



Thermal Processors
Continuously Cool or Heat Bulk
Materials

Why Choose an ASME Code Certified Thermal Processor Manufacturer?

Question

I have a screw type thermal processor that needs to be replaced. The hollow flights and center pipe contain pressurized thermal fluid used to cool my process material. Several manufacturers offer similar equipment, but only some are ASME Code Certified. Why is it important to purchase a screw type thermal processor from an ASME Code Certified Manufacturer?

Answer

A screw type thermal processor is much more than a screw conveyor. The hollow flights and center pipe form a rotating pressure boundary that contains steam, thermal oil, hot water, glycol, or other heat transfer media. Because the pressure-retaining components are critical to safe operation, selecting an ASME Code Certified Manufacturer provides significant advantages.

An ASME Code Certified Manufacturer engineers the pressure boundary using established design rules for pressure-containing equipment, including calculations for design pressure, temperature, material stresses, wall thicknesses, and weld joint efficiency. Welds are produced using qualified procedures by certified welders, materials are fully traceable, and pressure-retaining components are inspected and pressure tested under a documented quality control program. These requirements help ensure long-term reliability while reducing the risk of leaks, fatigue failures, and costly downtime. For many chemical, food processing, and industrial facilities, ASME Code fabrication also supports owner specifications, insurance requirements, and maintenance documentation.

Choosing an ASME Code Certified Manufacturer provides confidence that your thermal processor has been engineered, fabricated, inspected, and tested to nationally recognized standards.



Welders are Certified to the ASME Boiler & Pressure Vessel Code



Thermal Processors are Designed to ASME Standards for Safe, Long-Term Operation



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