

السلامة للصناعات الهندسية Salama Engineering Industries





ABOUT US

Salama Engineering Industries is a specialized heat transfer equipment manufacturer and the exclusive agent for TRANTER (Global) PHE (sales and services) in the Kingdom of Saudi Arabia with headquartered in Dammam.

With over two decades of experience in designing, developing, and manufacturing, heat exchangers for the Oil & Gas, Petrochemical, and HVAC sectors.

Salama is powered by fully integrated, manufacturing facilities with a dedicated team of professionals trained with the latest skills to meet all our divisions:

- 1- Dammam Second Industrial City facility for manufacturing and servicing of Process equipment and plate heat exchanger divisions.
- 2- Dammam first Industrial City facility for manufacturing and coating of HVAC-R Coils division.

We are a strong dynamic and competitive company. Our division's products are installed at sites and in applications all over KSA. This ranges from small systems to larger complex applications (Onshore& offshore) and specialized Industrial Processes.

We have expertise in Engineering, Manufacturing, and Servicing of shell and tube heat exchangers, Fin fan coolers, Air coolers, Oil coolers, Compressor inter stage coolers, HVAC coils (Condenser coils, AHU & FCU coils, Evaporator coils, and Steam coils).







OUR DIVISIONS



PROCESS EQUIPMENT DIVISION

PRODUCTS

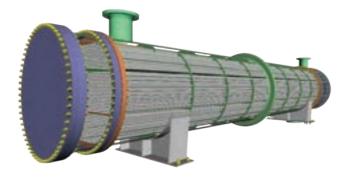
Shell and Tube Heat Exchangers

We are capable of manufacturing shell and tube heat exchangers with high quality and extensive material options i.e., CS, SS, Duplex, Super Duplex, Inconel, and titanium. Our design and fabrication facilities offer fast, efficient, and cost-effective solutions. We have in-house thermal and mechanical design experts. Our automatic tube sheet drilling equipment is accurate to ± 0.01 " and up to 400mm thickness drill capacity.

We offer all standard TEMA configurations i.e. BEM, AEN, AES, NEN, BKU and BEU types are designed in accordance with ASME Code, Section VIII, Division 1 & 2 and TEMA requirements. Shell sizes range from 4" up to 250" in diameter with up to 75mm thick. and design including internal & external pressure loading as per UG - 22 requirements, with compliance with customer requirements.



- Fixed Tube Sheets Heat Exchangers
- Floating Head Tube Sheet Heat Exchangers
- U-Tube Heat Exchanger
- Kettle-type Re-Boiler
- Coaxial Tube Heat Exchangers
- Fin Tube Heat Exchangers





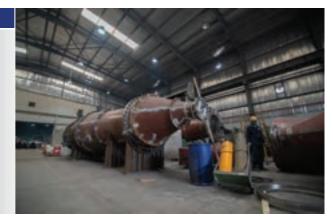


Pressure Vessels

We provide a wide range of pressure vessels adhering to stringent quality and safety standards for a diverse selection of clients in the oil & gas and petrochemical industries, including:

Design ASME SEC VIII Div 1 & 2, material as per ASME SEC II, manufacturing, and fabrication & Detailed Engineering in Horizontal / Vertical Design.

- Pressurized Air Receiver
- Separators, Receivers and Condensers
- Knockout Drums
- High-Pressure Production Trap
- Scrubber Drums
- De-Cock Drums



Shop Fabricated Tanks

We have an in-house engineering and fabrication facility where we're able to provide custom-designed storage tanks with various material options like stainless steel, carbon steel, alloy metals, and aluminum alloy for specific one-time or repetitive applications as per the customer requirements and specifications to ensure safety and excellence.

Our customers represent a wide range of industries - Oil & Gas, Petro Chemicals, Power, Chemical, Plastic, etc.

The range of tanks we are Providing in this region:

- Flat bottom / Sloping Bottom with Conical Roof / Flat Roof.
- Silos & Hoppers.



Fin Fan Coolers and Customized Industrial Air Coolers

Through advanced computer-aided design models and manufacturing techniques, our custom capabilities are unmatched in our industry.

Our fin fan coolers include radial and helical finned tubes with variable material options and optimized design, enabling added heat exchange capability.

We are providing retubing, cleaning, and combing of fin tubes, and header weld build-up for tapped plugs At the Site or In-house, as per customer requirement.

We offer custom-designed air-cooled system, that enhances optimum efficiency, performance, and improved reliability for electric motor applications, to overcome heated electric motors that can be inefficient, less effective, and sometimes dangerous when pushed to extremes.



Piping Spool Fabrication

We are equipped with various types, sizes, and orientations of piping spool fabrication. We fabricate pipe spools for various applications in oil, gas, petrochemical, and water lines.



