

MADE IN ITALY



INDUSTRIAL range



OS
Oil-free Scroll
compressors



Fixed speed
2.2-30 kW

When choose a SCROLL compressor?

The new range of "OS" compressors, with oil-free scroll technology, is the result of many years of Fini experience in the field of industrial compressed air.

This innovative range opens up a new world of possibilities for all those applications where the total absence of oil is required, ensuring longer working life of the plants, resulting in lower operating costs, in addition to granting the highest quality standard of the final product.



FIELD OF APPLICATION	CLASS	Total oil concentration mg/m ³
As specified by the equipment user or supplier and more stringent than class 1 - ISO8573-1	0	0.00
Medical, chemical, biotechnologies, food and beverages, pharmaceuticals, electronics, packaging, PET bottles.	1	≤ 0.01
Paper industry, photographic laboratories, colour injectors.	2	≤ 0.1
Control instruments, sand-blasting.	3	≤ 1
Low-performance sand-blasting.	4	≤ 5

Totally oil-free compressed air is a specific requirement in many production processes. The oil-free Scroll OS range developed by Fini satisfies all these sectors, with a dynamical range of power and model sizes from 2.2 to 30 kW, at 8 or 10 bar. Scroll pumps are certified in Class 0, in accordance with ISO8573-1 directives.

- Pharmaceutical industry
- Medical Laboratories
- Food and Beverages industry
- Chemical industry
- Special food treating equipment
(milking robots)
- Laser equipment processes
- Packaging, PET bottles
- Industrial painting.



Why choose a SCROLL compressor?

- To supply user-friendly OIL-FREE COMPRESSED AIR.
- To reduce installation and maintenance costs (no expensive and complicated compressed air filters networks).
- To increase efficiency in all areas of the compressor operation.
- To save energy and environmental costs.
- To provide the most modern, compact, robust, reliable and durable oil-less rotary compressor.
- To promote industrial processes safeguarding ambient sustainability.



Energy saving

Thanks to the use of **IE3 Premium Efficiency electric motors**, the OS range is fully focused on combining maximum reliability with optimum energy efficiency.

Very silent

The Fini OS range is extremely quiet and can be installed in virtually any environment ensuring the comfort and safety of all operators, with minimum impact to the surroundings.

High quality compressed air

The OS models with air receiver are optionally available with refrigerated dryer, ensuring high quality compressed air, allowing operating efficiency and providing improved final product quality.

Extremely easy maintenance

All components subject of regular maintenance are easily and quickly accessible, allowing to minimize maintenance cost.



Flexibility

A very flexible modular system to allow different configurations to suit any requirements: with 1, 2, or 4 scroll units, with or without air receiver, with or without refrigerated dryer.

Robust design

The OS oil-free scroll compressors are built using the highest quality components throughout. The attention to detail in the build, finishing and testing of the product results in a high performance, high reliability and silent operation.

Compact design

The extremely compact design of these compressors allows installation in any work environment.

