



Manufacturer of Electric Heating Elements and Controls



INDUSTRIAL

INDUSTRIAL SERIES

Industrial Electrical Water Heaters Manufactured In Accordance With International Codes And Standards (AMSE , EN , AD2000 , CODAP , PD , API etc.) .

Ideal for all types of large commercial and industrial applications or for large process potable hot water requirements. They can be customized to meet any special application with the large selection of available options.

10-5,000 Liters

0.8-1.600 KW

Only high grade materials used in construction to ensure long operating life . Our high quality water heaters meet quality standards and are clean, green and responsible with the environment.

Heavy duty construction withstands demanding industrial and civil use .



MARINE

MARINE SERIES

Marine Electrical Water Heaters Manufactured In Accordance With IACS Member Class Societies (DNVGL , BV , ABS , RINA , LR , RMRS etc.)

10-5,000 Liters

0.8-1.600 KW

Marine electric water heaters are specially engineered and manufactured to fulfill for fresh water or seawater on board of vessels and offshore rigs . For better durability under

the different usage, our fresh water heater is made of 304L stainless steel and our seawater heater is made of 316L stainless steel.

The marine electric water heaters can be adopted to suit different needs of customers .

All water heaters meets the all IACS members' class certification (DNVGL , BV , RINA , ABS , LR etc.) . Certificated product require approved welding procedures and our DNVGL certified welders combined with our design and project team are experienced to be able to meet the strict requirements of marine electric water heaters.

All products are completely wired up and tested beforehand in our workshop.

Features:

- Integrated control function and alarm options according to client's specifications
- Stainless steel water heaters
- Custom manufacturing and design
- Certificated welding procedures and welders
- Classable pressure tank by IACS members
- Tank contains up to 5,000 litres in capacity
- Compact and flexible design



FRESH - SANITARY WATER PRESSURE SET
FWPS SERIES

FRESH - SANITARY WATER PRESSURE SET (TT FWPS) were developed with experience and expertise from a wide range in many different marine applications

TT - FWPS compact units are specially engineered and manufactured to fulfill for fresh water or sea water on board of vessels and offshore rigs . For better durability under the different usage, our freshwater pressure tank is made of 304L stainless steel and our seawater pressure tank is made of 316L stainless steel .

The equipment can be adopted to suit different needs of customers . Our sets come ready-connected with electric water heater , stainless steel hydrophore pressure tank , hydrophore pumps , circulation pumps ,UV sterilizer and all Necessary Connection Pipes, Elbows, Flanges And Valves , Inlet/Outlet Connections , Drain Valve , Air Charge Valve, Name Plate .

All hydrophore pressure tanks and water heater storage tanks used in the system meets the all IACS members' class certification (DNVGL , BV , RINA , LR , ABS etc.). Certificated product require approved welding procedures and our DNVGL certified welders combined with our design and project team are experienced to be able to meet the strict requirements of marine type fresh water pressure sets. All products are completely wired up and tested beforehand in our workshop.

Features:

- Integrated control function and alarm options according to client's specifications
- Stainless steel pressure tank
- Classable pressure tank by IACS members
- Cast iron, stainless steel or bronze pumps
- Tank contains up to 5,000 litres in capacity
- Compact and flexible design make our FWPS units an excellent choice for many marine applications.
- Quick response as all units are from one supplier



COMMERCIAL
FARM SERIES

Commercial Electric Water Heaters Specifically Engineered And Manufactured For Meet
The Needs Of Your Commercial Applications

200-1,000 Liters

6KW-90KW



Single or Double Coil Quick Boilers

TT - SCB SERIES

TT SCB series compact high efficiency boilers are specially engineered and manufactured to be a reliable and long lasting source for hot water. Each component is carefully selected to ensure performance in even the most demanding application

These boilers are produced according to European Standard(EN 12897), are double enamel coated and they are used especially in villas, hotels, restaurants, factories.

The equipment can be adopted to suit different needs of customers . Designed to be integrated with solar water heating systems , central heating boilers , steam boilers .

