WATER 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.

In the energy sector, we develop coal and biomass-based power plants with emphasis on low emissions and high performance. Additionally, our waste-to-energy (WtE) power plants convert municipal and industrial waste into valuable energy, promoting circular economy principles.

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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 PackMax – PMV Series Vertical Instant Steam Boiler Technology

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The PackMax PMV Series boilers are engineered as vertical, once-through water tube boilers designed to provide rapid steam generation with exceptional thermal efficiency. Unlike conventional fire-tube boilers that require significant warm-up time, the PMV Series utilizes a reverse flame three-pass heat transfer design combined with high-pressure water tube coils to deliver steam within minutes of start-up. The vertical configuration ensures optimal circulation and efficient heat transfer, allowing the boiler to respond quickly to varying steam demands while maintaining stable pressure and reliable operation.

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At the heart of the boiler design are two concentric helical coils, which form the primary heat transfer surfaces. The inner coil functions as the radiant furnace zone where combustion takes place, while the outer coil provides convective heat transfer during the second and third flue gas passes. As combustion gases travel through the coils, heat is efficiently transferred to the circulating water, converting it into steam. The flue gases then pass through an integrated economizer section, where residual heat is recovered to preheat the incoming feedwater, improving overall thermal efficiency and reducing fuel consumption.

The PackMax PMV Series is equipped with a high-performance Baltur pressure jet burner manufactured in Italy, ensuring precise fuel atomization and stable combustion. These burners incorporate advanced combustion control technology that allows modulation based on steam demand, enabling higher energy efficiency and reduced emissions. The burner system includes automatic flame monitoring, air-fuel ratio control, and low NOx combustion technology, ensuring environmentally responsible operation while maintaining consistent steam output for industrial processes.

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Avlon's PMV Series boilers are designed with fully automated control systems, integrated safety interlocks, pressure monitoring devices, and emergency shutdown mechanisms to ensure safe and reliable operation. Key safety features include flame failure protection, low water level cut-off, overpressure safety valves, and automated sequence control. Manufactured in compliance with Department of Labor and Employment (DOLE) boiler safety regulations in the Philippines, these boilers deliver dependable performance, energy efficiency, and long service life while meeting the highest standards of industrial safety and operational reliability.

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