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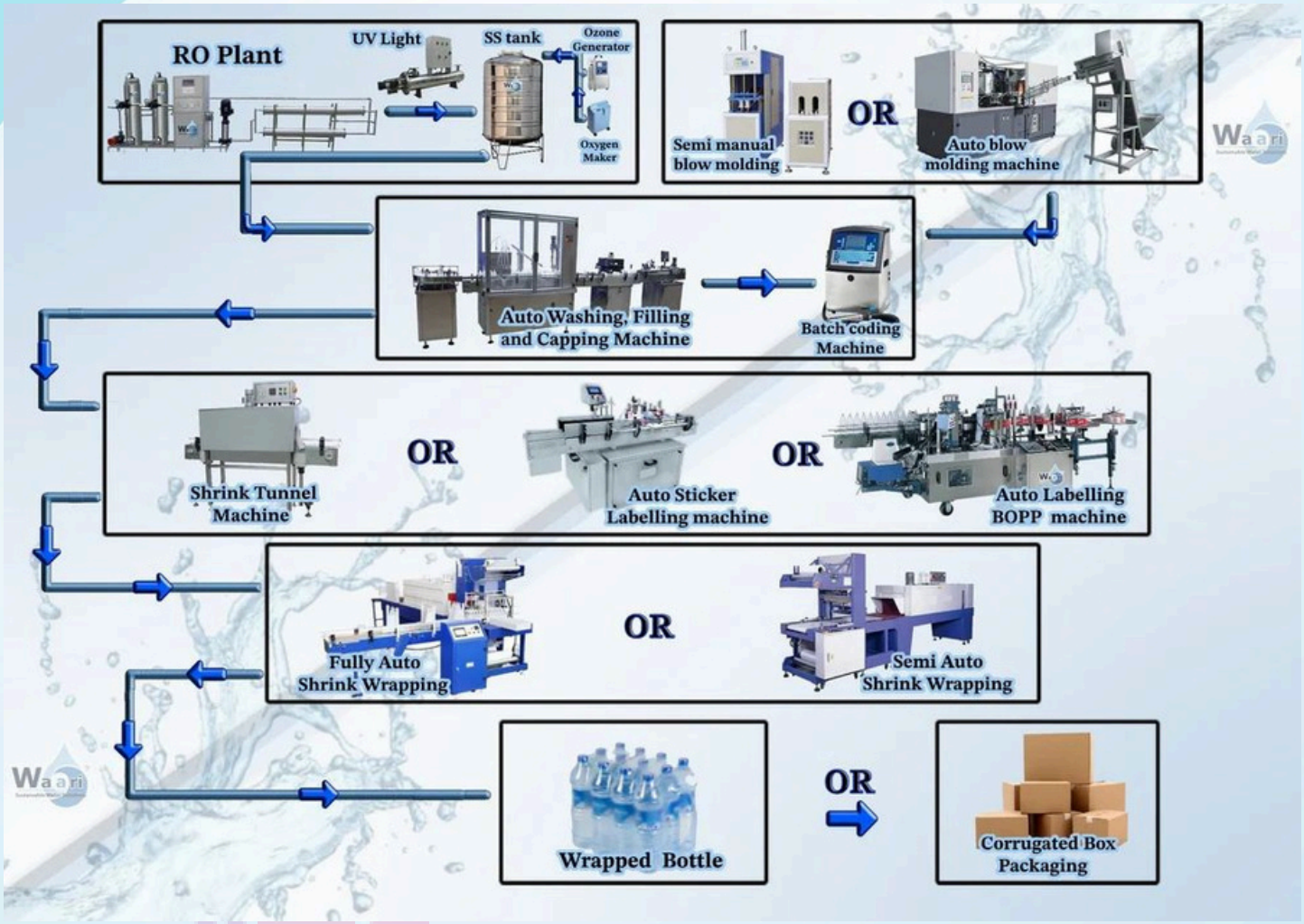
Reverse Osmosis Water Plant (RO)



Description:

An RO Plant (Reverse Osmosis Plant) is an advanced water purification system designed to provide high-quality, clean water by removing impurities through multiple filtration stages. The system uses Pressure Sand Filters (PSF) to eliminate large particles, followed by Activated Carbon Filters (ACF) to remove chlorine, organic materials, and odors. The heart of the system is the RO Membrane, which efficiently removes dissolved salts, heavy metals, and microorganisms under high pressure. Additional post-treatment methods like UV Sterilizers and Ozonators ensure the water is free from any harmful contaminants.

