Compressed Air Systems for Medical Use

Whether for routine care, the ICU, the ER or the OR, medical gas supply is of major importance for almost every area of the hospital. Central compressed air systems ensure the continuous supply of medical compressed air of proper quality and pressure.

COMPRESSED AIR SUPPLY SYSTEMS
Dräger has been building central compressed air supply systems for hospitals, clinics, and medical practices for more than fifty years. Today’s systems meet all the current standards, in particular EN ISO 7396-1, with air quality in accordance with the European Pharmacopoeia. Following the manufacture on site process, every system is carefully inspected and labeled with a CE certificate on release. Medical air systems are equipped with three compressors and two compressed air receivers, and a pressure reducer station.

The EcoPharm Tower systems, extremely effective compressed air purification systems with five filtering stages and an adsorption dryer, ensure the purity of the compressed air. The complete system is constructed in a way to ensure the utmost reliability as well as to be maintained and repaired without having to interrupt normal operations.

SYSTEM CONTROL CUSTOM DESIGNED TO YOUR NEEDS
For your hospital’s medical compressed air supply, Dräger offers a fully automatic operating system which is equipped with individual compressors: The sound-absorbing piston and screw compressors of the DWSC, DWLS and DWLC series feature an integrated control. This enables each compressor to supply the system with compressed air in an emergency, independently of a central control. In connection with a central control panel, which supplies primary power and coordinates alarm signal transfer, the compressor system ensures multiple redundancy.
For the more basic compressors of the DWSC and DWSRD series, a central control panel is responsible for all control functions. A pressure sensor feeds the operational pressure to an electronic control unit (SPS) that switches the compressors as needed. All other functions, such as the basic load switching control, the metering of operating hours and the startup control are also handled by the control unit. If the control unit should fail, the emergency control maintains the compressed air supply via an additional mechanical pressure switch.

**DRÄGER MEDICAL AIR GUARD**

The purity of medical compressed air is defined in the European Pharmacopoeia. Dräger Medical Air Guard ensures continuous and fully automatic monitoring of the purity of gases and water vapor. The Medical Air Guard - VOC system can also continuously monitor residual oil traces. This important safety feature helps to ensure that any pollution with oil is recognized before it can reach the patient. The central evaluation unit continuously provides all measurement data for documentation on an optional data logger or Building Management System.

**COMPACT COMPRESSED AIR SYSTEMS**

For compressed air supply in hospitals, Dräger offers space-saving, compact compressed air systems. All required components such as compressors, dryer and pressure reducer units are mounted as a single, compact unit onto a compressed air receiver. Completely fitted with piping and cables, the systems are quickly installed and ready to use.