

AIR COMPRESSORS
SPIRALAIR®
K1-4 – K6-8 COMBI
KS1-4 – KS6-15 MULTI

P U R I T Y



S I L E N C E

C O L D

KS / T Integrated dryer



P U R I T Y



SPIRALAIR® K1-4 / K6-8 COMBI / KS1-4 / KS6-15 MULTI

Air in its purest form

The Efficiency of your industrial process and quality of your manufactured products are directly related to the purity of you compressed air.

To achieve exceptionally high levels of quality and purity non lubricated compressors are essential to eliminate all risk of network contamination by oil.

Select the non lubricated solution for 100% security and peace of mind.

Compression principle



Compression is obtained through the orbital motion of two spirals. One being static, the second mobile, their interaction pulls the air into the compression chamber.

In a regular and continuous way, the mobile spiral compresses the air through a reduction of the volume. The air flow is directed to the center of the spiral, before being cooled.

This compression process does not require any lubrication since spirals are never in contact: SPIRALAIR® compressors are thus **guaranteed 100 % oil free**.



Guaranteed 100 % oil free

Compressed air production totally free of oil eliminates all the risks of contamination of your manufacturing equipment, as well as pollution of your manufactured goods.

Extremely low Noise level

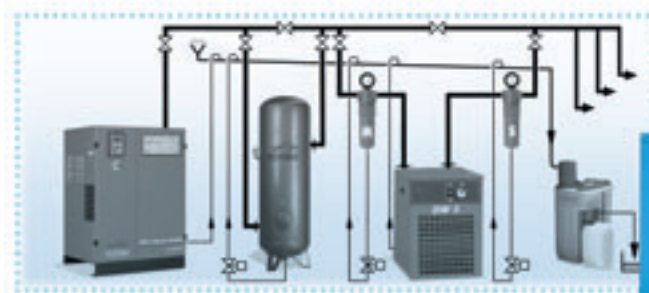
Extremely low noise levels, SPIRALAIR® offer many installation opportunities close to the workplace.

Minimum footprint

A really small footprint in addition to the integration of a dryer results in a smaller installation space requirement. This gives you flexibility in siting your SPIRALAIR® close to the point of use.

No filtration system requirement

SPIRALAIR® do not require installation of network filters traditionally used in lubricated air production to remove residual oil along the network.



KS1/T
Super silenced Spiralair with integrated dryer and integrated 2*16l air vessels simplifies dramatically your installation



No condensate treatment requirement

Condensate not being contaminated by oil so no oil separation system is required.

This is another source of savings and simplifies your air system.

10 000 hours almost without maintenance

No need for oil change, and no requirement for oil waste management: maintenance is simple, economical and extremely simple.

10 000 running hours, or about 5 years with an average of 8 running hours a day is what you can achieve with minimum servicing.

Limited installation cost

Integrated dryer versions minimise installation and pipe work compared to traditional oil flooded solutions.

Peace of mind

Quality of your compressed air need not be dependant to the reliability of your filtration system: SPIRALAIR® range is the solution for absolute peace of mind due to its guaranteed 100% oil free technology.

SPIRALAIR® K1-4 / K6-8 COMBI / KS1-4 / KS6-15 MULTI

A simple concept for an easy use

K COMPACT range

Basic module, offering similar FAD to the KS range, with a compact integrated design.

- **Simplicity**
- **Compactness**
- **Efficiency**
- **Ideal solution for integration**



Pressure switch

controls the on/off cycles with integrated start/stop button.

High efficiency air filter

eliminating dust and particles under 1 µm.

-3 dB(A) on air receiver

IP 55, class F motor

for high efficiency and dust protection.

