



JOSEPH EGLI AG

Incineration plants for

LIQUID WASTE & OFF GAS LG



for:

off gas and liquid waste

capacity range:

1,5 MW up to 15 MW

PURPOSE

The incinerator model "LG" is design to burn off gas and liquid waste with small ash content. The result is low operating cost and legal conformity. To optimize this facts for your application we offer different executions, including past combustion, flue gas treatment and continuous emission monitoring.

FIELD OF APPLICATION

type of waste:	aggregate condition:	liquid and gas
	maximal viscosity:	Cst 75 / °E 10
	maximal water content:	≤ 12 % (self burning) 100 % (with support fuel)
	maximal solid parts:	1 mm
power range	thermal capacity:	1.5 MW ÷ 15

CONFIGURATION

According the waste composition the plant is executed by past combustion and flue gas treatment. For environmental control we can integrate continuous emission monitoring system.

Incineration takes place in the combustion chamber. The combustion condition like temperature and oxygen content will be controlled by PLC/DCS control system. And can be adjust on the different waste composition.

The burner, the heart of the plant, can burn up to four different off gases and three different liquid wastes at once. Different possibilities for low NO_x values are available.

Past combustion Here the gases burn up at a temperature of at least 1'200°C with a residence time of minimum 2 seconds. An almost total destruction of toxic organic pollutants such as dioxins and furans is thus ensured.

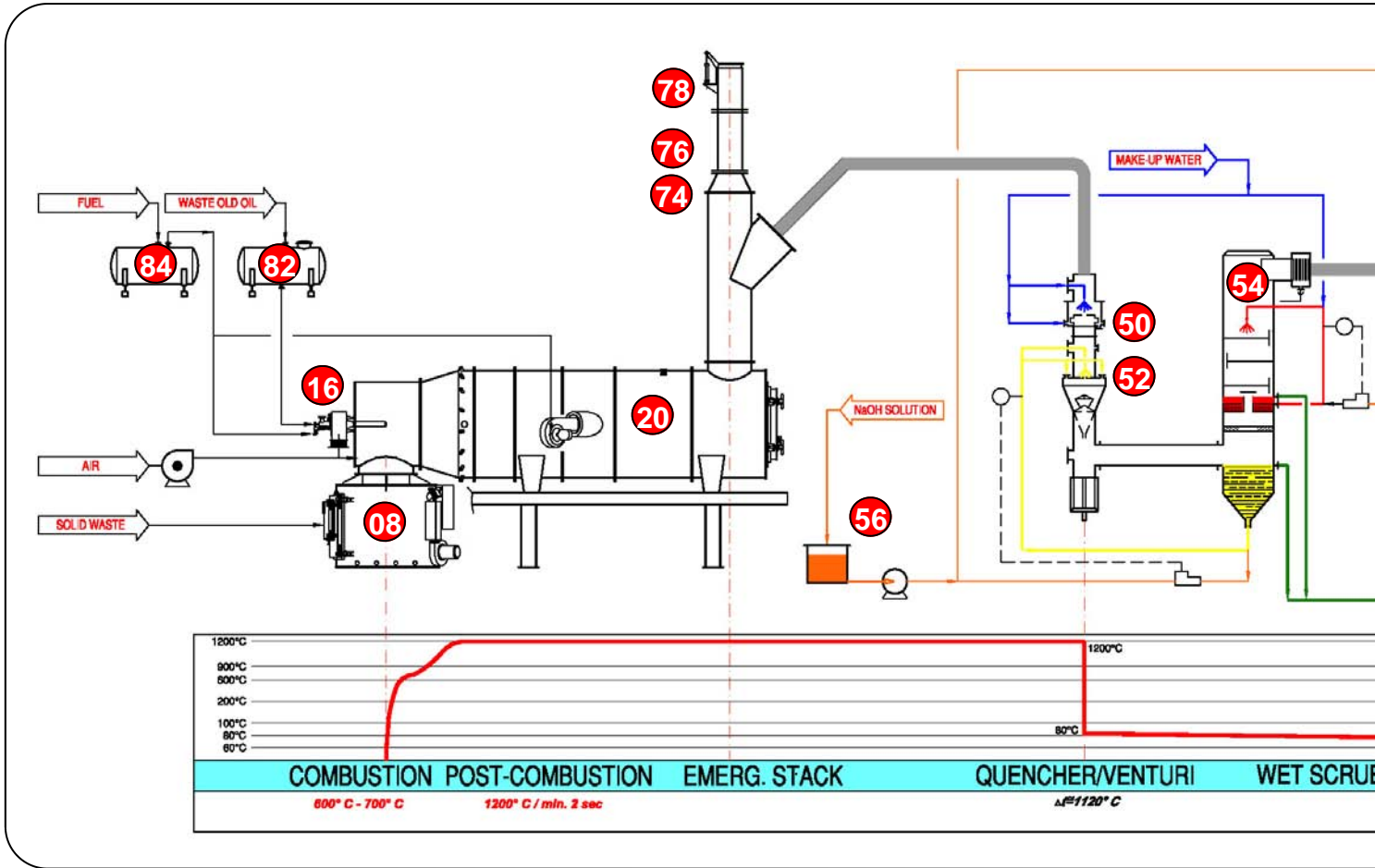
Flue gas treatment Apart from the surplus air and the "normal" combustion products carbon dioxide, water vapor and airborne dust, the flue gases contain changing portions of noxious gases such as sulphur dioxide, nitrogen, hydrochloric and hydrofluoric acid as well as minor quantities of heavy metals and trances of toxic chlorinated carbons depending on the composition of the wastes.

