SENATOR

INDUSTRIAL AIR COMPRESSORS



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CS and CSV Series 4 to 15 kW

Rotary Screw Air Compressor 4-in-1 Air Stations 0.66 to 2.62 m³/min 7 to 10 bar



The Senator CS and CSV Series 4-in-1 compressed air stations comprise a rotary screw compressor, air receiver tank, refrigerant dryer and both pre- and post-filters in a single integrated package. Save on floor space and installation cost by choosing one of these ready-to-run units that will dependably provide your business with clean and dry compressed air.

Each model has been developed using innovative European design concepts to achieve a compact layout and then upgraded with heavy-duty components to satisfy the demands of Australia's harsh operating conditions.

Industrial applications typically have fluctuating compressed air usage that can be most efficiently fulfilled by the variable speed drive CSV Series, which saves energy by continuously adjusting the compressor's output to match air demand.



Features and Benefits

Compact turn-key compressed air station offers a convenient plug-and-play solution with the lowest installation cost and space requirements.

Soundproofed cabinet and antivibration mounting of rotating components enables the unit to be installed directly at the work site.

Precision technology rotary screw air-end with advanced rotor profile and slow rotor speed ensures 24/7 reliability, high flow rate, low energy consumption and long service life.

High efficiency, MEPS compliant electric motor reduces energy consumption and carbon footprint.

7, 8 and 10 bar (102, 116 and 145 psi) outlet pressure capability that is suitable for a broad range of compressed air applications.

Largest-in-class 600 litre air receiver tank provides ample air storage capacity to prevent excessive system pressure fluctuations and facilitates more effective condensate removal.

Star-delta motor starter on CS models reduces both peak electrical demand and mechanical shock-loading during compressor start-up.

Microprocessor-based variable speed drive (VSD) on CSV models provides optimised motor speed and power control under all operating conditions.

Multi-function electronic controller with LED display serves as a user-friendly interface for compressor operation, systems monitoring and protection, and maintenance scheduling. Sequential control and remote start/stop capable.

Refrigerant dryer in its own thermally segregated compartment continuously removes moisture from the compressed air stream.

Two compressed air filters with element condition gauges remove particulates down to 0.01 micron and limit oil carry-over to 0.01 ppm.

Timer drain valves plumbed to a single connection point facilitate automatic, clean and safe disposal of water condensate from the air receiver tank, dryer and filters.

Lift-off cabinet panels are easily removable for maintenance access.

Spin-on oil filter and air/oil separator elements minimise service downtime.

Compliant with Australian Workplace Health and Safety Regulations for industrial workplace use.



Energy Saving CSV Series

Energy consumption comprises about 75% of the total annual cost for an electric screw compressor in most industrial applications. A conventional fixed-speed 15 kW unit, for example, uses around \$7,000 worth of electricity per year on average working just one 38-hour shift per week.

Senator CSV Series variable-speed compressors can use up to 30% less electricity than comparable fixed-speed models. In the above example, this could add up to a cost saving of approximately \$2,000 per year.

A Senator CSV Series compressor is the energy smart choice whether for a new installation or a replacement upgrade. It will pay for itself many times over in electricity cost savings.



Customer and Product Support

100-point pre-delivery inspection and full-load testing of each compressor is carried out in Australia before dispatch.

