

11. Low Pressure Range SCR-LBPM Screw Compressors

SCR420LB (37kw) – SCR1500LBPM (185kw)

Permanent magnetic variable frequency motor

Permanent magnet frequency conversion motor uses the same 180°C high temperature permanent magnet material as the higher pressure machines in the range. This ensures the permanent magnet motor does not suffer any demagnetization problems due to excess heat.

Our PM motor has achieved the highest level nationally for energy efficiency. The PM motor uses Nd-fe-b magnetic materials which has excellent magnetic properties and with a bearing free design, it means that there is no maintenance to carry out.

Low pressure specialized air end

Precision patent profile air end reduces leakage and increases the compression area to ensure that the air end runs at the lowest energy consumption. On average our energy efficiency air end can save 8% - 10% energy.

Specially designed PM motor

The PM motor efficiency is even higher than IE3 premium efficiency motors. The motor uses high performance magnetic materials giving many advantages such as bearing free operation, grease free maintenance, direct 1:1 coupling without transmission losses, low noise and low vibration, leading to a compact structure.

Enhanced Energy Saving

When demand is low, the PM low pressure compressors firstly reduces the speed to maintain the correct flow demand. If the air demand stops, the compressor enters stand-by mode, saving further energy. The compressor automatically restarts and runs when the pressure drops below its set point.

The latest generation intelligent touch screen controller

SCR's latest touch screen interface allows simple intelligent control for your compressor. Pressure and scheduling times can be easily programmed, allowing you to automatically start and stop the compressor to match

Features at a Glance

- High Efficiency Air End
- Designed for High Ambient Temperatures
- Synthetic Coolant
- Special Dual Housing Oil Cooled Motor
- Vector Control Technology
- Intelligent PLC Control
- Siemens Switchgear
- Leak proof rigid steel oil piping
- IP65 Permanent Magnet motor (Energy saving)
- ASME Certified Separator Vessel
- Two (2) year mechanical warranty on compressor



SCR-LBPM Screw Compressors

Type	Power	Work Pressure	Rated air displacement		Noise Db (A) ± 3	Air outlet pipe diameter	Drive mode	Main motor		Machine size:L xWxH mm	Machine weight:kg	Oil Capacity
	KW/HP	Bar	M3/min	CFM				Rated motor :AMPS	Protection Level			
SCR420LB	37	1.5 - 3	12	423	≤ 70 ± 3	DN80	DIRECT DRIVE	101 A	IP54	2400 1760 1700	2400	70 L
	45	4										
	45	5										
SCR530LB	45	1.5 - 3	15	529	≤ 70 ± 3	DN80	DIRECT DRIVE	138 A	IP54	2400 1760 1700	2600	70 L
	55	4										
	55	5										
SCR830LB	63	1.5 - 3	21.5	759	≤ 75 ± 3	DN100	DIRECT DRIVE	160 A	IP54	2900 1860 1900	2900	110 L
	75	4										
	90	5										
SCR950LB	90	1.5 - 3	28.8	1017	≤ 78 ± 3	DN100	DIRECT DRIVE	230 A	IP54	2900 1860 1900	3100	110 L
	110	4										
	110	5										
SCR1500LB	132	1.5 - 3	47.4	1684	≤ 78 ± 3	DN150	DIRECT DRIVE	460 A	IP54	3300 2200 2100	5300	185 L
	160	4										
	185	5										
SCR420LBPM	37	1.5	3.6 - 12	127 - 423	≤ 70 ± 3	DN80	DIRECT DRIVE	103 A	IP54	2400 1760 1700	2500	70 L
	45	4										
	45	5										
SCR530LBPM	45	3	4.5 - 15	158 - 529	≤ 70 ± 3	DN80	DIRECT DRIVE	140 A	IP54	2400 1760 1700	2700	70 L
	55	4										
	55	5										
SCR830LBPM	63	3	6.5 - 21.5	229 - 759	≤ 75 ± 3	DN100	DIRECT DRIVE	162 A	IP54	2900 1860 1900	3100	110 L
	75	4										
	90	5										
SCR950LBPM	110	1.5 - 3	8.6 - 28.8	303 - 1017	≤ 78 ± 3	DN100	DIRECT DRIVE	232 A	IP54	2900 1860 1900	3300	110 L
	110	4										
	110	5										
SCR1300LBPM	110	1.5 - 3	10.8 - 33	381 - 1165	≤ 78 ± 3	DN150	DIRECT DRIVE	366 A	IP54	3300 2200 2100	4800	185 L
	110	4										
	132	5										
SCR1500LBPM	132	1.5 - 3	14.2 - 47.4	501 - 1684	≤ 78 ± 3	DN150	DIRECT DRIVE	462 A	IP54	3300 2200 2100	5500	185 L
	160	4										
	185	5										

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.