Ideal for producing purified drinking water, industrial water, or water for commercial use, the RO plant offers high performance, low maintenance, and long-lasting operation. It provides clean, safe water by efficiently filtering out up to 99% of contaminants, making it suitable for both residential and industrial applications.

Raw Water Pump

A raw water filter is a centrifugal pump that is used to transfer water from the source (such as a well, lake or river) to the RO Plant the pump works by creating a pressure difference that drives the water from the source to the RO Plant

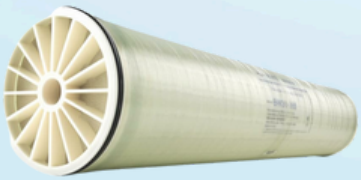
Pressure Sand Filter

A Pressure Sand Filter works by forcing water through a bed of 70% sand and 30% pebbles. It removes suspended particles, turbidity, and impurities, delivering clean water for various applications.

Active Carbon filter

An Activated Carbon Filter uses 70% activated carbon and 30% pebbles to remove chlorine, organic compounds, odors, and contaminants, improving water taste and quality for industrial or domestic use.

Membrane



Reverse osmosis (RO) membranes remove contaminants by using tiny pores that allow only water molecules to pass through, filtering out impurities like salts, chemicals, and microorganisms. This process produces clean water suitable for drinking, industrial use, or other purposes, ensuring high-quality and safe water.

High Pressure pump

A high-pressure pump in an RO plant forces water through the reverse osmosis membrane at high pressure, overcoming osmotic pressure to remove salts, contaminants, and impurities, ensuring purified water.

Stainless Steel Tank

A stainless steel tank in an RO plant stores purified water, ensuring hygiene and durability. It resists corrosion, maintains water quality, and is ideal for food-grade and industrial applications.

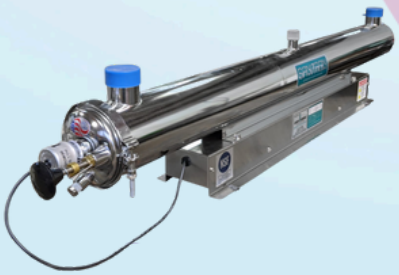
Synthetic Tank

A synthetic tank in an RO plant stores water efficiently, offering lightweight, corrosion-resistant, and cost-effective solutions. It's ideal for maintaining water quality in domestic and industrial applications.

Control Pannel

The control panel in an RO plant automates and monitors the entire process, managing pumps, regulating pressure, and ensuring safety. It oversees water flow, filtration, and cleaning cycles, optimizing efficiency and ensuring consistent performance with minimal manual intervention for reliable water treatment operations.

Ultra violent Filteration



UV filtration in water treatment uses ultraviolet light to kill bacteria, viruses, and microorganisms without chemicals, providing safe, pure, and disinfected water for drinking and other uses.

Transfer Pump

A transfer pump in an RO plant moves water between different stages or tanks efficiently. It ensures a steady flow, supports processes like filtration, and maintains system performance and reliability.

ATM Machine

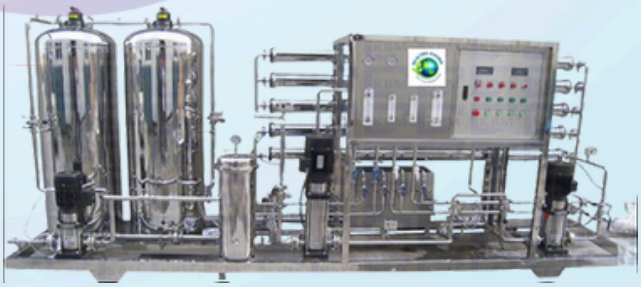
An ATM machine in an RO plant is a water vending unit that provides purified water when users make a payment. It operates with automated controls, including a payment system (coin) flow sensors, and dispensing mechanisms. After payment, the system releases a set quantity of filtered water. The machine is user-friendly, ensures hygiene, and offers easy access to clean drinking water.

