



Turnkey Solutions for Custom
Steam, Hydronic and Thermal Fluid Systems



ENGINEERED SYSTEMS

104 1/2" LF-42
WITH 25 HP MOTOR
46/60 Z/30
3.5 M³/H
(15.4 GPM)
HOT WATER

CUSTOM DESIGNED AND BUILT ENGINEERED SYSTEMS

CAPABILITIES

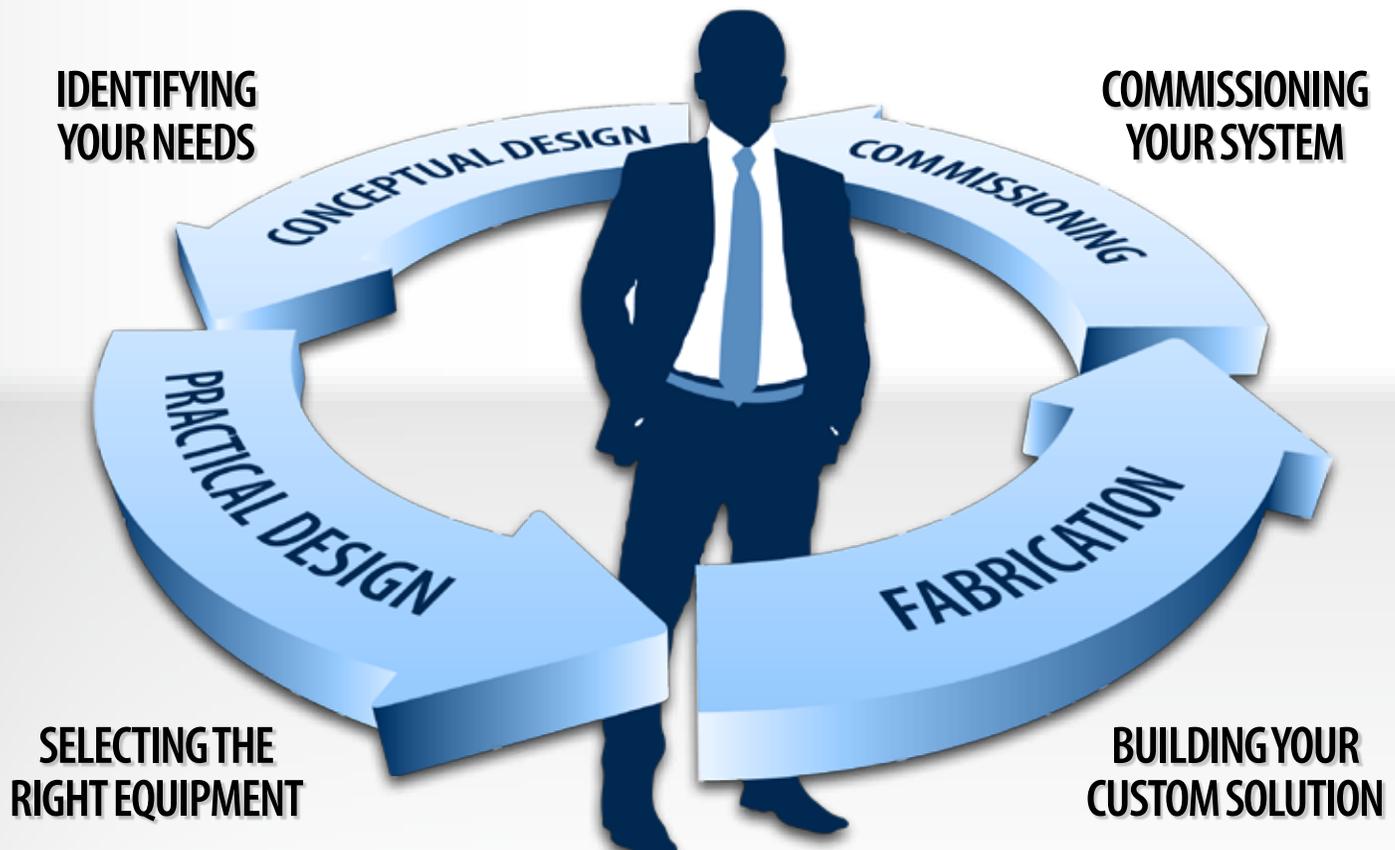
- **Hydronic Systems**
(Condensing or Non-Condensing)
- **Steam Systems**
(Low or High Pressure, Clean Steam)
- **Thermal Fluid Systems**
(Hot Oil Systems)
- **Thermal Fluid Systems with**
(Steam Or Hot Water Generators)
- **Portable Boiler Buildings**
- **Customized Control Systems**
(Sequencing, Complete System Control and BMS)

