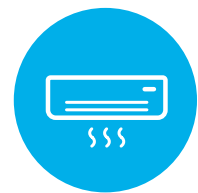
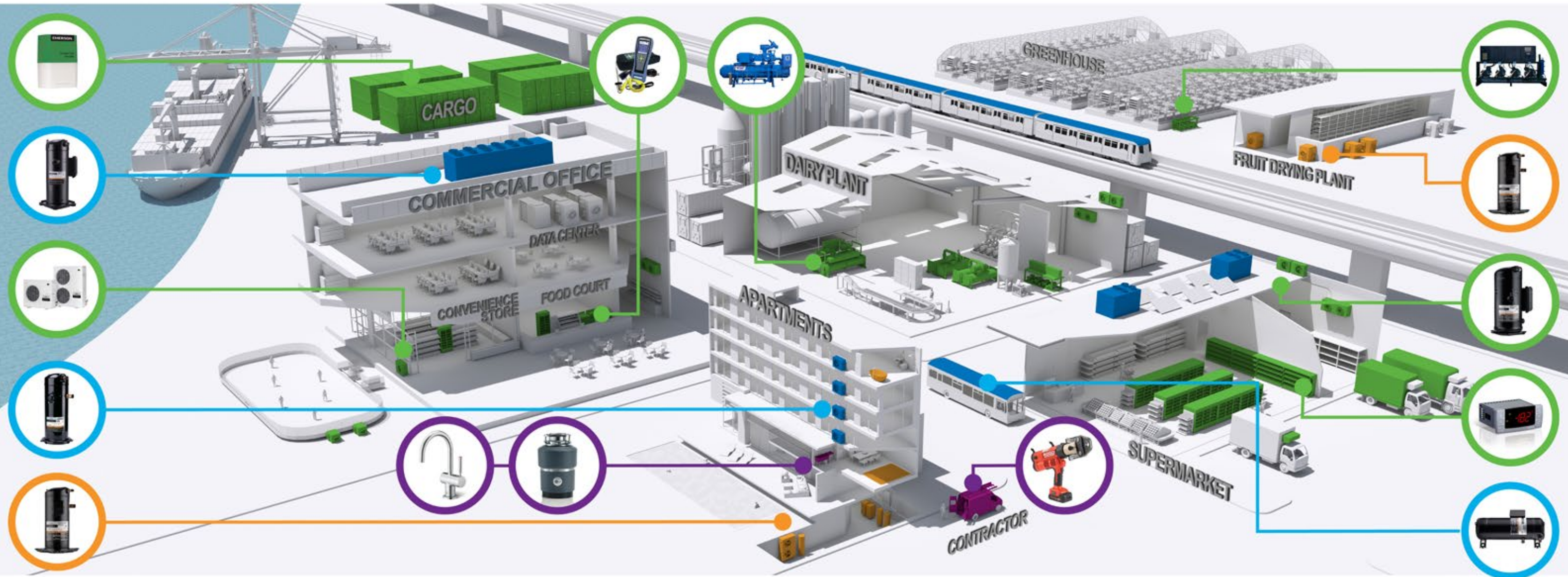


Emerson Solutions Guide



Emerson – Consider it Solved™

Every day, Emerson brings together the highest levels of comfort and convenience to people all over the globe. Our integrated solution of compressors, electronics, condensing units, controls, and monitoring devices are engineered to meet your comfort, energy efficiency, and compliance requirements.



Air conditioning

Backed by decades of manufacturing experience, Emerson strives to deliver unmatched comfort for home and office applications. Providing solutions to meet your efficiency and comfort needs.



Heating

Compressors bundled with the newly developed EVD series drives solve low temperature heating challenges. Emerson develops pioneering solutions that elevate comfort and efficiency to the next level.



Cold Chain

Emerson helps maintain the integrity of perishable products throughout the cold chain by providing innovative solutions helping prevent food wastage around the world.



Tools and home products

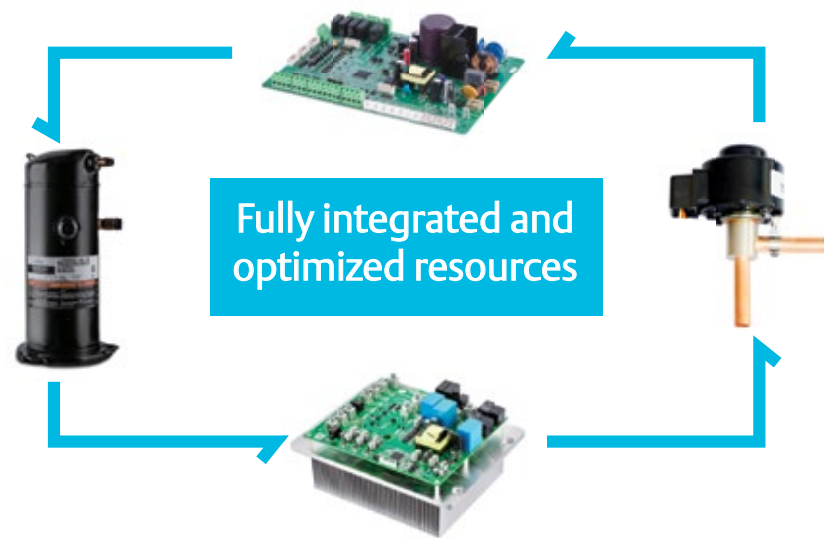
We offer tools designed to make your tasks easier. From ergonomic hand tools to rugged wet/dry vacuums to amazingly consistent welders, our innovative spirit is found in every product we offer.