Skids

Salama Engineering Industries provides chilled water-cooling skids, chemical dosing skids, cooling, and heating water injection systems for various industrial applications.

Skids are designed, engineered, fabricated, assembled & tested under one roof at our Facility.



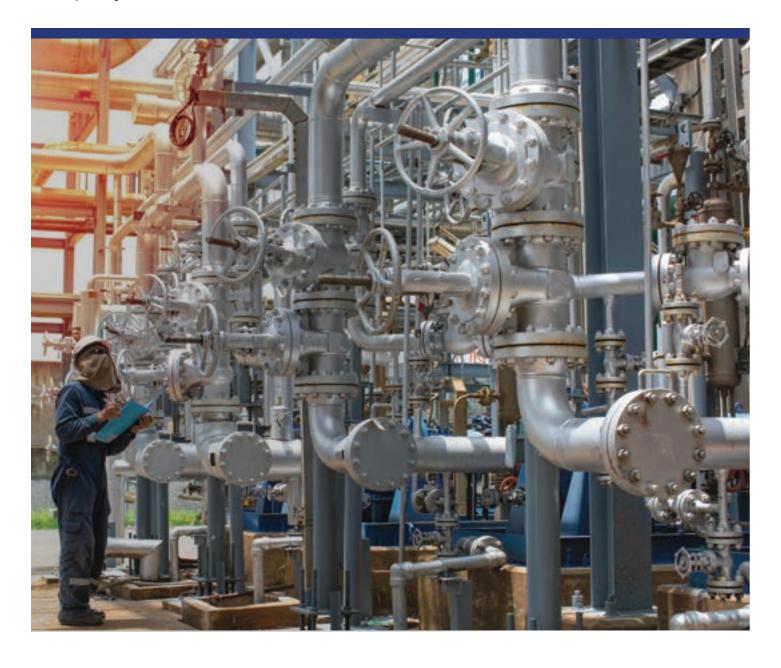
SERVICES

Installation & commissioning

Our team consists of experienced professionals managing installation and operational maintenance activities.

Our technical team possesses extensive field experience and is highly trained in their particular field of expertise.

All our fabrication and repair work including all equipment has been followed in accordance with "Approved design, specifications, applicable codes, regulations, and stringent engineering practices. The commissioning includes an operational pressure test range for equipment, which will be approved by the end user to ensure safety, and quality while in service.



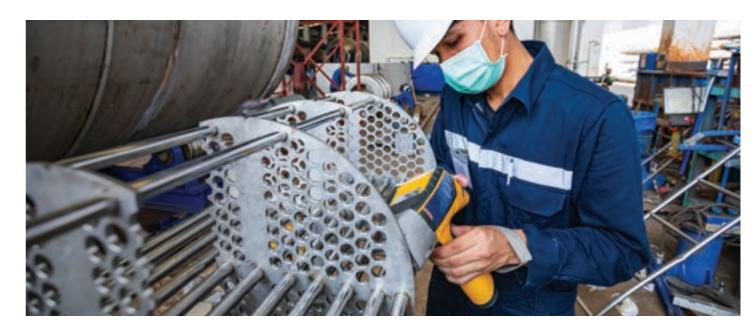
Inspection

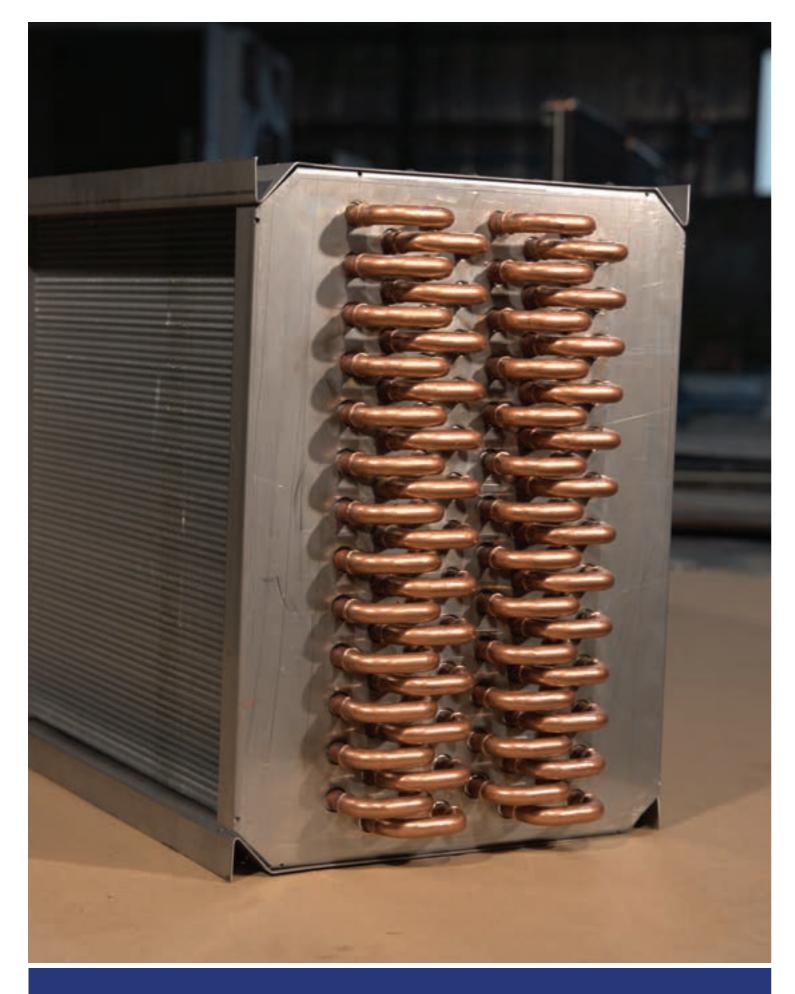
Our services start with an inspection, after which we can recommend the best course of action when it comes to repairing, cleaning, or servicing the process equipment. Once the inspection is complete, we will carry out the course of action following applicable standards to ensure the problem will not be detected in the future.