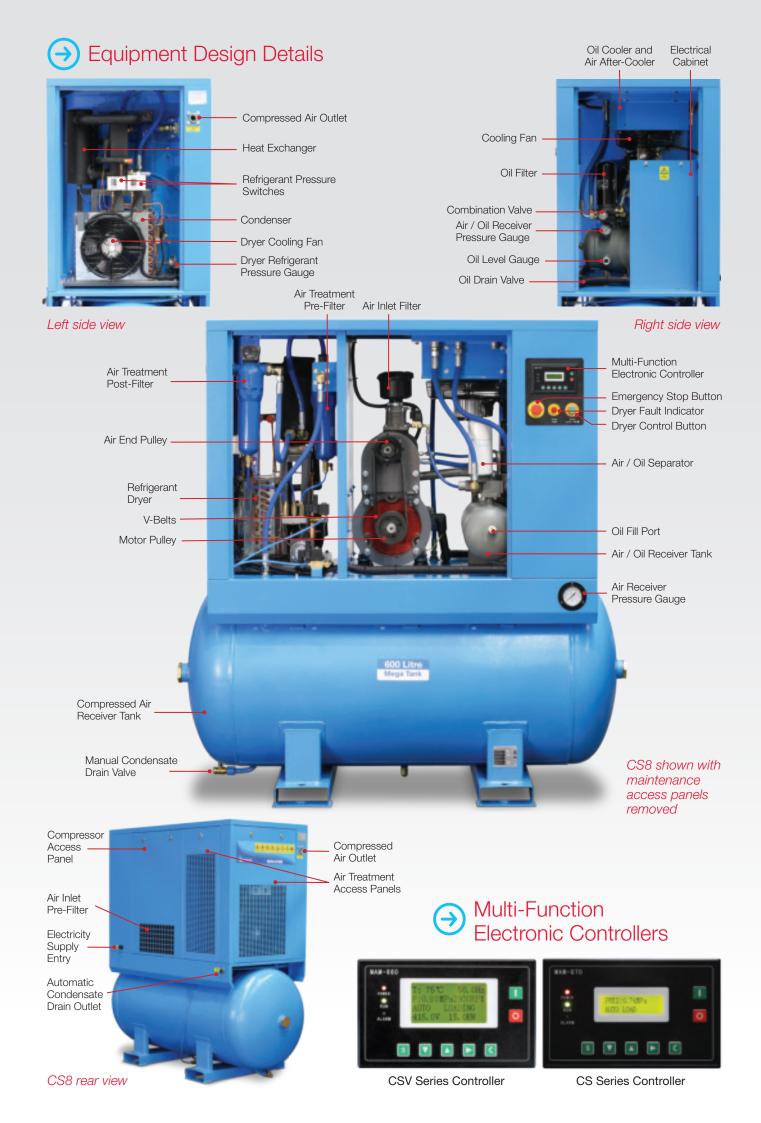
Australia-wide dealer network offering sales, installation, service and genuine spare parts backup.

12-month parts and labour factory-backed warranty.



Compact and Efficient Solution







| Parameter | | Unit | CS Series | | | | | CSV Series | | |
|--------------------------|-----------|--------|-----------|--------|--------|------|------|------------|-----------|-----------|
| | | | CS4 | CS6 | CS8 | CS11 | CS15 | CSV8 | CSV11 | CSV15 |
| Free Air Delivery * # | @ 7 bar | m³/min | 0.66 | 0.89 | 1.20 | 1.88 | 2.62 | 0.48-1.20 | 0.75-1.88 | 1.05-2.62 |
| | @ 102 psi | cfm | 23 | 31 | 42 | 66 | 93 | 17-42 | 26-66 | 37-93 |
| | @ 8 bar | m³/min | 0.60 | 0.82 | 1.10 | 1.78 | 2.45 | 0.44-1.10 | 0.71-1.78 | 0.98-2.45 |
| | @ 116 psi | cfm | 21 | 29 | 39 | 63 | 87 | 16-39 | 25-63 | 35-87 |
| | @ 10 bar | m³/min | 0.50 | 0.70 | 0.99 | 1.57 | 2.17 | 0.40-0.99 | 0.63-1.57 | 0.87-2.17 |
| | @ 145 psi | cfm | 18 | 25 | 35 | 55 | 77 | 14-35 | 22-55 | 31-77 |
| Motor ^ | Power | kW | 4 | 5.5 | 7.5 | 11 | 15 | 7.5 | 11 | 15 |
| | | hp | 5.5 | 7.5 | 10 | 15 | 20 | 10 | 15 | 20 |
| Tank | Volume | Litre | 600 | 600 | 600 | 600 | 600 | 600 | 600 | 600 |
| Noise Level | @ 1 m | dB(A) | 62 | 67 | 68 | 70 | 72 | 69 | 71 | 73 |
| Air Outlet | Size | BSP | 3/4" F | 3/4" F | 3/4" F | 1" F | 1" F | 3/4" F | 1" F | 1" F |
| Dimensions | W | cm | 173 | 173 | 173 | 173 | 173 | 173 | 173 | 173 |
| | D | cm | 78 | 78 | 78 | 78 | 78 | 78 | 78 | 78 |
| | Н | cm | 178 | 178 | 178 | 187 | 187 | 178 | 187 | 187 |
| Weight | Wet | kg | 524 | 546 | 562 | 689 | 704 | 584 | 710 | 734 |

^{*} Per ISO 1217:2009 Annexes C and E.

 $^{^{\}wedge}$ Electricity supply: 415 V, 3-Phase, 50 Hz.









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^{# 8} bar (116 psi) configuration is standard.