Emerson integrated solutions group

Emerson strives to be the leader in integrated solutions for air conditioning, heating and refrigeration industries

Value for customers

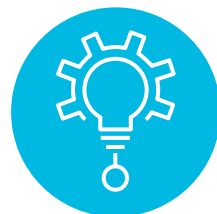
Through continuous investment in the core technologies of the core components of the system, Emerson not only helps customers achieve market-leading system performance and respond quickly to market demands, but also enhances the trust of end users through Emerson brand influence. Emerson has established a team of system integration solutions in the Asia Pacific region to fully integrate internal resources to provide customers with high quality technical services to better meet the needs of the Asia market.



Our service offerings:

- Provides customers with full technical support services
- Coordinates with internal resources and Emerson laboratories to fully validate solutions
- Delivers safe and reliable product solutions for the market
- Continues to expand system simulations and system lab capabilities

Value for customers



Market-leading system performance



Enhance the trust of end users through Emerson brand influence



Helping customers respond quickly to market demands

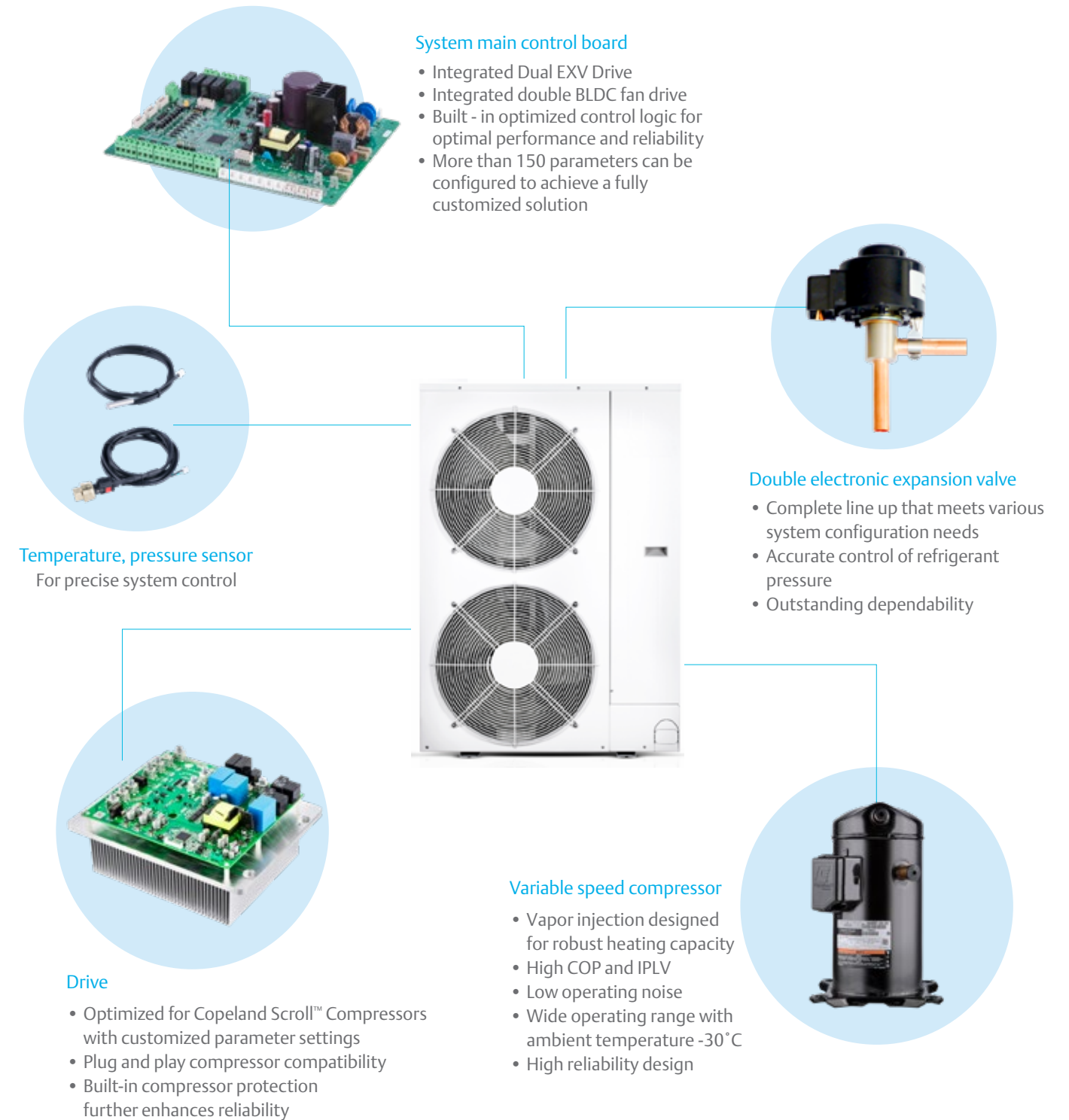


Higher unit reliability



On-site monitoring continuously tracks real-time performance

Technical features of integrated solutions



Benefits of Emerson solutions

System manufacturers challenges

Emerson solutions

Need to coordinate with various compressor and electronics suppliers for system development



One-stop shop

Capability to supply all core components in variable speed systems including compressors, drives, controllers, temperature sensors, valves etc.