Re-Tubing

Heat exchanger retubing servicing has been at the core of our business. With our years of experience and a range of services, we are providing complete retubing, partial retubing, tube extraction, and bending services for shell and tube, fin fan cooler..etc, at Site and In-house based on customer requirements.





HVAC/R COILS DIVISION

Salama Engineering Industries is a pioneer in manufacturing HVAC coils in the KSA. With our specialization in manufacturing, installation, and anti-corrosion coating, we offer a diverse range of top-quality coils for various HVAC and industrial applications.

At Salama, we take pride in our ability to design and produce comprehensive varieties of HVAC coils that are tailored to our customer's unique requirements. Our decade of expertise enables us to deliver customized solutions that meet the highest industry standards.

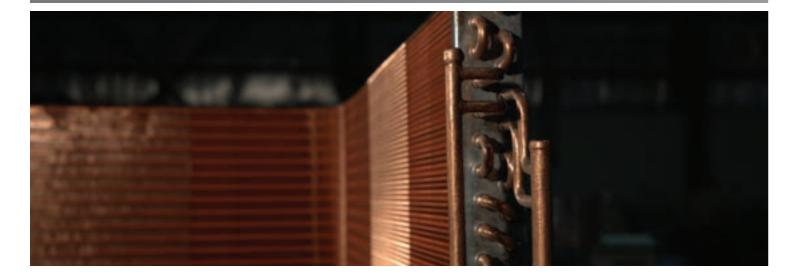
What sets us apart in the KSA market is not only our impressive prices but also our commitment to providing high-caliber products and exceptional installation support. We understand that every project is unique, and we strive to offer customized solutions that exceed expectations.

Salama Engineering Industries is trusted for its reliability, competitive prices, and outstanding customer service. We continuously work towards innovation and excellence to ensure that our clients receive the best products and services.



PRODUCTS

- Condenser Coils
- Direct Expansion (DX) Coils
- AHU Chilled Water Coils / FCU Coils
- Bend Coils
- Heat Pipes



Condenser Coils

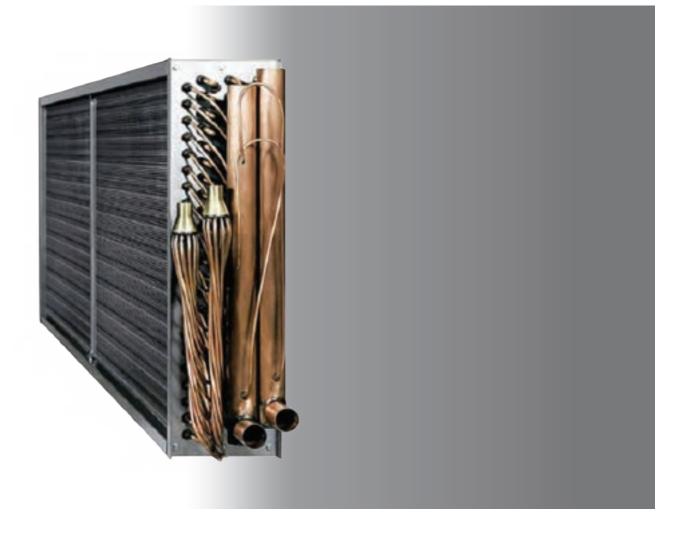
We design and manufacture coils with different types of fins and tube materials with various thicknesses. Mostly copper, aluminum fins, and pre-coated aluminum fins are being used. Different types of refrigerants (Condenser and Evaporator coils), liquids (Chilled water/glycol coils and Hot water/glycol coils), fluids (Steam coils and air charge coils)



