2800
Fax: (612) 9738 1699

China - Beijing

Room 1203-1205,
North Wing Junefield Plaza Central Tower,
No. 10 Xuan Wu Men Wai Street,
XiCheng District, Beijing, PRC
Tel: (8610) 5095 2188

China - Guangzhou

Guangzhou Office
Unit 2202B, 22/F, Leatop Plaza,
32 Zhujiang East Road, Tianhe Dist.,
Guangzhou 510623, PRC
Tel: (8620) 8595 5188

China - Shanghai

Shanghai Sales Office
7F, Emerson Building, 1582 Gumei
Rd, Shanghai, PRC
Tel: (8621) 3338 7333

India - Mumbai

Delphi B-Wing, 601-602, 6th Floor
Central Avenue,
Hiranandani Business Park,
Powai, Mumbai 400076, India
Tel: (9122) 6786 0793
Fax: (9122) 6662 0500

India - Pune

Plot No. 23, Rajiv Gandhi Infotech Park,
Phase - II, Hinjewadi,
Pune 411 057, Maharashtra, India
Tel: (9120) 4200 2000
Fax: (9120) 4200 2099

Japan

Shin-yokohama Tosho Building
No. 3-9-5 Shin-Yokohama, Kohoku-ku
Yokohama 222-0033 Japan
Tel: (8145) 475 6371
Fax: (8145) 475 3565

Middle East & Africa

PO Box 26382
Jebel Ali Free Zone - South
Dubai, UAE
Tel: (9714) 811 8100
Fax: (9714) 886 5465

Philippines

10/F SM Cyber West Avenue, EDSA cor.
West Avenue, Barangay Bungad,
Diliman, Quezon City 1105 Philippines
Tel: (632) 689 7200

Saudi Arabia

PO Box 34332 - 3620 Building 7874
Unit 1, 67th street 2nd Industrial City
Dammam, Saudi Arabia
Toll Free: 800 844 3426
Tel: +966 3 8147560
Fax: +966 3 8147570

South Korea

3F, The Pinnacle Gangnam
343, Hakdong-ro, Gangnam-gu,
Seoul 06060, Republic of Korea
Tel: (822) 3483 1500
Fax: (822) 592 7883

Thailand

34th Floor, Interlink Tower,
1858/133, Bangna Trad,
Bangkok 10260, Thailand
Tel: (662) 716 4700
Fax: (662) 751 4241

United Arab Emirates

Jebel Ali Free Zone
PO Box 26382
Dubai UAE
Toll Free: 800 441 3428
Tel: +971 4 811 8100
Fax: +971 4 886 5465