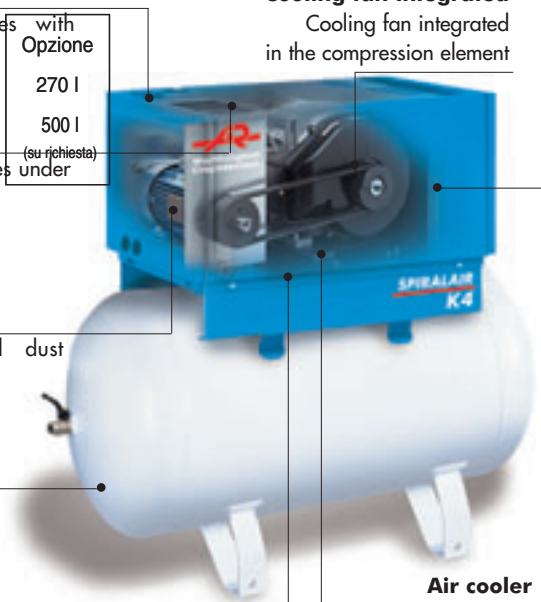
Homologated air receiver.

Soundproofing

canopy with easy service access.

Cooling fan integrated

Cooling fan integrated in the compression element



Simple belt tensioning

system with automatic belt alignment.

KS SUPER SILENCED range

Super silent models, with dryer and air receiver as options, they offer a quality air production without oil and separated from the water vapour contained in the air.

A compact solution ideal for production requiring total air quality.

- **Super silent**
- **Compactness**
- **Efficiency**
- **Air quality**
- **Ready for use**



Top and rear panels

can be exchanged to modify the cooling air flow. This feature increases opportunities for installation.

Compact integrated

Compact integrated refrigeration dryer producing high quality dry air with standard transformer.

High efficiency air filter

High efficiency encapsuled air filter located in cold air intake and eliminating dust and particles under 1 µm.

Pressure switch

for on/off running control eliminating excessive energy consumption.

A designed canopy,

using high specification materials has resulted in a low noise level of 53 dB(A).

IP 55, Class F,

motor for maximum protection during constant operation.



Cooling fan

integrated in the compression element.

SPIRALAIR® K1-4 / K6-8 COMBI / KS1-4 / KS6-15 MULTI

Flexibility and intelligent control of KS MULTI

KS MULTI range

KS MULTI simplifies your air production by combining inside one canopy up to 4 modules controlled by a single controller.

SPIRALAIR® KS MULTI ensures optimum operation costs compared to installation of independent units.

- **High Free Air Delivery**
- **Compactness**
- **Efficiency**
- **Supervision**
- **Air quality**



SPIRALAIR® KS 6 rear view

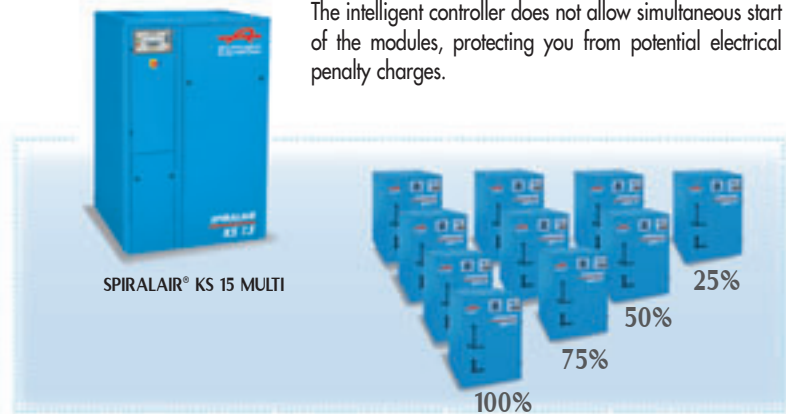
Intelligent control of KS MULTI

Variable air delivery

A KS MULTI precisely controls the required number of modules depending of your air demand. Hence, the KS MULTI can adjust to variable air demands, without wasting energy.

Elimination of current spikes

The intelligent controller does not allow simultaneous start of the modules, protecting you from potential electrical penalty charges.