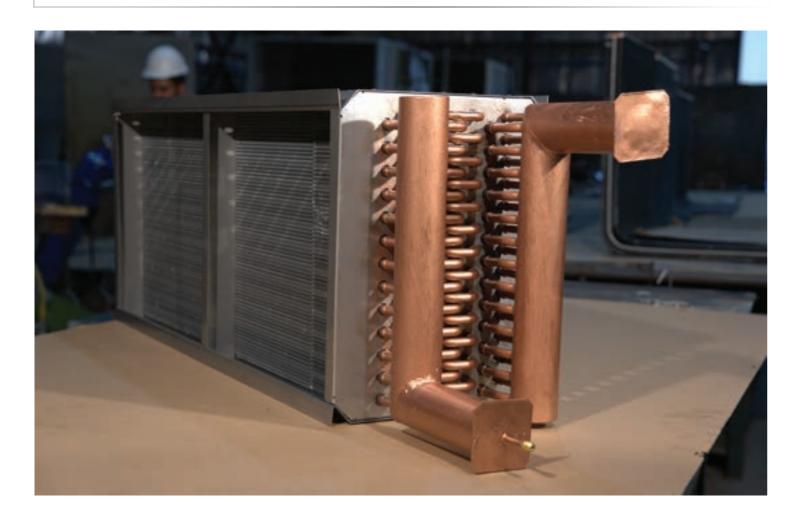
Direct Expansion (DX) Coils

We design and manufacture Evaporator
(Direct Expansion – DX) Coils for HVAC
equipment. Singles and dual/quad
compressor circuits are available. We can
supply all types of rows as well as interlaced
circuiting, which provides the highest
precision in capacity control
We design coils with special connectors,
distributors, and frameworks designed to
meet the customer's requirements. Our
unique

interlaced circuiting options assure
uniform refrigerant distribution over the
entire face area of the coil. Wide fin
spacing availability reduces the effect of
frost build-up on low-temperature
applications. Standard or custom-built
direct expansion cooling coils
(evaporators) are manufactured for a wide
variety of applications.



AHU Chilled Water Coils / FCU Coils



We design and manufacture AHU/FCU Coils for HVAC equipment. CHW and DX types of AHU/FCU coils can be manufactured. All our coils are designed as per AHRI-certified selection software. This ensures our customers receive optimum performance for size characteristics, helping to deliver cost-effective solutions.

With our wide ranges of fin patterns, tube sizes & patterns, coils can either be uniquely designed to maximize performance at minimal cost or designed as a direct replacement unit without affecting existing client designs. Air Handling Units (AHU), Fan Coil Units (FCU), Heat Recovery Systems (Run-around coils), Air-cooled Condensers / Air-Cooled Chillers.

Bend Coils

We design and manufacture bend type Coils for HVAC equipment with different types of fins and tube materials, and designs with various thickness. Mostly copper, aluminum fins and pre-coated aluminum fins are being used to assemble these coils based on their functions and applications.



Heat Pipes

Salama has the capability to design, manufacture and install the Heat pipes. Salama's HRHPs are designed to be hassle-free with 'plug and play' technology. Heat pipes are passive devices without moving parts. The fins shall be of the rippled or louvered type to suit the application. Tubes shall be of refrigeration standard seamless copper and options for external fins shall be of aluminum and Copper.



HSHP (HORSESHOE HEAT PIPE)

Salama's horseshoe heat pipes are wrapped around the cooling coil, with one part of the Heat pipe (Pre – Cool) in the return air stream and other part (re-heat) in the supply air stream. Warm incoming air is initially pre-cooled by the precool section of the heat pipe.

The air then passes through the cooling coil which extracts more moisture content.

On next, the air passes through the re-heat section of the heat pipes to reheat the air where humidity is pulled down to the desired condition.



HRHP (HEAT RECOVERY HEAT PIPE) Vertical & Horizontal Orientation

Salama Heat pipes are also used to recover energy between supply and exhaust air streams and can be installed in AHUs or in duct-mounted.

installations vertically or horizontally.

HRHP Works on zero potential without any moving parts.



SERVICES

Installation & Commissioning

Salama Engineering has dedicated professional, trained engineers and technicians having vast experience in retrofit projects capable of replacing HVAC coils for various air conditioning equipment and chillers. Whole steps are controlled under the supervision of a quality engineer ensuring proper commissioning according to OEM recommendations also third-party inspection, where required.



Coatings



We offer several types of Protective Coatings to enhance the life of its coils including Condensers and evaporators which include,

- Here site
- Blygold
- Hydrophilic

These coatings have High Durability and Protective Factors to deal with the severe Gulf Region Atmospheric changes, onshore as well as offshore.



