

WORLD CLASS · EFFICIENCY · RELIABILITY

k|r|s|p 2

TWO STAGE ROTARY



Kaishan Compressor USA

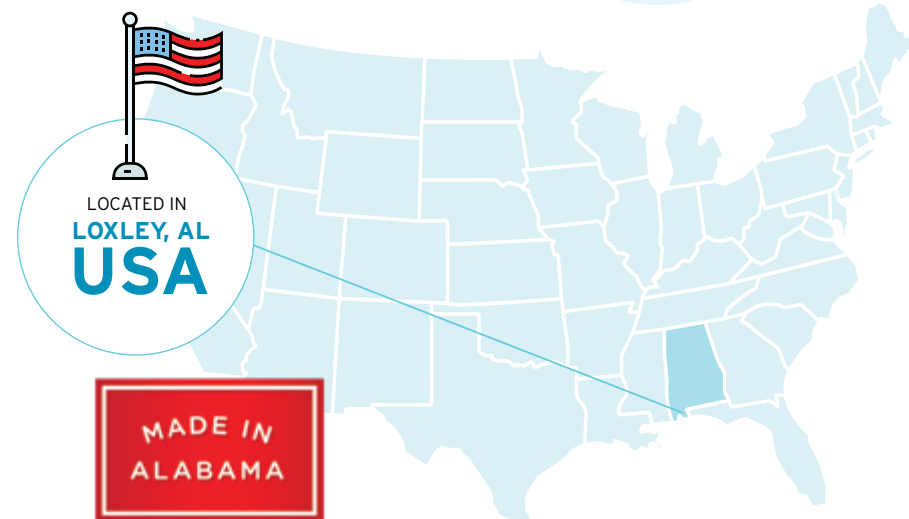


WE MANUFACTURE **85%**
OF THE COMPRESSOR COMPONENTS INTERNALLY,
ENSURING QUALITY AND CONTROLLING COSTS

60+
YEARS
IN BUSINESS

**OVER
70,000**
COMPRESSORS
PRODUCED
A YEAR

3RD LARGEST
COMPRESSOR MANUFACTURER
IN THE WORLD



KRSP2 SERIES COMPRESSORS PROVIDE LOW CAPITAL COST AND LOW OPERATING COST

Low cost of ownership throughout life cycle

Compressed air is often referred to as the 'fourth utility' and is critical to most manufacturing operations. Facility performance depends upon compressor reliability and efficiency.

Power consumption is a significant cost throughout the life cycle of a compressor. Therefore, it is important to consider the life cycle cost of a compressed air system when evaluating productivity improvements. KRSP2 series advanced energy saving features reduce operation costs significantly.



KRSP2 Series 'best in class' rotor assembly

**LIFETIME
AIREND
WARRANTY**

WORLD CLASS ENGINEERING

PATENTED 'SKY' TWO-STAGE AIR END DEVELOPED EXCLUSIVELY BY KAISHAN ENGINEERS

Continued development has increased efficiency by more than 20% over earlier models

- **Two-Stage air end design** for high flow rate and low power consumption
- **Direct drive (through gears) motor and air end** operate at slow speed
- **Low part load energy consumption**
- **Steady system pressure** lowers system pressure fluctuation and overall air demand
- **Slow speed male rotors** maximize performance and increase reliability
- **Decreased energy consumption** reduces carbon footprint and delivers cost savings
- **5 / 6 rotor profile** creates optimal performance while reducing energy consumption
- **2 in 1 intake valve design** (with check valve) for increased efficiency
- **Direct flow inlet valve** provides reliable capacity control
- **Triplex SKF bearings** for durability and reliability
- **Very tight tolerances** provide maximum efficiency



KRSP2 Series patented two stage air end

SINGLE PASS OIL & AFTER COOLERS

Long Life / Easily Accessible

- Minimize thermal stress
- Cooler running temperatures / correct running temperature @ 122F° (50°C) ambient capable
- Low oil carryover increases bearing life
- Low cooling air velocity reduces dust build up



