

A row of industrial air conditioning units, likely for data centers, is shown in a facility. The units are white with metal grilles and are mounted on a concrete floor. The background shows a building with large windows and a sky with clouds.

safety POWER

ecoCUBE[®]

Global Emission Compliance for Data Center Applications

The World's Most Advanced Tier 4F Aftertreatment
Solution for Your Backup Power Needs

www.safetypower.com

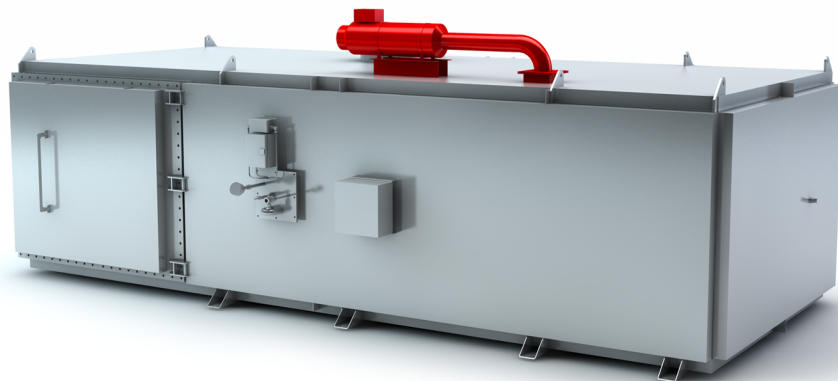
THE ECOCUBE® ADVANTAGE

- Offered as Tier 4F equivalent solution, which can meet or exceed BACT (Best Available Control Technology) and will not place your backup power solution into a possible forced shutdown (inducement)
- First emission system to be fully compliant with UL 2200 and UL 508A
- Up to 98+% NO_x Reduction by utilizing advanced CFD (Computational Fluid Dynamics) to fully optimize internal exhaust flow paths
- Industry's only emission system where standard design uses fully stainless-steel construction (prevents corrosion/rust) and factory insulation (increases time to compliance)
- Smallest available footprint and compatible with systems up to 4 MW
- Systems with built in silencing include hospital grade sound attenuation and can be upgraded to lower values if required



Pre-Heat System for Ultra Quick Compliance

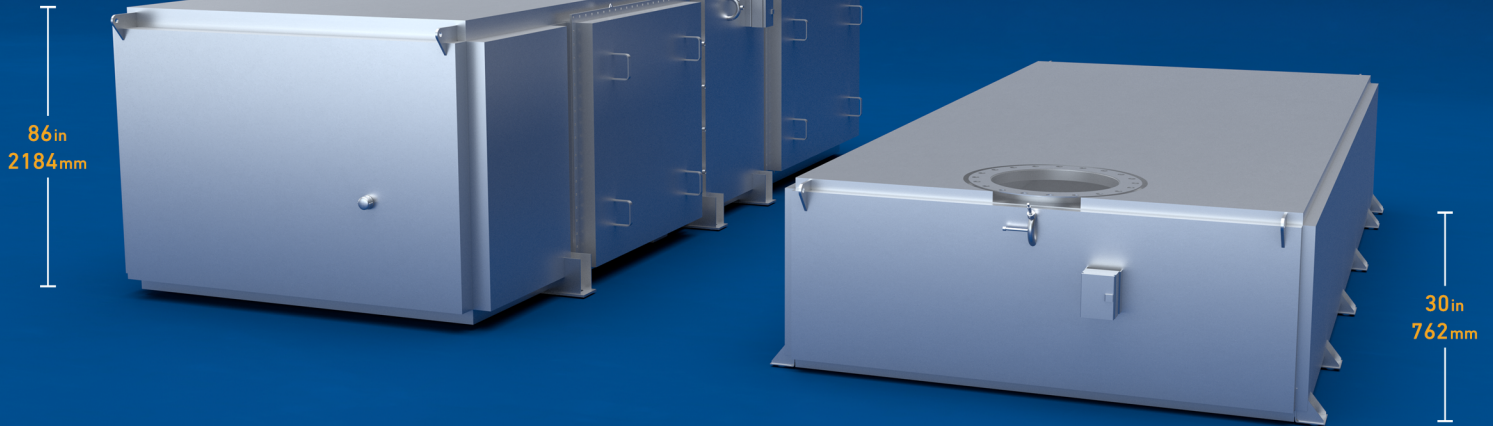
Many large data center campuses are evaluating ways to optimize their footprint and reduce waste. There is a lag time for any aftertreatment emission system while the cold internal sections of the system gradually warm from the hot exhaust gas. The Pre-Heat system conditions the ecoCUBE® before regular scheduled testing to quickly increase the internal temperature. This allows the DEF/Urea to be injected sooner and will allow for the targeted NO_x reduction to reach compliance levels within minutes. This add-on system also decreases the total tons/year of NO_x emitted from any targeted system, giving you the ability to fit more engines within your campus.