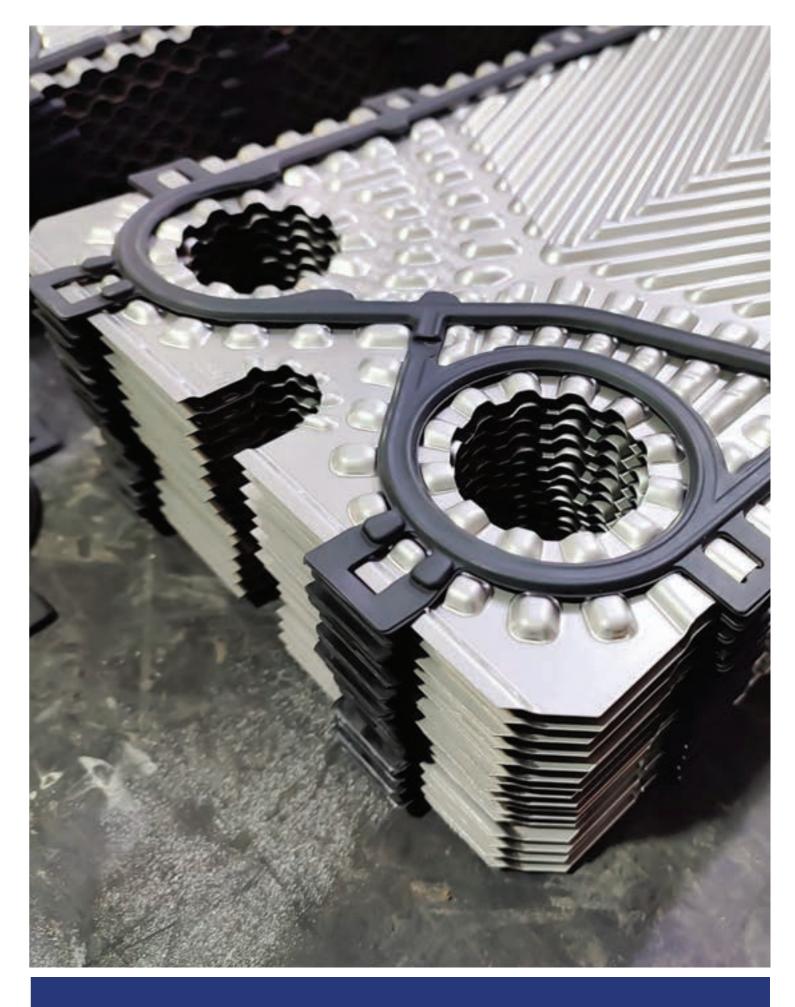


PLATE HEAT EXCHANGERS DIVISION

Salama Engineering is the Exclusive Agent for TRANTER International AB, Sweden,
Tranter Inc, USA and Tranter India to Supply new units, Spares, Technical and Service
support

Tranter is an American-based global manufacturer of gasketed and welded plate heat exchangers.

Tranter research and development (R&D) for heat transfer plates is located in Wichita Falls, US, as well as another group in Pune, India; both have access to a fully equipped laboratory.

Tranter Plate heat Exchangers are operational in Saudi based in Oil & gas, Petro Chemical, Steel, Power Desalination, Mines, Marine and many other industries more than decade.

Tranter design the unit according to ASME and PED. AHRI Certified for HVAC projects.



PRODUCTS

SUPERCHANGER Gasketed Plate Heat Exchangers:

Flow range up to 4600 M3/hr

Max. working Pressure up to 25 bar

Temperature range -40 to 180 Deg C

Connection size from 25 to 500mm

SS304 / SS316 / Titanium / SMO 254 /HAST C / Nickel / Ti.Pd Plates

NBR / EPDM / Viton gaskets

Double wall Plates for application is vital that media are not mixed.

Wide gap Plates for fiber and particle-rich fluids



SUPERMAX Shell & Plate Heat Exchanger:

Flow range – Tailor made for any flow rate

Max. working Pressure up to 100 bar

Temperature range -195 to 900 Deg C

Connection size from 25 to 700mm

SS304 / SS316 are Standard plates

Titanium / SMO 254 /HAST C / Nickel / Ti.Pd Plates on request depending on application.



NovusBloc Welded Plate Heat Exchanger:





Flow range – Tailor made for any flow rate.

Max. working Pressure up to 42 bar.

Temperature range -50 to 375 Deg C.

Connection size from 150 to 1000mm.

SS304 / SS316 are Standard plates.

Titanium / SMO 254 /HAST C / Nickel / Ti.Pd Plates on request depending on application.

SERVICES

Installation and Commissioning

Our execution team capable of Plate heat exchangers installation and commissioning according to the OEM manual/recommendations.

We can Supply Interconnecting piping and Isolation valves to connect field connections where needed.