To minimize the above mentioned pollutions we use a wet scrubber with two or more stages.

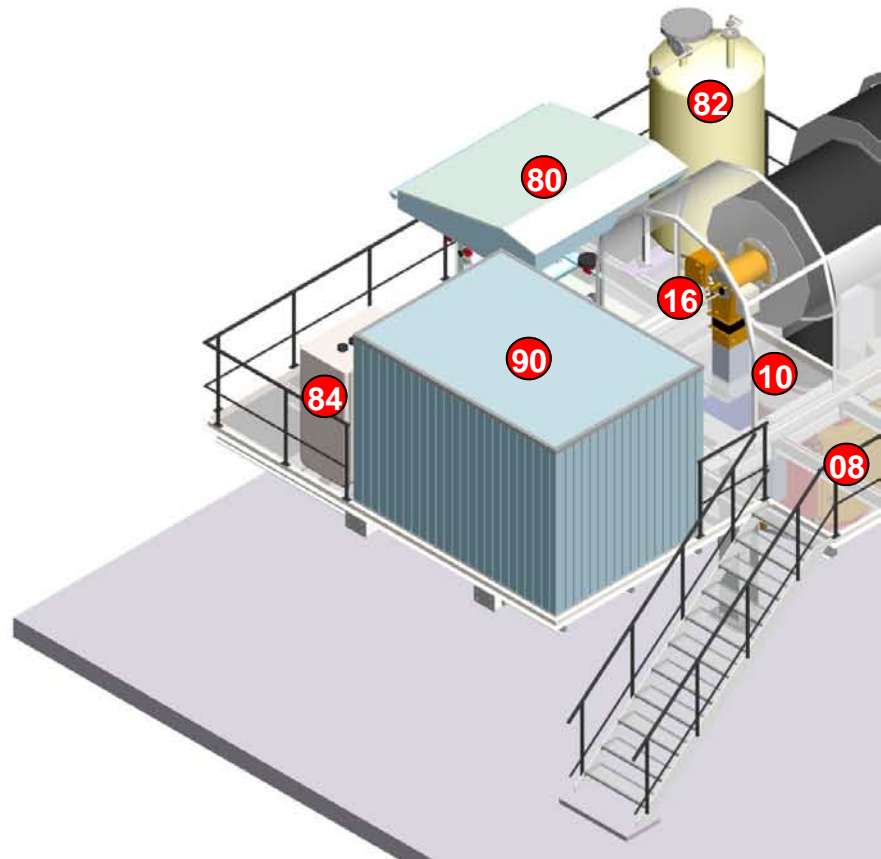
Continuous emission monitoring system

For the optimizing of process control and supervision of the flue gas emission we have integrated a continuous emission monitoring system on INSITU basis.



