

TAC2000®: Market's Only Air Cooled Centrifugal Compressor

The Cameron Turbo Air Cooled® 2000 centrifugal compressor is a state-of-the-art source of oil-free air designed for applications where there is a limited supply or no water available for cooling. It features innovative air-to-air cooling technology in a reliable centrifugal design. This 100% oil-free compressor includes specially designed high efficiency air-cooled intercoolers and aftercooler, inlet filter/silencer and optional packaged check valve.



This proven, pre-engineered design reduces initial investments for our customers. Durable construction with ease of installation, simple maintenance and an energy conserving microprocessor control, makes the TAC2000® economical to both install and operate. Additionally, the air cooled system offers savings through a variety of means, including:

- the cost of water usage
- the cost of pumping water
- the cost of treating water
- the cost of maintaining a water system
- the cost of installing a cooling system
- the cost of a closed-loop cooling system

This self-contained system can deliver horsepower per CFM ratios that no other oil-free compressor in this range has been able to match. Cameron's labyrinth seals, when compared with tight fitting carbon rings, are non-contacting, non-wearing and do not require periodic replacement, providing additional savings on maintenance. The microprocessor tailors compressor output to plant demand while providing the most efficient operation of the compressor and the greatest throttle range without over pressurization of the system. Hydrostatic squeeze film bearings provide superior stability with regard to load and rotor mass providing high mechanical efficiency with which conventional bearings cannot compete. Mechanical losses are minimized through the use of tapered thrust collars. These thrust collars transfer loads to a low speed bullgear thrust bearing at near zero relative velocity via an oil wedge. The thrust loads are then absorbed at the low speed thrust bearing.

Installation is simplified because the compact system is packaged in a single unit that includes the compressor, intercoolers, aftercooler, lube system and motor starter. The control panel with pump starter and control transformer is mounted, completely wired and tested. Furthermore, no special foundation is required for installation, and a sound enclosure is included in the standard design, allowing simple installation even where low noise levels are required.

Motor sizes range from 150-300 HP (110-260 kW) with discharge pressure ranging from 50-150 psig (3.5-10 BARG) and flow range of 550-1700 CFM (930-2890 m³/HR).

For more information, contact our centrifugal compressor products group at 877.805.7911.