#### MADE IN ITALY



#### INDUSTRIAL range



#### **Belt driven, fix or variable speed** 2.2-22 kW (3-30 HP)

### **Company Profile**

FINI boasts more than 60 years of experience and it is one of the most important global organizations in the professional and industrial compressed air sector. Synonymous with quality and professionalism, the Fini brand not only has one of the most complete ranges in the alternative piston compressors sector but above all it is one of the global points of reference in the industrial compressed air sector.



FINI industrial compressors, entirely MADE IN ITALY, are dedicated to heavy duty use and they stand out from the others on the market because of their specific energy savings solutions.

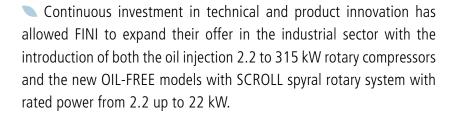
Our compressors are the answer to the needs of large-scale industry and small and mid-sized companies, where compressed air is one of the main source of energy. They are designed for continuous duty in very hard conditions of use, with special attention to energy consumption, low operating and maintenance costs, simple installation and easy use. The entire production process, from project to packaging, is carried out at our facilities in Italy.

Our highly skilled staff are dedicated to supporting the manufacturing and assembling activities. The continuous control and monitoring of each manufacturing process grants the utmost precision at every step, in order to achieve the highest quality, supreme product reliability and flexibility of use.

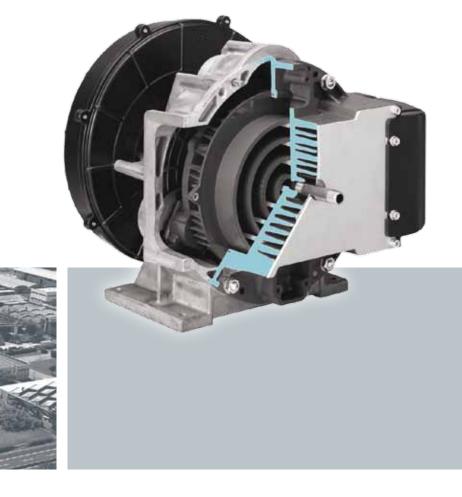


#### Innovation, Quality, Know-how

Our construction philosophy is based on the selection and simple assembly of the most reliable and efficient technical solutions. The constant pursuit of excellent quality, innovative spirit and great attention to customer needs are the values that have always characterized FINI and its products.



Assembly and testing performed on automated lines, robotic systems of the latest generation, and computer tools for design and control are the main investments that the Company implemented to realize products that meet the markets quality standards. Since 1996, the Company has certified its quality system in compliance with UNI EN ISO 9001.





#### When choose a SCROLL compressor?

The new range of "OS" compressors series, 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: 100% oil-free air ensures 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	Max oil residue mg/m³		
All applications where the Class 0 certification is required.	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		

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 22 kW, with optional integrated dryer, to suit any specific requirement of high quality totally oilless compressed air.

## Scroll compressors are Class 0 products.

Totally Oilless compressed air is a specific requirement in the following production processes:

- Pharmaceutical industry.
- Medical Laboratories.
- **•** Food and Beverages production.
- Chemical industry.
- Special Food Treating Equipment (milking robot).
- Laser Equipments.
- Packaging, PET bottles.
- Industrial Painting.



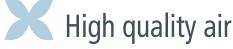




# Why choose a SCROLL compressor?

- To supply high quality oil-free compressed air.
- To reduce installation and maintenance costs.
- To increase efficiency in all areas of the compressors operation.
- To save energy and reduce environmental impact.
- To provide the most modern, compact, robust, reliable and durable oilless rotary compressors.
- 🕥 To safeguard ambient sustainability.





OS compressors supply 100% oil-free compressed air.

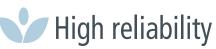


OS compressors are very quiet due to a very low speed of scroll elements. Furthermore, the use of very efficient soundproof materia makes them suitable for installation in any working place.



# High energy saving

Due to the use of high quality motors and efficient but simple control system the "OS" range stands out for its reduced power consumption, thus, resulting in increase of energy saving in the long run.



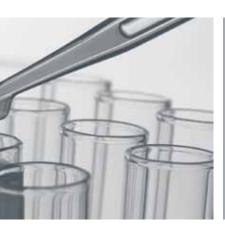
Quality control, components from primary global manufacturers guarantee long operating life and maintenance intervals.



High air output performances is one of the caracteristic of FINI project engeneering. OS range follows this tradition.



The very compact design enables these compressors to be installed close to the working station.