ECOCUBE® LP (LOW PROFILE)

Standard ecoCUBE®

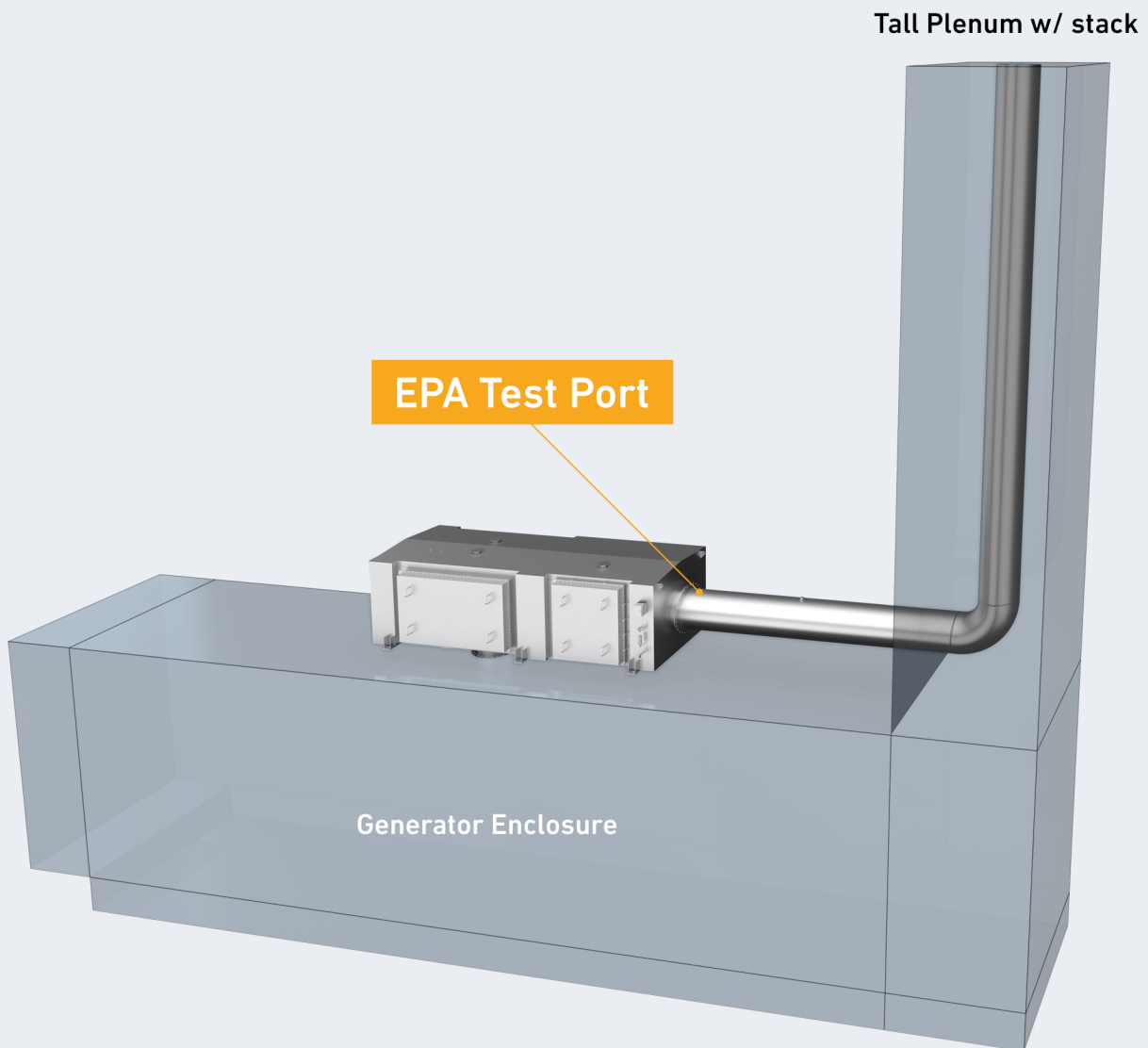
ecoCUBE® LP



This unique design was created for data center applications that only require NOx reduction:

- World's smallest NOx only system for data center applications to meet Tier 4F standards, standing at less than 30 inches tall
- As with all ecoCUBE® designs, all catalyst and sensors are shipped fully installed limiting costly onsite work is required
- Optional design to add oxidation capabilities (NOx + CO/NMHC) which may be necessary for very large data center campuses