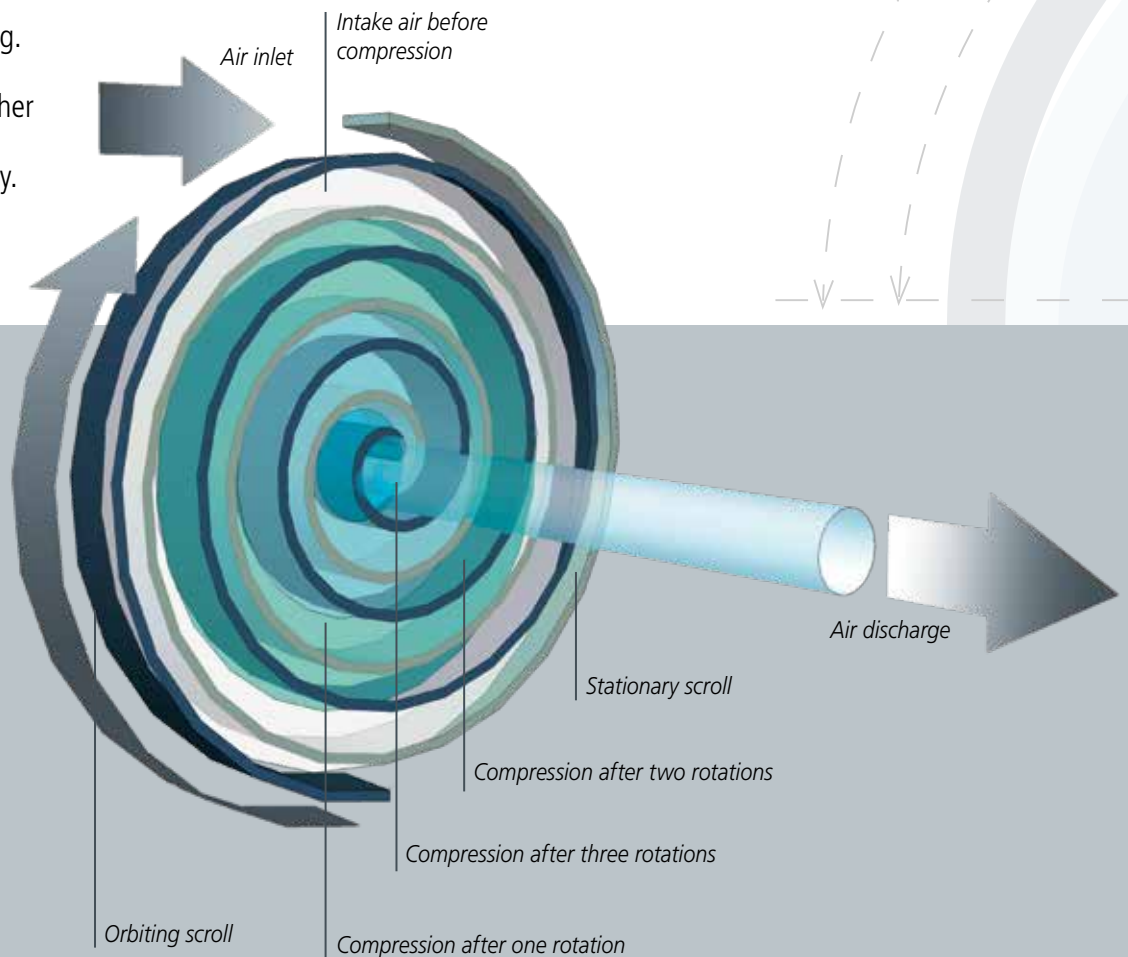


Spiral scroll-technology...

Two spirals without any metal-to-metal contact in between, intake air and compress it in 3 successive phases to deliver it at 8 or 10 bar of pressure. The simple process allows a smooth contact-free operation of the scrolls and thus provides a very long service life to all the components and therefore of the complete unit.

