

Energy Efficient Water Pre Heating System for Boiler

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SUSTAINABLE ENVIRONMENT DEVELOPERS

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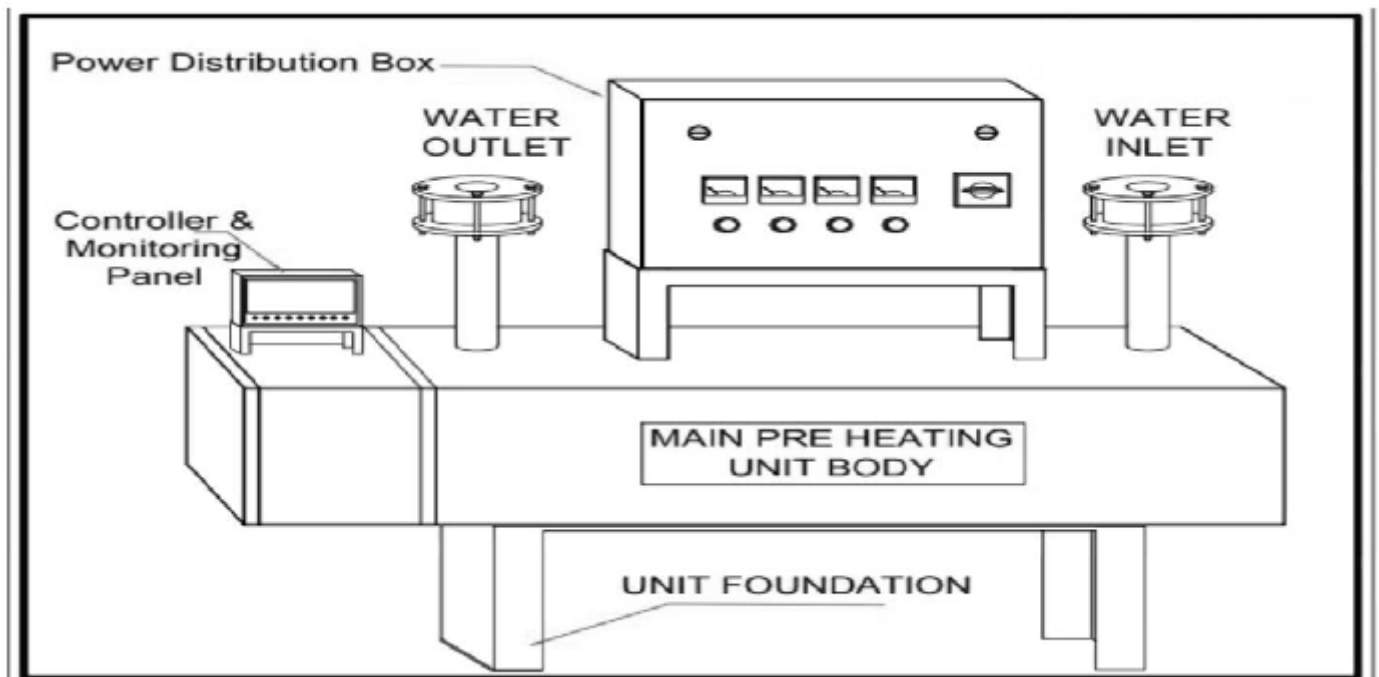
Water Pre Heating System for Boiler

Why Pre Heating System?

Cold starts or with minimum temperature water starts can cause accelerated boiler wear, which in the long term causes damage to components and will shorten the boiler life. A pre heater warms up water for a stable (starting) temperature when boiler is started. This ensures easier and faster boiler starts, which is better for your boiler because it reduces time and fuel. In addition, preheated boiler consumes less fuel and therefore emits less harmful substances, which is better for the environment.

Solution Benefits

- Uniform heated water to be fed in Boiler.
- Make the water heated enough to evaporate immediately after getting minimum heat within the boiler i.e. ensures water temperature between 97°C to 99°C before feeding into boiler.
- Pre heating system can rise water temperature between 15°C to 25°C (may vary according to the requirement specially in cold weather/season)
- Heating in the pre heating unit will be in real time i.e. no time is required to raise the temperature of water up to desired level.

