



11. Medium Size Energy Saving Range SCR-PM Screw Compressor

SCR030PM (22kw) – SCR100PM (75kw)

High Efficiency Air End

The asymmetrical rotor profile allows for a broader sealing band between rotors compared to the conventional narrow line style seal in most other air ends. This increases air end efficiency by 5% - 10%. The use of large diameter rotors allows for higher efficiencies even at low rotational speeds providing tangible benefits such as reduced noise and extended longevity.

Oversized dual, back-to-back taper roller bearings effectively retain the rotor position during all load, unload and start-up conditions.

Special Designed Dual Housing Oil Cooling IP65 Motor

The Permanent Magnet motor adopts a dual housing design which utilises the compressors' oil circuit to cool the motor. This helps to prevent any demagnetisation of the PM motor, keeping it cool throughout the speed range. The PM motor's 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 footprint. The motor has a see-through cover at the back, allowing you to easily view the motor rotation.

Latest Inverter Technology

We make use of the latest Vector Control Technology which allow for more precise control of the compressor. This is a time proof, high reliability inverter.

Features at a Glance

- High efficiency Air End
- Designed for high ambient temperatures
- Synthetic Coolant
- Special Dual Housing Oil Cooled Motor
- Vector Control Technology
- Siemens switchgear
- Leak proof rigid steel oil piping
- IP65 Permanent Magnet Oil Cooled Motor
- ASME Certified Separator Vessel
- Two (2) year warranty

SCR PM RANGE TECHNICAL DATA

Type	Power	Working Pressure BAR	Rated air displacement		Noise dB (A) ± 3	Air outlet pipe diameter	Drive mode	Cooling Method	Oil volume/ Synthetic Oil	Main motor		Machine size:L xWxH (MM)	Machine weight: KG
	Kw/HP		M ³ /min	CFM						Rated motor :AMPS	Protection Level		
SCR030PM	22 / 30	7	3.7	130	≤ 66 ± 3	1"	Direct Drive	Oil Cooling	16 L	40 A	IP65	1200 800 1100	450
		8	3.6	127									
		10	3.2	113									
SCR040PM	30 / 40	7	5.23	183	≤ 68 ± 3	1"	Direct Drive	Oil Cooling	17 L	54 A	IP65	1200 800 1100	480
		8	5	176									
		10	4.2	148									
SCR050PM	37 / 50	7	6.4	226	≤ 72 ± 3	1 ½"	Direct Drive	Oil Cooling	27 L	64 A	IP65	1300 900 1270	610
		8	6.3	222									
		10	5.6	197									
SCR060PM	45 / 60	7	7.3	257	≤ 73 ± 3	1 ½"	Direct drive	Oil Cooling	29 L	78 A	IP65	1300 950 1370	650
		8	7.2	254									
		10	7.1	250									
SCR075PM	55 / 75	7	10.2	360	≤ 75 ± 3	2"	Direct drive	Oil Cooling	64 L	109 A	IP65	1800 1200 1550	1230
		8	10.1	356									
		10	8.4	296									
SCR100PM	75 / 100	7	13.3	469	≤ 76 ± 3	2"	Direct drive	Oil Cooling	64 L	140 A	IP65	1800 1200 1550	1280
		8	12.9	455									
		10	11.8	416									

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.