



LEO SURFACE COATINGS PVT. LTD
INTRODUCES
“Leo Ecotherm Incinerators”

BURNS OFF OVEN EXHAUSTS
FASTER, USER FRIENDLY, COST
EFFECTIVE & POLLUTION FREE



LEO ECOTHERM INCINERATORS: OVERVIEW

- LEO ECOTHERM Incinerators destroys Hazardous Air Pollutants (HAPs), Volatile Organic Compounds (VOCs) and odorous emissions that are often discharged from industrial Paint shop Ovens or manufacturing processes. LEO ECOTHERM achieves emission destruction through the process of high temperature thermal oxidation, using the proper mix of temperature, residence time, turbulence and oxygen to convert pollutants into carbon dioxide and water vapor.
- In view of upcoming stringent regulatory emission norms, Leo has designed the Incinerators which can be used for all kinds of Paint shop installations, whether it is big or small.
- **LEO ECOTHERM Incinerator** design, specially allows small & mid size paint shops to install this unit at very economical cost and can be adopted for exiting plants as well.
- At Leo, we would like to be your partner in controlling air pollution and promote green technologies.

L – Listen to our Customer's

E – Enrich Customer's Products

O – Optimize Customer's Experience



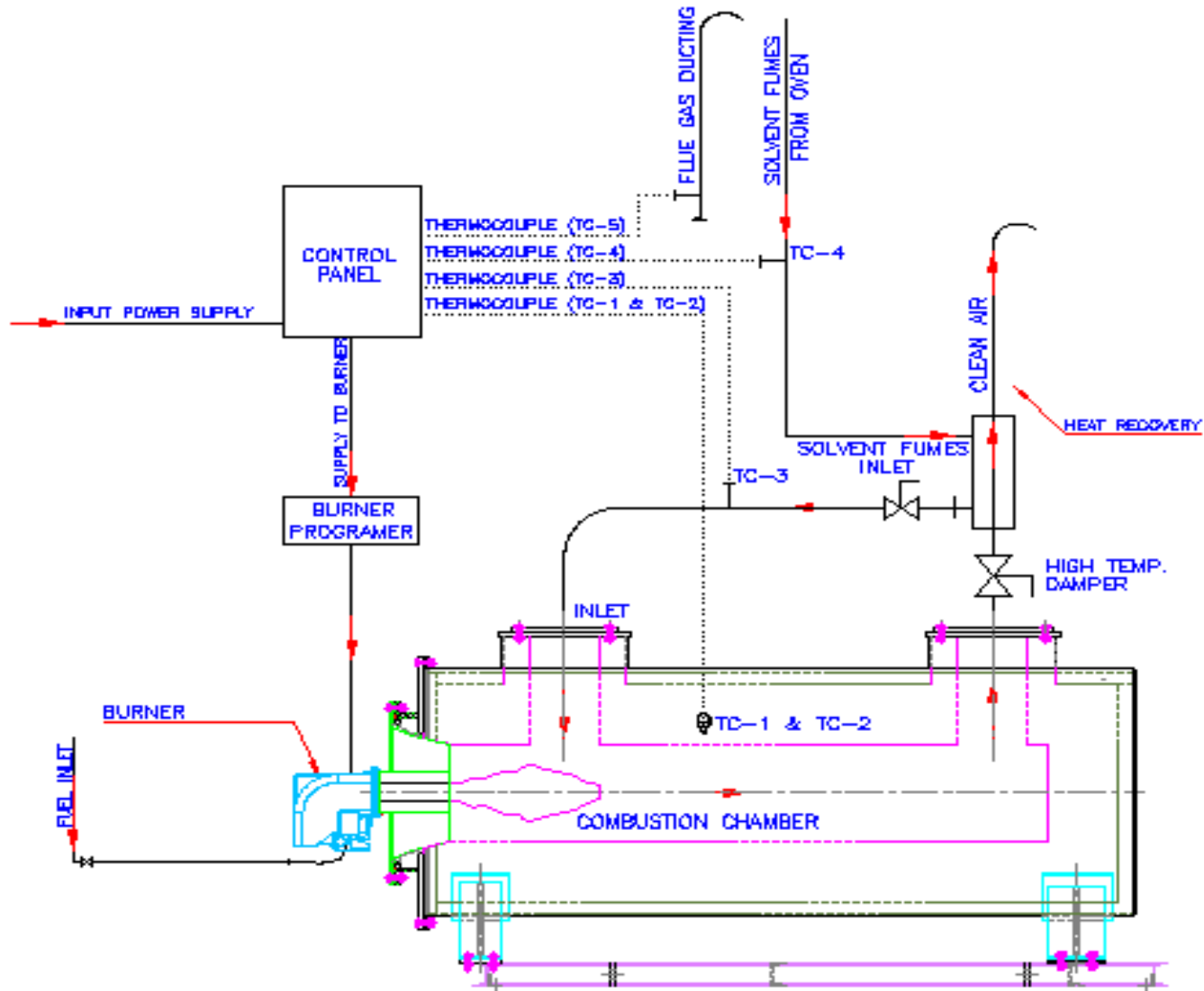
LEO ECOTHERM-HOW IT WORKS

- VOC and HAP laden process gas is either pushed or pulled into the inlet manifold of the oxidizer via a system fan. Flow control or poppet valves then direct this gas into energy recovery chambers where it is preheated. The process gas and contaminants are progressively heated in the ceramic media beds as they move toward the combustion chamber.
- Once oxidized in the combustion chamber, the hot purified air releases thermal energy as it passes through the media bed in the outlet flow direction.
- The heat energy recovery within these oxidizers reduces the auxiliary fuel requirement and saves operating cost. The LEO ECOTHERM Incinerators achieves high destruction efficiency and with high fuel efficiency.

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LEO ECOTHERM-SCHEMATIC





LEO ECOTHERM : FEATURES

- The standard features of **LEO ECOTHERM incinerator** are:
 - Temperature inside combustion chamber: - 426° to 760 ° C
 - Residence time of 0.2 to 0.6 seconds in combustion chamber
 - Equipped with a combustion air supply controller, a fuel-rate controller and burner assembly.
 - Completely shop assembled, pre-wired and tested prior to shipment
 - Skid mounted designs available with various airflows
 - Up to 25% Lower Explosive Limits (LEL) operation

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LEO ECOTHERM : ADVATAGES

- Zero leakage, achieves 99+% destruction efficiency
- Meets Regulatory Compliance
- Cost effective design
- Can be adopted by existing plant as add-on equipment
- Very useful for small & medium size paint shops. System flexibility addresses a wide range of process conditions
- Customized ceramic media with true thermal energy recovery up to 97%
- Low system pressure drop reduces electrical consumption
- Competitive capital equipment cost
- Rapid installation time on most systems
- Small equipment footprint

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CONTACT US

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