SPIRALAIR® KS 15 MULTI

Elimination of regulating pressure cascades

A single pressure control eliminates the need for the traditional pressure cascade system. This guarantees a stable output pressure and energy cost savings through not generating pressure higher than required.

Controller

for management and control of the running parameters, and fault diagnosis.

Low cooling air flow

discharged through the top of the unit.

Integrated compact

refrigeration dryer for dry air production.

Integrated compressor modules

mounted on a mobile platform for easy servicing.

Cooling fan integrated

Cooling fan integrated in the compression element.

High efficiency air filter

eliminating dust and particles under 1 µm.

IP 55, Class F motor

for maximum protection for constant running.



SPIRALAIR® KS 15 T

An efficient canopy design,

combined with specific material selection, has allowed us to achieve a remarkably low noise level of 60 dB(A).

SPIRALAIR® K1-4 / K6-8 COMBI / KS1-4 / KS6-15 MULTI

A extended range that is suitable for many applications

K - COMPACT Range

The reduced footprint and option of air receiver mounted versions make its integration within any installation simple.



◀ K COMPACT COMBI on 500 l air receiver

For variable air consumption, K COMBI is ideal. Run a single unit when air requirement is low. No installation cost since K COMBI is ready to use.



◀ K COMPACT on 270 l air receiver

This version minimises installation costs with a ready to use compact range. Adsorption dryer option available mounted on 270l air receiver.



◀ K COMPACT on frame

A compact and reliable solution for companies where installation space is limited

Noise level
66-68 dB(A)

Air vessel option
270 l or 500 l

Power
1,5 - 7,4 kW

Integrated dryer
✗

KS - SUPER SILENCED Range

With an extremely low 53 dB(A) noise level, SPIRALAIR® KS is an ideal solution for applications where low noise levels are a priority.



◀ KS & KS / T with integrated receivers

This complete air production unit can have as an option 2 galvanized air receivers each of 16 litres for immediate availability of clean and dry compressed air. This option totally eliminates installation costs. For more demanding air requirements, a model mounted on 270l air receiver is also available upon request. A KS on 270l can be equipped with an optional DB dessicant dryer and a timed air receiver drain.



◀ KS & KS / T

KS/T are complete oil free air production units, equipped with an integrated refrigeration dryer, that offers the assurance of clean, dry oil free compressed air.

Noise level
53-57 dB(A)

Air vessel option
2 x 16 l or 270 l

Power
1,5 - 3,7 kW

Integrated dryer
✓

KS - MULTI Range

KS MULTI is comprised of multiple modules integrated inside one canopy. This modular concept offers the benefit of centralizing your air production within one canopy controlled by a main controller which diagnoses, manages and controls the running of the individual modules.

The small footprint of this unit make its installation simple and minimises its installation cost.

All the KS MULTI air units offer an integrated dryer variant (KS/T) in order to satisfy applications requiring high standard air quality.



◀ KS 11-15 MULTI

KS 11-15 have 3 or 4 modules activated depending on the air demand.

Noise level
63 dB(A)

Air vessel option
✗

Power
5,9 - 15 kW

Integrated dryer
✓

◀ KS 6-8 MULTI

Design principle is similar to KS units, but KS 6-8 MULTI integrate two modules controlled according to air demand.