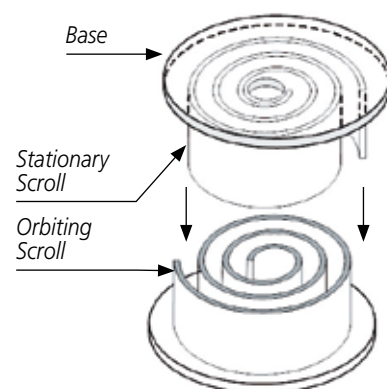
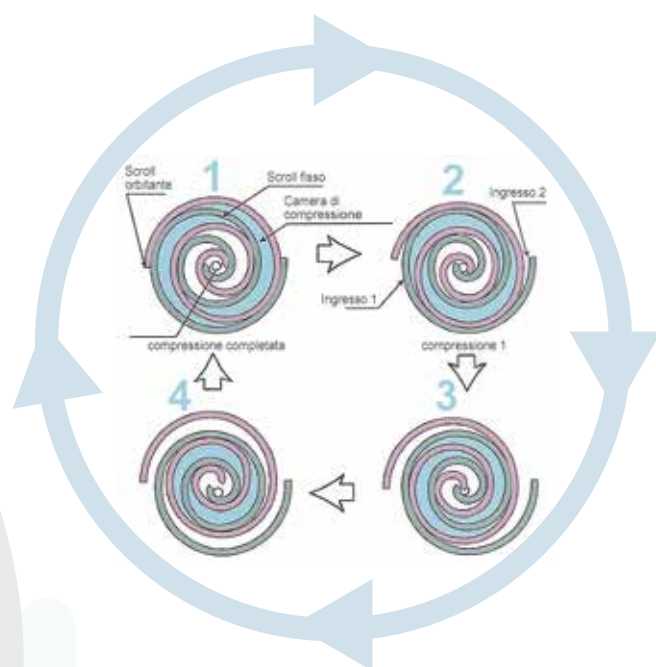
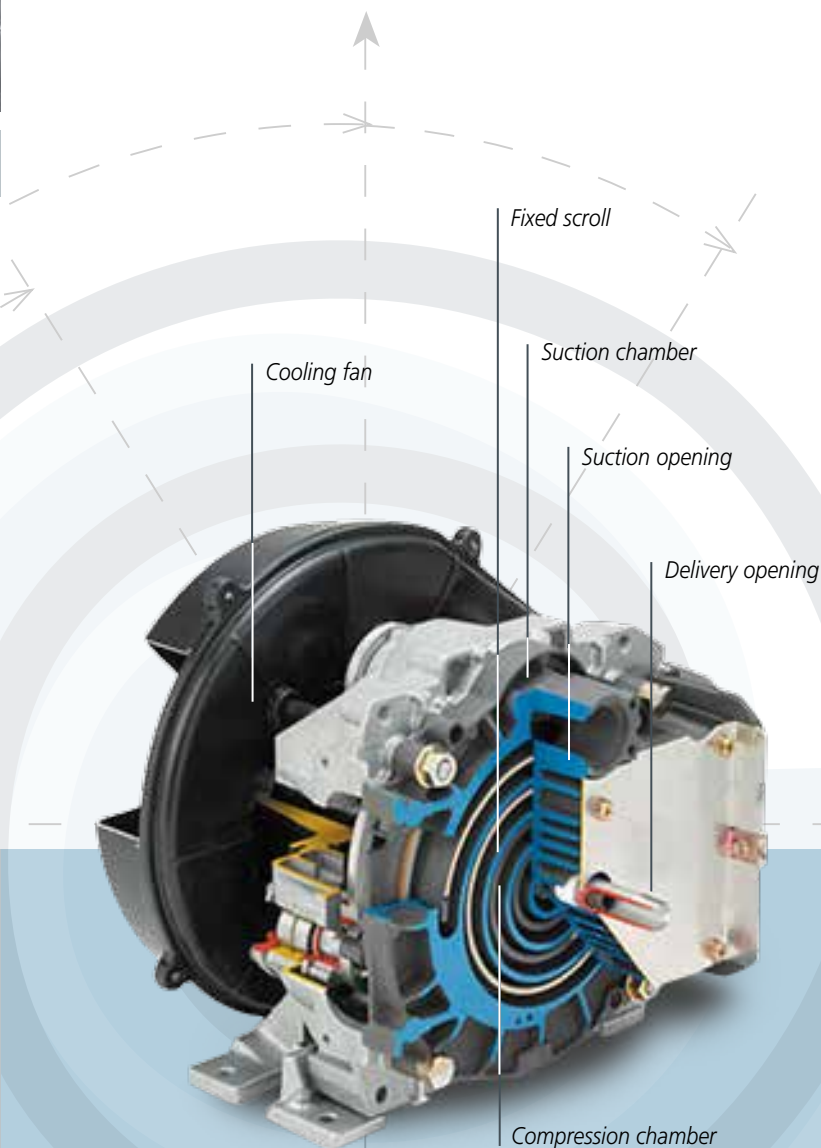


- Labyrinth Lap for high compressor reliability
- Alumite treatment.
- Aluminium die casting.
- Oil-free compression chamber for high quality air.
- Oversized roller bearing.
- Air after-cooler for higher efficiency and durability.



...for high quality compressed air.

The rotating orbiting scroll within the stationary scroll causes a crescent shaped compression cavity. This crescent shaped compression cavity moves around the point of symmetry reducing the cavities size and exhausting the compressed air out of the center of the stationary scroll. No other technology offers fewer moving components and lower bearing loads than the Scroll Compressor.



SCROLL WORKING PRINCIPLE

A flexible design to suit any specific requirement and assurance of operation

SINGLE-SCROLL
from 2.2 to 7.5 kW

The Fini OS range with single scroll unit is extremely quiet and can be installed in any environment ensuring the comfort and safety of all operators with minimum impact to the surroundings.

- Extremely silent.
- Automatic start/stop.
- IE3 Premium Efficiency electric motor.
- Also available with 270-lt or 500-lt air receiver, or with air receiver and refrigerated dryer.



Cooling system

High-standard soundproof material

IE3 electric motor

Scroll unit



High quality compressed air

The OS models with air receiver are optionally available with integrated refrigerated dryer ensuring high quality compressed air, allowing operating efficiency and providing improved final product quality, enhancing competitiveness.



