

GENERAL TECHNICAL SPECIFICATIONS QUASAR 170-225 (AIR AND WATER-COOLED)

COMPRESSED AIR CIRCUIT



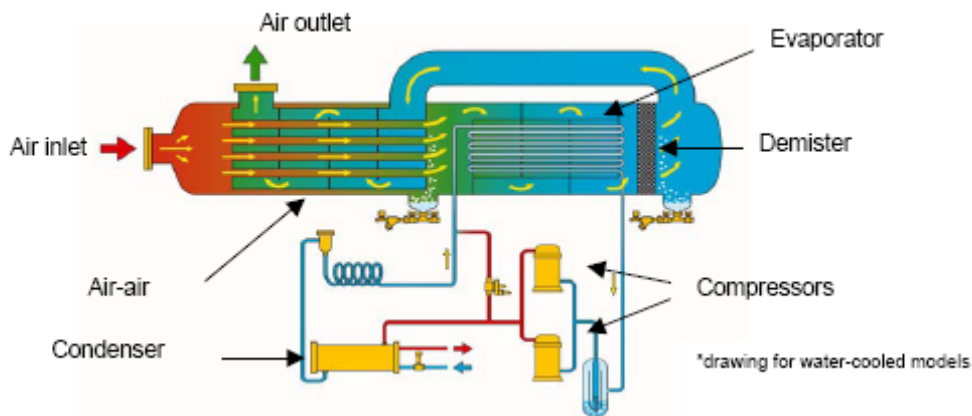
All the stages needed to guarantee perfect compressed air treatment are contained in a single, extremely compact pressurised vessel, arranged longitudinally so as to guarantee the compressed air a constant throughput velocity. In case of extraordinary maintenance, the vessel includes as standard a central flange which, positioned between the air-air exchanger and the evaporator, allows an easy access to the internal components of the compressed air circuit.

Internal pre-filter: optional together with the flange positioned close to the air-air exchanger, it keeps the exchanger clean and avoids frequent maintenance.

Air-Air heat exchanger: fashioned with copper pipes (and external aluminium fins) and brass inserts which allow optimization of thermodynamic efficiency, with the advantage of a lower electrical power input.

Evaporator: designed according to a special Parker Hiross patent with the use of a finned coil, copper pipes and high efficiency aluminium fins, protected with a special anti-corrosion treatment (cataphoresis). The exclusive Parker Hiross patent for heat exchangers has enabled a significant reduction in the number of weldings inside the circuit, thereby minimising the possibility of leaks, while ensuring extremely low pressure drops.

Demister moisture separator: thanks to its special configuration, efficiency is ensured also in conditions with variable flow rates and low speed compressed air transfer. Two timed condensate drains (which are also available as electronic drains on request) are installed downstream the air-air exchanger and the evaporator and are controlled by the microprocessor.



REFRIGERANT CIRCUIT

SCROLL type cooling compressors in "tandem" configuration, to ensure reduced energy consumption, optimal reliability and simple start-up. Availability (as standard) of the special stand-by function enables temporary shutoff of one of the compressors in the respective cases of partial load operation or maintenance.

Condenser (QSR170-225W) high efficiency water-cooled shell and tube version with reduced pressure drops and minimal maintenance thanks to the special pressure controlled valve, which automatically controls condensation conditions.

Condenser (QSR170-225A) copper tubes and fins in aluminium with high efficiency fans.



CONTROL AND MANAGEMENT SYSTEM



Quasar are controlled and managed by a sophisticated microprocessor (standard issue), with a display showing not only the dew point and alarm indications, but also numerous other items of information. All functions are fully programmable, so that management of the drier can be personalized. With an hourcounter connected to the compressor and a programmable function monitoring service intervals, scheduling and verification of maintenance is rendered especially simple.

A "status report" records the last 8 events, whilst a secondary report records the data picked up by sensors in the event of an alarm being tripped, to allow simple error diagnosis.

The entire set of alarms can be programmed by the user; and if an alarm is activated, clear text messages are generated.

General alarms and unit status volt free contacts are also available.

The microprocessor backlit digital display can be installed up to a distance of 60 m from the unit.

HIGH OPERATING LIMITS

The declaration of conformity to the applied CE mark in accordance also with the new Directive on pressure equipment EN 97/23/EC (Module H1), as well as the possibility of working with very high operating limits (air inlet temperature of up to 65°C and maximum ambient temperature for the version with air condensation of 46°C) make Quasar models world leaders in their category.

CERTIFIED QUALITY

The high standard of the Quasar range bears CE marking in accordance with Directives 97/23/EC (PED), 2006/95/EC, 2006/42/EC, 2004/108/EC. All dryers ensure constant air quality in accordance with the ISO 7183 standard, thanks also to the numerous checks, tests and inspections that each dryer undergoes on the production lines, according to the ISO 9001 quality assurance procedures.

CONDENSATE DRAINS

The entire Quasar range is supplied as standard with two timed condensate drains, already installed and connected with microprocessor control on all models.

Electronic versions with level sensor are also available on request.

SIMPLE AND RAPID MAINTENANCE

The easily accessible electric panel, and complete access to all components facilitate all technical maintenance operations.

ENVIRONMENTAL PROTECTION

The sophisticated technological solutions employed together with the use of an eco-friendly refrigerant (R407C), provide users with real and consistent advantages while ensuring total respect for the environment.