NASS TECH
INTEGRATED PROJECTS S.A.E

FOOD & BEVERAGES

Water Solutions & Stainless Steel Distribution Systems

www.nasstech-eg.com

THE COMPANY

Nass Tech specialized in the field of water treatment technologies, stainless steel fabrication and distribution systems. Our business is to meet our client industrial applications for Food & Beverages industries which depend on hygienic standards.

Nass Tech always provides its clients innovative solutions through engineering designs and implementation in conformity with the highest quality specifications, as well as services in a professional manner by a group of specialized technical expertise.

Nass Tech was founded in 2004 & become a leading company in its business; our vision is not only to maintain this level of excellence, but also plans to reach a unique position in our field.

TURN KEY SYSTEMS

Nass Tech provides turn-key systems for Food & Beverages industries, Systems are accordance FDA requirements & In compliance with international standards.

Filtration

Different types of filtration systems as Multimedia Filter, Activated Carbon Filter, Birm Filter, Green Sand Filters, Self Cleaning and Ultra Filtration with material of construction poly glass, epoxy coated steel or stainless steel, with manual or automatic control.

Filtration systems can be used as separated solution or as a part of pretreatment of reverse osmosis (RO) systems and its design depends on chemical analysis of raw water.

Reverse osmosis (RO)

RO is one of the most commonly technique used in water treatment for food & beverages industrial applications with a main role to reduce dissolved solids.

Effective pretreatment should be applied before RO unit to increase efficiency and life time of membranes.

Design of pretreatment & RO systems depend on type of raw water and its chemical & micro biological analysis.

Pure Steam Generators

The assembly of pure steam generators can vary depending on the respective application, In general the degree of capacity, peak volume & the pressure range.

Storage & distribution systems

Process Water storage & Distribution systems consist of Tanks, Tubes, Valves, Sanitary Pumps, Heat Exchangers and instrumentation, with material SS 304 or SS 316 L available as ASME BPE (SF1 & SF4), also distribution systems for Gases and CIP.

Cleaning / Sterilization In Place (CIP / SIP) systems

CIP / SIP systems for liquid, semi liquid & solid production processes for cleaning & sterilization tanks & production lines between batches.

- Mobile or fixed central system
- Fully drain or closed system

Special Process Systems

Systems as Membrane Water, Column Water & Vacuum Product De-aeration, Adjustment of Milk Fat Content, Carbonation, De-Carbonation, Nitrogenation, Multi Component Mixing, Additive Dosing, Product Sterile Filtration, Flash Pasteurization or Dealcoholization can be supplied.

Water Softeners

Removal of water hardness in feed water for boilers, chillers & cooling towers is done by softeners to prevent scale formation

Softeners are Automatic Single or duplex.

Industrial waste water Treatment

Industrial waste water from washing & labs is not conformity with environmental standards, so it should be treated by Physical / Chemical or Biological processes.

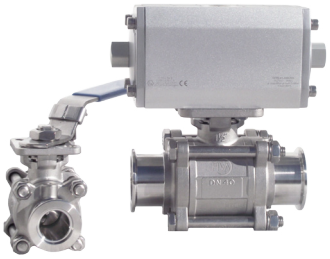
Design of Industrial waste water treatment plants vary according to Chemical analysis of waste water.

All systems are fully automated PLC with HMI, Scada or Visualization on PC.
Nass Tech Performs validation & issues all technical documentation for systems.

PRODUCTS

Tubes, Pipes & Fittings

Sanitary stainless steel SS304 & SS 316 L tubes, fittings, connections & accessories with different surface finish (Bright or finished / Electro polished) with roughness 0.38: 0.8 micron & size 0.5: 6 inch according to ASME & ASTM standards. Nass Tech provides other non standard customized products.
Tubes & Fittings are available according to Imperial, ISO DIN, Metric DIN, 3A, SMS, BS & AS Size Standards.
All Tubes & Fittings are certified



Valves

Sanitary stainless steel SS304 & SS 316L manual & automatic valves according to ASME & ASTM standards

- Butterfly valve
- Diaphragm valve
- Check valve
- Ball valve
- Angle seat valve
- Stop & reversing valve
- Tank bottom seat valve
- Double seat mix proof valve
- Safety valve
- Sample valve

Hygienic pumps

Hygienic pumps according to GMP & FDA standards which are available as centrifugal or positive displacement pumps with material SS 316 L & roughness 0.4: 0.8 micron for liquid & high viscosity fluids, operating temperature 120 °C & sanitizable at 135 °C.

Heat exchangers

Heat exchangers are with materials SS 304 or SS 316 L and roughness 0.4: 0.8 micron according to GMP & FDA requirements for heating, cooling or combined duty.
Heat exchangers are available as shell & tube, plate, annular space or scrape surface.

Disinfection units

Disinfection units for water are according to FDA requirements as UV units and Ozone generator.

Cartridge filters

Cartridges filter & capsules in a wide variety of formats & lengths for liquids, gases & vent applications, also filters housing SS 316 L or SS 304 with roughness 0.4: 0.8 micron
Selection of products is due to fluid to be filtered & process conditions, Filters are certified with integrity test.

Membranes & Housing

RO & UF Membranes in compliance with FDA standards, in a wide variety of formats & diameters, also SS 316 L, SS 304, FRP or UPVC Pressure Vessels
Selection of products is due to type of water & process configuration.

Instruments

Sanitary instruments in Food & Beverages industries are necessary for Measurement & Control of Flow, Pressure, Level, Temperature, Water parameters & Proccess parameters accordance to FDA requirements.

Media & Chemicals

Ion exchange resin, Filtration media and Chemicals for water treatment, disinfection and metals surface treatment are in compliance with FDA requirements.

ENGINEERING SERVICES

Technical & Engineering Consulting

Validation, Documentation & Qualification

Welding

- Automatic Orbital welding
- Manual welding

Metal Surface Treatment

- Pickling & Passivation
- Derouging
- Degreasing
- Decontamination

Training & After Sales Services

PARTNERS

centec

DECKWEILER
TUBE SYSTEMS IN STAINLESS STEEL

HRS
heat exchangers

Labom
MEASUREMENT TECHNOLOGY

HENKEL
Beiz- und Elektropoliertechnik

AMAZON

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