SSC (Single Scroll Controller)

The advanced controllers fitted to the OS range have been specifically developed to guarantee optimum monitoring and regulation of the compressors operation, allowing flexibility and full programming of the complete compressed air station, for maximum efficiency and safety. The SSC controllers are installed on single-scroll models from 2.2 to 7.5 kW. The LCD display indicates the working conditions and includes remote control, auto-restart functions, alarms and routine maintenance information.

Efficiency + Reliability = Productivity

MULTI-SCROLL
from 11 to 30 kW

The OS range with "Multi-Scroll" units: two or four scroll units integrated in the same machine, as a very flexible modular system, the maximum flexibility to suit any high quality compressed air requirements.

The highest manufacturing standards are applied to guarantee the maximum performance and reliability. A proven technology developed to compress air in absolute absence of oil.

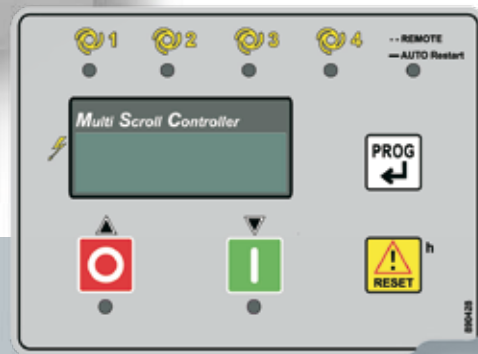


Integrated condensate drain

After-cooler with integrated condensate drain, available in standard configuration on all multi-scroll models.

Simplified maintenance

All components subject of regular maintenance are easily and quickly accessible, allowing to minimize service cost and time.



MSC (MultiScrollController)

The MSC controller is installed on Multi-Scroll models from 11 to 30 kW. The alphanumeric LCD display features full multi-language menu and controls the operation of Multi-Scroll compressors in order to satisfy the air demand automatically starting and stopping the number of compressors needed. Furthermore the MSC controller varies continuously the starting order of the units in order to balance the operating time of each pump. Includes remote control, auto-restart functions, alarms and routine maintenance information.

OS

2.2-7.5 kW

SILENCED - SINGLE-SCROLL																
OS 2.2																
OS 2.2-08	VW0SK72FNM521	–	2.2	3	250	8.8	8	116	60	3/4"	125	275.5	800x600x852	139	306.4	940x770x1030
OS 2.2-10	VW0SA72FNM521	–	2.2	3	210	7.4	10	145	60	3/4"	125	275.5	800x600x852	139	306.4	940x770x1030
OS 2.2-08-270	VW3SK72FNM521	270	2.2	3	250	8.8	8	116	60	3/4"	198	436.4	1572x600x1459	233	513.5	1760x750x1680
OS 2.2-10-270	VW3SA72FNM521	270	2.2	3	210	7.4	10	145	60	3/4"	198	436.4	1572x600x1459	233	513.5	1760x750x1680
OS 2.2-08-270 ES	VW3SK72FNM621	270	2.2	3	250	8.8	8	116	60	3/4"	220	484.9	1572x600x1459	255	562	1760x750x1680
OS 2.2-10-270 ES	VW3SA72FNM621	270	2.2	3	210	7.4	10	145	60	3/4"	220	484.9	1572x600x1459	255	562	1760x750x1680
OS 3.7																
OS 3.7-08	VW0SB92FNM521	–	3.7	5	420	14.8	8	116	62	3/4"	147	324	800x600x852	161	354.8	940x770x1030
OS 3.7-10	VW0DZ92FNM521	–	3.7	5	345	12.2	10	145	62	3/4"	147	324	800x600x852	161	354.8	940x770x1030
OS 3.7-08-270	VW3SB92FNM521	270	3.7	5	420	14.8	8	116	62	3/4"	220	484.9	1572x600x1459	254	559.8	1760x750x1680
OS 3.7-10-270	VW3DZ92FNM521	270	3.7	5	345	12.2	10	145	62	3/4"	220	484.9	1572x600x1459	254	559.8	1760x750x1680
OS 3.7-08-270 ES	VW3SB92FNM621	270	3.7	5	420	14.8	8	116	62	3/4"	246	542.2	1572x600x1459	280	617.1	1760x750x1680
OS 3.7-10-270 ES	VW3DZ92FNM621	270	3.7	5	345	12.2	10	145	62	3/4"	246	542.2	1572x600x1459	280	617.1	1760x750x1680
OS 5.5																
OS 5.5-08	VW0SD92FNM321	–	5.5	7.5	620	21.9	8	116	68	3/4"	212	467.2	900x680x850	230	506.9	990x850x1060
OS 5.5-10	VW0SX92FNM321	–	5.5	7.5	460	16.2	10	145	68	3/4"	212	467.2	900x680x850	230	506.9	990x850x1060
OS 5.5-08-270	VW3SD92FNM321	270	5.5	7.5	620	21.9	8	116	68	3/4"	275	606.1	1571x680x1420	315	694.3	1760x750x1680
OS 5.5-10-270	VW3SX92FNM321	270	5.5	7.5	460	16.2	10	145	68	3/4"	275	606.1	1571x680x1420	315	694.3	1760x750x1680
OS 5.5-08-270 ES	VW3SD92FNM421	270	5.5	7.5	620	21.9	8	116	68	3/4"	310	683.2	1571x680x1420	340	749.4	1760x750x1680
OS 5.5-10-270 ES	VW3SX92FNM421	270	5.5	7.5	460	16.2	10	145	68	3/4"	310	683.2	1571x680x1420	340	749.4	1760x750x1680
OS 7.5																
OS 7.5-08	VW0SE92FNM321	–	7.5	10	830	29.3	8	116	67	3/4"	240	529	900x680x850	258	568.6	990x850x1060
OS 7.5-10	VW0YB92FNM321	–	7.5	10	650	22.9	10	145	67	3/4"	240	529	900x680x850	258	568.6	990x850x1060
OS 7.5-08-270	VW3SE92FNM321	270	7.5	10	830	29.3	8	116	67	3/4"	305	672.2	1571x680x1420	340	749.4	1760x750x1680
OS 7.5-10-270	VW3YB92FNM321	270	7.5	10	650	22.9	10	145	67	3/4"	305	672.2	1571x680x1420	340	749.4	1760x750x1680
OS 7.5-08-270 ES	VW3SE92FNM421	270	7.5	10	830	29.3	8	116	67	3/4"	330	727.3	1571x680x1420	367	808.9	1760x750x1680
OS 7.5-10-270 ES	VW3YB92FNM421	270	7.5	10	650	22.9	10	145	67	3/4"	330	727.3	1571x680x1420	367	808.9	1760x750x1680