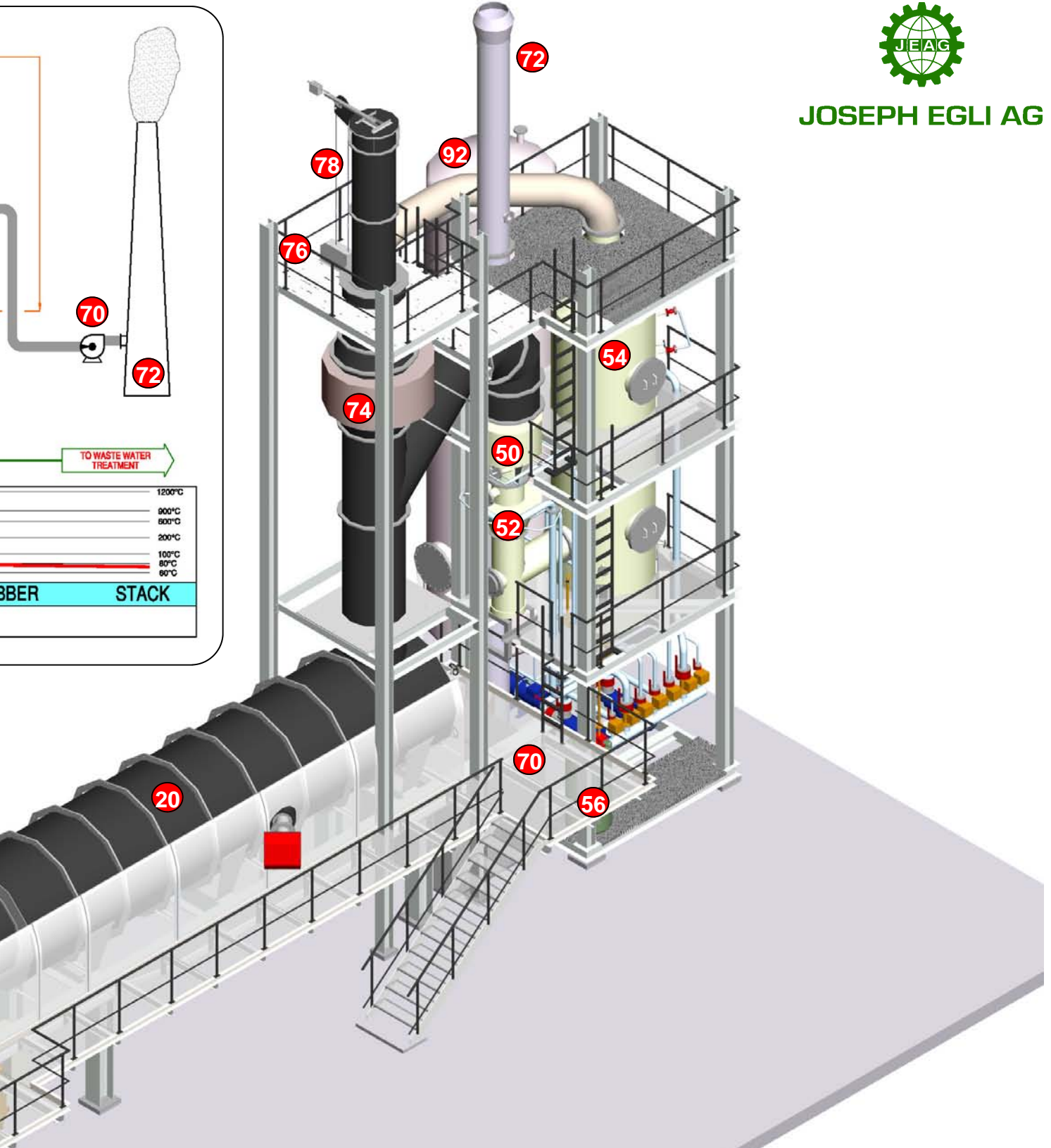


- 08 INCINERATOR
- 10 FEEDING RAMP
- 16 WASTE BURNER
- 20 COMBUSTION CHAMBER
- 30 POST COMBUSTION CHAMBER
- 31 REACTOR BURNER
- 50 QUENCHER
- 52 VENTURI
- 54 TWO STAGE SCRUBBER
- 58 NaOH SOLUTION TANK
- 70 I. D. FAN
- 72 STACK
- 74 FRESH
- 76 STACK VALVE
- 78 EMERGENCY STACK
- 90 CONTROL ROOM
- 92 WATER TANK