'ULTRAWEB' AIR INTAKE FILTERS

Increased Filtration Efficiency

- Full airflow, low restriction, nanofiber technology
- Deep bed media ensures excellent dust capture
- Increased free air delivery for further savings in energy and running costs

CENTRIFUGAL COOLING FANS

Increased Cooling Efficiency

- Higher static pressure allows for heat recovery ducting
- Even air flow across the cooler face.
- VSD cooling fan (150 HP and above) provides energy savings as cooling airflow is reduced during periods of light load or low temperatures
- Cooling air bypasses main compressor compartment resulting in minimal internal dust build up

LAMINAR FLOW INLET VALVE

Minimum Pressure Drop / Increased Output

- Laminar flow inlet valve results in lower pressure drop through the intake, increasing output and saving energy

3 STAGE TANGENTIAL OIL SEPARATION

Lower Pressure Drop / Lower Absorbed Power

- Excellent oil mechanical pre-separation/ reduced direct oil impingement onto separator element
- Lower dust contact resulting in lower pressure drop / longer element life / lower energy consumption
- Residual oil carryover limited to 3 ppm

DIGITAL CONTROL PANEL

Monitors & Controls Key Compressor Functions

- Protects compressor in the event of a fault
- Provides service required alert
- Sequencing of up to 16 compressors
- External monitoring via RS 485 interface
- WYE Delta starter is standard on all models
- MODBUS capability



SAFETY AND THE ENVIRONMENT

Reduced OSHA Risk and Injury

- The entire Kaishan range of compressors includes full safety features such as guarded rotating components and shrouded electrical components

INDUSTRIAL GRADE ELECTRICAL COMPONENTS

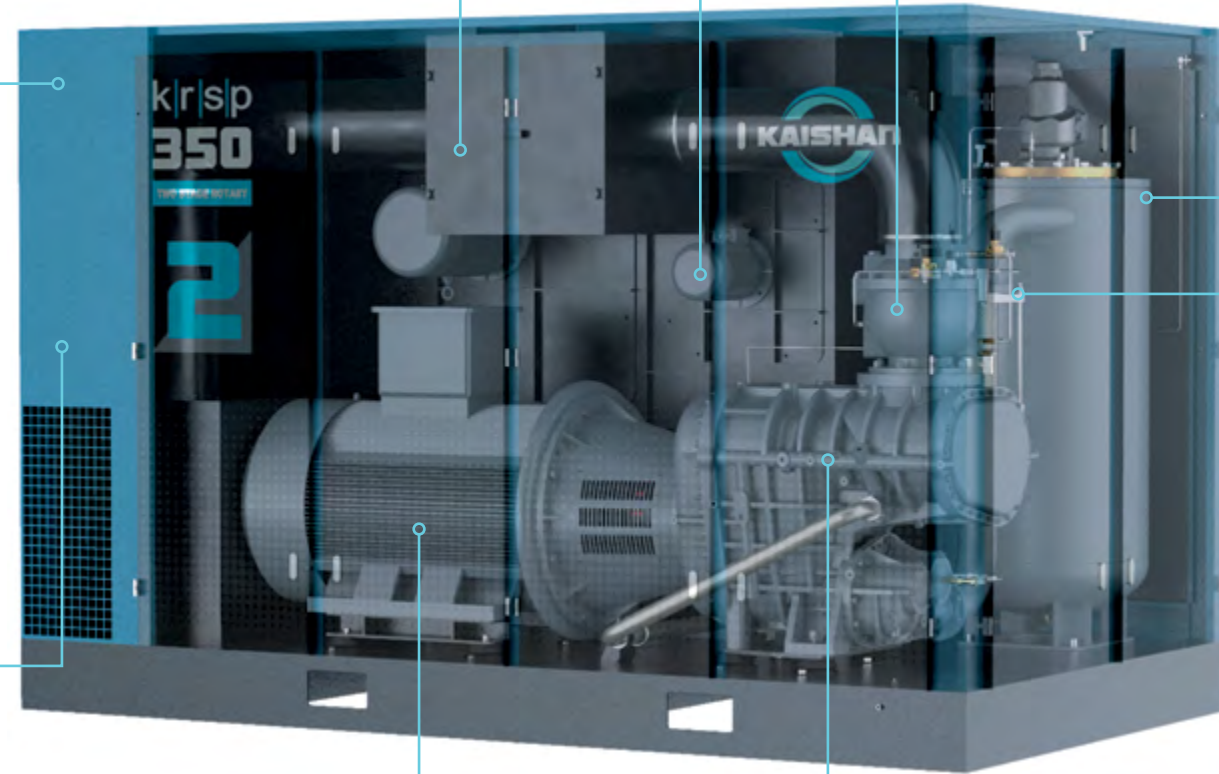
Increased Reliability / Lower Servicing Cost

