



## Refcomp SRC-S(W)-603 SRC-S-603-L4 R410a Refrigeration Screw Compressor

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SRC-S(W)-603, SRC-S-603-L4
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union, T/T
- Supply Ability: 100000Pcs/Year



### Product Specification

- Displacement 50/60Hz: 600/720 M3/hr
- Rated Power: 220HP/164KW
- Oil Charge: 20L
- Refrigerant: R22, R407C, R410a, R404A, R507A
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: Refcomp SRC-S-603 R410a Compressor, SRC-S(W)-603 Refrigeration Screw Compressor, Refcomp SRC-S-603-L4 Screw Compressor



### More Images



Product Description

Product Description

- High-Efficiency Asymmetric Rotor Profile:** Optimized 5/6 lobe geometry ensures smooth, quiet meshing and continuous gas displacement for demanding refrigeration applications.
- Integrated Internal Oil Separator:** Multi-stage internal separation reaches up to 99.85% efficiency, minimizing oil carryover and maintaining clean heat exchanger surfaces.
- Flexible Capacity Modulation:** Supports 4-step capacity control (100%, 75%, 50%, 25%) alongside full stepless modulation to match variable thermal loads precisely.
- Advanced Motor Thermal Protection:** Equipped with an INT69 SNY module and six series-connected PTC thermistors for continuous real-time monitoring of motor winding and discharge temperatures.

Product Image



Technical Specification

|                              |                                         |              |
|------------------------------|-----------------------------------------|--------------|
| Model                        | SRC-S(W)-603                            | SRC-S-603-L4 |
| Rated power                  | 220HP / 164KW                           |              |
| Exhaust volume (50Hz / 60Hz) | 700 / 840 m³/hr                         |              |
| Refrigerant Type             | R22, R407C, R410a, R404A, R507A         |              |
| Weight                       | 1020 KG                                 |              |
| Oil Charge                   | 20 L                                    |              |
| Voltage                      | 400/3/50Hz – 460/3/60Hz                 |              |
| Cooling Capacity Regulation  | 100%, 75%, 50%, 25% (stepless 100%–25%) |              |
| LRA Y/Δ                      | 543 / 1645A                             | 595 / 1802A  |

| Model SRC-S(W)                          |         | 353                                 | 413     | 463     | 503     | 553          | 603     | 755      | 785          | 885       | 985       |      |      |
|-----------------------------------------|---------|-------------------------------------|---------|---------|---------|--------------|---------|----------|--------------|-----------|-----------|------|------|
| Standard Motor Power                    | HP/kW   | 120/90                              | 140/105 | 160/120 | 180/135 | 200/150      | 220/164 | 220/164  | 240/179      | 270/201   | 300/224   |      |      |
| Displacement 50/60[Hz]                  | m³/h    | 402/482                             | 445/534 | 510/612 | 562/674 | 600/720      | 700/840 | 860/1030 | 910/1092     | 1000/1200 | 1100/1320 |      |      |
| Weight                                  | kg      | 730                                 | 740     | 775     | 1010    | 1030         | 1020    | 980      | 1400         | 1400      | 1400      |      |      |
| Oil Charge                              | dm³     | 14                                  |         | 16      | 19      |              | 20      | 23       | 25           |           |           |      |      |
| Electrical Heater                       |         | 275W-230V-50/60Hz                   |         |         |         |              |         |          |              |           |           |      |      |
| Discharge pipe inner diameter/pipe size | mm      | 80.0/3-1/8"                         |         |         |         |              |         |          | 105.5/4-1/8" |           |           |      |      |
| Suction pipe inner diameter/pipe size   | mm      | 92.5/3-5/8"                         |         |         |         | 105.5/4-1/8" |         |          | 134.8/0133   |           |           |      |      |
| Liquid Injection Connection             | mm      | 10(copper pipe)                     |         |         |         |              |         |          |              |           |           |      |      |
| Economizer Connection                   | mm      | 28                                  |         |         |         | 42           |         | 28       | 42           |           |           |      |      |
| Cooling Capacity Regulation             |         | 100%,75%,50%,25%(stepless 100%-25%) |         |         |         |              |         |          |              |           |           |      |      |
| Protection Device                       |         | INT69 SNY                           |         |         |         |              |         |          |              |           |           |      |      |
| Lubricating Oil                         |         | R22:S001,R407C、R404A、R507:S002      |         |         |         |              |         |          |              |           |           |      |      |
| Compressor Positioning Hole             |         | 4×Ø19                               |         |         |         |              |         |          |              |           |           |      |      |
| Standard Motor                          |         | 400/3/50Hz-460/3/60Hz               |         |         |         |              |         |          |              |           |           |      |      |
| Y/Δ                                     | SRC-S-W | LRA Y                               | A       | 276     | 354     | 374          | 453     | 543      | 543          | 595       | 783       | 876  | 1062 |
|                                         |         | LRA Δ                               | A       | 876     | 1155    | 1155         | 1333    | 1645     | 1645         | 1802      | 2348      | 2627 | 3186 |
|                                         |         | FLA                                 | A       | 195     | 210     | 230          | 265     | 290      | 320          | 418       | 475       | 540  | 590  |
|                                         | SRC-S   | LRA Y                               | A       | 354     | 374     | 453          | 543     | 595      | 595          | 595       | 876       | 1062 | 1062 |
|                                         |         | LRA Δ                               | A       | 1155    | 1155    | 1333         | 1645    | 1802     | 1802         | 1802      | 2627      | 3186 | 3186 |
|                                         |         | FLA L                               | A       | 225     | 245     | 270          | 300     | 334      | 400          | 418       | 520       | 590  | 650  |

## FAQ

**Q: What electrical supply requirements and heater ratings must be accommodated in the control panel for the SRC-S(W)-603 (SRC-S-603-L4) compressor?**

A: The main motor operates on a standard 400V/3Ph/50Hz or 460V/3Ph/60Hz power supply, while the built-in crankcase heater requires a dedicated 275W – 230V – 50/60Hz supply to prevent refrigerant migration during idle periods.

**Q: What piping layout factors should be considered when connecting suction and discharge lines to this model?**

A: Installers must match the 105.5 mm (4-1/8") suction connection and 80.0 mm (3-1/8") discharge line accurately, ensuring proper support and vibration isolation to eliminate excessive stress on the shut-off valves.

**Q: How should the oil level and initial lubrication be verified prior to commissioning?**

A: Check that the oil charge reaches the specified level visible in the sight glass using the approved lubricant type (such as S001 for R22 or S002 for HFC blends), and verify filter cleanliness before startup.

**Q: What diagnostic steps should technicians follow if the INT69 SNY module triggers a safety lockout?**

A: Inspect motor winding and discharge gas temperature sensors, verify correct three-phase supply voltage sequence, check for phase imbalance, and ensure adequate cooling superheat before resetting the module.

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