

MODEL: C2420

ENCLOSED
COMBUSTOR

EPA Certified & Fully Compliant
Combustor Solutions

EPA Certified Unit: Tripoint Oil & Gas Production System model 24" combustor rebranded by Hero as model C2420

Combustion Chamber

- ◆ 24" Diameter x 20' overall height
- ◆ 304 Stainless steel stack (*non insulated*)
- ◆ Guy wire supported
- ◆ Damper Air Inlet

Burner Assembly

- ◆ Six (6) 304 stainless steel burner assemblies
- ◆ Premix burner technology
- ◆ 3" NPT inlet connection
- ◆ 1/4" pressure tap

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 :	<u>48</u>	MSCFD
Maximum Tested Heat Capacity :	<u>4.5</u>	MMBTU/HR
Waste Gas Net Heating Value (NHV):	<u>2,400</u>	BTU/SCF
Waste Gas Molecular Weight :	<u>44</u>	
Gas Temperature:	<u>80 to 110</u>	F
Air, Gas, Steam or Pressure Assist Burners:	<u>None</u>	

3RD PARTY VERIFIED TEST EMISSION RESULTS

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

* 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 :	<u>25</u>	MSCFD
Maximum Design Heat Capacity :	<u>2.5</u>	MMBTU/HR
Waste Gas Net Heating Value (NHV):	<u>2,400</u>	BTU/SCF
Min. Allowable Gas Net Heating Value (NHV):	<u>200</u>	BTU/SCF
Waste Gas Temperature:	<u>60 to 220</u>	F
Destruction & Removal Efficiency (DRE):	<u>> 98</u>	%
Continuous Monitored Gas Pilot	<u>Yes</u>	



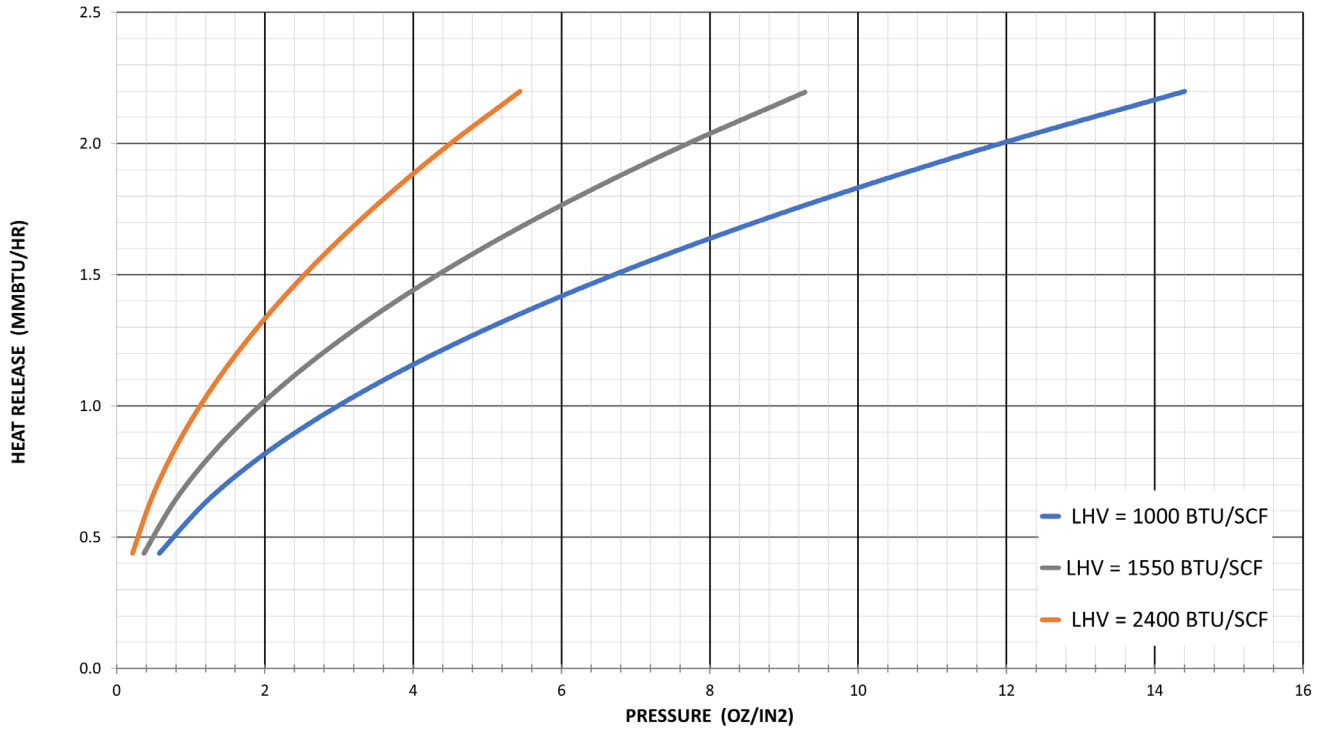
PERFORMANCE GUARANTEE NOTES

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 C2420 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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Heat Release Capacity Curve

Combustor Model C2420
(3rd Party Quad O Tested & Certified)



Capacity Flow Curve

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