

World Class

Cyclon Air End

High Efficiencies

Surescan Control

Direct Drive

Quiet Operation

Dual Control



6000 **cyclon** SERIES
An Invensys company

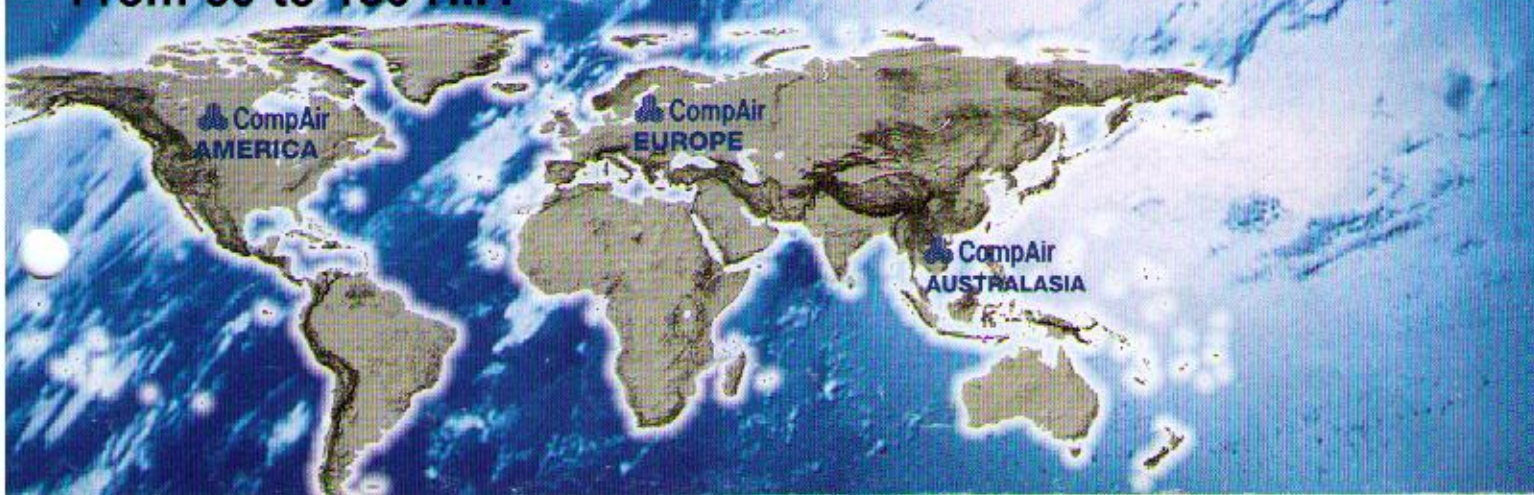


Rotary Screw Air Compressors
From 60 to 150 H.P.

