



Equipped to perform

Ready to meet
the challenges of
Pharma Industries



WATER STILL

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The Multi Effect Distilled Water Stills produce distilled Water for Injectable use which meets the requirement of the International Guideline includes USP, BP, IP, and JP. Aryan's Multiple Effect Distilled Water Still design is based on "Thin Falling Film" and Multi-Stage principles ingeniously combined. It has a unique three stage Pyrogen removal system which includes a specially designed centrifugal separation followed by separator. This ensures endotoxin removal exceeding 3 Log Reduction. The plants are manufactured as per the cGMP and ASME Requirements. We offer PLC based operation with all required inter locks. All contact parts are AISI 316 L Stainless Steel. All contact parts to WFI and Pure Steam are electro-polished with state-of-the-Art Technologies. Enough care is taken while designing to avoid any crevices, which cause stagnation and bacterial growth. Available standard sizes are 80, 150, 300, 500, 750, 1000 lph





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PURE STEAM GENERATOR

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Aryan's Pure Steam Generators are designed to fully comply with current Good Manufacturing Practices (cGMP) and ASME. As per cGMP it is recommended to use Pure Steam in place of filtered Plant Steam. This steam is used for all in-situ sterilization of vessels, Autoclaves and Piping Distribution system. Condensate of Pure Steam meets all pharmacopoeial requirement of WFI like USP, IP, BP, JP. We can offer newly developed system for removal of Non Condensable Gases before pure steam produced. . . We offer PLC based operation with all required inter locks. All contact parts are AISI 316 L Stainless Steel. All contact parts to WFI and Pure Steam are electro-polished with state-of-the-Art Technologies. Enough care is taken while designing to avoid any crevices, which cause stagnation and bacterial growth. Available standard sizes are 100, 150, 300, 500, 750, 1000 Kg/Hr.



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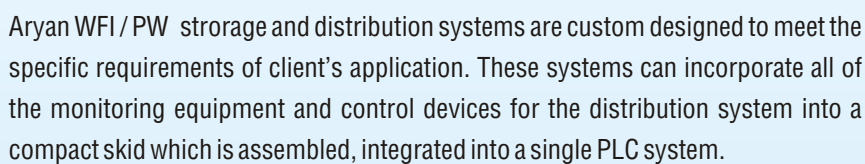
WFI / PW STORAGE TANK

WFI / PW STORAGE TANK

Aryan's WFI / PW tanks are engineered specifically for the special needs of the pharmaceutical and biotech industry. They consist of a Type 316L stainless steel vessel and Standard sanitary clamp-type connections include an outlet connection, inlet connection, vent connection, pressure gauge connection, upper and lower level connection, temperature thermowell connection, and a spare connection. An aseptic manway, and a sprayball for interior CIP/SIP. The vessel and all components are fabricated to the requirements of cGMP & ASME. Custom fabrication is also available as per client's requirement.. Interior surfaces are mechanically polished and then electropolished to maintain optimum sanitary conditions. Custom fabrication is also available as per client's requirement..



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CIP UNIT

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Cleaning in Place or CIP systems are widely used in the pharmaceutical, biotechnology industry & food industries to clean and decontaminate tanks, reactors, decanting pumps, and transfer lines etc. The process of manufacturing and handling various biological solutions and mixtures necessitates cleaning and sterilizing these equipments from time to time as they are susceptible to contamination. Proper CIP integration with pharmaceutical equipment is very important for the overall success of the operation. These equipments reduce the requirement for labour and minimise the cleaning time. CIP system ensures improved hygiene and sanitises more effectively than manual cleaning.





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SIP UNIT

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Safety is big concern in the pharmaceutical industry and products are manufactured under strict aseptic conditions in compliance with statutory requirements. Steam-in-place or SIP system is widely used for in-line sterilization of various processing equipments & transfer lines. The process of manufacturing and handling various biological solutions and mixtures requires cleaning and sterilizing these equipments from time to time as they are susceptible to contamination. Proper SIP integration with pharmaceutical equipment is very important for the overall success of the operation



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PENDANTS



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The Pendant is designed to facilitate various services (WFI / DM water piping loops, electrical cabling, steam / chilled water lines, nitrogen / LPG lines, process media lines, compressed air line) to be brought into the sterile area or working area in a close nesting manner, so as to provide easy access to services. Aryan's pendants are designed to take mainly Water, Steam, electrical cable and gases housed in four segments of the Pendant, isolated and independent of each other. To maintain the sterile parameter of a given area pendant enters by penetrating the false ceiling in to the area.



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HORIZONTAL PLATE TYPE FILTER PRESS

The Aryan's Reverse Flow Model filter press is designed for polishing and for security filtration of liquids with limited solid contents. Design features include: Maximum cake stability, Ability for intermittent operation, Complete recovery of product, No unfiltered hold-over, and Perfect sealing of filter media by tie rod compression at center and periphery of all filter plates. Complying cGMP norms, Modular structure, Top Dom construction for easy removal of cartridge assembly. It is compatible with any kind of filter media and all types of filter aids. Even distribution of cake assuring economical operation and uniform clarity. All Horizontal Filter Press Vessels can be supplied with a heating or cooling jacket. Available size are 8", 14", 18", 24". They consist of Type 316 / 304 stainless steel.

HORIZONTAL PLATE TYPE FILTER PRESS





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HEAT EXCHANGER

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Shell and Tube heat exchanger is widely used in industries considering its merits, such as reliable and Simple structure, strong adaptability, convenient cleanout, large Processing quantity, bear high temperature and pressure, etc. It is easy to install. Aryan's Heat Exchangers are designed considering the special needs of the pharmaceutical and biotech industry. We can provide double tube sheet heat exchanger also. Aryan's Heat Exchanger Compliance with ASME, BPE, TEMA standards.





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ORAL LIQUID MANUFACTURING PLANT

Oral Liquid Manufacturing plants are used for syrup manufacturing in various industries like Pharmaceutical, Food, Beverages and consist of Sugar Dissolving Vessel, Liquid manufacturing vessel, Filter Press and Storage Vessel to ensure a smooth and thick consistency syrup. Both manufacturing tanks are jacketed for heating and cooling and are manufactured to withstand internal vacuum. This manufacturing plant can be equipped with a vacuum system. These vessels are connected by pipeline having filters Press to ensure clarity and uniformity.

ORAL LIQUID MANUFACTURING PLANT



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PRESSURE VESSELS/STERILE FILLING VESSELS

These vessels are engineered specifically for using the Membrane filtration system. Pressure vessels are used to transfer the product to the membrane filter under Nitrogen pressure, While Sterile filling vessels are used to collect the filtered sterile solution. They work as holding vessels in the product filling room. They consist of a Type 316 L stainless steel. The vessels are autoclavable and available capacity ranges from 10 to 300 liters with mobile trolleys.



PRESSURE VESSELS/STERILE FILLING VESSELS





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SS FURNITURE

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Aryan's Furniture are designed to meet the special need of Pharmaceutical and Food industries considering the cGMP requirements. We make SS Trolleys, Trays, Bins, Crossover Benches, Racks, Tables, Stools etc. All are consist of Type 316 / 304 stainless steel. We also Provide Ampoules/vials Trays and Liquid Samplers.

