

MODEL:EC48 /
C4830

ENCLOSED
COMBUSTOR

EPA Certified & Fully Compliant
Combustor Solutions

COMBUSTOR Model: EC48 / C4830 - Specification Sheet

EPA Certified Unit: Leed Fabrication model EC48 technology now owned by Hero.



Combustion Chamber

- 48" Diameter x 25' overall height
- Carbon Steel Shell w/ 3" Internal Insulation
- Guy wire supported
- Air Arrestor Inlet Element

Burner Assembly

- Five (5) 304 stainless steel burner assemblies
- Premix burner technology
- 3" NPT inlet connection
- Two (2) Stage Burner Assembly

Gas Pilot

- Stainless steel nozzle & body
- Pilot removeable from outside combustor
- High voltage Ignition
- Ionization flame detection

Standard Controls

- 3" Waste gas pneumatic butterfly valve
- Pilot gas solenoid valve
- Stack temperature monitoring
- Arrestor flashback monitoring (*optional item*)

Burner Management System (BMS)

- NEMA 4X enclosure
- LED display with navigation buttons
- Remote monitoring / Modbus interface
- Remote start / stop contacts
- Fully automated BMS
- 24/7 pilot monitoring / auto re-light
- Pilot data logging (*optional item*)
- Stack high temperature shut down

Required Site Utilities

Pilot Gas : Natural Gas: 15 SCFH @ 5 psig or Propane: 6 SCFH @ 3 psig

Electric : 120VAC (3 Amps) or 12VDC Battery / Solar

Instrument Air / Gas: Waste gas valve can operate on instrument air or gas

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3RD PARTY VERIFIED TEST CONDITIONS

Maximum Tested Flow Rate :	30.3	MSCFD
Maximum Tested Heat Capacity :	3.0	MMBTU/HR
Waste Gas Net Heating Value (NHV):	2,350	BTU/SCF
Waste Gas Molecular Weight :	44	
Approximate Gas Temperature:	80 to 115	F
Air, Gas, Steam or Pressure Assist Burners:	None	

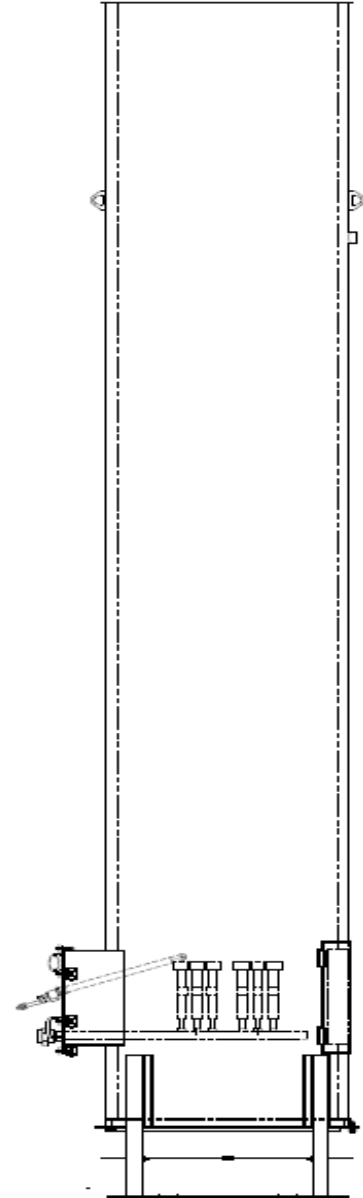
3RD PARTY VERIFIED TEST EMISSION RESULTS

Destruction & Removal Efficiency (DRE) :	99.9	%
Visual Emissions Observed :	None	Per method 22
Carbon Monoxide :	< 10	ppmv
Minimum Temperature Required :	None *	

* Emission test results based on testing unit at following flow rates without any temp. control required: 90-100%, 70-100-70%, 30-70-30%, & 0-30-0%.

