



SCR-EPM2 ENERGY SAVING COMPRESSORS

PRODUCT CATALOGUE



SCR075EPM2 (55KW) TO SCR220EPM2 (160KW)

Uniquely Designed Dual-Layer Oil-Cooled PM Motor

This permanent magnet (PM) motor features a dual-layer design with an integrated cooling jacket. It utilizes the compressor's oil cooling circuit to maintain optimal operating temperature—even during extended periods of low-speed operation. With an IP65 rating, the motor is ideal for dusty or harsh environments. Unlike traditional motors, it operates without conventional bearings, making it completely maintenance-free.

High-Efficiency Air End

The air end incorporates an asymmetrical rotor profile, which creates a broader sealing band between rotors compared to the narrow line seals found in most conventional designs. This improves overall efficiency by 5% to 10%. The use of large-diameter rotors further enhances efficiency, especially at low rotational speeds, resulting in reduced noise levels and extended operational lifespan.

Advanced Touchscreen PLC Controller

The modern touchscreen interface provides intelligent and user-friendly control of your compressor. You can easily program pressure settings and operating schedules, enabling automatic start/stop functionality to align with your production cycles—maximizing efficiency and minimizing energy waste.

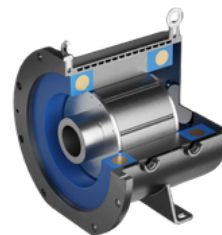
FEATURES AT A GLANCE

- High efficiency, oversized air end that produces more air with less kw's
- Designed for high ambient temperatures
- Synthetic Coolant
- Special dual housing liquid cooled motor
- Vector Control Technology
- Siemens Switchgear
- Leak proof rigid steel piping
- IP65 Permanent Magnet Oil Cooled Motor
- ASME Certified Separator Vessel
- Two (2) year warranty on compressor (mechanical only)

Air End and Motor Blow Up Diagram



Permanent Magnet Motor Cut Out



Cooling System



Liquid Cooling to PM Motor



Permanent Magnet Motor Cut Out



TECHNICAL INFORMATION

SCR075EPM2 TO SCR220EPM2

Type	POWER	Working Pressure	Rated air displacement		Noise Db (A) ± 3	Air outlet pipe diameter	Drive mode	Cooling mode	Oil volume	Main motor		Machine size: LxWxH (MM)	Machine weight: KG
	KW/HP	BAR	M3/min	CFM						Rated motor :AMPS	Protection Level		
SCR075EPM2	55 / 75	7	12	423	≤ 76	2"	Direct Drive	Liquid Cooling	55 L	118 A	IP65	1800 x 1200 x 1650	1450
		8	11	388									
		10	10	353									
SCR090EPM2	63 / 90	7	12.7	448	≤ 76	2"	Direct Drive	Liquid Cooling	55 L	132 A	IP65	1800 x 1200 x 1650	1490
		8	12.5	441									
		10	11	434									
SCR100EPM2	75 / 100	7	16.3	575	≤ 78	DN65	Direct Drive	Liquid Cooling	78 L	146 A	IP65	2280 x 1500 x 1950	2010
		8	16	565									
		10	13.7	483									
SCR125EPM2	90 / 120	7	20	706	≤ 78	DN65	Direct Drive	Liquid Cooling	78 L	185 A	IP65	2280 x 1500 x 1950	2050
		8	19	670									
		10	16.5	582									
SCR150EPM2	110 / 150	7	24.5	865	≤ 78	DN80	Direct Drive	Liquid Cooling	78 L	260 A	IP65	2800 x 1750 x 1692	2900
		8	24	847									
		10	21	741									
SCR180EPM2	132/180	7	30	171	≤ 79	DN80	Direct Drive	Liquid Cooling	115 L	275 A	IP65	2700 x 1650 x 2150	3050
		8	28.5	173									
		10	23	163									
SCR220EPM2	160/220	7	33.5	193	≤ 79	DN80	Direct Drive	Liquid Cooling	115 L	330 A	IP65	2700 x 1650 x 2150	3150
		8	32	197									
		10	27	190									

Please note: Slow curve breaker sizes must be determined by a qualified electrician. Rule of thumb is 2 - 2.2 times the kW rating for the unit.





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