Inspection and Evaluation

Our technical team trained to evaluate Plate Heat Exchangers operational problems, Troubleshooting based on application, supporting clients with optimum technical solutions.

Sourcing and Supply parts

We offer parts from OEM for Tranter and other reliable multi-brands of Plate Heat Exchanger parts based on customer demand and application.

Chemical Cleaning

We offer chemical cleaning for Plate Heat Exchangers with appropriate cleaning chemicals based on operating fluid.

Chemical cleaning by circulation process (CIP) for Plate Heat Exchanger is also available to clean the units in place.

Mechanical Cleaning

We offer Mechanical cleaning for Plate Heat Exchangers including opening of the unit at site, Initial Pressure jet washing, Manual brushing and Chemical dipping depending on fouling condition.

Re-Gasketing









CAPABILITIES

ENGINEERING

At Salama Engineering Industries, our exceptional technical staff, trained in the thermal, mechanical, and metallurgical disciplines, combine design experience, ingenuity, and flexibility with the latest in computer-assisted design capabilities. Each component and sub-component is modeled and evaluated by our experts.

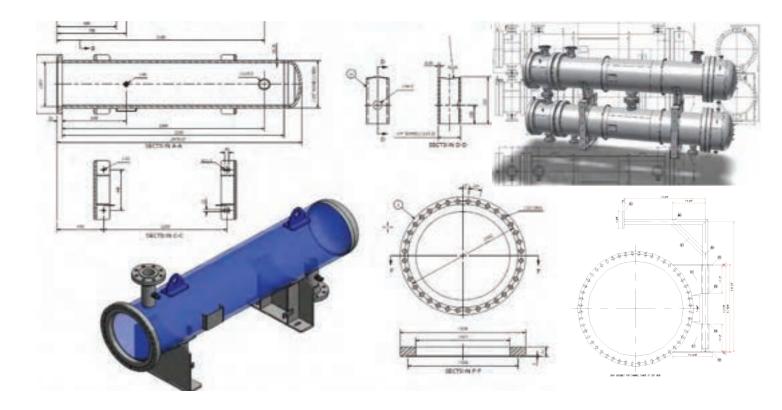
This facility allows us to eradicate at the design stage any possibility of production problems when issued to the factory.

For our Process Equipment division, our design team consists of highly qualified engineers with extensive experience in thermal and mechanical design. They utilize the most renowned and applicable engineering softwares PV-Elite, HTRI, ANSYS, AutoCAD, and Solid Works. With our expertise,

we ensure that our engineering solutions meet the specific requirements of various applications in the oil & gas, petrochemical, and power generation sectors,

For the HVAC division, our design experts use applied standalone software that provides the most accurate and speedy coil selection allowing us to interface variable performance parameters to come up with a design that technically and financially meets our customer needs.

For the PHE division, Tranter is an OEM for heat exchangers and designs all equipment to meet most of applications and various media with a wide range of Gasketed plate heat exchangers and Welded Plate Heat Exchangers according to ASME, PED, API 662 and other international codes and Standards.



QUALITY ASSURANCE

Salama Engineering's quality assurance and quality control team is comprised of qualified and experienced team following high-quality international standards in Manufacturing, Servicing and inspection of all division's products. We are committed to total customer satisfaction by striving to ensure Continual Improvement in Quality Management System.

We have been awarded internationally with top reputed certifications which reflect our commitment to applying the best quality standards including:



AHRI CERTIFICATES

[Air Conditioning, Heating & Refrigeration Institute]



Certificate of Product Ratings

AHRI Certified Reference Number: 212603037 Date: 06-13-2023 Model Status: Active

Brand Name: SALAMA ENIGNEERING INDUSTRIES

Model Number: CW1/2/H&C/W/12.700/31.750x27.500/Smooth/Plate-Configurated

Coil Line Designation : CW1/2

Function: Cooling and Heating (H&C)

Fluid Type: Water (W)

Tube Outside Diameter: 12.700

Does this coil require a header? : Yes

Header: 0.875;1.125;1.375;1.625;2.125;2.625;3.125;4.125

Certified Rows Range Minimum: 1
Certified Rows Range Maximum: 24

Tube Spacing across Coil Face (Stf) X Tube Spacing between Coil Rows (Str): 31.750 X 27.500

Tube Internal Construction : Smooth

Manufacturing Location : Saudi Arabia

Fin Configuration : Plate-Configurated

3.

Ratings generated using the following shall be in accordance with the latest edition of AHRI Standard 410 Forced-Circulation Air-Cooling and Air-Heating Coils and subject to rating accuracy by AHRI-sponsored, independent, third party testing.

Software Name : Applied Engineering Solutions

Software Version: Version 12.42 2023

†"Active" Model Status are those that an AHRI Certification Program Participant is currently producing AND selling or offering for sale; OR new models that are being marketed but are not yet being produced. "Production Stopped" Model Status are those that an AHRI Certification Program Participant is no longer producing BUT is still selling or offering for sale.