DESIGNED FOR YOU

At the Fulton Companies, we know that the majority of our customers need more than just a boiler. Our customers need a complete system to meet complex requirements for their heat transfer applications. The unique needs of our customers require that we find ways to connect creative solutions with the tried-and-true foundation of Fulton's rugged and reliable products.

Our engineering and design staff have the experience, problem-solving tools, and innovative thinking to help find just the right fit for your job. Eliminate the complicated, confusing approach of managing your project through multiple resources. Our one-stop shop and single-source point of contact is a strategy that pays off in time, money, and simplicity.

From specifications to complete skid-mounted systems, Fulton has you covered with the best products and customized engineering in the business. It's all designed and built specifically for you.



CONCEPTUAL DESIGN

CONSULTATION

An initial consultation with the customer is held to determine the process requirements. Next, we identify the size and type of equipment needed to successfully meet the application's heat transfer needs. Fulton engineers create a conceptual design, and can also develop a piping and instrumentation diagram (P&ID) that shows the specific equipment involved in the overall system.



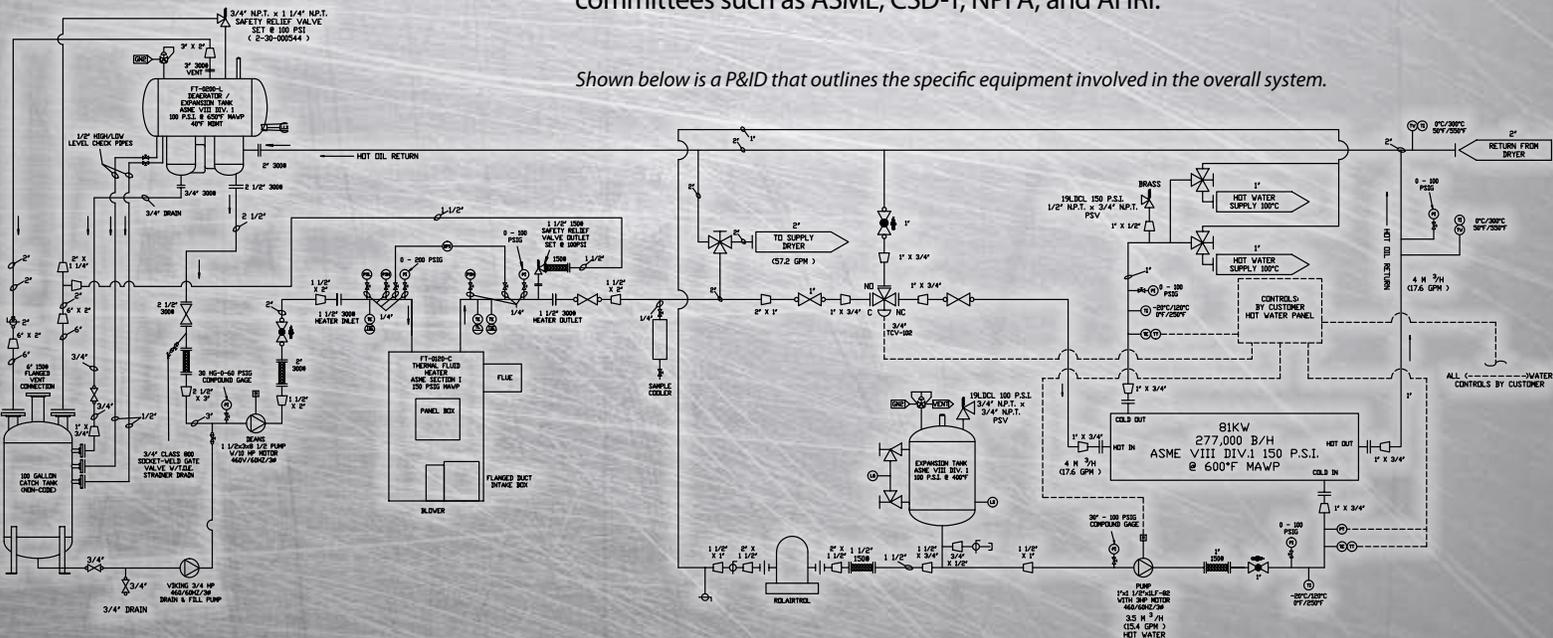
ENGINEERING A PLAN

- Understanding the Specifications of Your Unique Application
- Providing "Whole System" Design
- Selecting the Right Equipment for the Job