 **CompAir**
AMERICA

 **CompAir**
EUROPE

 **CompAir**
AUSTRALASIA

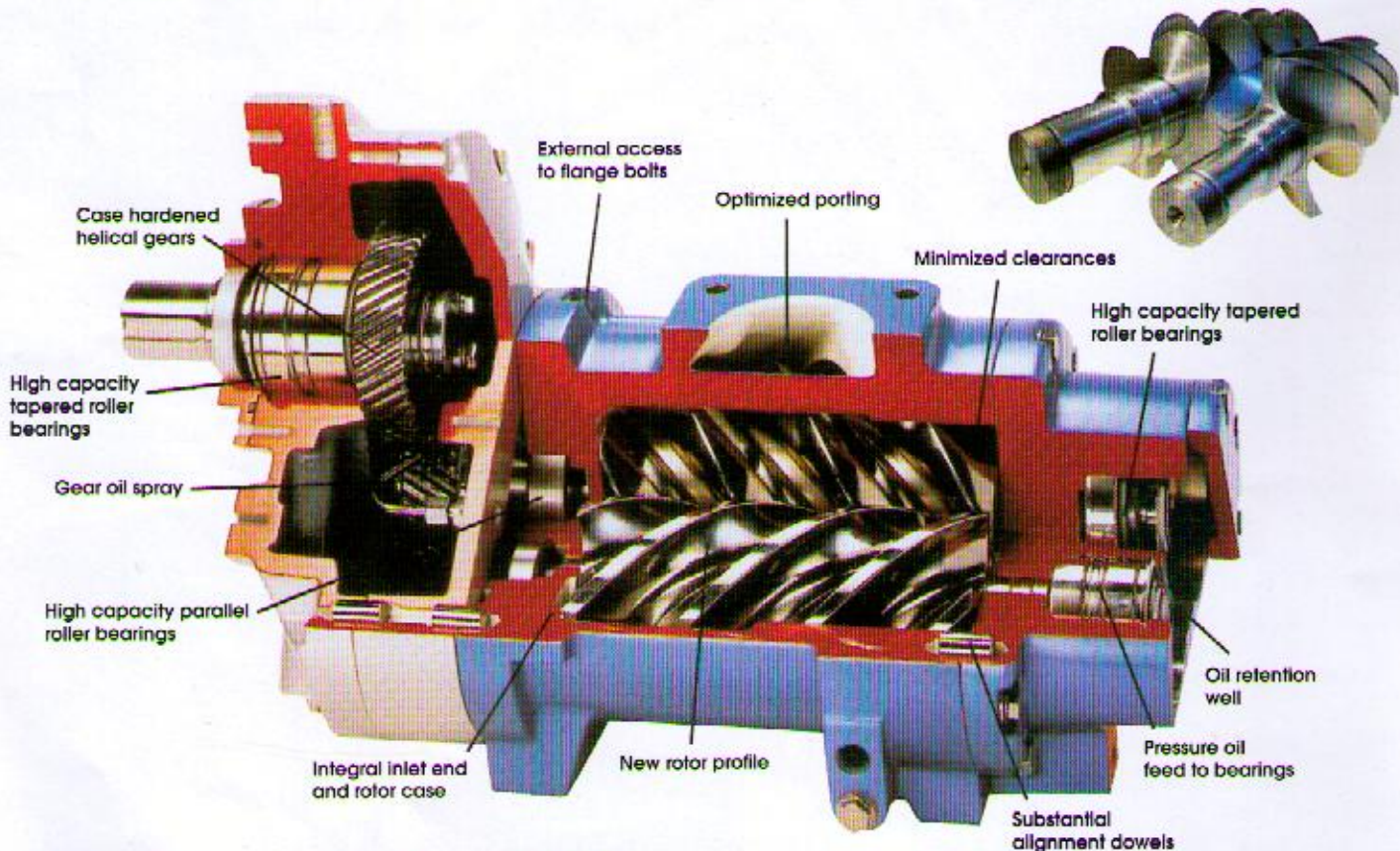


Introducing the Revolutionary Cyclon Air End

CompAir introduces the revolutionary Cyclon Air End developed over a period of four years and at a cost

exceeding \$4 million. The heart of the new design is the unique 4/5 male to female rotor air end profile which is

considered by industry experts to be a major breakthrough in compressor technology.



Higher Efficiencies

The unique 4/5 male to female rotordesign has increased efficiency by reducing to a minimum the leakage paths in the air end... namely the size of the blowhole and the length of the seal line. This was achieved without increasing the overall dimensions of the unit. The air inlet and discharge ports have been refined to improve the air flow characteristics, thus benefiting the overall efficiency and reducing noise.

Cyclon Air End Technical Features

- unique new high efficiency rotor profile

- Controlled small clearances and minimal 'blowhole'
- Positively lubricated high capacity rolling element bearings supporting all radial and axial loads —simplified design —thrust pistons unnecessary
- Tapered roller delivery end and gearbox bearings
- Precision machined, accurately aligned, substantial iron castings —all pressure fastened
- Optimized porting and oil injection system
- Latest gasket technology —good sealing—no asbestos