- Outstanding reliability
- Excellent component life
- Worldwide support
- Standard electrical parts available locally

HIGH EFFICIENCY ELECTRIC MOTORS

Long Operating Life / Lower Power Use

- Kaishan uses high efficiency motors, which comply with all international standards
- Motors are standard TEFC to IP 54 protection from dust and moisture
- Class F insulation
- Cooling air bypasses main compressor compartment resulting in lower component operating temperatures and longer life



SKY2 125-600HP



SKY2 Inline series 30-100HP

316 STAINLESS STEEL CONTROL TUBING

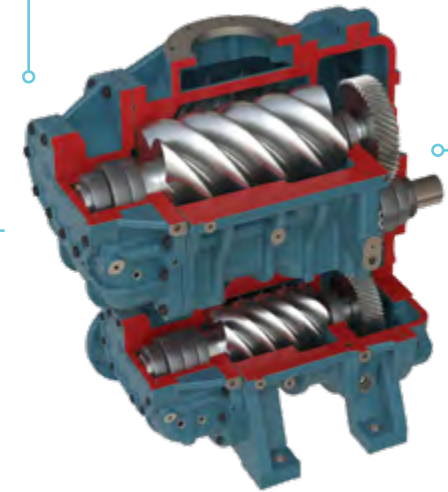
Long Tubing Life / Reduced Downtime

- Increased reliability due to corrosion free material
- Material such as nylon, copper or mild steel will fail in time causing downtime

TRIPLE DISCHARGE BEARINGS

Longer Bearing Life / Quieter Operation

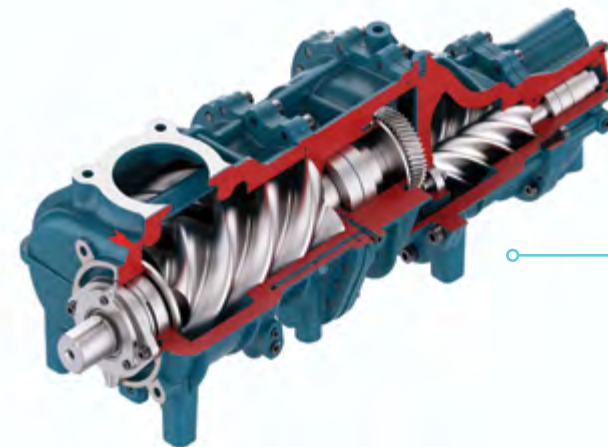
- The "SKY2" series airend uses three discharge bearings on the first stage and four bearings on the second stage
- Longest bearing life in the industry
- Warrantied for a "Lifetime" of use



'SKY2' SERIES AIR END

Maximum Output with Less Energy Usage

- Asymmetric 5 / 6 rotor profile with 100% SKF bearings
- KAPP Grinder rotor technology for tighter clearances and world class efficiency and performance
- Precision machined bell housing to maintain rigid alignment





Kaishan AirWatch

Our cloud-based compressor monitoring software provides real-time data analytics and trending on your Kaishan machines at your fingertips.

