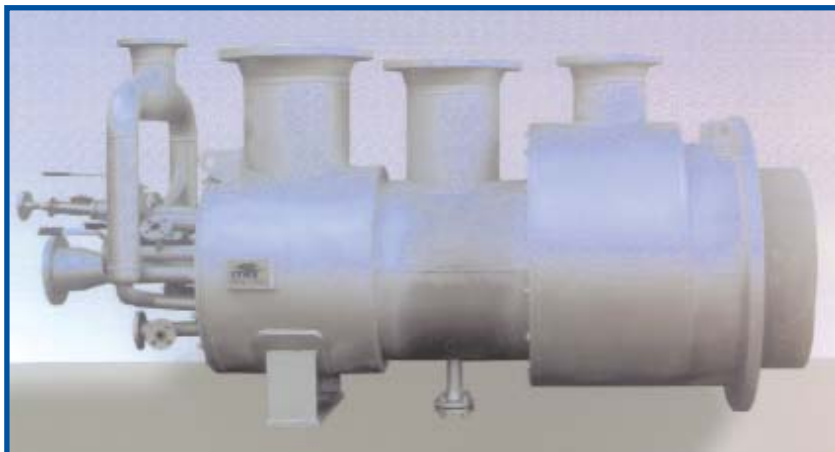


## H<sub>2</sub>S AND/OR ACID GAS

## INTRODUCTION



ITAS has more than 20 years of experience in the design and supply of combustion and process equipment.

For the sulphur recovery process or others where an acid gas is involved ITAS can provide:

- ACID GAS BURNER
- TAIL GAS BURNER
- HIGH INTENSITY BURNER
- IN-LINE REACTOR/BURNER
- TAIL GAS/ACID GAS THERMAL OXIDIZER
- REACTION FURNACE/WASTE HEAT BOILER
- ACID GAS FLARE SYSTEM.



**H<sub>2</sub>S AND/OR ACID GAS**
**COMBUSTION EQUIPMENT**
**BURNERS**

Tail gas and acid gas burners operation may be natural draft, forced draft or pressurized.

The burner design is effected case by case in function of the specific quantity and components of the acid-gas stream and is suitable for operation in substoichiometric or stoichiometric or in excess of air depending on the application required.

Super alloys and heat/acid resistant refractory are used to withstand H<sub>2</sub>S corrosion.

Burners are no-leak design, and are equipped with permanent pilots or direct spark high energy ignition, IR/UV dual scanners, sight ports, purge connections.

**THERMAL OXIDISER**

With air pollution laws becoming more stringent the thermal oxidiser (incinerator) is virtually mandatory. ITAS can provide natural draft or forced draft thermal oxidiser, complete with stack and controls.

The unique design of the refractory lining ensures high efficiency and less maintenance.

**REACTION FURNACE/W.H.B.**

The refractory lined reaction chamber and fire-tubes boiler are manufactured according to all pressure vessels standards (ASME, TUV, BS, VRS/VSG, etc...). The unique design of the refractory lining and ferrules ensures excellent performance and less maintenance.

ITAS provides skid mounted packages, including blowers, controls, valve trains.

**ACID GAS FLARE**

ITAS special design acid gas flare assures a destruction efficiency greater than 99%.

In the sulphur recovery process the acid flare is required in order to permit the operation of the plant in case of temporary shut-down of the sulphur recovery train.

The flare is supplied complete with supporting structure, ignition and control panel.

