

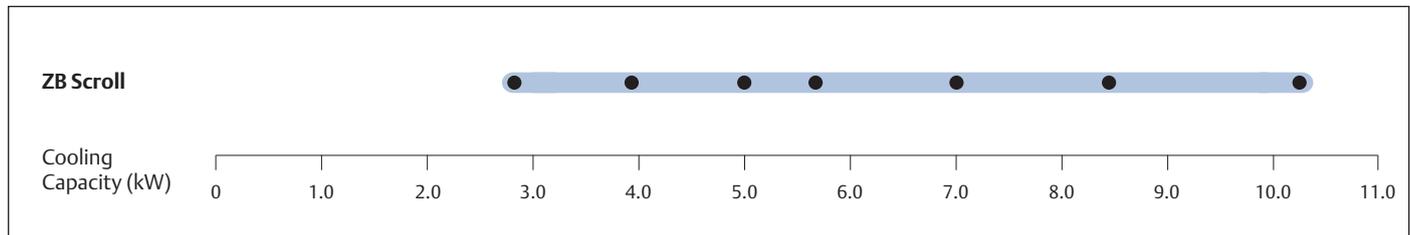
ZB Copeland Scroll™ For R290 (Propane) Natural Efficiency For Medium Temperature Refrigeration

Emerson Climate Technologies is offering a full range of propane Copeland Scroll compressors. The new ZB* KCU Copeland Scroll compressor range with R290 is the ideal choice for self-contained medium temperature applications. These compressors are also suitable for refrigeration chiller and small cascade systems. The complete compressor range of propane scrolls meets Emerson's reliability standards and is ATEX Group II classified.

Propane (R290) is a flammable natural refrigerant which has long been known for its good performance. It has zero ozone depletion potential, negligible global warming potential (GWP), as well as excellent thermodynamic properties. R290 systems require in average half the charge of hydro-fluorocarbons (HFCs). These features make R290 suitable for the upcoming F-gas regulations.



ZB* KCU Compressor Range



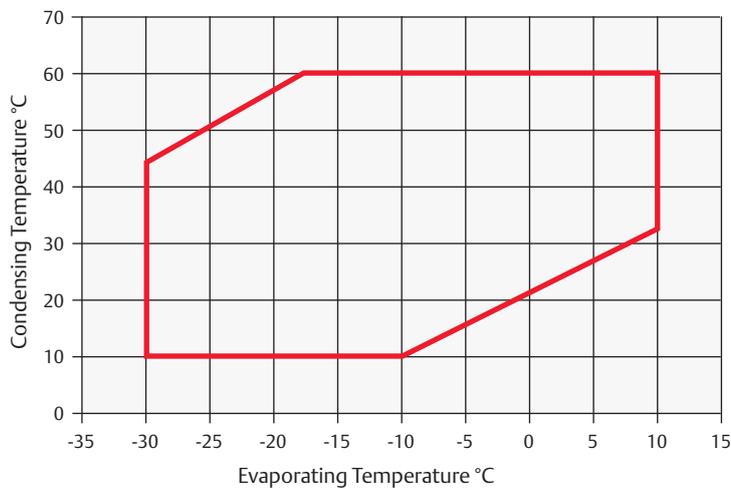
EN12900 Evaporating -10C, Condensing 45C, Superheat 10K, Subcooling 0K

Features and Benefits

- ATEX compliance
- IP65 (IEC 60529) Terminal Box
- Fully hermetic design, no sight-glass, no Schrader valve
- Wide operating envelope
- Dedicated oil for propane
- Ideal for self-contained medium temperature display cases
- Suitable for refrigeration chiller and small cascade systems
- Light weight, compactness and high efficiency
- Axial and radial compliance



Operating Envelope R290



Technical Overview

Model	Nominal (hp)	Displacement (m ³ /h)	Cooling Capacity (kW)	Stub Suction (inch)	Stub Discharge (inch)	Oil Quantity (l)	Length/Width/Height (mm)	Net Weight (kg)	Motor Version/Code	Maximum Operating Current (A)	Locked Rotor Current (A)	Sound Pressure @1 m (dBA)***
									3 Ph**	3 Ph**	3 Ph**	
ZB12KCU	2.0	5.8	2.8	3/4	1/2	1.3	243/243/364	25.9	TFM	4.1	26	60
ZB17KCU	2.5	8.0	3.9	3/4	1/2	1.5	243/242/387	27.2	TFM	5.2	32	61
ZB20KCU	3.5	10.0	5.0	3/4	1/2	1.5	243/242/400	28.1	TFM	6.8	46	62
ZB25KCU	4.0	11.7	5.7	3/4	1/2	1.9	247/241/451	39.5	TFM	8.2	64	65
ZB31KCU	5.0	14.4	7.0	3/4	1/2	1.9	247/241/451	37.3	TFM	10.1	64	65
ZB37KCU	6.0	17.1	8.3	3/4	1/2	1.9	250/246/438	39.5	TFM	11.8	74	65
ZB49KCU	8.0	21.4	10.4	1 1/4	1/2	1.9	246/256/442	39.5	TFM	15.9	102	68

EN12900 R290, Evaporating -10°C, Condensing 45°C, Superheat 10K, Subcooling 0K
 ** 3 Ph: 380-420V/ 50Hz
 *** @ 1m: sound pressure level at 1m distance from the compressor, free field condition

For more details, see www.emersonclimate.eu

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