CO2 Capability Added to All-in-One Testing Instrument

MOCON, Inc. is introducing the MultiCheck® 425—a new, combination testing system for packages with one-way degassing valves. The latest instrument in the MultiCheck® series measures headspace carbon dioxide (CO2) in addition to oxygen (O2). The unit also measures leak detection, seal strength and one-way degassing valve performance via MOCON's new Valve Test Unit™ (VTU).
"Millions of these degassing valves are incorporated into packages every year. This combination unit gives coffee roasters and others an accurate and repeatable way to test performance including quantifying opening and sealing pressure levels. The MOCON VTU is capable of measuring to tenths of a pound per square inch," said Anthony Ahmed, product manager, MOCON.

Because five different tests are combined into one unit, the MultiCheck® 425 system significantly impacts time, labor and samples needed to conduct individual testing. Instead of destroying five different packages to conduct the same number of tests, a single package cycles through all of the tests on one unit. First the O2 and CO2 headspace analysis, followed by the pressure decay leak test, then a seal-strength burst test and finally the valve test which tests both the leak and the seal strength of the valve.

"By performing all of the tests on one package, the new system provides the first true profile of the condition of a single package vs. trying to get an overall perspective by looking at results from five different samples," said Ahmed.

In addition to the new valve tester, the MultiCheck® 425 is based on the marriage of two separate MOCON technologies—its Lippke® 4500 (leak detection/seal

strength) and its hand-held Pac Check® 325, O2/CO2 headspace analyzer.

“As the global gold-standard leader in instrumentation technology, we are always looking for ways we can positively impact our customers’ productivity. This new combination unit will significantly reduce testing time, while providing the same accurate results,” said Ahmed.

The MultiCheck® 425 unit is ideally suited for flexible packages with degassing valves. Applications include: coffee, pet food, agricultural chemicals, resins, medical and others which require pressure relief.

In addition to being integrated into the MultiCheck® 425, the VTU is also available as an accessory to the Lippke® 4500, for those operations which only wish to conduct valve testing.

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