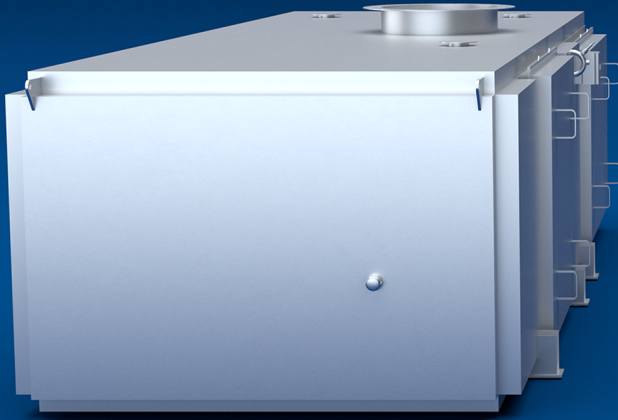
ECOCUBE® EO (END OUT)



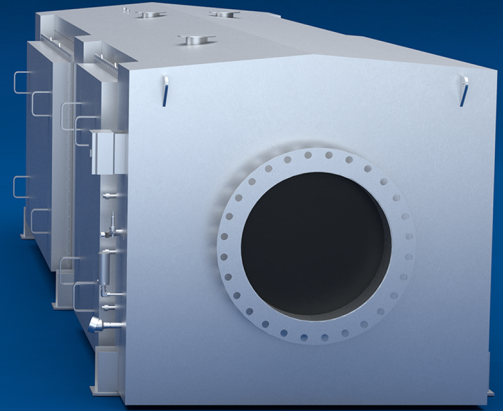
- Design was created after receiving similar feedback from many hyperscale data center clients requesting this design
- EPA test port is easily accessible for quick and accurate onsite emissions verification testing
- Can be configured for easy field upgradability adding full SCR or DPF functionality at a later date, when required by the site permit
- Ducting after the emission system can be routed through the vertical plenum of the enclosure for a streamlined look

ECOCUBE® NP (NARROW PROFILE)