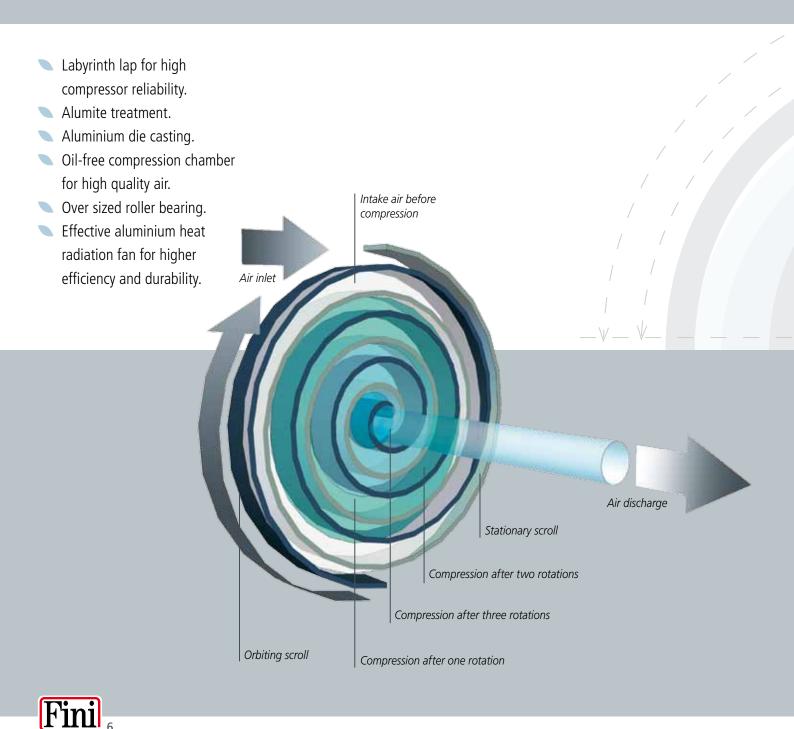




# The spiral SCROLL technology...

The highest manufacturing standards are applied to guarantee maximum performance and reliability. A proven technology developed to compress air in absolute absence of oil, two spirals turning without any metal-to-metal contact in between intake air through a suction chamber and compress it in 3 successive phases. This 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 the complete unit.

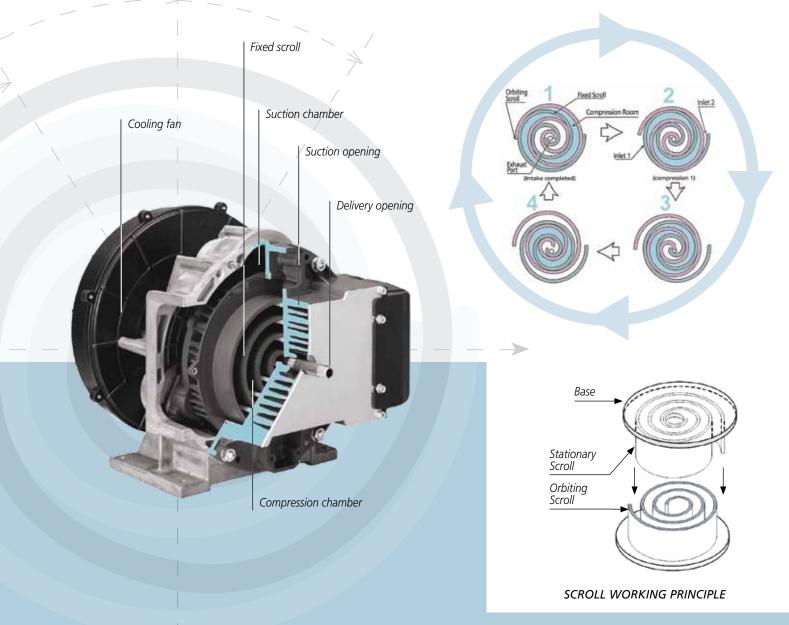




# ...for high quality compressed air

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.







## **OS 3-5-7:** Simple and silent

#### 2.2-5.5 kW

The Fini OS range with single 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**.
- Very compact design.
- Automatic start/stop.
- IP 55 class F motor.
- Each cabinet is equipped with a small 10-lt tank internally protected against corrosion.
- Also available with 270-lt tank, with internal treatment of PTFE coating.
- Open version available on demand, with 200 or 270 liters tank, without soundproof cabinet.





SSC controller is installed on 3.7 and 5.5 kW models. The clear LCD display monitors the working conditions and controls a single scroll compressor according to the air demand. Other functions include remote control, auto-restart, "fault display" and display of routine maintenance information.



## OS 10-15-20-30: Total flexibility

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

- Naximum reliability.
- Very compact design.
- High efficiency.
- Easy maintenance and installation.
- IP 55 class F motor.
- Low vibration.

Super soundproof cabinet with labyrinth ventilation. Easy maintenance: the scrollmotor module is extractable from the cabinet for an easy and immediate accessibility.