- Simple interface, easy to use and read
- Receive alerts and updates about status, health, and performance
- Quickly view analytics on duty cycles, airflow, pressure, power, and servicing intervals



KRSP2 SERIES FIXED SPEED

MODEL	POWER		FLOW (CFM / M3/min)						SOUND dBA	WEIGHT		DIMENSIONS (LxWxH)			
	HP	kW	100 psi	7 bar	125 psi	8.6 bar	150 psi	10 bar		175 psi	12 bar	lbs	kgs	in	mm
KRSP2-125	125	90	684	19.37	646	18.29	535	18.29	510	14.44	72	8136	3596	107x64x68	2718x1626x1727
KRSP2-150	150	110	829	23.48	741	20.98	677	19.17	665	18.83	73	10340	4694	127x77x82	3226x1956x2083
KRSP2-200	200	150	1117	31.63	996	28.20	874	24.75	811	22.97	76	10384	4714	127x77x82	3226x1956x2083
KRSP2-250	250	190	1373	38.88	1271	35.99	1108	31.38	1098	31.09	77	13090	5943	140x77x92	3556x1956x2337
KRSP2-300	300	220	1666	47.18	1532	43.38	1428	40.44	1318	37.32	78	13156	5973	140x77x92	3556x1956x2337
KRSP2-350	350	250	1964	55.62	1844	52.22	1618	45.82	1579	44.71	80	18810	8540	148x90x94	3759x2286x2388
KRSP2-400	400	300	2432	68.87	2179	61.70	2039	57.74	1844	52.22	82	19470	8839	162x93x93	4115x2362x2362
KRSP2-450	450	335	2590	73.34	2360	66.83	2158	61.11	2051	58.08	82	19790	8985	162x93x93	4115x2362x2362
KRSP2-500	500	375	2916	82.57	2762	78.21	2564	72.61	2394	67.79	82	21054	9559	162x93x103	4115x2362x2616
KRSP2-600	600	450	3498	99.05	3200	90.62	2988	84.61	2757	78.07	84	21998	9987	162x93x103	4115x2362x2616

200 PSI models available. KRSP2-500/600 air-cooled models have remote cooling modules. Consult factory for additional information.

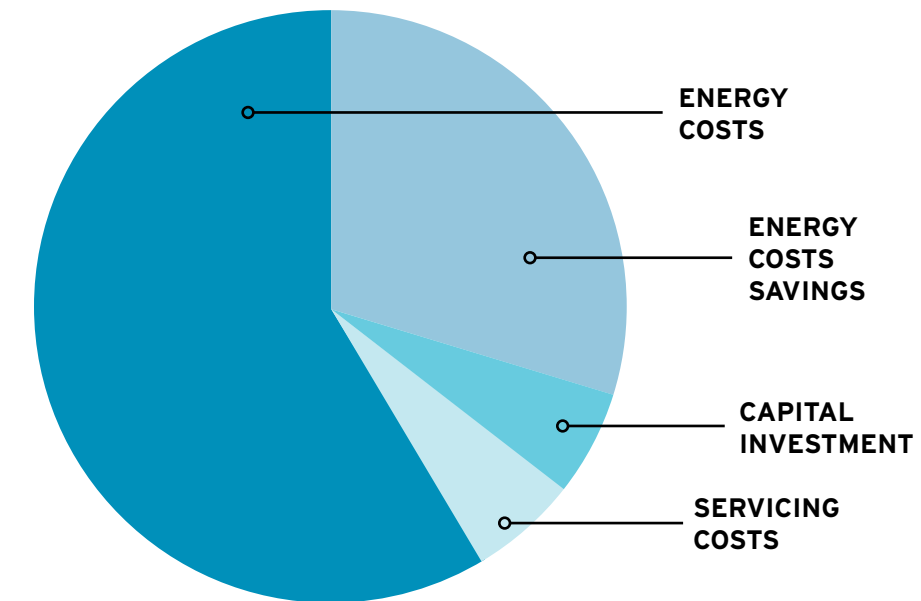
KRSP2 SERIES VARIABLE SPEED DRIVE OPTION PROVIDES A MAJOR ENERGY SAVINGS

KRSP2 VSD combines a robust power platform with a state-of-the-art control scheme