OS

11-30 kW

SILENCED - MULTI-SCROLL															
OS 11 - 2 SCROLL															
OS 11-08	VW0SF92FNM521	11	15	1240	44	8	116	67	1"	435	958.7	1012x1130x1120	490	1080	1310x1210x1340
OS 11-10	VW0YA92FNM521	11	15	920	32	10	145	67	1"	435	958.7	1012x1130x1120	490	1080	1310x1210x1340
OS 15 - 2 SCROLL															
OS 15-08	VW0SC92FNM521	15	20	1660	59	8	116	67	1"	475	1046.9	1012x1130x1120	530	1168.1	1310x1210x1340
OS 15-10	VW0SO92FNM521	15	20	1300	46	10	145	67	1"	475	1046.9	1012x1130x1120	530	1168.1	1310x1210x1340
OS 22 - 3 SCROLL															
OS 22-08	VW0SI92FNM321	22	30	2490	88	8	116	70	1"	720	1586.9	1500x1197x1580	810	1785.2	1715x1380x1800
OS 22-10	VW0YC92FNM321	22	30	1950	69	10	145	70	1"	720	1586.9	1500x1197x1580	810	1785.2	1715x1380x1800
OS 30 - 4 SCROLL															
OS 30-08	VW0YD92FNM021	30	40	3320	117	8	116	70	1"	930	2049.7	1500x1197x1580	1020	2248.1	1715x1380x1800
OS 30-10	VW0YE92FNM021	30	40	2600	92	10	145	70	1"	930	2049.7	1500x1197x1580	1020	2248.1	1715x1380x1800

- Models from 5.5 to 7.5 kW available on demand with 500-lt air receiver.
- ES = with refrigerated dryer.

Reference conditions: Intake air temperature 20°C (68°F) - atmospheric pressure 1 bar (14.5 psig).
The air flow rates are measured at the following working pressures:
7.5 bar for models at 8 bar - 9.5 bar for models at 10 bar.
The data and performances in accordance with ISO 1217 directives.
Sound level measured in accordance with PNEUROP/CAGI standards.

FNA S.p.A. Via Einaudi, 6 - 10070 Robassomero - Torino - Italy
T: +39 011 92 33 000 - F: +39 011 92 41 138
info@fnacompressors.com - www.fnacompressors.com



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www.fnicompressors.com