



Water performance standard

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New Standard: ISO 29461-2:2022, The first international standard for filter performance in fog and mist environments

ISO, the global committee of industry experts that release international standards, has recently published its latest turbomachinery-specific standard for air intake filters, <u>ISO 29461-2</u>. This is the first official standard for turbomachinery applications that rates a filter's endurance in fog and mist environments, and determines a filter's resistance to water penetration.

Prior to this standard, filter manufacturers applied in-house testing methods to measure hydrophobicity, making it difficult to compare filters. ISO 29461-2 standardizes the testing procedure, requiring filters to be measured and rated according to the following test parameters:

- The test procedure is 3 hours
- The filter must have a pressure drop less than 1000 Pa (4" w.g.)
- There cannot be any measurable water downstream of the filter
- Optional test method if a filter is to be labeled "Hydrophobic": use a water dye to confirm that there is no water downstream of the filter.

Measuring a filter's hydrophobicity, or resistance to water penetration, is critical for turbomachinery applications. Gas turbines, for example, can be subjected to large quantities of water. If a filter is not hydrophobic, or lacks drainage capabilities, water can carry over contaminants that are harmful to the gas turbine. The result is output loss, higher heat rate, increased maintenance requirements and higher CO2 emissions per MWh produced.

In September 2021, the ISO committee also released the first international standard for rating the efficiency of turbomachinery air intake filters, <u>ISO</u> <u>29461-1</u>. Using a combination of both the ISO 29461-1 and ISO 29461-2 standards, turbomachinery operators can better select filters that will best protect their assets from part and output degradation. For example, for most applications exposed to heavy water concentrations, Camfil recommends filters that are high efficiency T10+ according to ISO 29461-1:2021 and hydrophobic according to ISO 29461-2:2022.

For an in-depth comparison of different filters, Camfil offers a Life Cycle Cost (LCC) Analysis to determine how filters will perform according to your specific local site conditions and operations. Learn more about the LCC at <u>www.Camfil.com/LCC</u>.

Camfil will be hosting a webinar on September 21st at 9:00am EST. During this webinar, a detailed explanation of the ISO 29461-2:2022 will be presented. <u>Register Here</u>.

About Camfil Power Systems:

Camfil Power Systems specializes in air inlet and acoustical systems for turbomachinery, including gas turbines, generators, industrial air compressors, and diesel engines.

Our engineering experts continuously strive to protect this high-value equipment by designing the best filtration and acoustical solutions to meet the priorities and requirements of original equipment manufacturers (OEMs), engineering procurement construction companies (EPCs), operators, and end users. They can be assured that their equipment will operate in the most profitable way, with maximum availability and reliability.

Camfil Power Systems is part of the Camfil Group, a world leader in the development and production of air filters and clean air solutions, with 31 manufacturing sites, six R&D centers, and local sales offices in 35 countries. For information or to contact a Camfil Power Systems representative, use the Contact Locator.

For more than half a century, Camfil has been helping people breathe cleaner air. As a leading manufacturer of premium clean air solutions, we provide commercial and industrial systems for air filtration and air pollution control that improve worker and equipment productivity, minimize energy use, and benefit human health and the environment. We firmly believe that the best solutions for our customers are the best solutions for our planet, too. That's why every step of the way – from design to delivery and across the product life cycle – we consider the impact of what we do on people and on the world around us. Through a fresh approach to problem-solving, innovative design, precise process control, and a strong customer focus we aim to conserve more, use less, and find better ways – so we can all breathe easier.

The Camfil Group is headquartered in Stockholm, Sweden, and has 31 manufacturing sites, six R&D centres, local sales offices in 35 countries, and 5,200 employees and growing. We proudly serve and support customers in a wide variety of industries and in communities across the world. To discover how Camfil can help you to protect people, processes, and the environment, visit us at <u>www.camfil.com</u>.

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