Ratings that are accompanied by WAS indicate an involuntary re-rate. The new published rating is shown along with the previous (i.e. WAS) rating.

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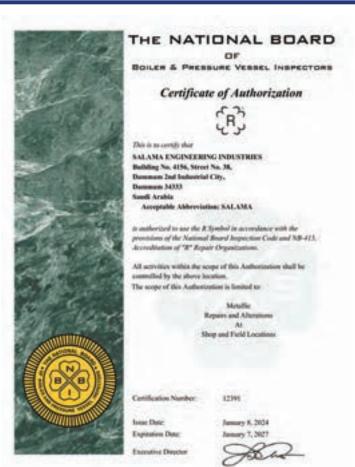
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CERTIFICATE NO: 133311754122308082

ASME STAMP ACCREDITATIONS









The American Society of Mechanical Engineers

CERTIFICATE OF AUTHORIZATION

The namely company is authorized by The American Society of Machanical Expressis (ASME) for the scope of activity shows believe on continues with the applicable rides of the ASME Solice and Procisioner vices Code. The use of the ASME Single Cartification Mark and the authority granted by this Cartificate of Authorization are subject to the previously of the agreement set forth in the application. Any conduction stronged with the ASME Single Cartification Mark shall have Soon built trinsity in accordance with the provisions of the ASME Single Cartification Mark shall have Soon built trinsity in accordance with the provisions of the ASME Single Cartification Mark shall have Soon built trinsity in accordance with the provisions of the ASME Single Cartification Mark shall have Soon built trinsity in accordance.

CAMPANY

SALAMA ENGINEERING INDUSTRIES Building No. 4156, Street No. 38 Dammare 2nd Industrial City Dammare 34518

SCOPE

Manufacture of Class 1 and Class 2 pressure vessels at the above location and field alter controlled by the above location

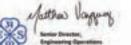
AUTHORIUM

January 18, 2024 January 18, 2027

CONTROL NUMBER:

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The American Society of Mechanical Engineers

CERTIFICATE OF AUTHORIZATION

The named company is authorized by The American Society of Mechanical Engineers. (ASME) for the scope of activity shown betwe in accordance with the applicable rules of the ASME Boller and frequence tested Code. The use of the ASME Single Certification Mark and the authority granted by this Certificate of Authorization are subject to the previously of the agreement set forth in the application. Any construction stamped with the ASME Single Certification Mark shall have been built strictly in accordance with the provisions of the ASME Bolter and Pressure Vessel Code.

COMPANY

SALAMA ENGINEERING INDUSTRIES Building No. 4156, Seven No.18 Dumman 2nd Industrial City Dumman 2ASS Saudi Arabis

SCORE

Manufacture and assembly of power boilers at the above isocation and field obes controlled by the above isocation

AUTHORUTO:

January 18, 2024

COVIES IMMER 61316

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Sofathan Vaggury

Health, Safety and Environment "HSE"

Salama Engineering Industries, being a 45001 and 14001 ISO-certified company has developed a strong and positive Health, Safety, and Environmental culture. Meet its legal duty to protect the health and safety of all employees and workers and consider the adverse effect of each activity on the environment.

HSE programs have been established to strengthen the understanding, implementation, and commitment of all employees and workers within the organizations.

We ensure protection, not only for our employees and workers but also for our clients and partners by ensuring compliance with both local and international HSE standards.