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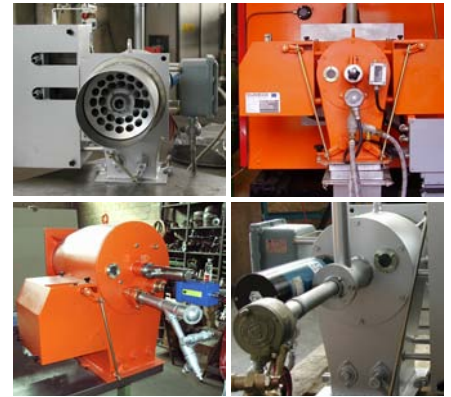
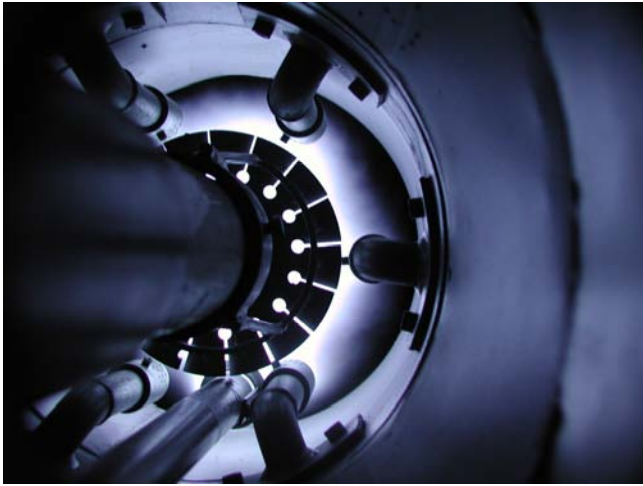


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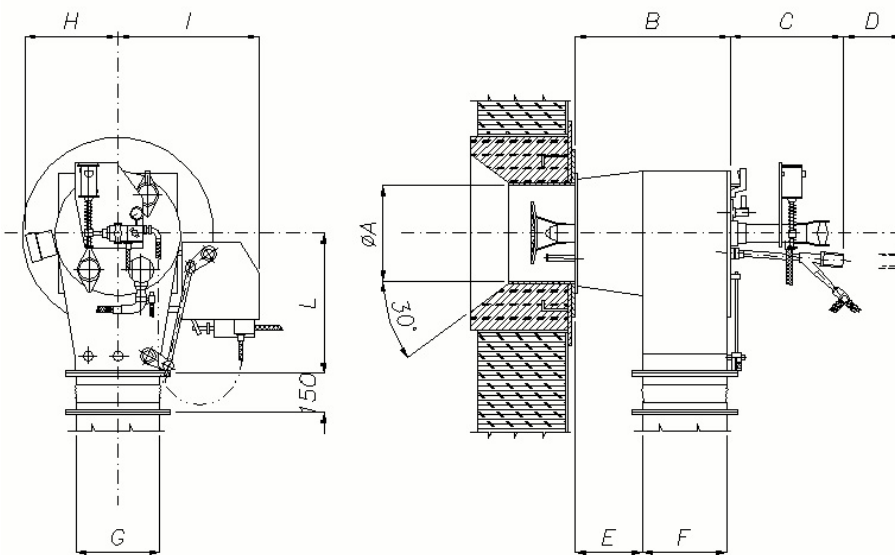
LG

