

TWO-STAGE TANDEM ROTARY SCREW AIR COMPRESSOR

100-600HP

75-450KW

SERIES

TS Series



sullair.com.au

 **SULLAIR**[®]
A Hitachi Group Company

OUR POINT OF DIFFERENCE



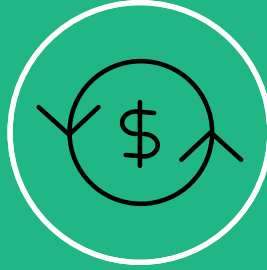
Customer support

FULL SUPPORT, NO WORRIES

When you buy from Sullair, you're getting so much more than just a compressor.

Enjoy the peace of mind that comes with a national support team, including seven offices around the country, GPS-tracked mobile service vans, and instructor-led and online training. Your choice secures the expertise of our technicians, who are factory trained using the latest tools and diagnostic techniques to ensure the optimum service of your compressor. If anything ever goes wrong, or if you simply want to make sure that you're getting the most out of your compressor, just call **1300 266 773**.

We've got you covered.



Reduced life cycle costs

DRIVING PRODUCTIVITY UP, AND ENERGY COSTS DOWN

We know energy efficiency is important to you; it's important to us, too.

Compressed air systems now make up 10 per cent of total industrial electricity use in Australia, and the cost of electricity continues to rise. And that's not all: nearly 75 per cent of the life-cycle cost of an air compressor is energy. This is why we've designed our Sullair compressors and air-ends to deliver optimum efficiency over their life cycle.



Lowest lifetime cost

RELAX, WE'VE GOT IT COVERED FOR A DECADE

Sullair compressors help significantly reduce operating and energy costs over the entire compressor life cycle.

- Legendary Sullair air-end with a low restriction inlet valve
- High-efficiency fan
- Low pressure drop air-fluid separation system to prevent energy loss
- Extend component life with improved air filtration
- Extended separator life
- Improved fluid filter life
- Less lubricant contamination



Powerful air

AIR POWER TO MATCH EVERY TASK, EVERY TIME

You can be rest assured that our tools are always up to the task.

Sullair TS series compressors are built to be relentless performers from 75 to 450kW. With an impressive free-air delivery range - 200 l/s (424 cfm) up to 1466 l/s (3108 cfm) pressure variants from 5.5 bar to 13 bar - and the renowned Sullair Air-End reliability, you've got a powerful partner in any task for years to come.



Maximum efficiency

MAXIMUM AIR, MINIMUM ENERGY

Sometimes the design features that leave the greatest impacts are the things we don't see.

By putting energy efficiency at the forefront of every engineering decision we make, we ensure all Sullair products minimise power consumption. The TS Series two stage compression process is tried and proven to minimise power consumption and deliver long operational life.

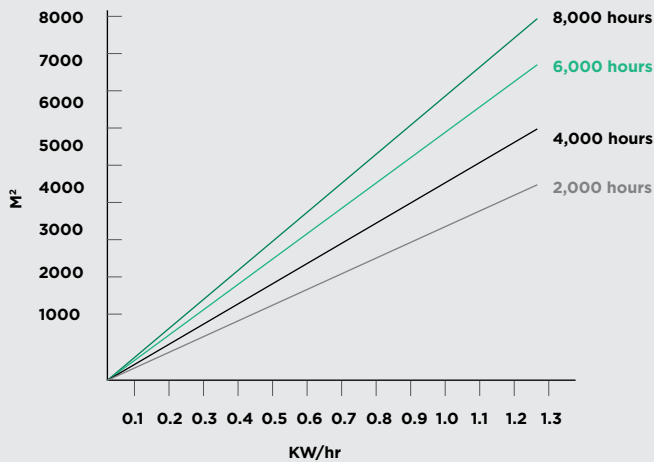
And by helping keep energy bills down, we know our smarter technologies give businesses a competitive edge.



TS SERIES AIR COMPRESSOR

1 Air-end

The two-stage compressor provides considerable energy savings over ordinary single-stage compressors. The Sullair TS series uses a two-stage compressor air-end with each stage providing optimum compression ratio. With a lower compression ratio, leakage is reduced and the compression efficiency improves significantly.



The two-stage bearing install prolongs the life of the air-end, and the design of the compressors rotor pitch and slot reduces any leakage. The bearing is of highest quality, designed with a work-life of over 100,000 hours.



2 Cooling System

The large capacity cooler design ensures compressed air is cooled when passing through the Cooler. This assists with easier maintenance and greater cooling performance.

3 Pipe Connection

All pipes use efficient o-ring seals, with metal tubes recommended as an exhaust line. Vibration transfer is effectively reduced between the air-end and motor via the elastic joint with proactive cover. That also allows for easy assembly and disassembly.



4 Moisture Separator

The large capacity moisture separator includes an automatic drain which improves separation.



5 Thermal Valve and Oil Filter Base

The thermal valve core and environmental filter provides optimum filtering efficiency extending compressor life.



7 Air Filter

The large capacity and heavy duty air filter is designed to prolong service life.



8 Air Inlet Valve

The air inlet valve reduces the loading/unloading frequency to ensure economical and trouble-free service.



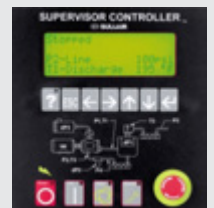
9 Motor

The high efficiency motor, with F class insulation and B level temperature rise, ensures correct configuration with Thermostats and circuit stability.