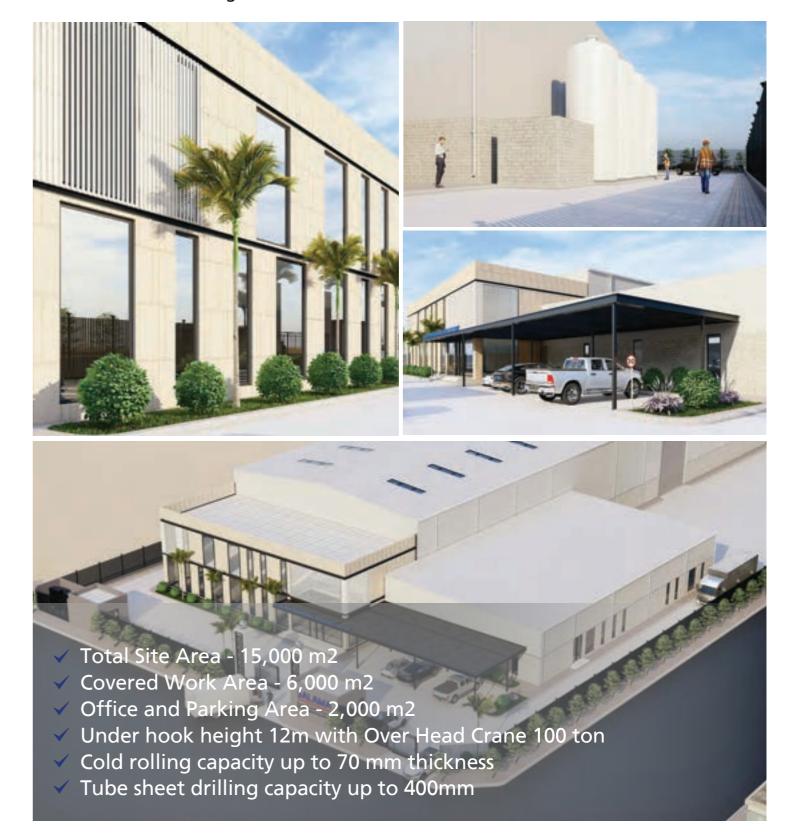




FACILITY INFORMATION

Process Equipment Facility - Dammam second industrial area

The headquarters is in Dammam, KSA. Salama is powered by a 15,000/- sq. mt. fully integrated manufacturing facility in the Dammam Industrial City 2 for Process equipment and Plate heat exchangers divisions.



HVAC/R Coils Facility - Dammam first industrial area

Salama is also powered by a 5,000 sq. mt. fully integrated, manufacturing and coating facility for HVAC/R Coils in the Dammam Industrial City 1 with a dedicated team of professionals trained with the latest skills in HVAC coil manufacturing, coating, replacement, and maintenance.

- ✓ Total Site Area 5,000 m2.
- ✓ Covered Work Area 2,500 m2.
- ✓ Office Area 500 m2.
- ✓ Under hook height 8m with Over Head Crane 20 tons.
- ✓ CNC Turret Machine, Fin press, Bending Machine, Expanding Machine, Shearing Machine, Tube Cutting Machine, Tube hole cutting Machine, Vertical Expander Machine, Hairpin bender Machine.

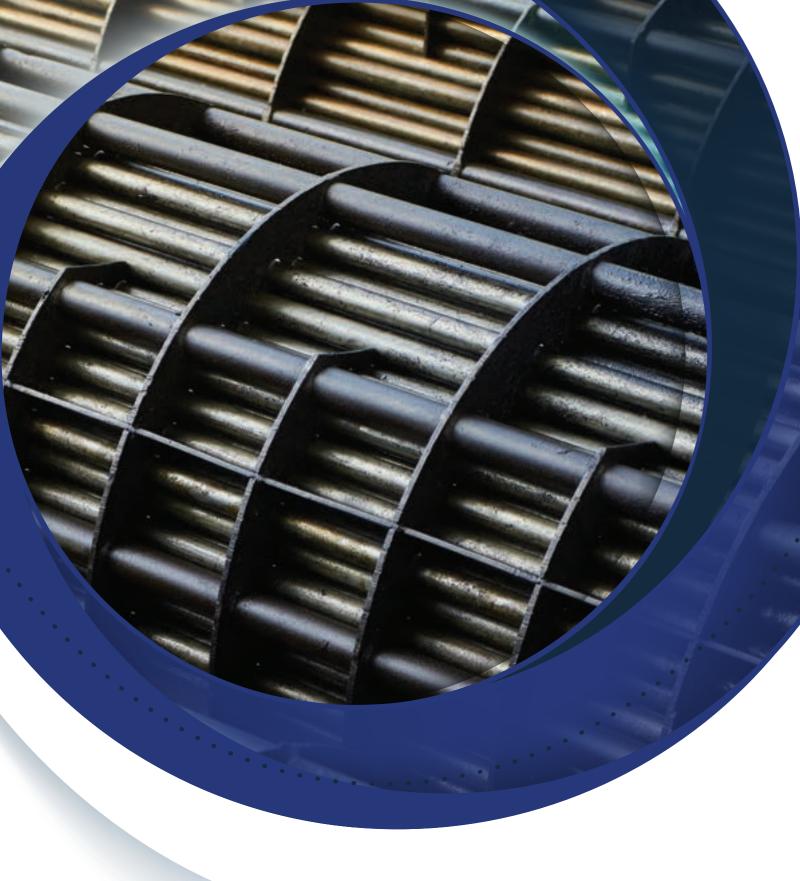


Servicing Facility-Jubail

Salama is also powered by a 2,500 sq. mt. facility in Jubail dedicated to servicing of plate type heat exchangers (PHE) and providing supporting services for process equipment i.e. retubing and medium-scale fabrication and welding activities will be carried out.

- ✓ Total Site Area 2,500 m2
- ✓ Covered Work Area 1,000 m2.
- ✓ Office Area 500 m²





HEAD OFFICE

First Industrial City - Dammam P.O.Box 1043 - Kingdom of Saudi Arabia

www.salamaeng.com

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