



Photo of two CEB® 350 units

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

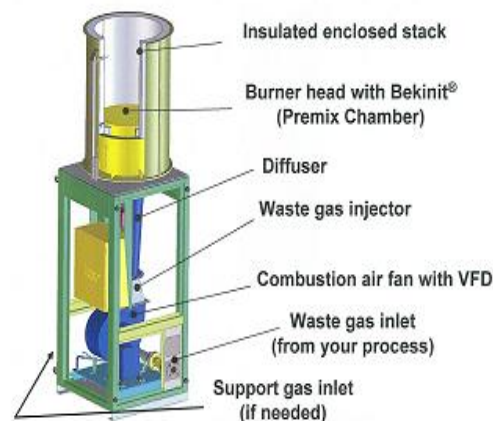
Specifications

Capacity*	270,000 SCFD or 270 MSCFD (7,600 Nm ³ /day)
Maximum thermal capacity*	12 MMBTU/hr (3.50 MWth)
Turndown ratio**	10:1
Footprint and height***	4'6" x 4'6" x 18' (137 x 137 x 549 cm)
Approximate weight	4,200 lbs. (1910 kg)
Waste gas supply pressure	10 – 80" WC (25 – 200 mbar(g))
Fan motor size	5.0 hp (3.7 kWe)
Waste gas connection	3" ANSI 150 lbs. RF
Support gas connection	1" ANSI 150 lbs. RF
Ignition System	Spark or pilot ignition
Operating temperature	1,800 to 2,200°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/Nm³)

** 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_x ≤ 15 ppmv; ≤ 0.018 lbs/MMBTU (31.7 Mg/Nm³)
- CO ≤ 10 ppmv; ≤ 0.01 lbs/MMBTU (12.5 Mg/Nm³)
- C_xH_y ≤ 10 ppmv; ≤ 0.005 lbs/MMBTU (7.06 Mg/Nm³)

Combustion efficiency:

- Up to 99.99% DRE over full operating range.

*Emissions based on reference gas methane.