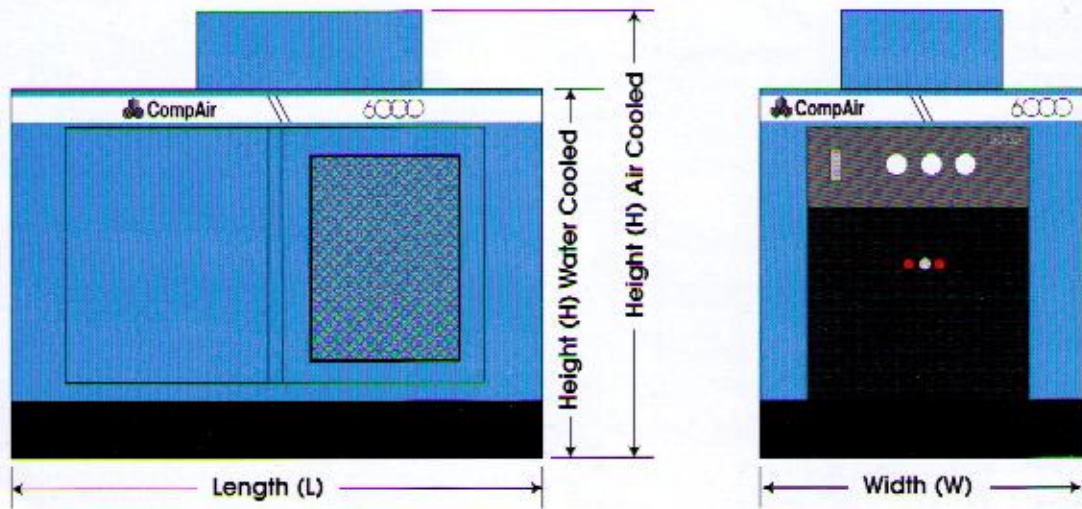
- Double-lip shaft sealing
- Case hardened high duty helical gears —oil jet lubricated —supported on tapered roller bearings

Benefits

- Increased output
- Improved efficiency
- Extensive output range
- Broad range of pressures
- Slow rotational speeds —long life —reduced noise
- Application design support

6000 Cyclon Series Performance

External Dimensions



The new CYCLON produces more capacity at higher full flow pressures of 110, 125, 150, & 190 PSIG

CompAir model	Drive motor H.P.	Full flow capacity ACFM	Full flow PSIG	Maximum discharge pressure PSIG	Dimensions Inches L x W x H	Approximate weight pounds
6060CL	60	289	110	120	Air cooled 75 x 46 x 72	3,000
6060CH	60	265	125	135	Water cooled 75 x 46 x 72	
6060CHP	60	245	150	160		
6060CXHP	60	220	190	200		
6075CL	75	350	110	120	Air cooled 75 x 46 x 72	3,250
6075CH	75	335	125	135	Water cooled 75 x 46 x 72	
6075CHP	75	298	150	160		
6075CXHP	75	240	190	200		
6100C4L	100	456	110	120	Air cooled 75 x 46 x 72	3,500
6100C4H	100	432	125	135	Water cooled 75 x 46 x 72	
6100C5L	100	500	110	120	Air cooled 83 x 55 x 76	4,750
6100C5H	100	460	125	135	Water cooled 83 x 55 x 76	
61005HP	100	425	150	160		
6100X5HP	100	365	190	200		
6125CL	125	620	110	120	Air cooled 83 x 55 x 76	5,350
6125CH	125	585	125	135	Water cooled 83 x 55 x 76	
6125CHP	125	535	150	160		
6125CXHP	125	450	190	200		
6150CL	150	750	110	120	Air cooled 95 x 55 x 76	6,300
6150CH	150	685	125	135	Water cooled 95 x 55 x 76	
6150CHP	150	620	150	160		
6150CXHP	150	530	190	200		

Standard Equipment

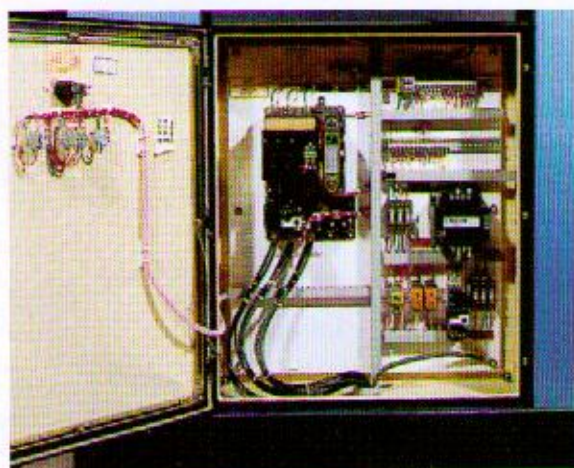
Full voltage built-in magnetic starter with 115V control circuit, dual control with on-line / off-line regulation or modulation control, aftercooler with separator and automatic drain trap, ODP flanged drive motor, initial fill CS5000XL synthetic lubricant, and high efficiency air filter.



Sure Scan Micro Processor

The CompAir Sure Scan Micro Processor based controller offers the user the ultimate in ergonomic compressor controls. The control panel continuously displays the delivery pressure and operating temperature. The main backlit LCD display provides immediate readings of hours run and hours unload together with a countdown of hours until next service is due, also the Differential Pressure, Oil Filter, Oil Separator and Oil Filter warning message. If a fault occurs the built in diagnostics help keep downtime to a minimum.

