

Air Techniques, Inc. Presents New Membrane Dryers for AirStar® Air Compressors

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MELVILLE, NEW YORK — Compressed air is essential in dentistry. Ultra-dry, oil-free air is even more important. Air Techniques, best known for its high-quality, reliable compressed air and vacuum systems, now uses a drying system that is significantly more efficient than conventional systems.

This innovative membrane system uses a unique technology to precipitate humidity through a membrane. First, the compressed air is cooled down to ambient temperature by means of aluminum ribs of a cooling element. In the next step, air flows through 1200 thin membrane fibers which dehumidify it. On the other side of the membrane fibers, dry scavenging air absorbs the humidity again – precipitating three times more water than conventional systems. Compressors can only use about 50 percent of their performance capacity with traditional drying systems because the drying agent has to regenerate at regular intervals - this is no longer necessary with membrane drying. The compressor can run non-stop, 24 hours, increasing efficiency and allowing for better service due to extended hours of operation.

Furthermore, the system is efficient. Humidity can be monitored continuously via the integrated control display, where status can be seen at a glance. Reading errors are almost impossible thanks to the colored scale (ranging from blue = dry to red = humid). In addition, the drying system can be equipped with a bacterial filter for increased hygiene – requiring only a few steps.

The new system has been tested under extreme conditions that would normally have an adverse effect on performance. In both hot and dry climates, as well as the hot and humid tropical climates, the new technology has been proven successful. Also in dental laboratories, generally known to use large quantities of compressed air, the drying system stood the test in non-stop operation.

For more information, visit the [AirStar Product pages](#) or call 1-800-AIR-TECH. Founded in 1962, Air Techniques is a leading manufacturer of quality equipment for the dental industry.