HERO PERFORMANCE GUARANTEE

Maximum Design Flow Capacity :	27	MSCFD
Maximum Design Heat Capacity :	2.7	MMBTU/HR
Waste Gas Net Heating Value (NHV):	2,400	BTU/SCF
Min. Allowable Gas Net Heating Value (NHV):	200	BTU/SCF
Waste Gas Temperature:	60 to 220	F
Destruction & Removal Efficiency (DRE):	> 98	%
Continuous Monitored Gas Pilot	Yes	

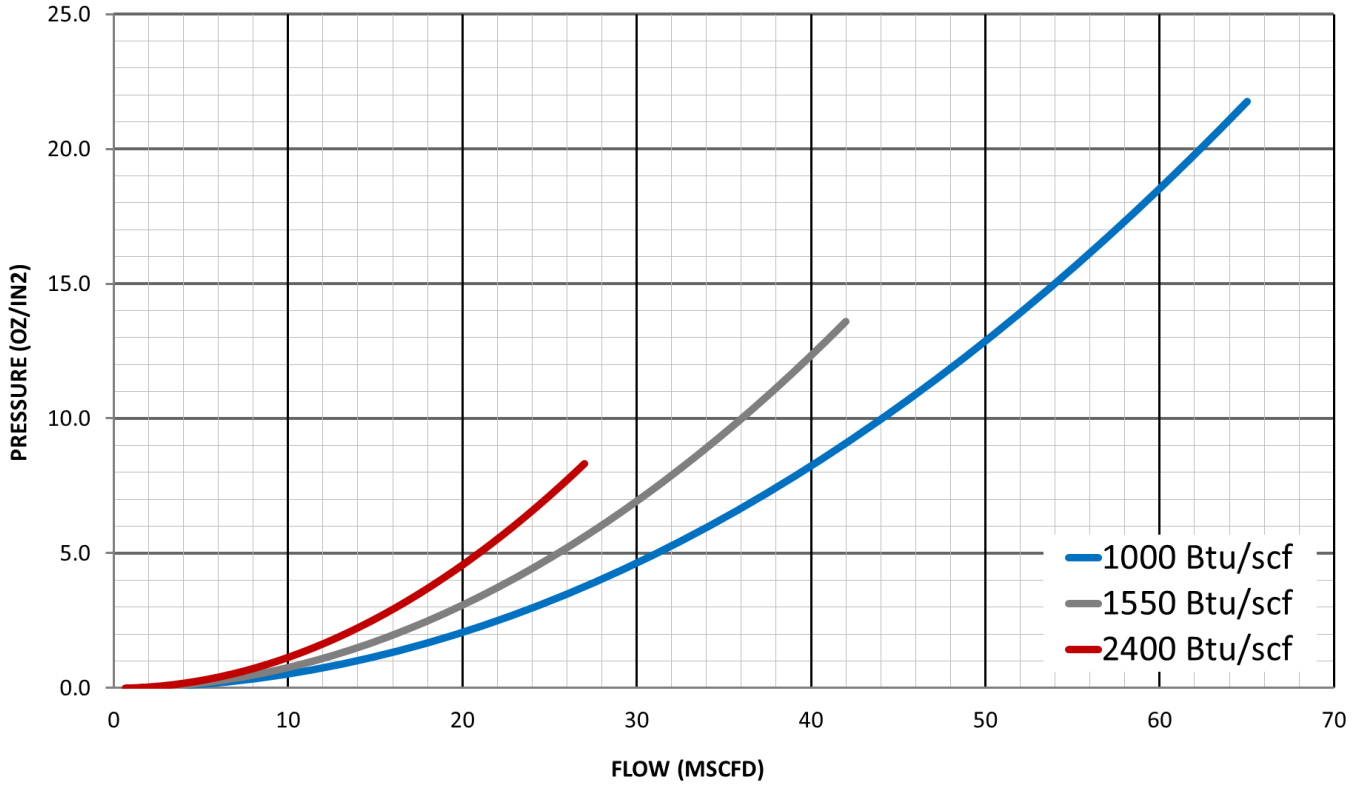


PERFORMANCE GUARANTEE NOTES

1. The Hero performance guarantee for this unit is lower than the flow rates tested during the mfg. test per EPA standards CFR 60.5412b & CFR 60.5413b to allow for field conditions vs. test conditions (i.e. taller stack required during EPA testing to measure stack emission samples vs actual certified stack height).
2. Refer to Hero EC48 flow curves to identify maximum flow rate & pressure required for your specific net heating value (NHV) if other than 2,400 Btu/scf.
3. If combustor performance is needed for site-specific design parameters contact Hero at sales@heroflare.com for assistance.

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Capacity Flow Curve
Model EC48
(0000 Certified)



Heat Release Curve
Model EC48
(0000 Certified)