Optional Equipment



NEMA 4 Starter

All the control electrics are prewired and housed in the control panel within the cabinet. The control voltage is reduced to 115V for safety by a built-in transformer. All electrical components are conventional, and easy to obtain and replace.

Sound Attenuating Enclosure with Air Prefiltration

Air entering the compressor for cooling is prefiltered through cabinet mounted furnace type filters. Prefiltering enhances air quality to the air end, motor and coolers, thus reducing maintenance, and allowing the unit to run cooler.

Also...

TEFC motors, high efficiency motors, outdoor modifications, water cooler units, other NEMA class electrical enclosures, reduced voltage starters, inlet air filters for high dust applications, and multiple unit alternating and sequencing controls.

Dynamic Design/Benefits

(A) Easily Removable Separator

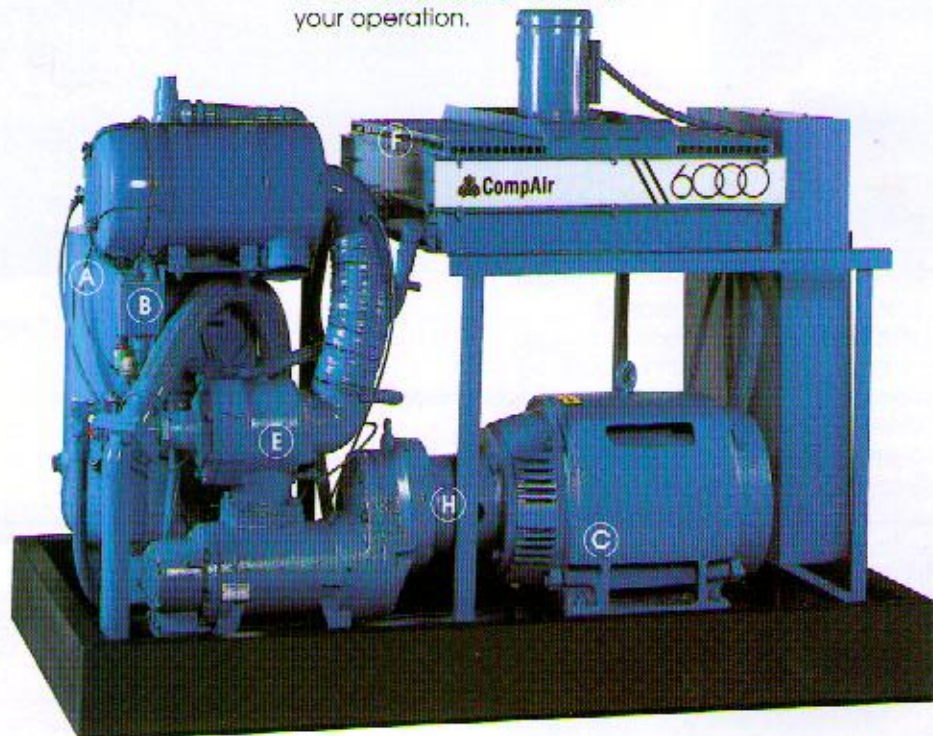
Compact vertical two stage air/oil separation system is conveniently positioned for easy maintenance.

(B) Energy Saving Two-Mode Regulation

On-line / off-line and modulation control enables you to select the control system which is the most efficient for your operation.

(C) Class F insulated Motor

ODP flanged NEMA T frame motor is standard.



(D) Sure Scan Micro Processor

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(E) Total Closure Inlet Valve

Eliminates the need for troublesome, high maintenance oil-stop valves and check-valves between the compressor and sump and reduces unloaded power consumption.

simplifies heat recovery installations. Cooler cleaning is easy and unobstructed with this design.

(E) High Efficiency Vertical Discharge Oil Cooler/Aftercooler

This side by side design coupled with the suction cooling results in greater cooling efficiencies thus providing you with a cooler running compressor, extending air end life, increasing overall efficiencies and lowering discharge air temperatures. The vertical air discharge

(G) Fully Removable Acoustical Sound Enclosure

Single point access simplifies routine filter servicing and oil checks, keeping maintenance downtime to a minimum. Low sound attenuation allows for use in manned working areas.

(H) Direct Drive

The drive system incorporates a flexible coupling with rubber inserts and flange mounting to the motor, assuring permanent alignment, thus eliminating periodic alignment checks.