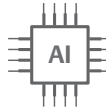
Lack of adequate technical support



Dedicated integrated solution team

Providing customers with 24/7 end to end technical support

Long development cycle and uncertain reliability



Smart control, reliable performance

High Emerson design standards verify all solutions. Control logic, system protection, parameter optimization, full integration

Difficult to meet rapidly changing energy efficiency regulations



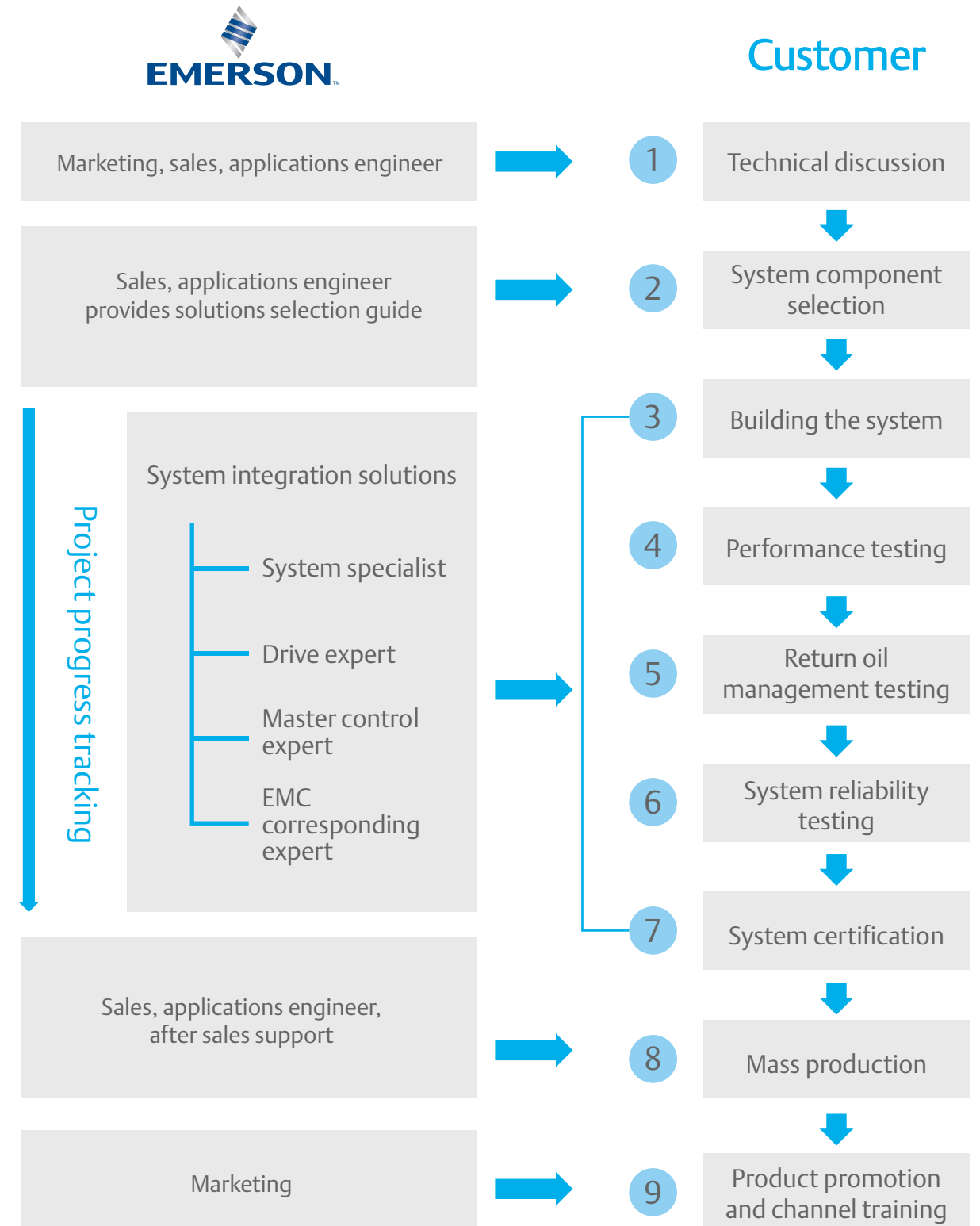
The compressor and drive are perfectly matched to maximize energy efficiency

Specially developed for the Asia market and optimized according to IPLV/IEER/APF standards.