MECHANICAL DESIGN

Manufacturing in accordance with AD-2000 – EN-13445 – API-620 – API-650 – BS-5500 ASME SEC. VIII DIV.1 & 2 SECTION VIII, SECTION VIII, EN 13445, TEMA, CODAP, PD 5500, UL 1453, EN 14015, AWWA D100 standards

DESIGN PROGRAMS

- 3-D SOLIDWORKS®

- 2-D AUTOCAD®
- MATLAB®
- EES®

PRODUCT AND DESIGN OPTIONS

	Min	Max
Capacity	100 Lt	6,000 Lt
Design Pressure	10 BAR (145 PSI)	20 BAR (290 PSI)
Gauges	Thermometer	
Safety Valves	Pressure relief valve	
Cathodic Protection	Mg anodes and anode life indicator	
Inner Tank Thickness	3mm	10mm
Insulation	50 mm. Polyurethane insulated at the capacity between 100 – 600 It	Special sponge insulated at the capacity between 800 – 6000 It.
Outer Jacket	Electrostatics powder painted cover on galvanized plate at the capacity between 100 – 600 It.	Special winlex cover at the capacity between 800 – 5000 It.

OPTIONAL FEATURES

- Stepped power option with electric heaters and control panel
- Cleaning and service cover
- Sesli ve ışıklı ikaz sistemleri
- Remote control and monitoring (BMS)
- Special design heating elements for long service life and maximum efficiency
- Seamless pipe coil option for steam, hot oil, solar energy, boiler waste water and hot water

ADVANCED FEATURES

- Single or double circulation pump package for re circulating circuit
- Special shock and vibration isolators

- Anti-Legionella bacteria protection system
 - Special wall and floor stabilization systems
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MATERIAL OPTIONS AND WELDING PROCEDURE

WELDING SPECIFICATION

- DOUBLE ENAMEL COATING
 - ASTM 304 , EN 1.4301 , UNS S30400 AUSTENITIC
 - ASTM 304L , EN 1.4306 , UNS S30453 AUSTENITIC
 - ASTM 316, EN 1.4401 , UNS S31600 AUSTENITIC
 - ASTM 316L , EN 1.4404 , UNS S31603 AUSTENITIC
 - ASTM 316Ti, EN 1.4571 , UNS S31635 AUSTENITIC
 - ASTM 430 , EN 1.4016 , UNS S43000 FERRITIC
 - ASTM 439 (430 Ti) , EN 1.4510 , UNS S43900 FERRITIC
 - ASTM 2205 EN 1.4462, UNS S31803 / S32205FERRITIC
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ADVANTAGES

- The most accurate capacity and power
- Minimum space and maximum efficiency with custom designed products
- Easy installation and commissioning
- Long service life and minimum maintenance costs



TT - AKT SERIES

TT AKT series highly insulated hot water thermal storage tanks are specially engineered and manufactured to be a reliable and long lasting source for hot water. Each component is carefully selected to ensure performance in even the most demanding application

These storage tanks are produced according to European Standard(EN 12897), are double enamel coated and they are used especially in villas, hotels, restaurants, factories.

The equipment can be adopted to suit different needs of customers . Designed to be integrated with solar water heating systems , central heating boilers , steam boilers by installing to a heat exchanger .

MECHANICAL DESIGN

Manufacturing in accordance with AD-2000 – EN-13445 – API-620 – API-650 – BS-5500 ASME SEC. VIII DIV.1 & 2 SECTION VIII, SECTION VIII, EN 13445, TEMA, CODAP, PD 5500, UL 1453, EN 14015, AWWA D100 standards

DESIGN PROGRAMS

- 3-D SOLIDWORKS®
- 2-D AUTOCAD®
- MATLAB®
- EES®

PRODUCT AND DESIGN OPTIONS

	Min	Max
Capacity	100 Lt	6,000 Lt
Design Pressure	10 BAR (145 PSI)	20 BAR (290 PSI)
Gauges	Thermometer	
Safety Valves	Pressure relief valve	
Cathodic Protection	Mg anodes and anode life indicator	
Inner Tank Thickness	3mm	10mm
Insulation	50 mm. Polyurethane insulated at the capacity between 100 – 600 It	Special sponge insulated at the capacity between 800 – 6000 It.
Outer Jacket	Electrostatics powder painted cover on galvanized plate at the capacity between 100 – 600 It.	Special winlex cover at the capacity between 800 – 5000 It.