Technical specifications

	Version		⁽¹⁾ Maximum pressure	⁽²⁾ Output reduced to suction conds		Motor power		⁽³⁾ Noise level	Air receiver	Weight		Dimensions				
	Std	+ integrated dryer		bar	m ³ /h	cfm	kW			hp	litres	kg	On frame	On air receiver	On frame	On air receiver
	-	-													mm	(L x l x h)
K COMPACT	K1 A	-	8	9,7	5,7	1,5	2 (mono)	66	Optional 270 l 500 l (upon request)	105	180	800x600x540	1267x600x1154			
	K1 B	-	10	7,6	4,5	1,5	2 (mono)	66		105	180	800x600x540	1267x600x1154			
	K2 A	-	8	14,4	8,5	2,2	3	67		110	185	800x600x540	1267x600x1154			
	K2 B	-	10	12,2	7,2	2,2	3	67		110	185	800x600x540	1267x600x1154			
	K4 A	-	8	23,8	14,0	3,7	5	68		120	195	800x600x540	1267x600x1154			
	K4 B	-	10	20,2	11,9	3,7	5	68		120	195	800x600x540	1267x600x1154			
-3 dB(A) on air receiver																
K COMBI on air receiver	K6 A/500	-	8	38,2	22,5	5,9	8	72	500 l	-	365	-	2043x600x1169			
	K6 B/500	-	10	32,4	19,1	5,9	8	72	500 l	-	365	-	2043x600x1169			
	K8 A/500	-	8	47,5	28,0	7,4	10	73	500 l	-	375	-	2043x600x1169			
	K8 B/500	-	10	40,3	23,7	7,4	10	73	500 l	-	375	-	2043x600x1169			
KS super silence	KS1 A	KS1/T A	8	9,7	5,7	1,5	2 (mono)	53	Optional galvanized 2 x 16 l integrated or 270 l	104	164	590x600x850	1267x600x1547			
	KS1 B	KS1/T B	10	7,6	4,5	1,5	2 (mono)	53		104	164	590x600x850	1267x600x1547			
	KS2 A	KS2/T A	8	14,4	8,5	2,2	3 (mono or 3 ph)	55		123	183	590x600x850	1267x600x1547			
	KS2 B	KS2/T B	10	12,2	7,2	2,2	3 (mono or 3 ph)	55		123	183	590x600x850	1267x600x1547			
	KS4 A	KS4/T A	8	24,1	14,2	3,7	5	57		132	192	590x600x850	1267x600x1547			
	KS4 B	KS4/T B	10	20,2	11,9	3,7	5	57		132	192	590x600x850	1267x600x1547			
									(KS/T : +18 kg) (2x16l : +30 kg)		(2x16l : h =1040 mm)					
KS MULTI	KS6 A	KS6/T A	8	37,4	22,0	5,9	8	63	NA	340	-	1450x750x1040	-			
	KS6 B	KS6/T B	10	31,7	18,7	5,9	8	63		340	-	1450x750x1040	-			
	KS8 A	KS8/T A	8	48,2	28,4	7,4	10	63		345	-	1450x750x1040	-			
	KS8 B	KS8/T B	10	40,7	24,0	7,4	10	63		345	-	1450x750x1040	-			
	KS 11 A	KS11/T A	8	72,7	42,8	11	15	63		480	-	1450x750x1844	-			
	KS 11 B	KS11/T B	10	61,2	36,0	11	15	63		480	-	1450x750x1844	-			
	KS 15 A	KS15/T A	8	95	55	15	20	63		560	-	1450x750x1844	-			
	KS 15 B	KS15/T B	10	82,1	48,3	15	20	63		560	-	1450x750x1844	-			
									(KS/T : +30 kg)							

⁽¹⁾ Pressure for KS / T : A = 7.75 and B = 9.75

⁽²⁾ as per ISO 1217 : 1996

⁽³⁾ as per CAGI PNEUROP PN8NTC2

Reference conditions of measurement at the SPIRALAIR outlet: suction pressure=1 bar abs. , ambient temperature 20°C, discharge pressure A = 7 bar and B = 9.5 bar eff. Temperature of the air output is 10°C higher than the input temperature.

SPIRALAIR® is a registered trademark of Worthington Creyssensac.



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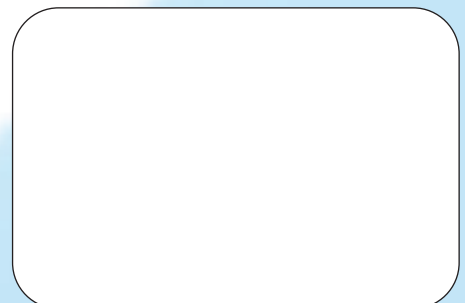
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