QR Machine

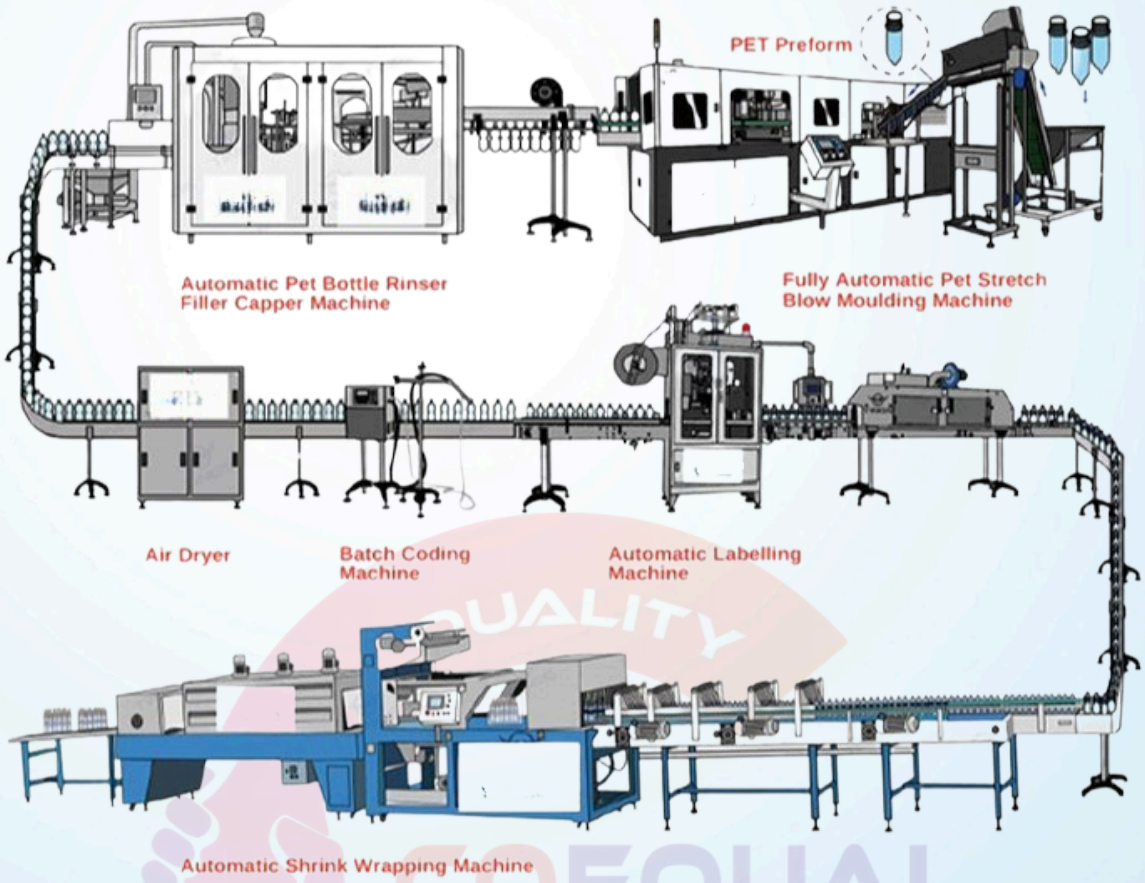
A QR-enabled machine in an RO plant is a water vending unit that dispenses purified water upon QR code payment. Users scan the QR code, make the payment, and the system automatically releases the selected quantity of filtered water. Equipped with flow sensors and automated controls, it ensures hygiene, convenience, and easy access to clean drinking water.

Fully SS Ro Plant

A full SS (Stainless Steel) RO (Reverse Osmosis) plant uses stainless steel components for water purification. It removes impurities through a semi-permeable membrane, ensuring clean, safe drinking water.



RO PET Blowing Bottle Making Machine



Description :

A PET Bottle Blowing Machine is a specialized equipment used for manufacturing PET (Polyethylene Terephthalate) bottles. It works by heating PET preforms to a high temperature, making them soft and moldable. The preforms are then placed in a mold and inflated using compressed air, which causes them to expand into the shape of the desired bottle. The machine can produce bottles in various sizes and shapes, typically used for packaging beverages, cosmetics, pharmaceuticals, and other liquids.

The process typically includes the following stages:

1. **Preform Heating:** The PET preforms are heated to the required temperature in an oven.
2. **Molding:** The heated preforms are transferred to a mold where they are inflated to form bottles.
3. **Cooling:** The molded bottles are cooled to solidify the PET material.
4. **Ejection:** The finished bottles are ejected from the mold and ready for inspection and packaging.