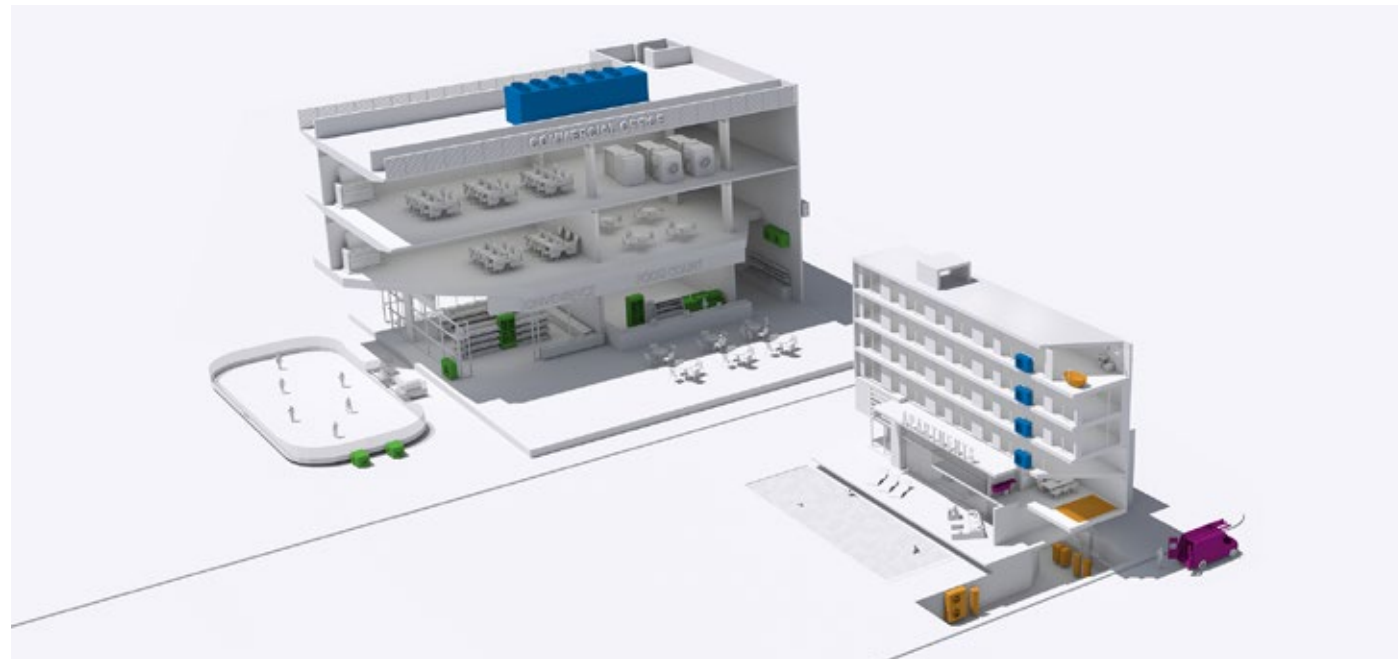
Technical support and services

Emerson provides its customers with a skilled technical team and expert lab support. These benefits put the customer at the cutting edge of technology and design.



Air conditioning

Emerson plays a significant role in providing solutions that deliver outstanding human comfort. We have the right answers for your residential and commercial challenges. You can always Consider it Solved™



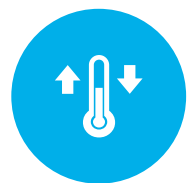
Whether you are an original equipment manufacturer looking to design HVAC equipment for the future or a contractor looking to solve a retrofit problem, Emerson offers a complete range of air conditioning solutions. Our product range includes:

- Compressors
- Electronics
- Valves, controls and protection devices

Our experienced team can help you select the right products to achieve your desired outcomes:



Achieve regional compliance to energy regulations and standards



Superior temperature and humidity control



Enhanced performance and functionality



Long lasting reliability



Improved energy efficiency at full and part-load operation



Easy integration to system solutions

Comfort Solutions



Technology overview

Air conditioning compressors

The trusted Copeland™ compressors have been at the heart of air conditioning systems for almost 100 years. Every product is engineered and tested for reliable, trouble-free operation. Our award-winning Copeland Scroll™ technology is optimised for 13+ SEER applications and continues to set the pace for better comfort and energy efficiency everywhere.



Reciprocating hermetic compressors



Copeland Hermetic Reciprocating Compressors are trusted by contractors and manufacturers for its proven track record of efficiency and reliability. Its broad range of versatility in air conditioning applications is widely accepted and has become a staple in the industry.

Key features

- Reliable fixed speed operation.
- Suitable for air conditioning, geothermal and heat pump applications.
- CPK8 compressor is engineered for high efficiency applications.

Fixed speed compressors



Designed for performance and reliability, the Copeland Scroll compressor delivers fast heating and cooling when you need it most. The fixed speed compressor is ideal for air conditioning applications which require simple single stage operation and easy OEM controls integration.

Key features

- Copeland Scroll axial and radial compliance for superior reliability.
- Simple and reliable single stage operation.
- Proven reliability with over 150 million installations to date.

Multiple compressors



Multiple Copeland Scroll™ compressors are connected with a manifold in tandem or trio. This configuration is ideal for air conditioning applications wanting to achieve excellent part-load efficiency without the need for complex controls integration.

Key features

- Copeland Scroll axial and radial compliance for superior reliability.
- Tandem two stage - 50% and 100% total system capacity.
- Trio three stage - 33%, 67% and 100% total system capacity.

Two-stage compressors



The 2nd generation Copeland Scroll two-stage compressor is engineered with two stage operation to achieve excellent part-load performance without the need for complex controls integration. When partial load is needed, bypass ports inside the compression chamber open which partially unloads the compressor.

Key features

- Copeland Scroll axial and radial compliance for superior reliability.
- Two stage operation at 67% and 100% system capacity.
- Simple integration for OEM.

Digital scroll compressors



The Copeland Scroll Digital compressor better matches the building load using 10-100% capacity modulation to achieve the highest levels of energy efficiency and more precise temperature control.

Multiple Digital Scroll™ and fixed speed compressors can be connected in tandem to deliver improved part-load efficiencies.

Key features

- Copeland Scroll axial and radial compliance for superior reliability.
- Highest levels of comfort with temperature control.
- 10-100% capacity modulation for excellent full and part-load energy efficiency.

Variable speed compressors



The Copeland Scroll Variable Speed compressor with integrated variable speed drive is optimised for SEER and APF with capacity modulation to achieve excellent part-load operation and energy efficiency.














Multiple variable speed compressors can be connected in tandem to deliver even better part-load efficiencies.

Key features

- Copeland Scroll axial and radial compliance for superior reliability.
- Variable speed modulation range 20 to 140 Hz for improved energy efficiency.
- Improved comfort and temperature control.
- CoreSense™ controls and diagnostics.

