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WASTEWATER TREATMENT

At Avlon Inc., we are driven by a singular vision — delivering smart, sustainable, and scalable engineering solutions that address the critical needs of water, energy, and environment. With a proven track record across the Philippines and Southeast Asia, we specialize in technologies that serve industries, communities, and the planet.

Our wastewater treatment solutions are engineered to meet stringent DENR DAO 2016-08, as amended by DAO 2021-19 regulatory standards while ensuring efficient, low-maintenance operations. From MBBR to electrocoagulation and DAF systems, we provide customized treatment processes that safeguard water bodies and public health.

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Who We Are

About Us

With over 35 years of expertise in wastewater treatment plant, air pollution control equipment's, industrial steam boiler including power plants and oil refinery design, engineering, construction and commissioning, AVLON has been a trusted industry leader since 1980. Renowned for excellence, we have played a key role in pioneering projects across India's oil and refinery sector, setting new standards in quality and innovation.

In 2015, AVLON expanded its operations to the Philippines, establishing itself as a premier integration contractor in the Energy and Environmental Sector. We operate with a strong infrastructure, including state-of-the-art heavy lifting and construction tools, a full-scale fabrication shop, a vast warehouse, and an advanced design and engineering facility.

With a commitment to excellence and innovation, AVLON continues to lead the way in shaping the future of the Energy and Environmental Sector in Philippines.

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Avlon's Advanced Oil & Water Separation – Thermal Filtration Technology

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Oil-contaminated wastewater is commonly generated in industries such as food processing, petrochemicals, metal processing, automotive workshops, shipyards, and equipment maintenance facilities. These effluents often contain free oil, emulsified oil, suspended solids, grease, hydrocarbons, and sludge particles, which can severely impact downstream treatment systems and the environment if not properly removed. Avlon's Oil & Water Separator with Thermal Filtration is designed to efficiently separate these contaminants by combining mechanical filtration, gravity separation, thermal regulation, and automated sludge handling within a compact and enclosed treatment system.

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The treatment process begins when oily wastewater enters the primary screening chamber, where coarse solids and debris are removed through a durable filtration screen. This stage protects downstream equipment and prevents clogging. A spiral-driven sludge conveying mechanism continuously removes trapped solids and transfers them to a dedicated sludge collection container. By separating suspended solids at the initial stage, the system significantly improves the efficiency of subsequent oil separation processes.

Following pre-filtration, the wastewater flows into the oil separation chamber, which is designed with a conical geometry to promote effective gravity separation. Due to density differences, lighter oil droplets rise to the surface while heavier water settles below. Over time, the oil layer accumulates at the top and can be easily monitored through a built-in sight glass. To enhance separation efficiency in colder climates or for viscous oils, the system includes an automated thermal heating unit that maintains optimal temperature conditions, preventing oil solidification and ensuring smooth discharge through the automated oil collection mechanism..

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Avlon's Oil & Water Separator systems are engineered with fully enclosed construction, automated control systems, temperature-regulated heating, and remote monitoring capabilities for reliable and low-maintenance operation. The compact modular design minimizes installation space while preventing odor emissions and environmental contamination. With extensive experience in treating oily industrial wastewater, Avlon delivers robust separation systems that protect downstream treatment processes and ensure compliance with DENR wastewater discharge standards, enabling industries to manage oily effluents safely and efficiently

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