PET bottle blowing machines are highly efficient and can produce bottles at high speeds, making them ideal for large-scale manufacturing. They offer versatility, allowing for different bottle shapes, sizes, and designs to meet various industry needs.

High Pressure Air Compressor

A PET bottle air compressor provides high-pressure air for blowing PET preforms into bottles. It ensures precise molding, consistent bottle shapes, and efficient operation in bottle manufacturing.

High Air Tank

High air pressure refers to compressed air at elevated pressure levels, used in various applications such as PET bottle production, industrial processes, and cleaning, ensuring efficiency and precision.

Air Filter

An air filter in PET bottle production removes impurities like dust, oil, and moisture from compressed air, ensuring clean, high-quality air for precise and hygienic bottle blowing processes.

Ozone Generator

High air pressure refers to compressed air at elevated pressure levels, used in various applications like PET bottle production, industrial processes, and cleaning, ensuring efficiency and precision.

UV Sterilizer

A UV sterilizer in a bottle-making machine uses ultraviolet light to kill bacteria, viruses, and other pathogens. As PET bottles pass through the UV chamber, the light effectively sterilizes their surfaces, ensuring cleanliness before filling.

Air Dryer

An air dryer removes moisture from compressed air, ensuring dry and clean air for industrial applications such as PET bottle production, preventing equipment corrosion, and maintaining product quality.

Preform

A preform in PET bottle production is a molded piece of PET plastic shaped like a test tube. It is heated and blown into a mold to form the desired bottle shape during the manufacturing process.

Chiller Machine

A chiller machine is used in RO plants to cool water or equipment by removing heat through a refrigeration cycle, ensuring optimal performance and maintaining the desired water temperature.

Fully Automatic Blowing Machine

An automatic blowing machine produces plastic bottles or containers from PET preforms. It automates loading, heating, and blowing, ensuring high efficiency, precision, and faster production rates.

Semi-Automatic Blowing Machine

A semi-automatic blowing machine is used to produce plastic bottles or containers by molding PET preforms. It requires manual loading but automates the heating and blowing processes for efficient production.

Semi Automatic Batch Coding Machine

A semi-batch coding machine is used to print batch numbers, manufacturing dates, and other details on products. It requires manual placement of items while the machine handles the coding.

Fully Automatic Batch Coding Machine

An automatic batch coding machine prints batch numbers, dates, and product details on items using automated feeding and coding mechanisms, ensuring high speed and accuracy without manual intervention.

Semi Automatic Labeling Machine

A semi-automatic labeling machine applies labels to products with partial manual assistance, combining precision and efficiency while allow operator control for alignment and positioning.

Automatic label Machine

An automatic label machine applies labels to products efficiently using sensors and conveyor systems, providing high-speed and precise labeling without manual intervention.