Product selector

Commercial air conditioning compressors

		Fixed speed - Copeland Scroll™ Compressors					Modulating - Multiple		Modulating - Digital Scroll™				Modulating - Variable Speed		
		Copeland Scroll Quest 6-8 HP	Copeland Scroll Next Generation Quest 9-12 HP	Copeland Scroll Summit 7.5-15 HP	Copeland Scroll Next Generation 20-25 HP	Copeland Large Commercial Scroll 20-40 HP	Copeland Scroll Tandems	Copeland Scroll Two-stage ZPS™ KC 6-10 HP	Copeland Scroll Digital 6-8 HP	Copeland Scroll Digital Summit 9-15 HP	Copeland Scroll Digital Next Generation Quest 9-10 HP	Copeland Scroll Digital Tandems	Copeland Scroll Variable Speed 10-15HP (ZPV Series)	Copeland Scroll Variable Speed 10-15HP (JPV Series)	
															
Applications	Split system								Yes						
	Rooftop packaged unit								Yes						
	Chiller								Yes						
	VRF	-	-	-	-	Yes	-	-	-	-	-	-	-	Yes	
Capacity	Capacity range* (kW)	17.1 (50 Hz)-26.5 kW (60 Hz)	25.4 - 43 kW	21.8 - 53.5 kW	56.9 - 85.9 kW	57 - 142 kW	26 - 105.8 kW	20 - 44.2 kW	17.1 - 26.4 kW	25.6 - 53.6 kW	25.6 - 36 kW	29.3 - 106.7 kW	33.1 - 49.2 kW	22 - 32.7 kW	
Phase	1Ph/3Ph	3Ph	3Ph	3Ph	3Ph	3Ph	3Ph	1Ph/3Ph	3Ph	3Ph	3Ph	3Ph	3Ph	3Ph	
Refrigerant type	R410a	●	●	●	●	●	●	●	●	●	●	●	●	●	
	R22	●	-	●	-	●	●	-	●	●	-	●	-	-	
	R407C	●	-	●	-	●	●	-	●	●	-	●	-	-	
	R134A	●	-	●	-	●	●	-	●	●	-	●	-	-	
	R32	●	-	●	-	-	-	-	-	-	-	-	●	**	
Power supply	Voltage @ Frequency Hz	200/220 V@50 Hz, 200/230 V@60 Hz, 380/420 V@50 Hz, 380 V@60 Hz, 460 V@60 Hz	200/220 V@50 Hz, 200/230 V@60 Hz, 380/420 V@50 Hz, 380 V@60 Hz, 460 V@60 Hz, 575 V@60 Hz	200/220 V@50 Hz, 200/230 V@60 Hz, 380/420 V@50 Hz, 380 V@60 Hz, 460 V@60 Hz, 575 V@60 Hz	200/220 V@50 Hz, 200/230 V@60 Hz, 380/420 V@50 Hz, 380 V@60 Hz, 460 V@60 Hz	200/220 V@50 Hz, 200/230 V@60 Hz, 380/420 V@50 Hz, 380 V@60 Hz, 460 V@60 Hz, 575 V@60 Hz	200/220 V@50 Hz, 200/230 V@60 Hz, 208/230 V@60 Hz, 220/230 V@50 Hz, 380/400 V@60 Hz, 380/420 V@50 Hz, 380 V@60 Hz, 460 V@60 Hz, 575 V@60 Hz	208/230 V@60 Hz	200/220 V@50 Hz, 200/230 V@60 Hz, 380/420 V@50 Hz, 380 V@60 Hz, 460 V@60 Hz	200/220 V@50 Hz, 200/230 V@60 Hz, 380/420 V@50 Hz, 380 V@60 Hz, 460 V@60 Hz	200/220 V@50 Hz, 200/230 V@60 Hz, 380/420 V@50 Hz, 380 V@60 Hz, 460 V@60 Hz	200/220 V@50 Hz, 200/230 V@60 Hz, 380/400 V@60 Hz, 380/420 V@50 Hz, 380 V@60 Hz, 460 V@60 Hz	380-575 V, 200-240 V @20-120 Hz	380-420 V, 200-230 V @20-140 Hz	








*The capacity is calculated based on R410A
** In development

Key features and benefits

Heating and cooling	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Enhanced vapor injection	-	-	Yes	Yes	-	-	-	-	-	-	-	-	-	Yes
Part load operation with no. of capacity stages (Modulation range % total capacity)	Single stage only (0, 100%)	Single stage only (0, 100%)	Single stage only (0, 100%)	Single stage only (0, 100%)	Single stage only (0, 100%)	Two stage (0%, 50%, 100%) or Three stage (0%, 33%, 67%, 100%)	Two stage (0%, 67%, 100%)	Variable capacity (10-100%)	Variable capacity (10-100%)	Variable capacity (10-100%)	Variable capacity (10-100%)	Variable speed 20-120 Hz	Variable speed 20-140 Hz	
Superior energy efficiency at full load capacity (EER)	Up to 11.2	Up to 11.3	Up to 11.2	Up to 11.5	Up to 11.3	Up to 11.1	Up to 11.1	Up to 10.9	Up to 11.0	Up to 11.0	Up to 11.1	Up to 11.4	Up to 11.1	
More precise temperature control	Mid-high	Mid-high	Mid-high	Mid-high	Mid-high	High	High	Highest	Highest	Highest	Highest	High	High	
Level of complexity for OEM integration, engineering and controls	Low	Low	Low	Low	Low	Low	Low	Mid-high	Mid-high	Mid-high	Mid-high	Medium	Medium	

