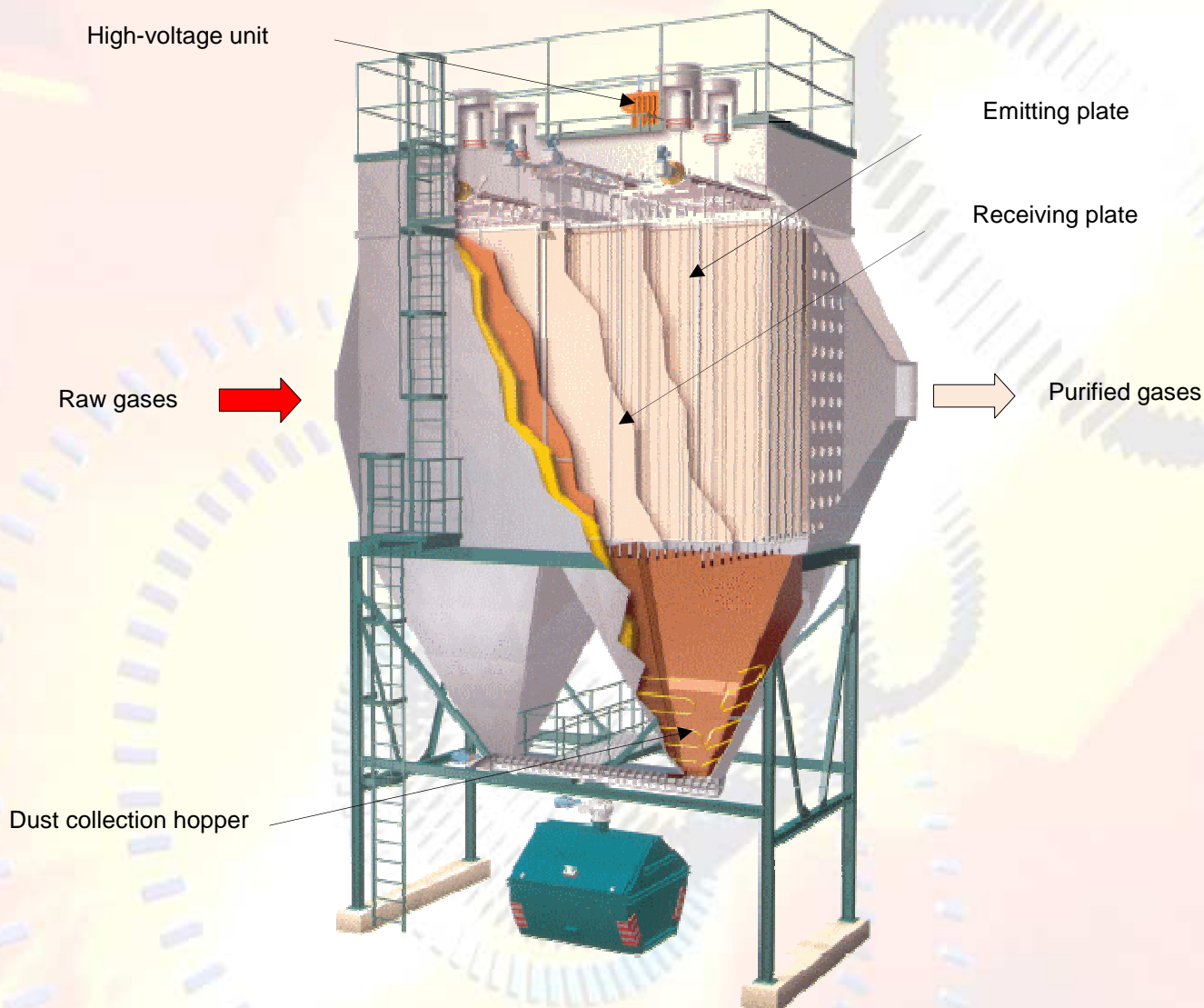


# ELECTROFILTER



## 1. PRINCIPLE



## 2. OPERATION

The equipment comprises vertical plates, arranged in the direction of gas flow, and alternately linked to a DC source (for emitting plates) and to the earth (for receiving plates). The resulting electric field acts on the electrically charged dust particles thus precipitating them towards the receiving plates. The adhering particles are shaken free by a vibrating system and collected in the lower part of a hopper.

The captation yield for this type of equipment is around 90%; however, this decreases if the dust concentration increases.

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# ELECTROFILTER



Guaranteed performance thresholds may be 20, 30, 50 or 100 mg/Nm<sup>3</sup>; these thresholds vary according to the nature of the fuel used.

## 4. PROS / CONS

### PROS

- Low fire risk,
- Guaranteed discharge threshold up to 20 mg/Nm<sup>3</sup>,
- Negligible load loss,
- Low operating cost

### CONS

- Overall dimensions: requires a low gas flow rate speed, and therefore a high volume,
- Cost of the civil engineering, when the filter is fitted internally,
- The minimum cost cannot be reduced whatever the furnace power (limit - 1 MW),
- Noise nuisance,
- Maintenance operations require electrical qualifications.

## 5. INSTALLATIONS



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