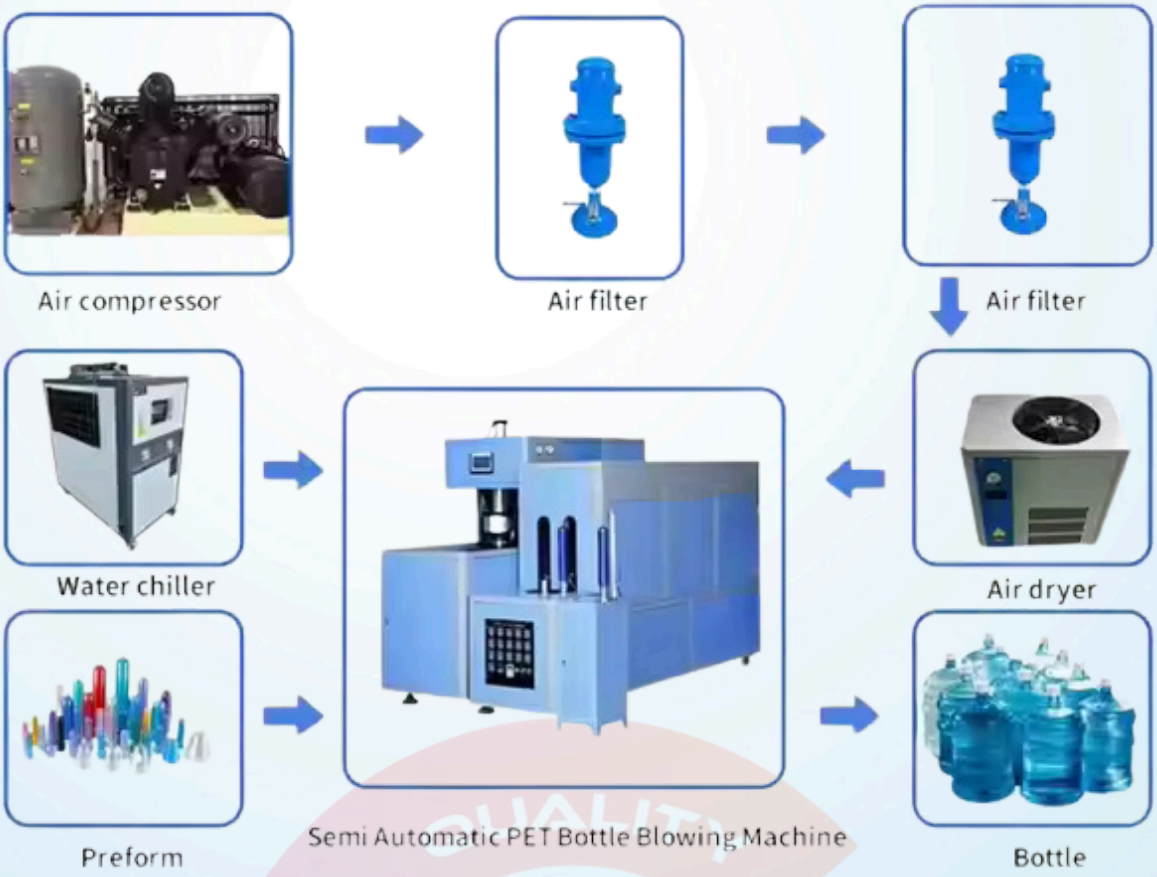
Semi Automatic Shrink wrapping Machine

A semi-automatic shrink-wrapping machine wraps products in shrink film, requiring manual placement of items while the machine handles sealing and heat shrinking to achieve a secure finish.

Automatic Shrink wrapping Machine

An automatic shrink wrapping machine wraps products in shrink film using conveyors and automated systems for feeding, sealing, and heat shrinking, ensuring high-speed and consistent packaging.

Jar Making Machine



Description :

The jar-making machine begins by with injecting molten PET into molds to form preforms. The preforms are subsequently cooled and moved to a heating oven, where they are evenly heated to a designated temperature. This softens the PET, making it pliable for the next step. The preforms are then placed into a blow mold, where compressed air inflates them, shaping them into jars. During this process, the mold is cooled to solidify the plastic, ensuring jar maintains its shape and strength. After cooling, the jar is ejected from the mold and inspected for defects, such as cracks, air bubbles, or uneven wall thickness. Jars may undergo trimming to remove excess plastic or to add features like labeling, tamper-evident seals, or embossing. Once the jars pass quality control, they are packaged for distribution. This precise multi-step process ensures the production of durable, high-quality jars with consistent design, ready for various applications.

Semi automatic jar making Machine

A semi-automatic jars making machine molds plastic jars using preforms. It automates the heating, blowing, and forming processes but requires manual intervention for tasks such as loading and unloading.

Fully Automatic Jar Making Machine

A fully automatic jar making machine automates the entire process of molding, heating, and forming jars from preforms. It requires minimal human intervention, increasing efficiency, precision, and production speed.

Semi Automatic Jar Washing Machine

A semi-automatic jar washing machine uses rotating brushes, water sprays, and a manual or timer-based control system to clean jars efficiently with minimal user intervention.

Fully Automatic Jar wasing Machine

A fully automatic jar-cleaning machine operates with pre-set programs, utilizing conveyor systems, high-pressure water jets, and brushes to clean jars efficiently without manual input.

Automatic Jar Filling Machine

An automatic jar-filling machine automates the entire process of filling jars with products such as liquids, powders, or pastes, thereby ensuring high-speed, precise, and hygienic filling, improving efficiency in packaging operations.

Full Automatic Jar Washing and Filling Machine

A fully automatic jar washing and filling machine integrates jar cleaning, rinsing, and filling processes. It utilizes automated conveyors, water jets, and precise filling systems to Ensure seamless operation.

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