POWER DESUPERHEATING SOLUTIONS
Too Much Heat? Take Control with Precision Desuperheating



FISHER™

Every degree above target adds stress to your steam cycle.
Precise desuperheating protects performance and prevents premature damage.

Protecting critical assets starts with controlling steam temperature.

Steam temperature excursions during startups, shutdowns, and load changes are a leading cause of thermal fatigue, turbine wear, and HRSG degradation. Even small deviations can reduce reliability, efficiency, and equipment life.

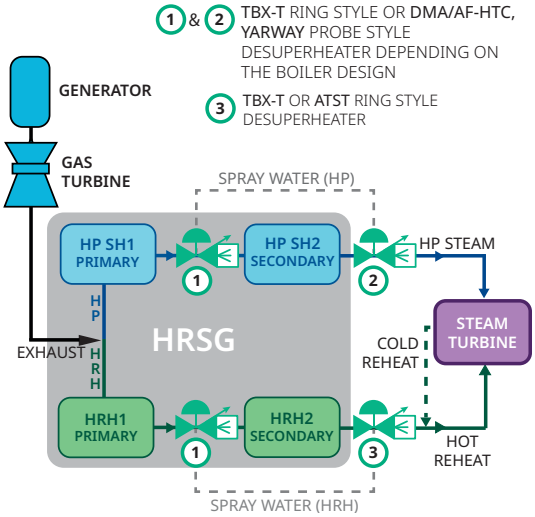
Effective desuperheating requires more than water injection. It demands precise atomization, rapid evaporation, and consistent performance across the full load range. In applications where operating conditions vary widely, variable-geometry nozzle technology offers an enhanced control precision required to maintain consistent steam temperature.

Can your steam temperature control system maintain precision at every load point?

Fisher™ DMA/AF-HTC and TBX-T attemperators, together with Yarway™ solutions, provide reliable steam temperature control throughout the power cycle. Variable-geometry AF and Yarway nozzles automatically adapt to changing conditions, providing optimized atomization and rapid vaporization from startup to full load.

Robust, maintenance-friendly designs help protect critical assets, reduce lifecycle costs, and improve plant reliability.

The result: precise steam temperature control, higher efficiency, and longer equipment life.



Combined Cycle Power Plant Attemperators Application

EMERSON™

Engineered for Precise Steam Temperature Control Solutions for HP Superheat, Hot Reheat, and Every Stage in Between.

Fisher™ desuperheating solutions provide reliable steam conditioning across the power cycle, engineered to withstand the extreme temperatures, pressures, and cycling demands of modern power plants.



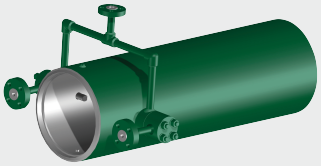
Fisher™ DMA/AF-HTC Desuperheater



Fisher™ TBX-T Desuperheater



Fisher™ Yarway™ AT-18/28 Heavy Duty A.T.-Temp Desuperheater



Fisher™ ATST Steam-Atomized Desuperheater

Benefits

- **Optimized Spray Across the Full Operating Range**
  Variable-geometry AF and swirl nozzles continuously adapt to changing load conditions, delivering optimized atomization, effective vaporization, and precise steam temperature control from minimum to maximum flow.
- **Field-Maintainable**
  Fisher TBX-T spray nozzles and Yarway™ spray cylinder configurations can be serviced and replaced independently onsite, minimizing maintenance time and extending overall equipment life.
- **Engineered for Extreme Service Conditions**
  Fully forged construction and advanced thermal liner designs help protect valve and downstream piping from the stresses of startup, shutdown, and high-temperature load transients.
- **Complete HRSG Steam Conditioning Coverage**
  Probe style Fisher DMA/AF-HTC and Yarway solutions, combined with ring style TBX-T designs, provide a comprehensive portfolio to address the full range of heat recovery steam generator conditioning requirements.
- **Aligned with Hydrogen-Ready Power Generation**
  As HRSGs evolve to support hydrogen-capable gas turbines, Emerson's steam conditioning portfolio is already engineered to meet the challenges of tomorrow's power generation facilities.

Industries where desuperheaters play a crucial role

Combined Cycle Power (CCGT)

Conventional Power Plants

Chemical & Petrochemical

Waste to Energy Power plant

More information

View product details

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Emerson.com/SteamConditioningValves

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