Product selector

Residential compressors

		Fixed Speed - Copeland™ Reciprocating Hermetic Compressors			Fixed Speed - Copeland Scroll™		Modulating Compressors	
		Copeland CRK6 & KQ	CRK8 Ultra High Efficiency	CPK8 Ultra High Efficiency 1.0-3.5 HP	Copeland Scroll 5G 1-6 HP	Copeland Scroll ZJ/ZPKH T3 Condition High Efficiency 2-6 HP	Copeland Scroll Digital 2-6 HP	Copeland Scroll Asia Variable Speed 3-5 HP
						 <small>* For middle east markets only</small>		
Applications	Split system	Yes	Yes	Yes	Yes	Yes	Yes	Yes
	Rooftop packaged unit	-	-	-	Yes	Yes	Yes	Yes
	Mini VRF	-	-	-	-	-	Yes	Yes
	Heat pump	-	-	-	-	-	-	-
Capacity	Capacity range (kW)	5.4 - 17.5 kW	5.1 - 8.1 kW	4.0 - 10.4 kW	4 - 26 kW	5 - 17 kW	10 - 21 kW	12 - 20 kW
Phase	1Ph/3Ph	1Ph/3Ph	1Ph/3Ph	1Ph/3Ph	1Ph/3Ph	1Ph/3Ph	1Ph/3Ph	1Ph/3Ph
Refrigerant type	R410a	-	-	●	●	●	●	●
	R22	●	-	-	●	-	●	-
	R407C	●	-	-	●	-	●	-
	R32	-	●	-	●	-	-	●
Power supply	Voltage @ Frequency Hz	1Ph and 3Ph: 220/230 V @50&60 Hz, 3Ph: 380 V/ 400 V@50 Hz, 380/460 V@60 Hz	1Ph 220/240 V @50& 208/230 V @60 Hz, 3Ph: 200 V/240 V and 380/420 V @50 Hz, 200/230 V and 380/460 V@60 Hz	1Ph and 3Ph: 220/230 V@50 Hz, 220/230 V@60 Hz, 380/420 V @50 Hz, 3Ph: 380 V/400 V@50 Hz, 460 V@60 Hz	220/240 V@50 Hz, 380/420 V@50 Hz, 208/230 V@60 Hz, 380/400 V@60 Hz, 200/220 V@50 Hz, 200/230 V@60 Hz, 460 V@60 Hz.	230 V@60 Hz, 208/230 V@60 Hz, 220/240 V@50 Hz, 380 V@60 Hz, 400 V@60 Hz.	208/230 V@60 Hz, 220/240 V@50 Hz, 380/420 V@50 Hz, 460 V@60 Hz, 200/230 V@50 Hz, 200/230/240 V@60 Hz, 380 V@60 Hz.	200-240 V, 380-420 V

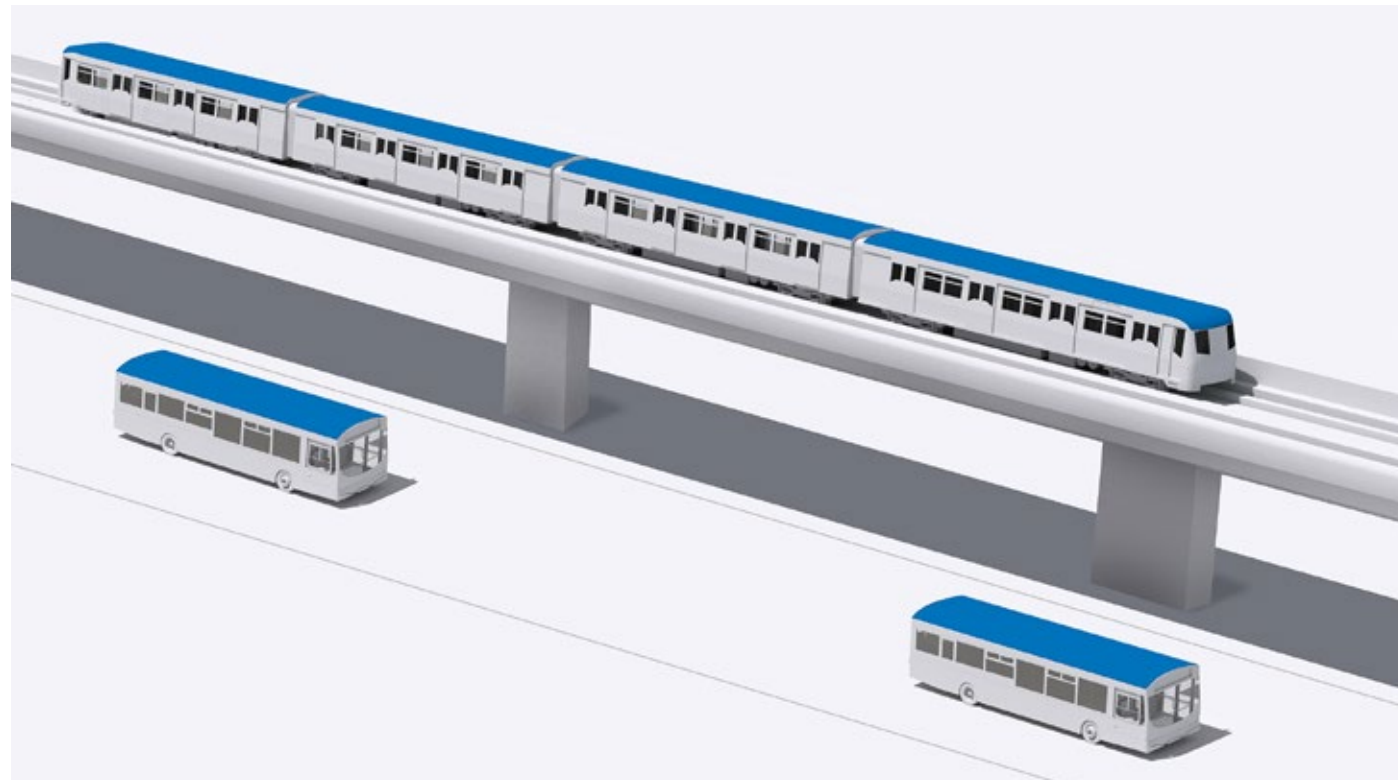
Conditions: ET=7.2°C, CT=54.4°C, SC=8.3K,SH=11.1K, Ambient Temperature: 35°C

