



Thermal Oxidisers & Enclosed Flares

*Manufacturing Thermal Oxidisers & Enclosed Flares
Since 1985*



3TSI design and manufacture thermal oxidisers, enclosed flares and combustion systems for a wide range of applications for the Petrochemical Industry, Surface finishing Industry, Printing, Coating, Rendering plant, Bitumen and Crude oil heated tank take off's.

The technology innovation which places 3TSI ahead of its competitors is based on proven designs and years of field experience. Whatever the application, 3TSI can provide a reliable and competitive system which will provide years of continuous service.

Our design team can provide fast response and advise on projects large and small, systems can be for applications for gas flow of fractions of a cubic metre a second up to many thousands of cubic metres an hour.

Technology provided:

- ❖ Thermal Oxidisers (TO)
- ❖ Regenerative TO's
- ❖ Enclosed Flares for low CV gas
- ❖ Liquid waste Combustion systems
- ❖ STW methane gas safety flares
- ❖ Non condensable gas reheat systems
- ❖ Odour abatement oxidisers
- ❖ Secondary combustion chamber upgrades
- ❖ Furnace fume incinerators



Sewage Treatment works Methane Flare system



3TSI is always at the business end of problem solving and matching technology to meet the customers production or plant needs, without over complicating the system.
We can provide budget priced quotations within 24 hours given the basic information.

Information required for evaluating applications:

Gas or exhaust volume flow (m³/Sec or CFM), nature of the gas or exhaust air stream and
Its makeup, temperature of gas or exhaust air stream, heat recovery requirement,
emission and other standards required for compliance if known.

Some 3TSI systems can be designed as skid mounted units, self-contained, including ID fans,
plant controls and burner management controls, making site installation quick and cost effective.



Liquid Waste TO for spent aqueous rolling mill coolant 24,000 litre/day

Installation and commissioning:

As part of our service we can quote turnkey supply and installation, or equipment supply and installation supervision, together with plant commissioning. Most countries around the world can be quote for site installation.

Design criteria:

Without compromise we engineer systems for robust use, employing tried and tested refractory lining methods and proven materials carefully selected to ensure maximum service efficiency, thermal cycling flexibility, corrosion resistance, minimal maintenance and reliability.

TO burners are selected from known competent suppliers of industrial combustion units and combined with 3TSI system design for basic or complex burner requirements.

Fail safe control systems ensure an automated and reliable control interlock with the main plant or as a standalone system.

By carefully evaluating each application we can select the ancillary equipment which will provide performance and reliability, and at the same time careful consideration being given to international emission standards and plant design for ongoing maintenance are fundamental to our design policy.



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