

# CHIPTEC<sub>o</sub>

## WOOD ENERGY SYSTEMS

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**CHIPTEC** Corporation is the recognized leader in North America of advanced wood energy systems and has been providing quality services since 1986. Our



unique technology, called close-coupled *gasification*, provides safe, clean and economical energy for space and process heat. A Vermont company, we manufacture, install, and service the gasifiers as well as the fuel storage and delivery equipment that accompanies them. Our equipment has

shown that customers can achieve tremendous savings, while at the same time enhance local economies and protect the environment. Our systems range in size from small commercial to large industrial systems. We also provide wood reduction systems as well as electrical generation equipment. We guarantee the system's emissions and support all aspects of a project including system specifications and financial analysis.

How do CHIPTEC gasifiers differ from other wood burning systems?

Wood chip fuel enters a hot refractory lined chamber where they are roasted to the point where the volatile pyrolysis gas (wood gas) is released into an oxygen-deprived environment. Once released, these gases then travel through the burner nozzle where they are superheated and mixed with air for complete combustion leaving little or no waste such as ash, creosote or stack effluent. The increased efficiency, safety and cleanliness of this advanced two stage process produces tremendous economical and environmental benefits.

High temperature combustion, a 20:1 turn down ratio, refractory heat storage and controlled air allows the CHIPTEC gasifier not only respond quickly to boiler demand, but also idle efficiently for economical operation low load conditions.



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