Key features and benefits

Heating and cooling	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
Part load operation with no. of capacity stages (Modulation range % total capacity)	Single stage only (0, 100%)	Single stage only (0, 100%)	Single stage only (0, 100%)	Single stage only (0, 100%)	Single stage only (0, 100%)	Single stage only (0, 100%)	Variable capacity (10-100%)	Variable speed 15-120 Hz
Superior energy efficiency at full load capacity (EER)	Up to 11.2	Up to 11.3	-	Up to 10.8 for R410a	Up to 11	-	Up to 11	
More precise temperature control	Mid-high	Mid-high	Mid-high	Mid-high	Mid-high	Mid-high	Highest	High
Level of complexity for OEM integration, engineering and controls	Lowest	Lowest	Lowest	Low	Low	Mid-high	Medium	

Transport air conditioning

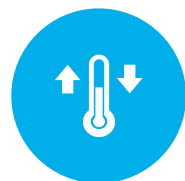
Emerson air conditioning solutions are engineered to deliver exceptional comfort, energy efficiency and reliable, long lasting operation for CRH, metro and rail transport applications.



Our experienced team can help you select the right products to achieve your desired outcomes:



Achieve regional compliance to energy regulations and standards



Superior temperature and humidity control



Enhanced performance and functionality



Long lasting reliability




Improved energy efficiency at full and part-load operation



Easy integration to system solutions

Product selector Transport air conditioning compressors

		Fixed Speed - Copeland Scroll Vertical	Fixed Speed - Copeland Scroll Horizontal	Modulating Compressors
		Copeland Scroll ZRKTE Vertical 2-16 HP	Copeland Scroll ZRHKTE Horizontal 6-10 HP	Copeland Scroll ZRHVKTE Horizontal Variable Speed 6-8 HP
				
Applications	Rail	Yes	Yes	Yes
	Electric bus	Yes	Yes	Yes
Capacity	Capacity range** (kW)	6 - 56 kW	17 - 35 kW	21 - 35 kW
Refrigerant type	R410a	-	-	-
	R134a	●*	●*	●*
	R404a	-	-	-
	R407C	●	●	●
	R507	-	-	-

** The capacity is calculated based on R407C
* Part Have

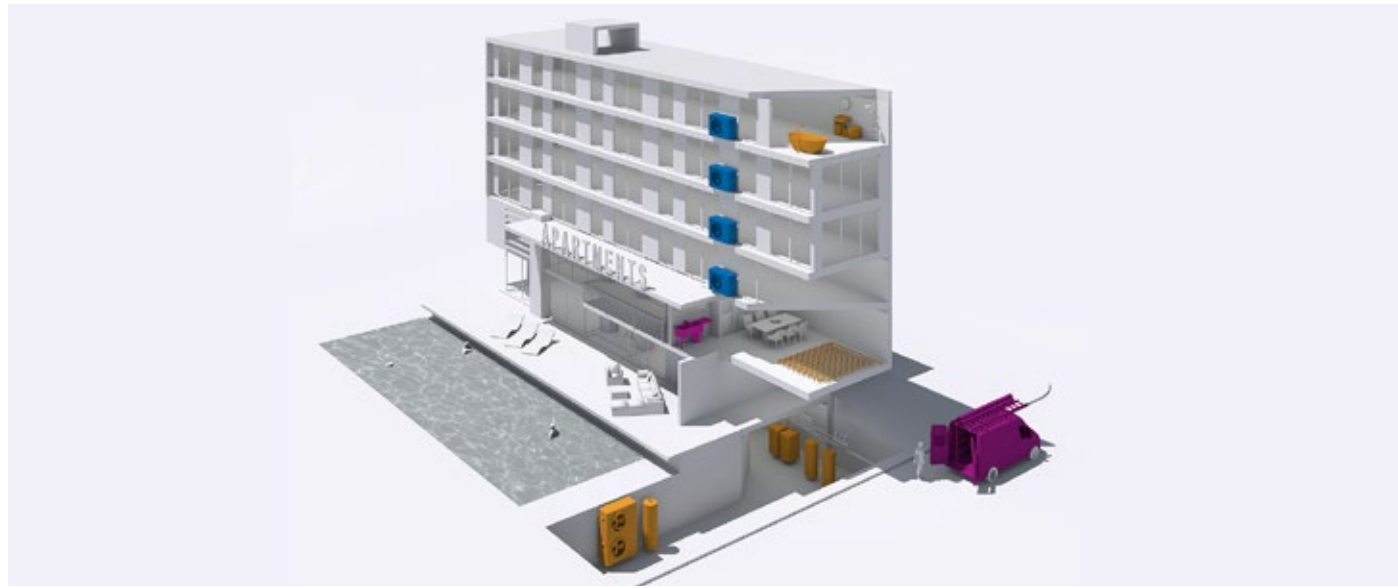
Key features and benefits

Heating and cooling	Yes	Yes	Yes
Part load operation with no. of capacity stages (Modulation range % total capacity)	Single stage only (0, 100%)	Single stage only (0, 100%)	Variable Speed 25-100 Hz (35-80 Hz 8 HP)
Superior energy efficiency at full load capacity (EER)	UP TO 11.4	UP TO 11.1	UP TO 10.9
More precise temperature control	-	Mid-high	High
Level of complexity for OEM integration, engineering and controls	Low	Low	Medium
Retrofit solution for replacement or service	Yes	Yes	Yes

Heating



Emerson heating solutions are engineered to deliver cost effective comfort, energy efficiency and reliable, long lasting operation for residential, commercial and industrial applications.



