

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.

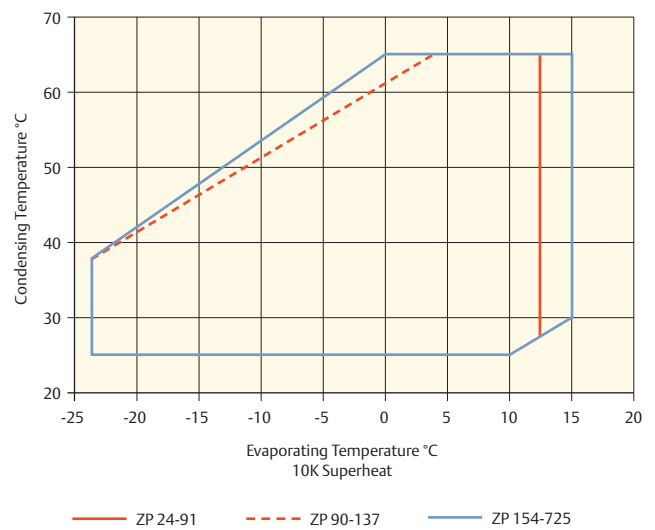
Emerson Climate Technologies was the first to offer a full R410A line-up of commercial scroll compressors. Its scroll technology expertise combined with the advantages of the R410A refrigerant build the ideal conditions for system manufacturers to optimize the costs and efficiency of their systems. R410A 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.

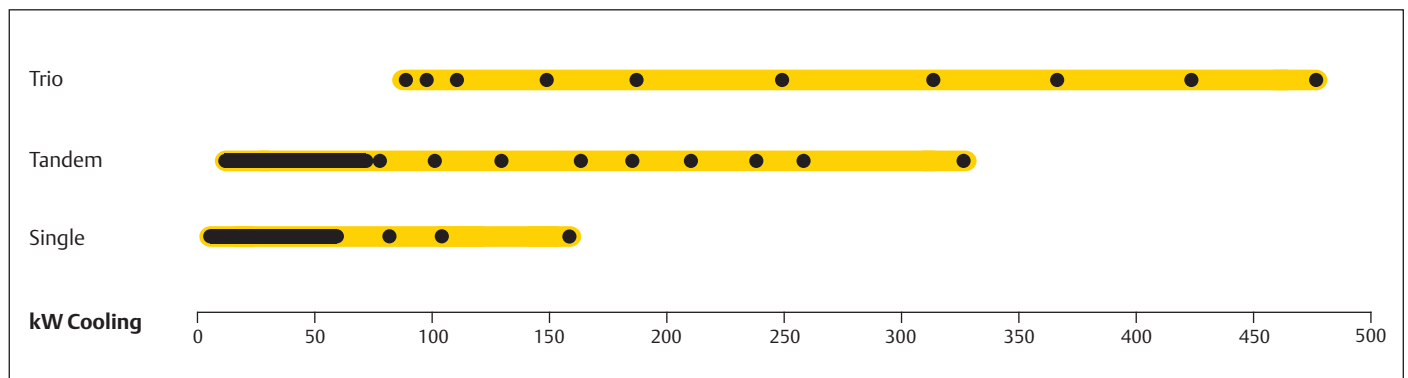
The new ZP104KCE and ZP122KCE compressors for light commercial systems have a reduced footprint and weight for more compact systems. Their high efficiency helps to reduce operating costs.



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	TFD		167	185	242/242/421	16		
ZP42KSE	9	2.9	31					68			242/242/421	18		
ZP54KSE	11.6	3.0	34					68			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					74	293/258/559	45				
ZP122KCE	26.5	3.2	48					74	293/258/559	53				
ZP137KCE	29.9	3.2	65	n.a.	TWD			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	448/392/725	127	188					
ZP296KCE	63.2	3.2	132			85	403/385/694	125	187					
ZP385KCE	82.4	3.2	178			85	448/392/715	165	243					
ZP485KCE	105.0	3.2	190			89	448/392/756	209	309	264 & 286				
ZP725KCE	160.0	3.2	250			89	482/458/863	317	470	362 & 416				

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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