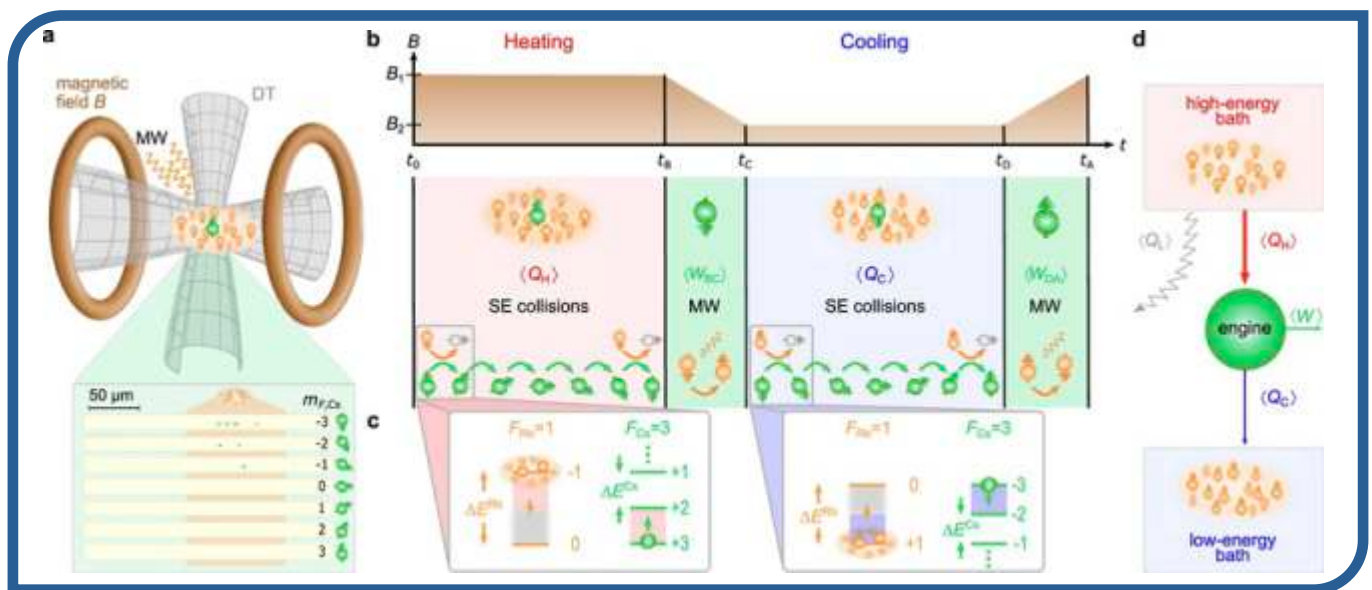


Real Time Water Heating

The concept of real time heating is the most efficient and effective way to reduce consumption of energy per unit mass of water by transferring heat with minimum losses in running water.

Better For The Environment

Next to increased sustainability, preheating results in more environmental benefits. Fuel consumption is usually higher when the boiler is started as it takes a longer time to achieve operating temperature. A preheated Boiler consumes less fuel and releases less emissions, making preheating beneficial for the environment.



SED research and development wing made statistical comparison and identified many areas needing improvement in pre heating of boiler feed water. With years of experience in the field of Heat Transfers and energy Efficiency, We have developed research based analytical and Mathematical models to ensure highest efficiency and throughput of water heating system with optimum input of electrical energy.

Increased efficiency

Advancements have been made in water heating systems and you could upgrade to a more efficient unit. SED can review your Boiler needs and recommend a highly efficient water pre heater to meet your needs. The Pre Heater can help you in reducing your energy usage and get results in the form of reduced boiler downtime and timely production, which suffers due to natural gas shortage.