10 Controller Panel

The LCD screen provides easy-to-use real-time display functions, showing operating parameters of the unit. A range of alarms ensure timely prevention of any unexpected breakdowns.



6 Separator

The oil and air separator enhances the pre-separation effect, ensuring low pressure drops and improved efficiency.



11 Ease of installation

The air-end and motor are supported in a one-piece engineered internal mounting cradle. This ensures precise shaft alignment from the factory. Trouble free operation is provided by eliminating coupling misalignment issues, removing the need for additional laser alignment at site.

FURTHER ENERGY SAVING SOLUTIONS

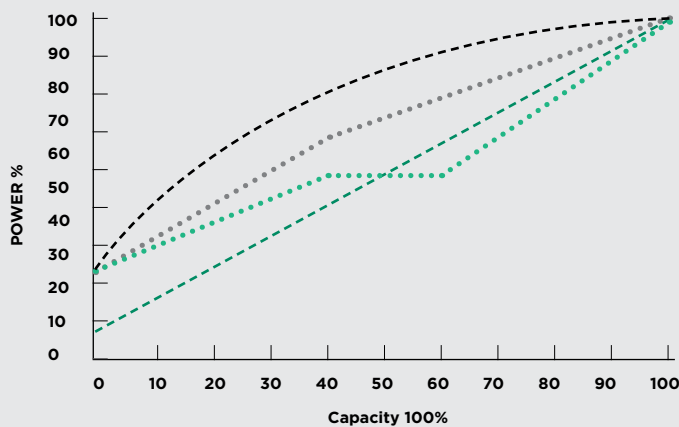
Spiral Valve Saves Energy

Compared with the traditional air inlet control, the Sullair patented spiral valve control reduces compression chamber volume and saves energy.

As shown in the graph below, this unique feature allows our customers to utilise between 40%-100% air capacity and delivers real energy savings to your bottom line.

Below picture shows the comparative

Compared with other air compressor control modes, VOC technology delivers industry-leading energy savings.

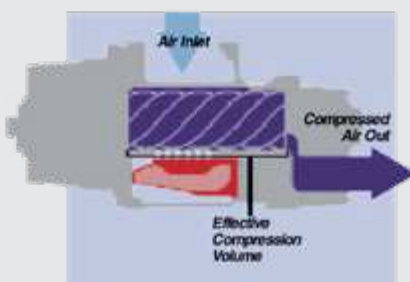


Advantage of the VCC control system:

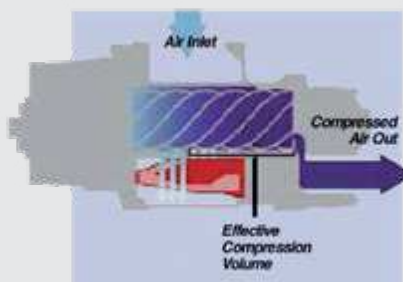
- 1 Controlling exhaust from between 40%-100%
- 2 Delivers 17% maximum energy saving when partial loading
- 3 Providing compressed air with stable pressure

- Loading / Unloading Control
- Modulation Valve
- VOC Technology
- VSD Technology

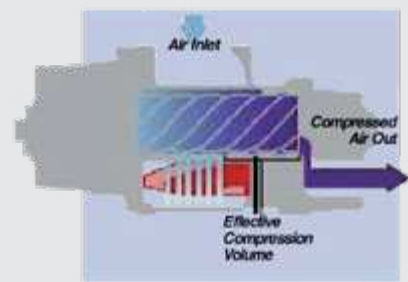
Closed Bypass Ports



Partially Open Bypass Ports



Open Bypass Ports



THE TS SERIES

The Sullair TS series compressors are designed for maximum efficiency, offering power, reliability and safety.

Sullair two-stage compressors feature a superior end-to-end design for optimum efficiency and power savings.

- Longer air-end life
- No loss of capacity or efficiency
- Lower operating costs



Model	Motor		Maximum Discharge Pressure					Weight	Discharge Connection
	hp	kW	5.5 bar	7.5 bar	8.5 bar	10.5 bar	13 bar		
			Capacity m ³ /min*						
TS20-100	100	-	18.3	14.9	14	12	-	2800	DN65
TS20-100	125	-	22.8	18.9	17.4	15.7	15	3100	DN65
TS20-100	150	-	26.8	22.9	21	18.9	17.4	3250	DN65
TS20-100	175	-	31.0	25.3	24	21.1	20	3950	DN65
TS20-100	200	-	-	29	27.2	24.8	22.9	4025	DN65
TS160	-	160	39.3	34.1	32.6	26.3	-	5900	DN100
TS200	-	200	48.1	42.1	39.6	36	31.1	6100	DN100
TS250	-	250	-	50.6	47.6	41.2	36	6350	DN100
TS280	-	280	-	54.8	51.6	44.6	38.8	6500	DN100
TS315	-	315	73.1	66	62.5	54	49.8	11500	RC4
TS355	-	355	-	73	69.6	61.7	54	11500	RC4
TS32S-400	400	-	70	61.7	61.7	49.8	47.2	11500	RC4
TS32S-450	450	-	80	69.5	69.5	57.1	49.8	11500	RC4
TS32S-500	500	-	-	77.8	77.8	66	57.1	11500	RC5
TS32S-600	600	-	-	88.6	85.5	73.1	66	11500	RC5



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*With our policy of continuous improvement, we reserve the right to change or discontinue at any time, specifications or designs without notice. Note: All images are for illustration purposes only. E&OE