



CEB® 500

## Description

AEREON's Certified Ultra-low Emissions Burner (CEB®) technology is a device unlike any other in the market. The CEB® utilizes a proprietary premixed surface combustion technology to burn VOC-laden waste gases.

The primary advantages of the CEB® products versus conventional flares or open flares are ultra-low emissions and very high VOC destruction efficiencies (99.99%). This coupled with the compact footprint and no smoke, soot, or visible flame; make it a very attractive solution for vapor combustion requirements.

The compact footprint, simple installation, easy maintenance and very low life cycle/operational costs make the CEB® suitable for every type of application from continuous and discontinuous operation to emergency backup of other equipment.

## Advantages

Keep the environment clean when combusting your waste gases

- No luminous flame
- No odor
- No heat radiation
- No smoke
- Low height
- Small footprint
- Heat recovery available

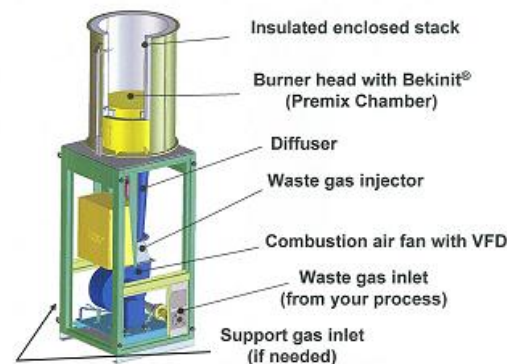
## Specifications

CAPACITY*	381,000 SCFD or 381 MSCFD (10,810 Nm <sup>3</sup> /day)
Maximum thermal capacity*	17 MMBTU/hr. (5.00 MWth)
Turndown ratio**	10:1
Footprint and height***	4'6" x 4'6" x 18' (137 x 137 x 549 cm)
Approximate weight	4,300 lbs. (1900 kg)
Waste gas supply pressure	10 – 80" WC (25 – 200 mbar(g))
Fan motor size	10 hp (7.5 kW <sub>e</sub> )
Waste gas connection	4" ANSI 150 lbs. RF
Support gas connection	2" ANSI 150 lbs. RF
Ignition System	Spark or pilot ignition
Operating temperature	1,800 to 2,200°F F (982 – 1204 °C)
Ground temperature	Ambient during operation

\*Capacity is based on natural gas with gross heating value of 1,069 BTU/scf (39.8 MJ/Nm<sup>3</sup>)

\*\* Turndown ratio can be increased for specific projects with customized units

\*\*\* Stack height is based on minimum height that meets EPA's protocol for position of the testing ports



## Principal Applications

### Petrochemical and chemical industries

- Vent gas flare
- Reactor, dryers and other process vents
- Tank loading
- Tank or pipeline degassing

### Biogas and Synthetic Gas applications

- Pipeline Purification
- Siloxane Removal Systems
- Low caloric value biogas streams

### Onshore upstream and midstream oil and gas

## Design Features

### Achievable emissions levels at 3% Oxygen\*:

- NO<sub>x</sub> ≤ 15 ppmv; ≤ 0.018 lbs/MMBTU (31.7 Mg/Nm<sup>3</sup>)
- CO ≤ 10 ppmv; ≤ 0.01 lbs/MMBTU (12.5 Mg/Nm<sup>3</sup>)
- C<sub>x</sub>H<sub>y</sub> ≤ 10 ppmv; ≤ 0.005 lbs/MMBTU (7.06 Mg/Nm<sup>3</sup>)

### Combustion efficiency:

- Up to 99.99% DRE over full operating range.

\*Emissions based on reference gas methane.