OPTIONAL FEATURES

- Stepped power option with electric heaters and control panel
- Cleaning and service cover
- Audible and visual warning systems
- Remote control and monitoring (BMS)

ADVANCED FEATURES

- Single or double circulation pump package for re circulating circuit
- Special shock and vibration isolators
- Anti-Legionella bacteria protection system
- Special wall and floor stabilization systems

MATERIAL OPTIONS AND WELDING PROCEDURE

WELDING SPECIFICATION

- DOUBLE ENAMEL COATING
- ASTM 304 , EN 1.4301 , UNS S30400 AUSTENITIC
- ASTM 304L , EN 1.4306 , UNS S30453 AUSTENITIC
- ASTM 316, EN 1.4401 , UNS S31600 AUSTENITIC
- ASTM 316L , EN 1.4404 , UNS S31603 AUSTENITIC
- ASTM 316Ti, EN 1.4571 , UNS S31635 AUSTENITIC
- ASTM 430 , EN 1.4016 , UNS S43000 FERRITIC
- ASTM 439 (430 Ti) , EN 1.4510 , UNS S43900 FERRITIC
- ASTM 2205 EN 1.4462, UNS S31803 / S32205FERRITIC

ADVANTAGES

- The most accurate capacity and power
- Minimum space and maximum efficiency with custom designed products
- Easy installation and commissioning
- Long service life and minimum maintenance costs



EXPANSION TANK

TT – EXT SERIES

Custom Manufacturing Expansion Tanks For Cold & Hot Water Systems

Vertical – Horizontal

8-10,000 Liters

SPECIAL CERTIFICATION AND DESIGN

- BUREU VERITAS
- DNVGL
- LLOYD'S REGISTER
- AMERICAN BUREAU OF SHIPPING
- RINA
- RUSSIAN MARITIME REGISTER OF SHIPPING
- INDIAN REGISTER OF SHIPPING
- CHINA CLASSIFICATION SOCIETY
- NIPPON KAIJI KYOKAI
- TURKISH LOYD

MECHANICAL DESIGN

Manufacturing in accordance with AD-2000 – EN-13445 – API-620 – API-650 – BS-5500 ASME SEC. VIII DIV.1 & 2 SECTION VIII, SECTION VIII, EN 13445, TEMA, CODAP, PD 5500, UL 1453, EN 14015, AWWA D100 standards

DESIGN PROGRAMS

- 3-D SOLIDWORKS®
- 2-D AUTOCAD®
- MATLAB®
- EES®

PRODUCT AND DESIGN OPTIONS

	Min	Max
Capacity	8 Lt	10,000 Lt
Electric Power	4 BAR (58 PSI)	20 BAR (290 PSI)
Indicators	Liquid Level Gauges, Thermometers, Manometers	
Safety Parts	Pressure Safety Valve	
Inner Tank Thickness	3mm	20mm

SERVICES

With following services , we provide advantages for your project ,

- Capacity and Power calculation
- 2D&3D special design

OPTIONAL FEATURES

- Electronic step controller
- Audible and visual warning systems
- Remote control and monitoring (BMS)
- Special design heating elements for long service life and maximum efficiency

ADVANCED FEATURES

- Single or double pump packages
 - Special Shock And Vibration isolators
 - Disinfective and preventive system for legionella bacteria
 - Compact system with plate heat exchangers
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MATERIAL OPTIONS AND WELDING PROCEDURE

WELDING SPECIFICATION

- Automatic SAW welding
- GMAW (MIG), FCAW, GTAW (TIG) welding
- Certificated welding procedures (WPQR, WPS) and welders