- Develop a P&ID of the System

An application engineer is assigned to each job, providing you with the information and results you need to ensure the timely and accurate completion of your project. Your application engineer is here to help you every step of the way.

Fulton engineers have a reputation for excellence in many areas of heat transfer solutions. From steam to hot oil to hot water, our engineers provide you with guidance on the right system and products for your job. If we don't currently manufacture the system you need, we will build it. Our job-specific customizations are an area of pride at Fulton: we have the technical experience and the facility to tailor a system for even the most complex specifications. Our engineers stay on the cutting edge of current design by serving on industry committees such as ASME, CSD-1, NPFA, and AHRI.

Shown below is a P&ID that outlines the specific equipment involved in the overall system.



PRACTICAL DESIGN

BLUEPRINTS FOR SUCCESS

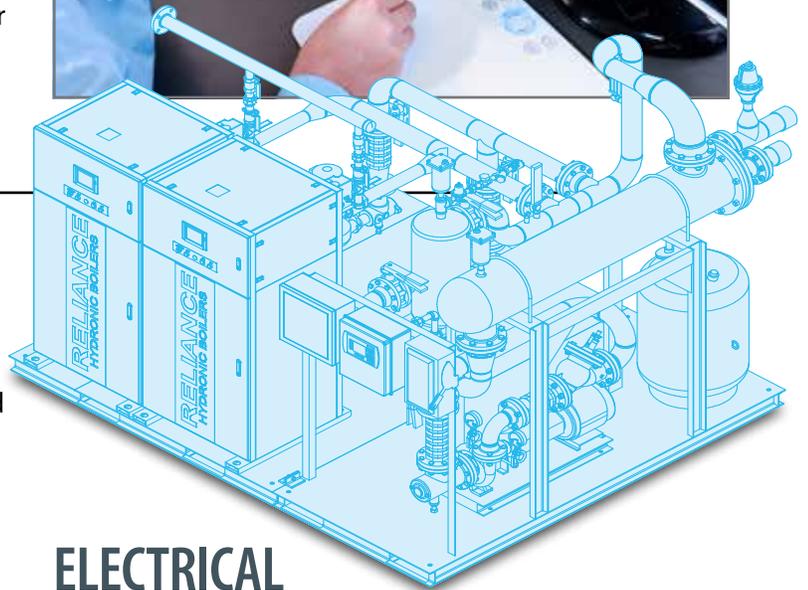
After a conceptual design is approved by the customer, our drafting department develops a practical design. Using the latest 3-D CAD and engineering software, these professionals optimize the space available for all the equipment and piping, eliminating fitment and sizing issues that could occur during the build process.

We focus on the 3 major areas of any system to ensure it meets your unique specifications and also follows particular codes that may be relevant to your facility or region.



