



Monitor Products, Inc.

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Monitor Products, Inc. was started on Long Island, New York by Carl Sunden in 1979. The foundation of the company was based on the previous years of experience Mr. Sunden had within the heat exchanger business sector. In 2002 the company relocated to Brooksville, Florida after constructing a new 26,500 square foot custom facility specifically designed for heat exchanger manufacturing. We are located 40 miles north of Tampa on Florida's west coast. We welcome you to schedule a tour of our facility.



Monitor Products has been manufacturing the most cost effective and functionally efficient shell and tube heat exchangers since 1979. We manufacture products for many of the major Original Equipment Manufacturers of marine engines. Although widely known within the marine industry, we do have experience manufacturing products for several other industries as well. Our skilled workforce produces both copper and cupro-nickel heat exchangers with the care and pride that have been the hallmark of our product since they were first introduced in 1979. In all areas of production our products are manufactured at individual stations rather than on an assembly line. This customized workflow process allows operators the time and control necessary to ensure the high level of quality our customers demand.



Monitor Products partners with you to gain insight into your overall product needs. With your cooling specifications, and our experience, we manage the complex details of engineering and manufacture a product to meet your needs. With over 40 years' experience, our engineering department offers you their services to custom design and produce heat exchanger products that will suit your application, or we can build a heat exchanger per your custom engineered design. Contact us with your application to see how our engineering team can help meet your needs.

Monitor Products offers the following OEM services:

- Quality with ISO 9001:2008 certification. (Will be 9001:2015 Compliant).
- Monitor Products Sales Staff will visit customers site to identify needs and can offer alternative approaches that improve performance, safety and maximize cost savings.
- Determine product quality standards, regulatory requirements and workplace safety.
- Provide accurate project estimates and timelines, including budgetary costs of production.
- Experience, engineering and manufacturing, of more than 40 years in the industry.
- Technology utilizing AutoCad and/or Creo Parametric (Pro/E).
- Most completed prototypes or single heat exchangers are delivered within a few days to a week.
- Customer Focused Support at its best, available Monday-Friday 7:30am to 4 pm EST.



Providing Designs for Low to Moderate volume cooling needs

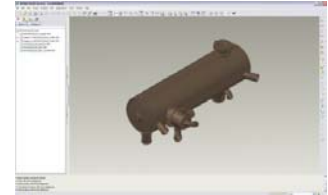
- No need to pay more for "off the shelf" units not specifically designed for your application.
- Our designs are engineered for the specific types of fluids used, therefore optimizing overall performance.
- Specific applications are designed for ease of installation while all connections are designed for your application. This saves installation time and parts expense.
- Time saving in-house design, testing and production capabilities from prototype to finished units.
- Custom designs save valuable space, installation and service time as well as providing application specific performance characteristics.
- Manufacturing capacity to support either single units or OEM quantities.
- Custom designs allow you to control your spare parts market.

Technical and Design Consultation

Monitor Products partners with customers like you to fully understand your design vision so we can help bring concepts to reality. Our design engineers and project managers work closely with customers to discuss various material technologies, while leveraging all available manufacturing and installation approaches. If required, our engineering department will produce 3D models to validate complex design approaches. Monitor Products R&D team is available to produce the custom material samples needed to validate different design concepts.

Final Design – Monitor Products provides two options:

- The customer can bring the final design to Monitor Products and we will fabricate the system based upon the provided design.
- Monitor Products will work alongside the client throughout the design process to optimize both product performance and cost, seek final design approval, and then begin the manufacturing process.



Project/Production Process

- **Project Cost Estimation** – Upon receipt of project drawings and scope details, our project estimators will prepare a quote outlining quantities and any available options including value-engineering opportunities. A general manufacturing lead time estimate will be provided.
- **Sample Approval** - Samples are typically prepared at the project specification stage or after the project is awarded, and signed off by the customer. Production will not begin until sample approval is obtained or waived.
- **Production Drawing Preparation** - Detailed production drawings providing part dimensions and installation details are prepared using AutoCAD and/or Creo Parametric (Pro/E). This insures dimensional tolerances are maintained throughout production, and in many cases this is used to verify fit into our customer's product assembly models.
- **Tooling** - Monitor Products experienced team of machinists will produce any needed tooling. Where needed, new tooling is manufactured by 4-axis CNC machines to ensure accurate dimensions, crisp details, and rapid production. All completed tooling goes through our quality control process to ensure dimensional accuracy.
- **Fabrication** - Monitor Products strives to keep as much component fabrication in-house as possible. This allows us maximum design flexibility, shorter lead times and ultimately more control over final product quality. Our team of fabricators produce components using a range of 4 axis, 3 axis and other CNC equipment.
- **Brazing \ Assembly** - Monitors' Brazing Team assembles each unit while ensuring all quality control measures are adhered to. Each 'Brazer' has been fully trained in the field. We make extensive use of fixtures and jigs to insure dimensional repeatability.



- **Cleaning** - Finished units are acid cleaned to remove oxides, residual flux, and oils. This is a crucial step within our extensive testing strategy we employ to meet the highest quality standards within the industry.
- **Testing** - Every heat exchanger manufactured is thoroughly leak tested under water before shipping. Both Tube & Shell sides of the heat exchanger are tested independently.
- **Painting** - If required, tested units are then painted with primer and/or high quality Urethane Paint.

- **Shipment** - All parts are shipped in protective packaging. In-house laser cutting capabilities allow us to customize packaging to your specific product needs, without expensive tooling. Monitor Products has decades of experience shipping locally, domestically and overseas, and will utilize the most appropriate packaging techniques to ensure that parts arrive to your location in the desired drawing specified condition.

