

Maximised water recycling in FILTRAGLASS team-up with AKCAM

Redefining efficiency and sustainability in glass manufacturing through advanced water recycling systems, FILTRAGLASS and AKCAM are jointly demonstrating how technological innovation, environmental responsibility and cost optimisation can all converge to create cleaner, more competitive production processes while setting new standards for the global glass industry.

The international expansion of Filtraglass has evolved from an ambitious project into a consolidated global reality. With more than two decades of expertise in developing advanced water recycling systems for the glass industry, the company has brought its sustainable solutions to production facilities across multiple continents. By doing so, Filtraglass is helping manufacturers optimise operations, reduce costs, and uphold environmental responsibility - three objectives that are increasingly critical in modern industry. One of the

most emblematic examples of this commitment can be found in Istanbul, Turkey, where AKCAM, a benchmark company in the field of glass and metal manufacturing, operates not one but two Filtraglass systems as part of its sustainability and innovation strategy.

INNOVATION AND SUSTAINABILITY CONJOINED IN FILTRAGLASS-AKCAM TEAM-UP

Founded in 1972, AKCAM has built a reputation over more than fifty years as one of Turkey's most respected producers of glass and metal prod-

ucts. From its state-of-the-art facilities in Istanbul, the company combines craftsmanship and technology to deliver large-scale projects that excel in both durability and design. Its guiding mission unites quality, customer satisfaction, and environmental consciousness. Transparency, integrity, and a strong sense of corporate responsibility define its relationships with employees, clients, and partners alike. Today, AKCAM stands as a trusted strategic ally for national and international customers, bringing together aesthetic excellence and functional performance in every creation. To strengthen this

commitment, AKCAM installed its first Filtraglass water recycling system -the DG.365.F- in 2024. The outstanding results of that initial installation led the company to incorporate a second system in 2025, further enhancing its production capacity. Together, the two installations now form an integrated water reuse circuit that ensures clean, consistent, and sustainable processing throughout its manufacturing operations.

PARTNERING TO TRANSFORM GLASS MANUFACTURING

The operating principle of Filtraglass systems is



both ingenious and elegantly simple. During processes such as glass cutting, edging, and drilling, water becomes contaminated with microscopic solid particles. Discharging that water directly into the environment is both unsustainable and, in many regions, non-compliant with regulatory standards. Filtraglass systems address this challenge by collecting wastewater, filtering it to separate solids, and returning clean

water to the production line. The recovered water meets optimal quality parameters and can be continuously reused, closing the loop in an efficient, circular process. This approach yields immediate and measurable results. By reducing overall water consumption by up to 85 percent, Filtraglass users enjoy substantial economic savings while achieving significant environmental gains. At a time when water scarcity is becoming a defining challenge

for global industry, the ability to recirculate and purify process water represents not just an operational advantage but a responsible step toward a more sustainable future. AKCAM's experience illustrates these benefits in practice. The use of consistently clean water has led to lower maintenance requirements, as machinery components no longer suffer from premature wear caused by abrasive glass particles. This translates into fewer production stoppages, reduced

maintenance workloads, and smoother operation. Additionally, the elimination of manual tank emptying -formerly required to remove accumulated residues- has freed up valuable production time and labour.

RAISING INDUSTRY STANDARDS TOGETHER

The economic implications are equally compelling. With a sharp decline in mains water consumption and reduced spending on refrigerants and filtration materials, AKCAM



has achieved measurable cost reductions. Beyond that, the extracted glass powder becomes a dry, easily handled waste that can be safely recycled, embodying the principles of a true circular economy. The resulting cleaner processes not only prevent water contamination but also contribute to a higher-quality end product - glass surfaces that are clearer, more transparent and entirely free of impurities. This visible improvement has reinforced AKCAM's standing in international markets, where customers increasingly prioritise suppliers that combine performance with environmental integrity. The company's experience demonstrates that it is entirely possible to integrate productivity, cost efficiency, and sustainability without compromise. The collaboration between

Filtraglass and AKCAM exemplifies a broader trend in the glass industry: the convergence of technological innovation and environmental stewardship. "Each installation is unique, and our commitment is to ensure that customers achieve efficiency, savings, and sustainability in their daily operations," explains Alberto Medina, Commercial Director at Filtraglass. "It's not only about delivering a machine - it's about accompanying every customer on their path toward responsible, resource-efficient production."

SHAPING A GREENER FUTURE THROUGH FILTRAGLASS AND AKCAM

This philosophy underpins Filtraglass's international strategy: to stay close to

its customers, understand their specific challenges, and design tailor-made systems that make a tangible difference in everyday production. As water recycling becomes a central pillar of sustainable manufacturing, such partnerships are redefining how the glass industry balances performance with ecological responsibility. The successful implementation at AKCAM has also been facilitated by Flat Glass Internacional, Filtraglass's exclusive representative in Turkey. Specialising in the promotion of advanced machinery and high-tech equipment for the glass industry, Flat Glass Internacional plays a crucial role in connecting manufacturers with cutting-edge solutions. Its contribution has been essential in establishing trust and technical excellence, accelerating the introduc-

tion of Filtraglass systems into the Turkish market and enabling leading companies like AKCAM to adopt sustainable practices without disrupting productivity. In an era defined by environmental urgency and industrial transformation, the AKCAM-Filtraglass alliance sends a clear message: innovation and sustainability are not opposing goals but complementary imperatives. By embracing advanced water recycling technologies, companies safeguard not only their own competitiveness but also the planet's finite resources. Filtraglass continues to prove that respect for the environment can coexist with industrial progress - and that when technology and responsibility align, everyone wins: the company, the customer, the industry - even the planet at large.



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