#### Advanced cooling system

Our oversized air-air heat exchangers provide our machines with low operating temperatures even in severe working conditions. The large coolers coupled with separate thermostatically controlled electro-fans ensure lower compressed air outlet temperatures.



#### MSC (MultiScrollController)

Installed on models from 7.5 up to 22 kW. With clear alphanumeric LCD display features full menu in 12 languages and convenient RS485 interfacing, 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 changes continuously the starting order of the units to balance the operating time of each pumping unit. Other functions include remote control, auto-restart, and powerful MOD-BUS interface, allowing energy consumption monitoring and automatic reduction of operating pressure according to varying demands through the working profile.





#### Variable speed drive

Nowadays, the reduction of the energy consumption has become a global challenge in terms of environmental impact. Multiscroll series, ranging from 7.5 to 22 kW, are also available in variable speed drive version: new "ScrollTronic" system allows the air compressor to automatically and continuously adapt to the air demand of the production process. The inverter controls the speed of a single unit, adjusting its capacity in accordance with the process requirements. In case the air demand is higher than the capacity of the unit, the operation of this unit continues at a fixed speed, while a second unit is switched one running at a variable speed.

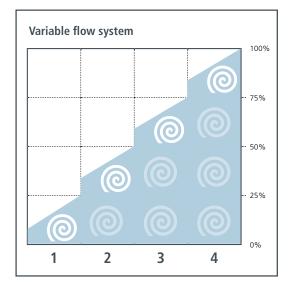


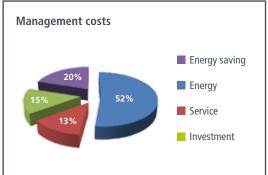


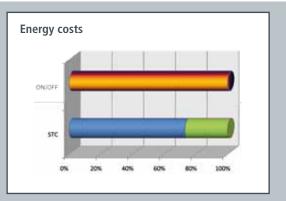
#### STC (ScrollTronicController)

In addition to the features of the MSC controller the multi-scroll compressors could be optionally fitted with the "ScrollTronic" controller that introduces completely new features:

- Elimination of electric absorption peaks in the motor's start-up phase.
  Optimization of the electric consumption of the compressor with a ratio directly proportional to the request for compressed air.
- Constant regulation of the working pressure with a maximum drift of 0.2 bar as to the operating set pressure.
- Reduced wearing of the mechanical parts, scroll bearings and motor, with consequent reduction of the maintenance costs.









