

Copeland Scroll™

R410A Scroll Compressor Range Broadest Capacity Range Of The Market

Copeland Scroll™ ZP R410A compressors for air conditioning and process / precision cooling applications. 5 to 500kW cooling capacity.

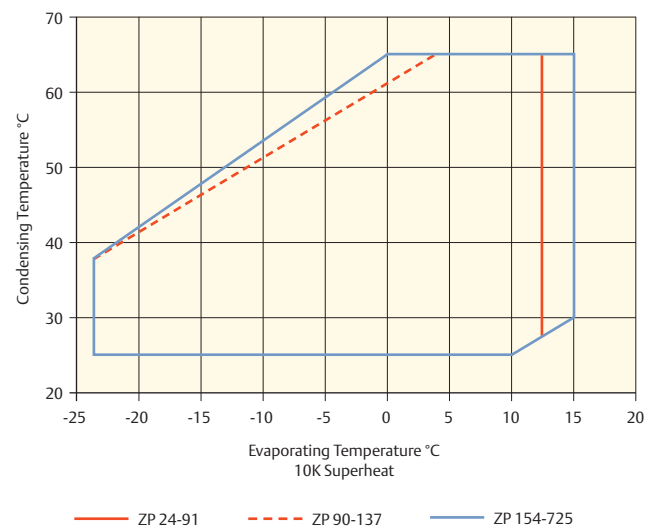
Emerson Climate Technologies was the first to offer a full R410A line-up of commercial scroll compressors. Its scroll technology expertise combined with the advantages of the R410A refrigerant build the ideal conditions for system manufacturers to optimize the costs and efficiency of their systems. R410A scroll systems have become an excellent alternative to reciprocating or screw systems with R134a. Furthermore Emerson Climate Technologies' well established expertise in paralleling multiple compressors is a unique advantage and benefit for the manufacturing of large capacity systems.

ZP Copeland Scroll compressors are perfectly suitable for air-cooled chiller systems up to 1000kW (1200kW if water-cooled) featuring high comfort and superior seasonal efficiency (SEER). Whether used in stand-alone, tandem or trio configurations, the broad ZP Copeland Scroll line-up meets today's market requirements with unmatched flexibility, efficiency and proven reliability.

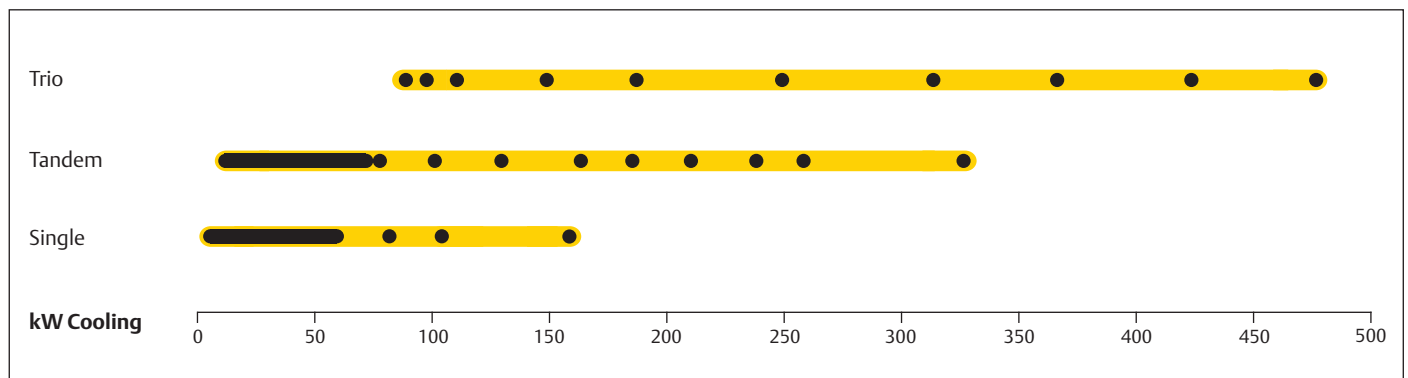
The new ZP104KCE and ZP122KCE compressors for light commercial systems have a reduced footprint and weight for more compact systems. Their high efficiency helps to reduce operating costs.



Operating Envelope ZP (R410A)



ZP Scroll Compressor Line-up



Features and Benefits

- Copeland™ qualified tandem and trio (also uneven configurations for superior seasonal efficiency (SEER))
- Copeland Scroll axial and radial compliance for superior reliability and efficiency
- Extended 5K operating envelope for heat pump applications
- Widest R410A commercial scroll line-up
- Low sound and vibration level
- Low oil circulation rate



Technical Overview

R410A	Cooling Capacity (kW)	COP	Net weight (kg)	1 Ph 230V	3 Ph 400V	Tandem Ready	Sound Power	Digital Model*	Shell Diameter	Length/Width/Height (mm)	Cooling Capacity (kW) Tandem / Trio																				
											Tandem	Trio	Uneven Trio																		
ZP24KSE	5.1	2.8	22	PFZ	TFM		66		139	242/242/407																					
ZP29KSE	6.1	2.9	23				66			242/242/407																					
ZP31KSE	6.5	2.8	23				66			242/242/388																					
ZP36KSE	7.9	3.0	30				TFD		✓	68	167	242/242/421	16																		
ZP42KSE	9	2.9	31									242/242/421	18																		
ZP54KSE	11.6	3.0	34									242/242/422	23																		
ZP61KCE	13.1	3.0	40									71	245/249/440	26																	
ZP72KCE	15.3	3.0	40									75	245/249/440	31																	
ZP83KCE	17.7	3.1	40									72	241/247/440	35																	
ZP91KCE	19.3	3.1	41							72	243/248/443	39																			
ZP104KCE	22.7	3.2	48							n.a.		74	185	293/258/559	45																
ZP122KCE	26.5	3.2	48											293/258/559	53																
ZP137KCE	29.9	3.2	65	75	264/284/533	60		88																							
ZP154KCE	33.5	3.2	65											76	264/284/552	66	99														
ZP182KCE	39.6	3.2	66															77	264/284/552	79	117										
ZP235KCE	50.6	3.2	140				82		432/391/717													101	150								
ZP236KCE	50.9	3.2	127									82	403/385/694											101	150						
ZP295KCE	63.5	3.2	160																							85	331	448/392/725	127	188	
ZP296KCE	63.2	3.2	132	85	280	403/385/694		125																							187
ZP385KCE	82.4	3.2	178											85	331	448/392/715	165														
ZP485KCE	105.0	3.2	190															89	331	448/392/756	209										
ZP725KCE	160.0	3.2	250				89		331													482/458/863	317								

Conditions EN12900 R410A: Evaporating 5°C, Condensing 50°C, Superheat 10K, Subcooling 0K

* For Copeland Scroll Digital™ model see dedicated brochure

✓ = available

Tandem and Trio Configuration

Tandem	ZP36KSE to ZP154KCE	137KCE	154KCE	182KCE	235KCE	295KCE	385KCE	485KCE	725KCE
ZP36KSE to ZP154KCE	Even Tandem								
ZP182KCE		✓	✓	✓					
ZP235KCE				✓	✓				
ZP295KCE				✓		✓			
ZP385KCE				✓	✓		✓		
ZP485KCE							✓	✓	
ZP725KCE							✓	✓	✓
Trio		✓	✓	✓	✓	✓	✓	✓	✓
Uneven Trio							✓	✓	✓

✓ Copeland™ design available on request

For more details, see www.emersonclimate.eu

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