Conventional
ecoCUBE®



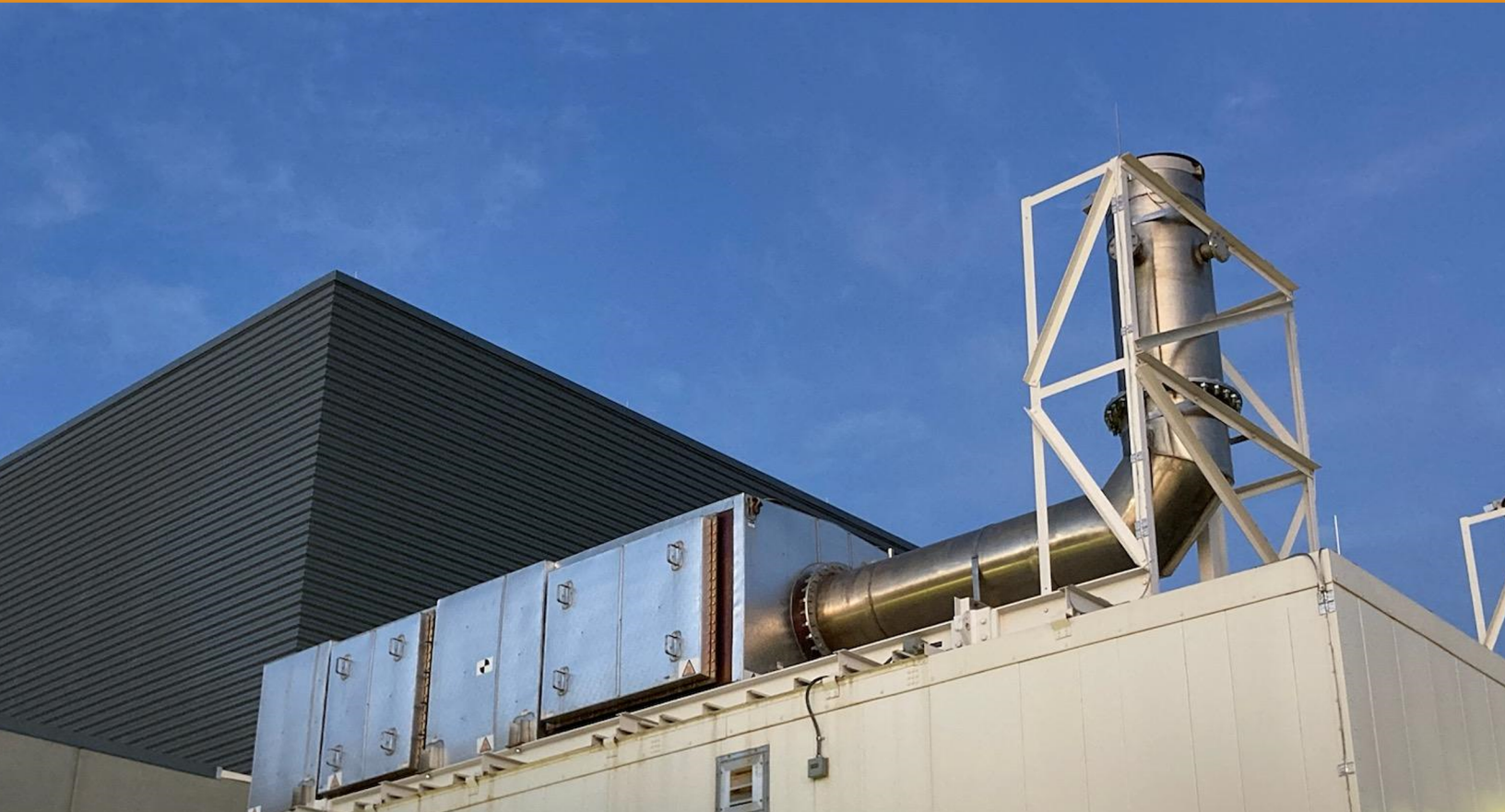
Improved ecoCUBE® NP
25% Smaller



The ecoCUBE® NP is the latest design improvement of the ecoCUBE® product line, drastically reducing the footprint required for a Tier 4F aftertreatment system:

- Upgraded urea mixing which facilitates higher NO_x reduction and lower NH₃ slip
- 25% smaller and 30% less weight than the current comparable ecoCUBE® reactor
- Passive catalyst DPF systems substantially reduce cost and have the added advantage of simultaneously reducing Carbon Monoxide (CO) and Non-Methane Hydrocarbons (NMHC)
- Two reactors can now be installed side-by-side for double stacked or double wide engine enclosures
- Allows for an End-Out outlet exhaust configuration, where the outlet ductwork can be routed directly through the plenum
- Improved sensor and service access points allowing for a safer working environment
- Optimal positioning of stack test ports which allows for easier emissions testing
- Can be shipped to any international location in an ISO shipping container

UPGRADABLE DESIGN



Safety Power's ecoCUBE® is the only emission system that offers fully field upgradable options and can be initially installed in four different configurations to meet your needs:

- 1** Silencing Only
- 2** NOx Reduction with Intergraded Silencing
- 3** NOx + CO/NMHC Reduction with Intergraded Silencing (For large data center sites where CO levels need to be controlled)
- 4** Full Tier 4F (Diesel Particulate Filters, NOx Reduction, CO/NMHC Reduction, and Intergraded Silencing)