MATERIAL OPTIONS

- HOT DIP GALVANIZED COATING (ZINC PLATING)
 - ASTM 304 , EN 1.4301 , UNS S30400 AUSTENITIC
 - ASTM 304L , EN 1.4306 , UNS S30453 AUSTENITIC
 - ASTM 316, EN 1.4401 , UNS S31600 AUSTENITIC
 - ASTM 316L , EN 1.4404 , UNS S31603 AUSTENITIC
 - ASTM 316T, EN 1.4571 , UNS S31635 AUSTENITIC
 - ASTM 430 , EN 1.4016 , UNS S43000 FERRITIC
 - ASTM 439 (430 Ti) , EN 1.4510 , UNS S43900 FERRITIC
 - ASTM 2205 EN 1.4462, UNS S31803 / S32205FERRITIC
 - AUSTENITIC(DUBLEX)
 - CuNi 90/10 (UNS C70600) COPPER-NICKEL ALLOYS
 - CuNiFe (COPPER-NICKEL-IRON) ALLOYS
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ADVANTAGES

- The most accurate capacity and power
- Minimum space and maximum efficiency with custom designed products
- Easy installation and commissioning
- Long service life and minimum maintenance costs



TT CPT SERIES (10 – 20,000 LITER) CUSTOM PROCESS TANKS AND PRESSURE VESSELS

Our suppliers design and manufacture custom steel tanks for a wide range of applications. Whether your application involves high or low temperature or pressure ratings, or requires special paint or linings, our suppliers fabricate custom steel tanks to your precise specifications.

Custom tanks are needed for a myriad of applications, for specialized needs in a variety of industries. Our Suppliers are proud of its proven track record for customizing storage tank design and fabrication for its customers needing solutions to tricky applications.

Their wide range of custom tanks include:

- **Industrial & Marine Type Air Tanks**
- **Horizontal or Vertical Storage Tanks**
- **Stainless or Galvanized Hydrophore Tanks**
- **Stainless Steel Water Storage Tanks**

MECHANICAL DESIGN

Manufacturing in accordance with AD-2000 – EN-13445 – API-620 – API-650 – BS-5500 ASME SEC. VIII DIV.1 & 2 SECTION VIII, SECTION VIII, EN 13445, TEMA, CODAP, PD 5500, UL 1453, EN 14015, AWWA D100 standards

DESIGN PROGRAMS

3-D SOLIDWORKS®

2-D AUTOCAD®

MATLAB®

EES®

PRODUCT AND DESIGN OPTIONS

	Min	Max
Capacity	10 Lt	10,000 Lt
Electric Power	4 BAR (58 PSI)	20 BAR (290 PSI)
Indicators	Liquid Level Gauges, Thermometers, Manometers	
Safety Parts	Pressure Safety Valve	
Inner Tank Thickness	3mm	20mm

ADVANTAGES

THE MOST ACCURATE CAPACITY AND POWER

MINIMUM SPACE AND MAXIMUM EFFICIENCY

EASY INSTALLATION AND COMMISSIONING

LONG SERVICE LIFE AND MINIMUM MAINTENANCE COSTS

MATERIAL OPTIONS

HOT DIP GALVANIZED COATING (ZINC PLATING)

ASTM 304 , EN 1.4301 , UNS S30400 AUSTENITIC

ASTM 304L , EN 1.4306 , UNS S30453 AUSTENITIC

ASTM 316, EN 1.4401 , UNS S31600 AUSTENITIC

ASTM 316L , EN 1.4404 , UNS S31603 AUSTENITIC

ASTM 316T, EN 1.4571 , UNS S31635 AUSTENITIC

ASTM 430 , EN 1.4016 , UNS S43000 FERRITIC

ASTM 439 (430 Ti) , EN 1.4510 , UNS S43900 FERRITIC

ASTM 2205 EN 1.4462, UNS S31803 / S32205FERRITIC

AUSTENITIC(DUBLEX)

CuNi 90/10 (UNS C70600) COPPER-NICKEL ALLOYS

CuNiFe (COPPER-NICKEL-IRON) ALLOYS

WELDING SPECIFICATION

AUTOMATIC SAW WELDING

GMAW (MIG), FCAW, GTAW (TIG) WELDING

CERTIFICATED WELDING PROCEDURES (WPQR, WPS) AND WELDERS