



EcoCTA System Design

The Plug & Play design of the EcoCTA has all components necessary for the demanding requirements of pressurization, temperature, humidity, filtration and condensation control.

The EcoCTA's fully-welded, circular design guarantees complete draining and eliminates stagnant water, ensuring hygienic conditions for your units.

This Plug n' Play solution—equipped with a mounted electrical cabinet and adaptable for any system—can seamlessly meet the most demanding applications and reduce the engineering, installation and start-up time needed.

DESIGN FEATURES & BENEFITS

Plug n' Play

- Pre-wired (fans & sensors), connected to electrical cabinet & control panel
- Aqua Ammonia (NH4) option allows quick tie-ins to any type of ammonia system (DX, pumped, flooded)
- Integrated regulation of exhaust and gas burner.

Superior Cleanliness

- Lightweight plastic casing with circular design ensures no water retention
- Non-corrosive components are compatible with cleaning agents (acids/bases)
- 100% welded circular casing, completely smooth, without retention zone (no silicone seal)

Energy Efficient

- EcoFilters— with low pressure drop, longer lifetime— are prefilters that reduce energy consumption up to 20%
- Only replace pre-filters once per year
- EC Fans ensure efficient ventilation with VFDs and turbine motor—energy consumption reduced by up to 15%

STANDARD DESIGN



Exterior Casing

- Polypropylene (PPH)
- Polyethylene (PEHD)



Heat Exchange

- Coil with finned tubes



Ventilation

- Electronically Communicated Fans



Cleanability

- Foam gun
- Circular casing prevents stagnant water



Filters

- Clauger EcoFilters
- Final filter module (option)



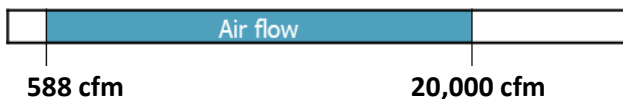
Natural Gas Heaters (winter conditions)

- Reheat outside fresh air

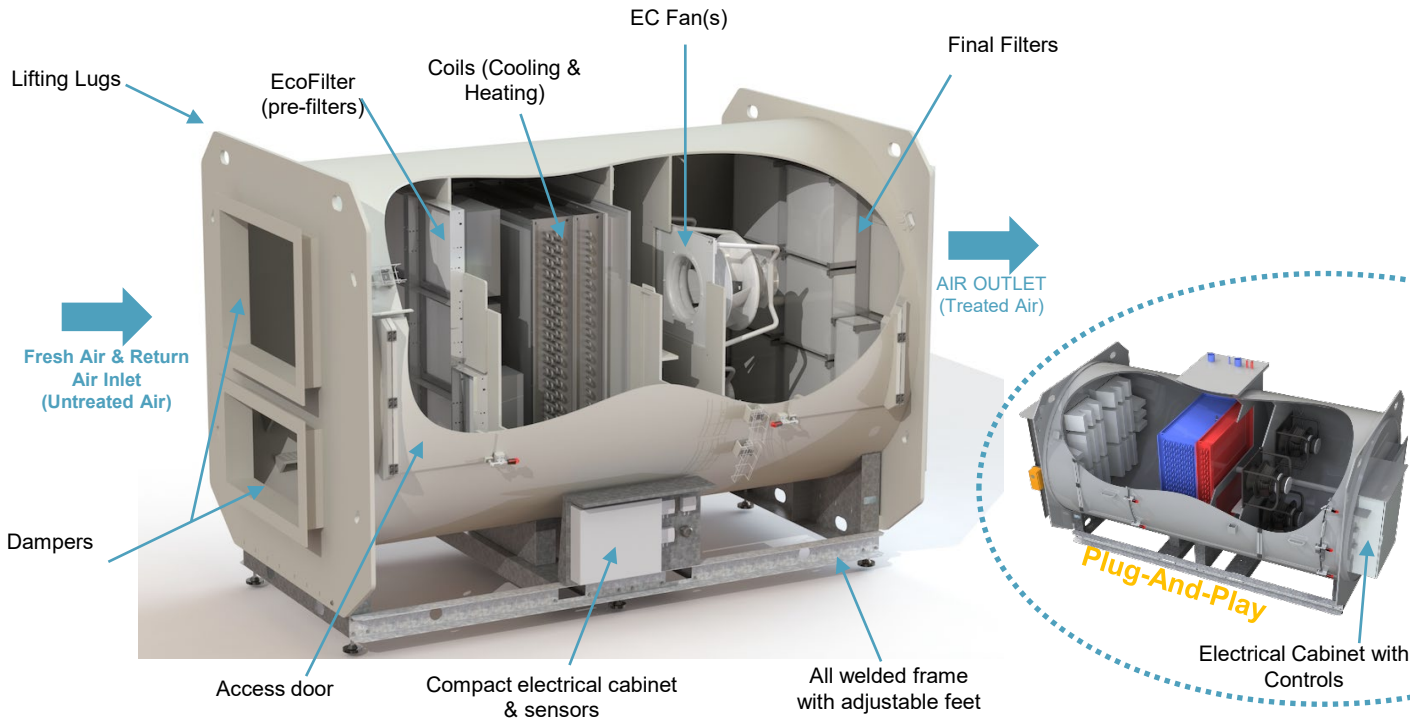


Adiabatic (option)

- Reduces cost of cooling

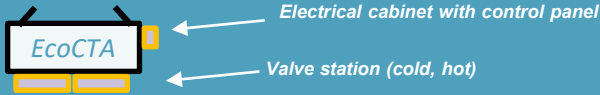


TECHNICAL SPECIFICATIONS



EcoCTA Standard Components (Plug-And-Play)

- EcoFilter (pre-filter)
- Pressure Sensors: filters, fans, suction
- Temperature sensor (Supply air)
- Safety Switches on Access Doors
- Damper actuators (Fresh air and return air)
- Interior LED Lights
- Complete Pre-wiring on electrical box with automate
- Washing function (Control of the room extractor)



Additional Options

- HEPA Terminal Filters
- Adiabatic cooling
- Insulated casing for outside conditions
- Protective Stainless-Steel exterior
- Cold valve station ready to connect (not isolated)
- Hot valve station ready to connect (not insulated)
- Cube NRJ Compact Cold NH3/Glycol
- Cube NRJ Compact Hot Gas/Glycol
- E-streaming (1 sensor+ controls extension)

Model	CFM Range (CFM)	Diameter (inch)	Length (inch)	Width (inch)	Height (inch)
EcoCTA-5	500 - 5000	59	158	86	95
EcoCTA-7	5,001 - 7,500	78 3/4	158	92	98
EcoCTA-10	7,501 - 10,000	86 5/8	158	98	100
EcoCTA-15	10,001 - 15,000	98 1/2	158	116	112
EcoCTA-20	15,001 - 20,000	118 1/8	158	136	126

* The models above are standard sizes. It's possible to manufacture the EcoCTA with air flows ranging from 500 to 20,000 CFM. Custom designs available upon request.