BURNER, THE HEART OF THE COMBUSTION

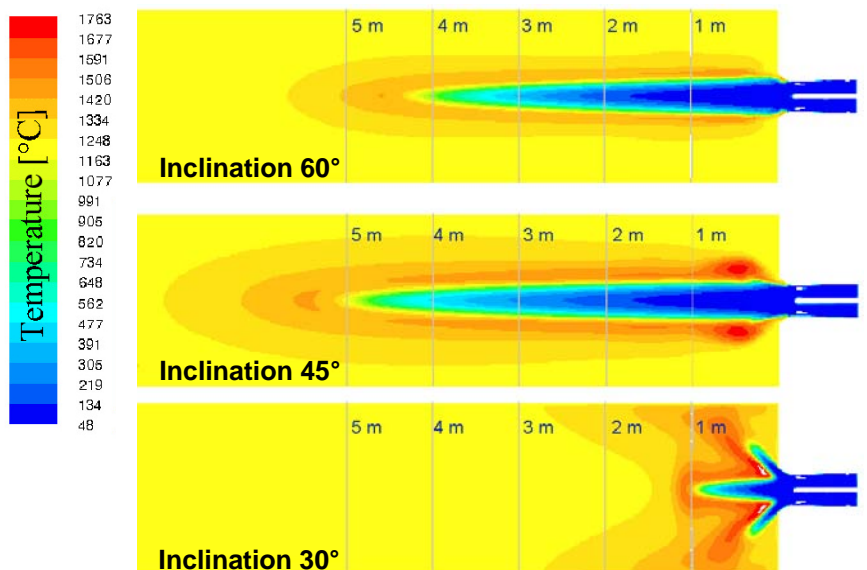
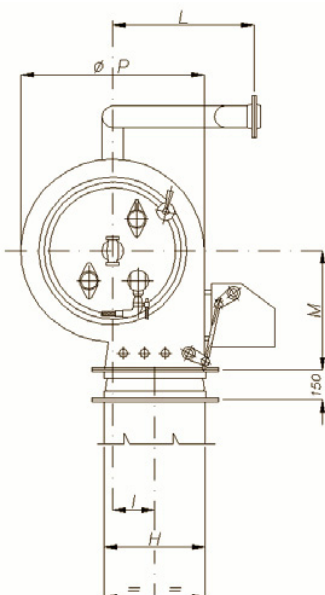
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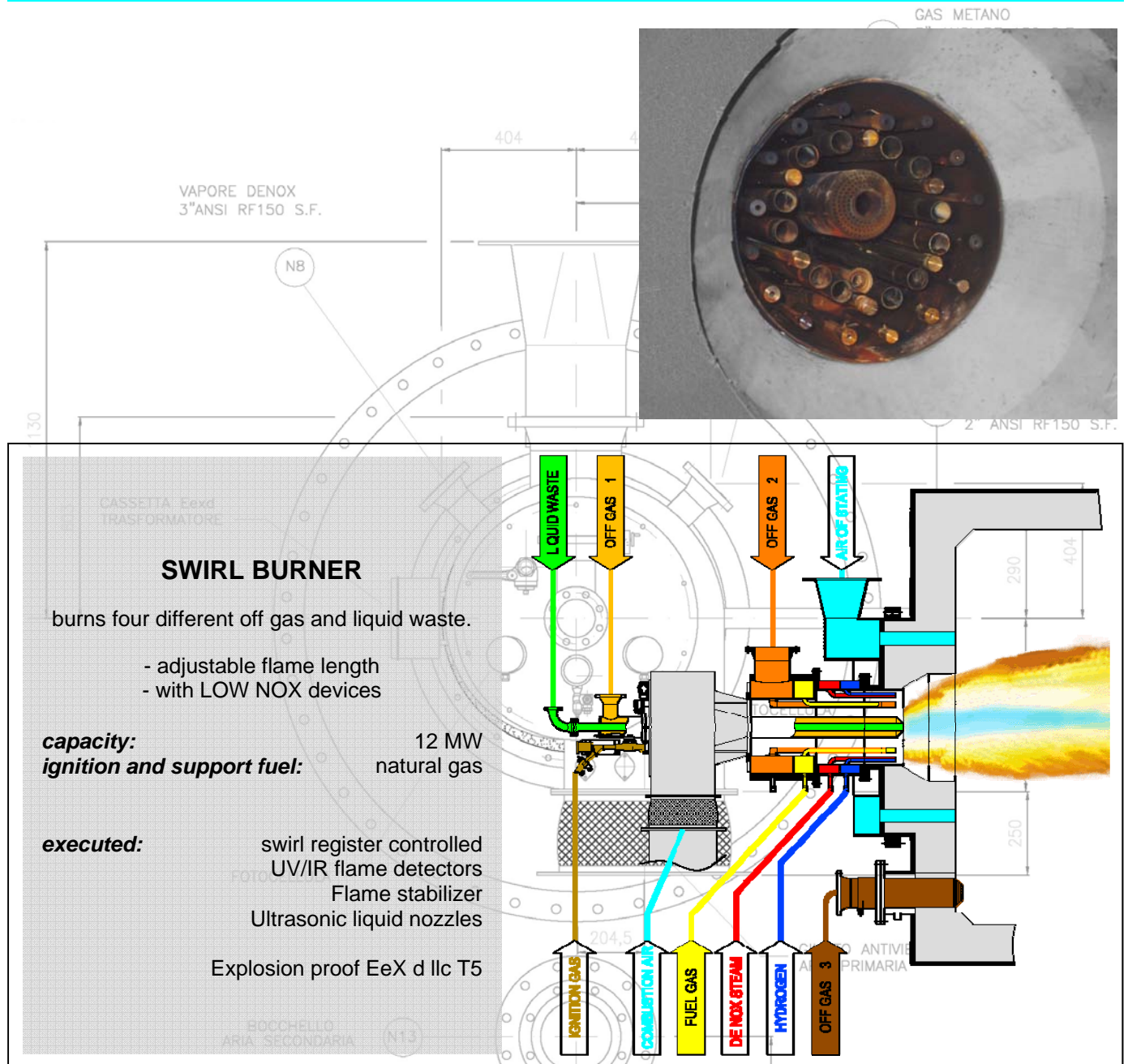
AXIAL BURNER



SWIRL BURNER



STATE OF THE BURNER TECHNOLOGY ARTE





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INCINERATION PLANTS

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