MECHANICAL

- Many Boiler Performance Options Available
- DP Switches Available as Level Controllers
- Complete Custom Pre-Piped Skid Systems
- Copper and Brass Cold Water Make-Up Piping
- Major Control Valves Have Bypass for Serviceability
- Stainless Steel Boilers and Return Systems are Offered
- RO/DI and Potable Water Systems



ELECTRICAL

- Electrical Systems Built to NEC, UL, CSD-1 or NFPA85
- Single and 3 Phase Systems Available
- Electrical Prints and Bill of Materials Provided
- Drawings Show Incoming Voltage and Power
- Wiring Labels on All Wires are Standard
- Single Source Power Drop Provided Upon Request

CONTROLS

- PLC Systems
- On/Off or Modulated with Linkage or Linkage-less
- Electrical Designs Include NEMA 1, 12, 4, 4X and 7
- Local or Remote Monitoring of Status and Alarms
- Temperature, Pump and VFD Control Packages
- ModBus, BacNet and LonWorks interface available
- Panel Box Cooling or Heating Capabilities



MANUFACTURING

HAND-BUILT BY SKILLED CRAFTSMEN



Fulton employs skilled craftsmen who average more than 20 years of experience on the job. We have a direct line of communication from our team of designers into our manufacturing facility via a large screen monitor. Our fabricators are able to access and review 3-D models of the equipment they are working on, right on the shop floor. Using technology to join together our designers and fabricators increases efficiency, eliminates fitment issues, and provides the highest level of accuracy possible in the fabrication stage.

MATERIALS AND CONSTRUCTION

Fulton has been designing and manufacturing boilers for more than 60 years. Construction parameters typically include material thicknesses 30% greater than ASME minimum requirements. This applies to all Fulton products. Conservative designs allow Fulton to offer some of the best warranties in the business. In fact, if you purchase any of our steam products as a complete engineered system, we extend the warranty to 10 years.



COME SEE FOR YOURSELF

Want to see it for yourself? We welcome customer visits to our newly expanded state-of-the-art manufacturing facility. Our "open door policy" is extended during any part of the process. This is an ideal way to see the quality workmanship that goes into every Fulton product. You can also see your system in the process of being built.



COMMISSIONING

FINAL INSPECTION AND STARTUP



Once fabrication is complete, all units are test fired in-house to make sure everything is operating correctly. The units are then disassembled, finished with a high quality industrial paint, and crated for shipment. Once the equipment arrives at your door, Fulton's crew of highly-trained service technicians are available to assist you with any aspect of the installation, either onsite or through our 24-hour phone line.

Once installation is complete, our team visits to provide an extensive safety and operational inspection of the system. We will also install and test any of the customized controls you have added to your system to ensure everything is operating properly and you are taking advantage of all it has to offer. We are also available to provide training for your personnel, ensuring their safety and understanding of the equipment.



AFTERMARKET SUPPORT

We offer full-service aftermarket support from parts to maintenance. We are always ready to ensure reliable performance for the life of your Fulton equipment.

