

# MODULAR HEATERS

## THE ESTEEM ADVANTAGE

Esteem is one of the pioneers for modular fabrication of Fired Heaters. Where required, we incorporate modularisation into each phase of the project from design to erection. Our design department is well conversant with modular design requirements. We have a fully equipped workshop with facilities to provide refractory lined & dried-out complete heater modules. Keeping in view transportation limitations, modular construction can be executed to any level, even to complete heaters, with platforms, burners, piping, duct work and instrumentation installed.



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## Key advantages

- ★ Better quality due to controlled shop environment
- ★ Reduced site activities
- ★ Cost/ time advantages

## Considerations in design

- ★ Structural integrity of modules
- ★ Design for ease of transportation
- ★ Design for ease of erection
- ★ Design for easy interface between parts/ modules
- ★ Ensuring completeness of module in all respects to reduce site activities

### Modularization options

Radiant Coil Type >	Horizontal	Vertical	Arbor	Vertical Cylindrical
Service	Delayed Coker EDC Cracking Hydrocracker Vaccum Hydrocracker Hydrotreater Charge Reboilers	Steam reforming Ammonia Hydrogen Methanol Ethylene Cracking Hydrocracker	Catalytic Reforming Aromatics	Crude Vaccum Atmospheric Hot Oil Regeneration Most services...
Modularization	For wall mounted configuration, entire Radiant can be sent as a single module Alternatively, coils can be transported in hairpins	Entire Radiant can be dispatched in refractory lined condition or in panels Coils can be dispatched in pre-fabricated bundles ready for field installation	Coils can be supplied in arbors welded to manifolds for shipment and quick installation	These are well suited for modularization Can be dispatched as complete radiant, or petals of shell and coil segments

Many more configurations are possible. Call us to discuss how your next heater or convection section can be supplied in modular form.

### Esteem Projects Pvt. Ltd.

B-39, Sector-67, Noida, UP - 201307, India

Ph.: +91 120 3110545/ 46/ 47

Ph.: +91 9811001556/ 57/ 58

Email: [epi@esteem.co.in](mailto:epi@esteem.co.in) Web: [www.esteemprojects.com](http://www.esteemprojects.com)

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