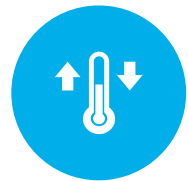
As a pioneer and leader in the HVACR industry we offer a range of Scroll™ compressors optimized for heat pump applications and we are committed to developing sustainable heating solutions in all segments. Our heating product range includes:

- Compressors
- Electronics
- Valves, controls and protection devices

Our experienced team can help you select the right products to achieve your desired outcomes:



Achieve regional compliance to energy regulations and standards



Superior temperature and humidity control



Enhanced performance and functionality



Long lasting reliability



Improved energy efficiency at full and part-load operation



Easy integration to system solutions

Space heating



Providing the right heat in your space
Emerson offers a variety of high-performance products to provide heat in residential and commercial spaces. Using innovative designs and superior materials, our heating compressors have earned the trust and satisfaction of our customers for comfort and performance.

Pool heating



Heating solutions for year-round swimming
Emerson pool heating solutions can be used for both residential and commercial applications. Our Copeland Scroll fixed speed compressors deliver the ideal water temperature and are engineered for reliable and cost-effective operation.



Sanitary heating



Safe and clean hot water
Emerson sets the industry standard for providing large volumes of hot water for sanitary purposes like showering, cleaning or washing. Our Copeland Scroll™ compressors highly regarded its reliability and high performance, making it the ideal choice for homes, hotels, offices, hospitals and other applications.

Industrial heating



Heating solutions for agriculture, manufacturing and your industry.
Emerson industrial heating products are engineered for high performance and reliability at the lowest life cycle cost. These compressors are ideal for the food processing industry, and for agricultural greenhouses.

Product selector

Heating compressors

		Fixed Speed - Copeland Scroll				Digital Scroll	Variable Speed		
		Copeland Scroll Quest 6-8 HP	Copeland Scroll ZW 5G 2-3 HP	Copeland Scroll ZW 5G 3-5 HP	Copeland Scroll ZW Summit 9-13 HP	Copeland Scroll Next-Gen 20-25 HP	Copeland Scroll ZW Digital For Heating 5-7 HP	Copeland Scroll ZWW 6-8 HP	Copeland Scroll VPW 5-6 HP
									
Applications	Individual	Yes	Yes	Yes	-	-	-	Yes	Yes
	District	Yes	-	-	Yes	Yes	-	-	-
	Industrial	Yes	-	Yes	Yes	-	Yes	-	-
	Sanitary	Yes	Yes	Yes	Yes	-	-	-	-
	Pool Heating	Yes	Yes	Yes	-	-	-	-	-
Capacity	Capacity range (kW)	22 - 26 kW	9 - 14 kW	15 - 24 kW	30 - 52 kW	68 - 86 kW	12 - 16 kW	12 - 18 kW	10 - 16 kW
Phase	1Ph/3Ph	1Ph/3Ph	1Ph/3Ph	1Ph/3Ph	3Ph	3Ph	3Ph	1Ph/3Ph	1Ph/3Ph
Refrigerant type	R410a	•	•	•	•	•	-	•	•
	R22	•	•	•	•	-	-	-	-
	R407C	•	•	•	•	-	-	-	-
	R134a	•	-	•	-	-	•	-	-
Power supply	Voltage @ Frequency Hz	220 V@50 Hz, 220-240 V@50 Hz, 380 V@50 Hz, 380-420 V@50 Hz, 460 V@50 Hz, 220 V@60 Hz, 220-240 V@60 Hz, 380 V@60 Hz, 380-420 V@60 Hz, 460 V@60 Hz	220 V@50 Hz, 220-240 V@50 Hz, 380 V@50 Hz, 380-420 V@50 Hz, 460 V@50 Hz, 220 V@60 Hz, 220-240 V@60 Hz, 380 V@60 Hz, 380-420 V@60 Hz, 460 V@60 Hz	220 V@50 Hz, 220-240 V@50 Hz, 380 V@50 Hz, 380-420 V@50 Hz, 460 V@50 Hz, 220 V@60 Hz, 220-240 V@60 Hz, 380 V@60 Hz, 380-420 V@60 Hz, 460 V@60 Hz	380 V@50 Hz, 380 V@60 Hz	200/220 V@50 Hz, 200/230 V@60 Hz, 380/420 V@50 Hz, 380 V@60 Hz, 460 V@60 Hz	380-420 V@50 Hz, 460 V@50 Hz, 380-420 V@60 Hz, 460 V@60 Hz	200-240 V@50 Hz, 380-420 V@50 Hz, 200-240 V@60 Hz, 380-420 V@60 Hz	200-240 V@50 Hz, 380-420 V@50 Hz, 200-240 V@60 Hz, 380-420 V@60 Hz

Conditions: ET=5°C, CT=55°C, SC=8.3K, SH=11.1K, Ambient Temperature: 35°C

Key features and benefits

Heating and cooling	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Enhanced vapor injection	Yes	Yes	Yes	Yes	Yes	-	Yes	Yes
Improved part load performance with multiple capacity stages (capacity stages)	Single stage only (0, 100%)	Single stage only (0, 100%)	Single stage only (0, 100%)	Single stage only (0, 100%)*	Single stage only (0, 100%)	Variable capacity (10-100%)	Variable capacity (30-100%)	Variable capacity (15-100%)
Superior energy efficiency at full load capacity (EER)	Up to 13.8	Up to 14.2	Up to 14.9	Up to 13.5	Up to 14.0	Up to 13.8	Up to 13.9	Up to 13.8
More precise temperature control	Mid-high	Mid-high	Mid-high	Mid-high	Mid-high	Highest	Highest	Highest
Level of complexity for OEM integration, engineering and controls	Low	Low	Low	Low	Low	Mid-high	Mid-high	Mid-high

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