

MODEL: C1820

ENCLOSED
COMBUSTOR

EPA Certified & Fully Compliant
Combustor Solutions

EPA Certified Unit: Tripoint Oil & Gas Production System model 18" combustor now rebranded by Hero as model C1820

Combustion Chamber

- ◆ 18" Diameter combustion chamber
- ◆ 304 Stainless steel stack (*non insulated*)
- ◆ Guy wire supported
- ◆ Damper Air Inlet

Burner Assembly

- ◆ Two (2) 304 stainless steel burner assemblies
- ◆ Premix burner technology
- ◆ 2" 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

- ◆ 2" 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 :	16.6	MSCFD
Maximum Tested Heat Capacity :	1.59	MMBTU/HR
Waste Gas Net Heating Value (NHV):	2,300 to 2,400	BTU/SCF
Waste Gas Molecular Weight :	43 to 44	
Gas Temperature:	80 to 110	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 GUARANTEES

Maximum Design Flow Capacity :	12	MSCFD
Maximum Design Heat Capacity :	1.0	MMBTU/HR
Waste Gas Net Heating Value (NHV):	2,300 to 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	

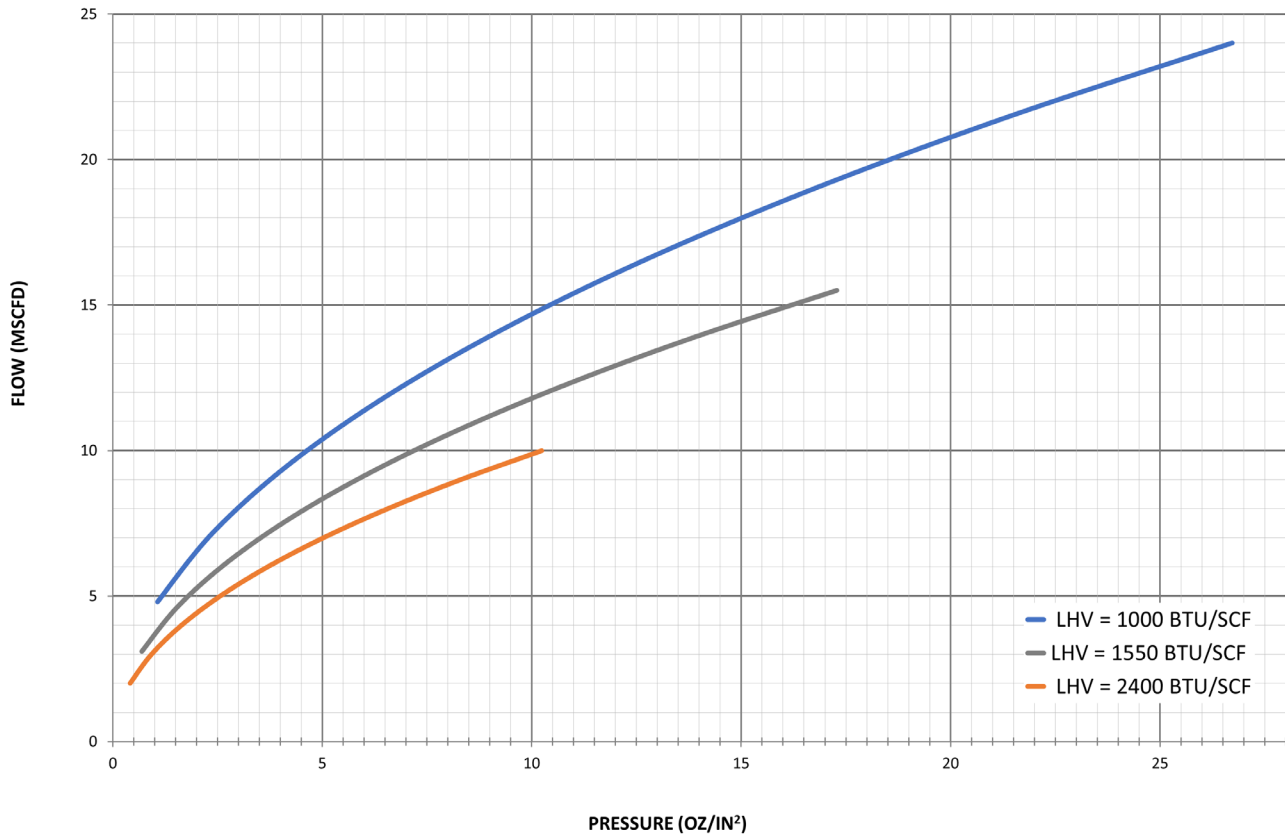


PERFORMANCE GUARANTEE NOTES

- 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).
- 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.
- If combustor performance is needed for site-specific design parameters contact Hero at sales@heroflare.com for assistance.

Capacity Flow Curve

Combustor Model: C1820
(3rd Party Quad O Tested & Certified)



Heat Release Capacity Curve

Combustor Model C1820
(3rd Party Quad O Tested & Certified)