The drive provides a soft start and the ability to operate efficiently through the compressor's capacity range by matching flow to demand, while maintaining a high level of pressure control. By eliminating wasted energy, cost savings as high as 35% or more are possible. With this level of savings, the additional capital cost of the variable speed drive can be recovered in less than one year's operation.



KRSP2 Variable Speed Drive



KRSP2 Series VSD Rotary Screw Compressor operating at 70% load compared to a fixed speed model.

Variable Speed Drive

The variable speed drive used in KRSP2 compressors are renowned for:

- Efficient and reliable service
- Worldwide support

KRSP2 SERIES VARIABLE SPEED

MODEL	POWER		FLOW (CFM / M3/min)						SOUND dBA	WEIGHT		DIMENSIONS (LxWxH)	
	HP	kW	100 psi	7 bar	125 psi	8.6 bar	150 psi	10 bar		lbs	ks	in	mm
KRSP2-30	30	22	167	4.73	156	4.42	131	3.71	70	1676	761	72x39x51	1829x991x1295
KRSP2-50	50	37	288	8.15	266	7.53	219	6.20	71	2337	1061	82x46x54	2083x1168x1372
KRSP2-75	75	55	411	11.64	391	11.07	347	9.83	72	4012	1821	90x56x68	2286x1422x1727
KRSP2-100	100	75	548	15.52	533	15.09	465	13.17	72	5880	2670	98x60x72	2489x1524x1829
KRSP2-125	125	90	654	18.52	601	17.02	553	15.66	72	8898	4040	107x67x75	2718x1702x1905
KRSP2-150	150	110	824	23.33	757	21.44	704	19.94	73	10870	4935	127x77x82	3226x1956x2083
KRSP2-200	200	150	1078	30.53	990	29.11	921	26.08	76	11211	5090	127x77x82	3226x1956x2083
KRSP2-250	250	190	1387	39.28	1278	36.19	1182	33.47	77	13511	6134	140x77x92	3356x1956x2337
KRSP2-300	300	220	1733	49.07	1589	44.99	1450	41.06	78	13986	6350	140x77x92	3356x1956x2337
KRSP2-350	350	250	1964	55.62	1801	50.99	1723	48.79	80	19997	9079	148x90x94	3759x2286x2388
KRSP2-400	400	300	2360	66.83	2179	61.70	1998	56.58	82	19994	9077	162x93x93	4115x2362x2362
KRSP2-450	450	335	2652	75.10	2410	68.24	2158	61.11	82	20258	9197	162x93x93	4115x2362x2362
KRSP2-500	500	375	2833	80.22	2655	75.18	2588	73.29	82	21602	9807	162x93x103	4115x2362x2616
KRSP2-600	600	450	3434	97.24	3169	89.74	2987	84.58	84	22236	10095	162x93x103	4115x2362x2616

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MODEL	COMPRESSOR TYPE	FEATURES
KRSP2	Two Stage	Global leader in air compressor efficiency
KRSP	Single Stage	Patented 'SKY' air end, triple SKF bearings
KRSD	Single Stage	Direct drive, TEFC motor, low sound enclosure
KRSB	Single Stage	Belt drive, economical to own and operate
KRST	Single Stage	Belt drive, tank mounted
KRSH	Two Stage High Pressure	Pressure to 580 PSI
KRSL	Single Stage Low Pressure	Pressure as low as 45 PSI
KRSV	Rotary Screw Vacuum Pump	World class vacuum efficiency



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