- 24 Hour Service Support
- Worldwide Distribution Network

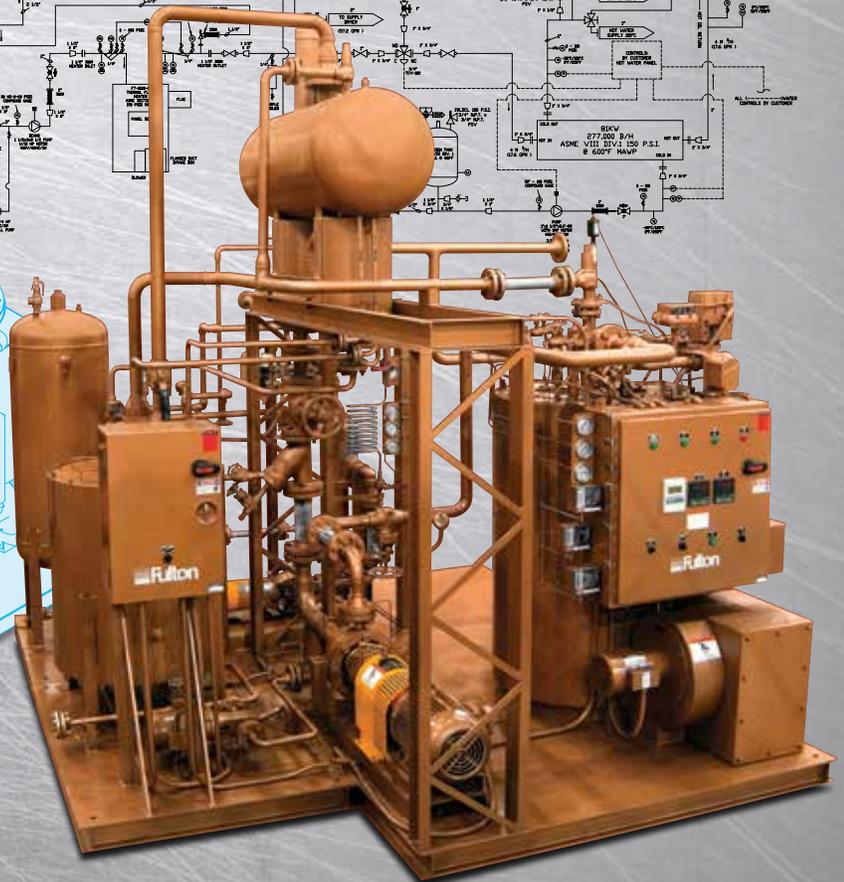
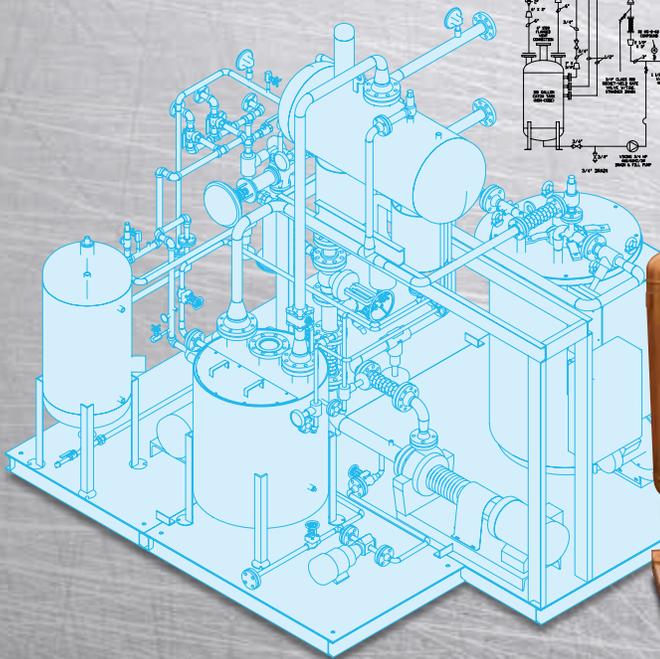
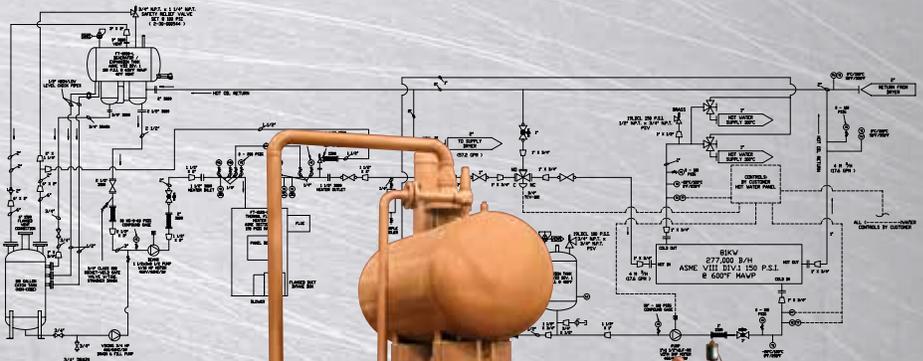


SOME EXAMPLES



The project above includes a unique Fulton custom-built enclosure for four Pulse® boilers. While the enclosure is served by exterior pumps, a fully-functioning hydronic boiler system complete with supply and return piping, ModSync® sequencing system, control valves, expansion tank, intake air and exhaust flues made for a simplified “plug and play” installation.

Here is a prime example of our capabilities. This custom engineered thermal fluid system started out as a P&ID, after the approval, we created the 3-D CAD model which our fabricators then used to create the skid system pictured here.



ENGINEERED SYSTEMS



An example of our custom engineered boiler buildings. This particular building was designed to provide steam to autoclaves. It includes 2 high-pressure 10HP steam boilers, a return system, blow-off separator, water treatment system, a pressure reducing station and an oversized steam header which acted as an accumulator.



The heat transfer innovators.

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