

The Emissions Reduction Incinerator

スカイメサイア™

SKY MESSIAH™



The Pioneer of Clean Energy

- To The Next Civilization

**Development/
Manufacturer**



Hydrogen Energy Laboratory Project Co., Ltd.

Environmental pollution by dioxin emitted from incineration facilities has globally been a serious problem.

Now in Japan, pollution control countermeasures for dioxin elimination are taken based on the Basic Guidelines for Dioxin Countermeasures and special counter-measures for dioxin, which sets the concrete emission control reference values for incineration facilities, and such values are strictly set to prevent undesirable dioxin influences upon the human health as well as the ecosystem.

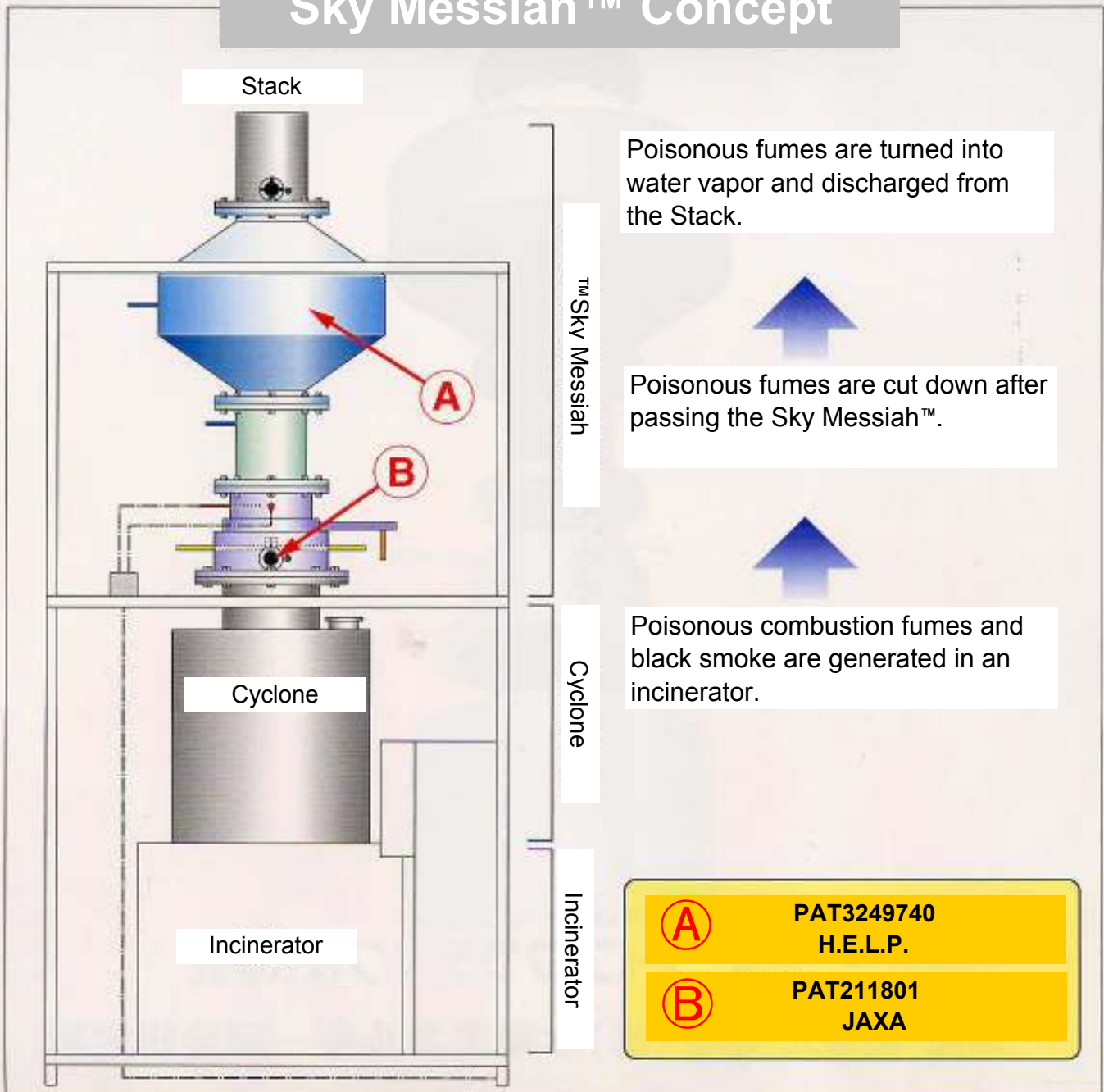
Up till now, large-scale investments were necessary to satisfy such emission standards, for both existing and newly developed equipments/machines.

Sky Messiah™ is a revolutionary equipment for emissions cut, including dioxin, from an incinerator and clears up related issues once for all.

The 2 most conspicuous features of Sky Messiah™ :

- (1) **Economical** compared with the other method-used systems (simple attachment to smoke intake)
- (2) **Maintenance-free** (complete combustion of combustible substances)

Sky Messiah™ Concept



Dioxin emission regulations

Degradable Value for Sky Messiah™

Emission standard	Burning capacity over 200kg/h less than 4t/h	Burning capacity over 2t/h less than 4t/h	Unit
New facility	Below 5.0ng		ng-TEQ/m³n
Existing facility (Jan 15.2003~)	Below 10ng	Below 5.0ng	

Remark 1 New facility : Installed after Jan. 15, 2000

Existing facility : Installed or started construction before Jan. 14, 2000

Remark 2 Unit : 'n' means one-billionth (1ng = 1/1,000,000,000 g or 10⁻⁹g)
TEQ(toxicity equivalence quantity)

〈Applicable rules or regulations〉
Special counter-measures for dioxin

Sky Messiah™ test run



Sky Messiah™ in operation