### **OS** Technical data

Code	ι	l Product	Scroll block	, in the second se		_∕_AIR*		MAX		**@	01	L O	ć	Ē	
	-			kW	HP	l/min.	m³/h	c.f.m.	bar	psi	dB(A)	BSP	L x D x H (cm)	kg	Lbs
OPEN (single unit w	vith tai	nk)													
VW2SK72FNM221	200	OS 308-200F open	1	2.2	3	240	14.4	8.5	8	116	70	1/2 "	140 x 55 x 97	109	240
VW3SB92FNM221	270	OS 508-270F TA open	1	3.7	5	410	24.6	15	8	116	74	1/2 "	164 x 65 x 103	157	345
VW3SD92FNM221	270	OS 708-270F TA open	1	5.5	7.5	630	37.8	22.5	8	116	76	1/2 "	164 x 65 x 103	167	367
SILENCED (single un	it with	nout tank)													
VW0SK92FNM021	-	OS 308	1	2.2	3	240	14.4	8.5	8	116	64	1/2 "	70 x 65 x 89	97	213.4
VW0SB92FNM021	-	OS 508 TA	1	3.7	5	410	24.6	15	8	116	67	1/2 "	70 x 65 x 89	150	330
VW0SD92FNM021	-	OS 708 TA	1	5.5	7.5	630	37.8	22.5	8	116	69	1/2 "	70 x 65 x 89	160	352
SILENCED (single un	it with	ı tank)													
VW2SK72FNM021	200	OS 308-200F	1	2.2	3	240	14.4	8.5	8	116	64	1/2 "	140 x 53 x 124	155	341
VW3SB92FNM021	270	OS 508-270F TA	1	3.7	5	410	24.6	15	8	116	67	1/2 "	155 x 65 x 155	240	528
VW3SD92FNM021	270	OS 708-270F TA	1	5.5	7.5	630	37.8	22.5	8	116	69	1/2 "	155 x 65 x 155	245	539
SILENCED (single un	it with	ı tank and dryer)													
VW3SB92FNM121	270	OS 508-270F-ES TA	1	3.7	5	410	24.6	15	8	116	67	1/2 "	155 x 65 x 155	265	583
VW3SD92FNM121	270	OS 708-270F- ES TA	1	5.5	7.5	630	37.8	22.5	8	116	69	1/2 "	155 x 65 x 155	270	594
MULTI SILENCED (tw	vin and	l multi unit without tank	()												
VW0SE92FNM021	-	OS 1008 TA	2	7.5 (2 x 3.7)	10	820	49.2	30	8	116	67	1/2 "	116 x 60 x 103	265	583
VW0SF92FNM021	-	OS 1508 TA	2	11 (2 x 5.5)	15	1260	75.6	45	8	116	68	1/2 "	155 x 65 x 155	275	605
VW0SC92FNM021	-	OS 2008 TA	3	15 (3 x 5.5)	20	1890	113.4	68	8	116	69	3/4"	141 x 80 x 150	515	1133
VW0SI92FNM021	-	OS 3008 TA	4	22 (4 x 5.5)	30	2520	151.2	90	8	116	70	3/4"	141 x 80 x 150	580	1276
MULTI SILENCED (tw	vin uni	t with 270-lt tank)													
VW3SE92FNM021	270	OS 1008-270F TA	2	7.5 (2 x 3.7)	10	820	49.2	30	8	116	67	1/2 "	158 x 60 x 155	350	770
VW3SF92FNM021	270	OS 1508-270F TA	2	11 (2 x 5.5)	15	1260	75.6	45	8	116	68	1/2 "	158 x 60 x 155	360	792
MULTI SILENCED (tw	vin uni	t with 270-lt tank and dr	yer)												
VW3SE92FNM121	270	OS 1008-270F ES TA	2	7.5 (2 x 3.7)	10	820	49.2	30	8	116	67	1/2 "	158 x 60 x 155	380	836
VW3SF92FNM121	270	OS 1508-270F ES TA	2	11 (2 x 5.5)	15	1260	75.6	45	8	116	68	1/2 "	158 x 60 x 155	390	858
VARIABLE SPEED MI	ULTISC	ROLL SILENCED													
VW0SE97FNM021	_	OS 1008 STC	2	7.5 (2 x 3.7)	10	820	49.2	30	8	116	67	1/2 "	116 x 60 x 103	285	627
VW0SF97FNM021	-	OS 1508 STC	2	11 (2 x 5.5)	15	1260	75.6	45	8	116	68	1/2 "	155 x 65 x 155	295	649
VW0SC97FNM021	_	OS 2008 STC	3	15 (3 x 5)	20	1890	113.4	68	8	116	69	3/4"	141 x 80 x 150	535	1179
VW0SI97FNM021	-	OS 3008 STC	4	22 (4 x 5.5)	30	2520	151.2	90	8	116	70	3/4"	141 x 80 x 150	600	1323
VARIABLE SPEED M	ULTISC	ROLL SILENCED WITH DE	RYER												
VW0SE97FNM121	-	OS 1008 ES STC	2	7.5 (2 x 3.7)	10	820	49.2	30	8	116	67	1/2 "	116 x 60 x 103	315	693
VW0SF97FNM121	-	OS 1508 ES STC	2	11 (2 x 5.5)	15	1260	75.6	45	8	116	68	1/2 "	155 x 65 x 155	325	715
VW0SC97FNM121	-	OS 2008 ES STC	3	15 (3 x 5)	20	1890	113.4	68	8	116	69	3/4 "	141 x 80 x 150	575	1268
VW0SI97FNM121	_	OS 3008 ES STC	4	22 (4 x 5.5)	30	2520	151.2	90	8	116	70	3/4 "	141 x 80 x 150	640	1411

\* Free air delivery as per ISO 1217 Annex C, at 0.5 bar less than maximum working pressure at the compressor outlet. \*\*  $\pm$  3 dB (A) as PNEUROP/CAGI PN-NTC 2.3.

MODELS WITH DIFFERENT VOLTAGES, FREQUENCIES AND 10 BAR, AVAILABLE ON DEMAND.



#### Fini also recommends:



the components, which are specifically manufactured and tested to be used on our compressors. The use of original, certified spare parts guarantees the efficiency and reliability of the compressor, extending its lifespan and lowers management costs. NPS dryers are designed for drying and purification of compressed air for breathing air applications. Type BI for "Breathing air Industrial" and model BM for "Breathing air Medical". With both systems, apart from the drying process to a pressure dew point of -40 °C, the components CO, CO<sub>2</sub>, hydrocarbons, nitrogen oxides and SO<sub>2</sub> are eliminated. The NGN nitrogen generators represent an economical way for the production of Nitrogen on site. Models sized for a wide range of flow and purity of the product, the NGN series stands for efficiency and versatility exceptional. Ideal for: food packaging, plastic moulding, welding metal treatment, pharmaceutical/ chemical industry, blowing tyres.



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