

## 8. 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 mechanical warranty on machine

| Type     | Power   | Working Pressure | 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   |                  | BAR                    | M <sup>3</sup> /min |                  |                          |              |                |                           | CFM        | Rated motor :AMPS |                          |                    |
| SCR030PM | 22 / 30 | 7                | 3.7                    | 130                 | ≤ 66 ± 3         | 1"                       | Direct Drive | Oil Cooling    | 16 L                      | 40 A       | IP65              | 1200<br>800<br>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<br>800<br>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<br>900<br>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<br>950<br>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<br>1200<br>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<br>1200<br>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.