

Eliminate Your Boiler and Steam with Safe, Direct Fluid Heat

INTRODUCING THE

PYROS™

Powered by ShockWave Power™ Reactor Technology

HEATING SYSTEM

The PYROS Series 1 heater provides a safe and problem-free alternative to steam boilers for heating in oilfield applications. While boilers can corrode and present explosion hazards without regular maintenance, PYROS technology offers continuous heating - without surfaces that can scale, or flame that can cause safety concerns.

The PYROS eliminates steam by directly heating fluids using controlled cavitation. The PYROS heats any fluid without flame, and is, by definition, non-scaling heat. Instead of making steam and heating fluids with a heat exchanger setup, fluid is pumped through the PYROS Shockwave Power™ Reactor (SPR)* to "internally" heat the fluid. The SPR built into the PYROS system only gets as hot as the fluid. The PYROS will heat any type of fluid including crude oil, water, salt water, completion fluids, drilling muds, etc.

- **Controlled Cavitation plus Heat Recovery**

- Eliminate the "Steam Step" by directly heating fluid
- SPR efficiently converts shaft horsepower into heat
- Simple fluid in - fluid out setup

- **Shockwave Power Reactor**

- Harness the power of controlled cavitation
- Proven Technology for direct heating of fluids.
- Spinning disk with closed boreholes creates low pressure areas
- Tiny cavitation bubbles form and collapse
- Cavitation efficiently converts mechanical energy into heat
- Restricting the cavitation inside boreholes prevents damage

*Total Separation Solutions is the exclusive licensee for SPR technology in the oil and gas industry.
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**TOTAL SEPARATION
SOLUTIONS, LLC**

*Innovative Technologies in Fluid Filtration,
Processing and Reclamation*

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