



Specification Sheet
Models VH050 – VH075

Model Specifications

Model Parameter		VH050		VH075	
Maximum Input, BTU/hr		500,000		750,000	
Minimum Input, BTU/hr (On-ratio)		50,000		75,000	
Minimum Input, BTU/hr (Fixed Air)		10,000		15,000	
Combustor Type High-velocity (HV), Medium-velocity (MV)		HV	MV	HV	MV
Inlet Fuel Pressure, "w.c.	Natural Gas	15.4	9.2	13.2	7.8
	Propane	15.2	10.0	15.8	9.5
Inlet Air Pressure, "w.c. 10% excess air at maximum input	Natural Gas	16.0	10.0	15.2	9.3
	Propane	15.4	10.2	16.9	11.0
High fire Visible Flame Length, inches Measured from the outlet end of the combustor	Natural Gas	25	28	28	28
	Propane	33	36	30	38
Approximate Flame Velocity, ft/s Approximately 10% excess air at maximum output		540	320	480	250
Maximum Operating Temperature, °F	Alloy combustor	1,750			
	Ceramic combustor	2,500			
	Refractory combustor	2,800			
Maximum Combustion Air Temperature, °F For higher temperatures contact Algas-SDI		300			
Flame Detection	Flame Rod	For operating temperatures up to 2,200°F			
	UV Scanner	½" or ¾" NPT adapters			
		Natural gas or Propane			
Burner Weight, lbs	Alloy combustor	34			
	Ceramic combustor	33			
	Refractory combustor	90			

- All information is based on laboratory testing in neutral (0"w.c) pressure chamber.
- Different chamber conditions may affect the data.
- All inputs based upon standard conditions; 1 atmosphere, 70°F, and higher heating values (HHV).
- For applications other than standard conditions, contact Algas-SDI.
- Algas-SDI reserves the right to change the design and/or configuration of Algas-SDI products.

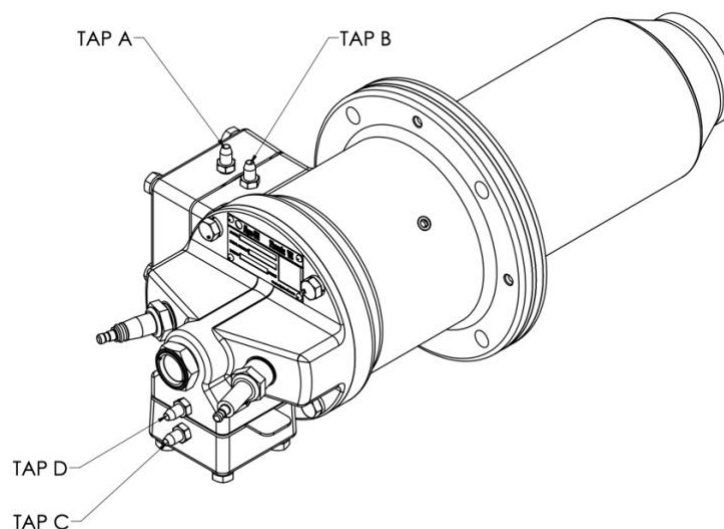
Setup Specifications

ΔP Across Orifice vs. Input (On-ratio operation)

				Input BTU/hr		
				250,000	375,000	500,000
VH050	ΔP Across Orifice ("w.c. \pm 5%)	Natural Gas	C-D	11.5	1.5	3.3
		Propane	C-D	8.5	1.8	4.4
		Air	A-B	42.0	1.0	2.8
				375,000	562,500	750,000
VH075	ΔP Across Orifice ("w.c. \pm 5%)	Natural Gas	C-D	13.5	1.7	3.7
		Propane	C-D	10.0	2.0	4.0
		Air	A-B	49.0	1.2	3.0

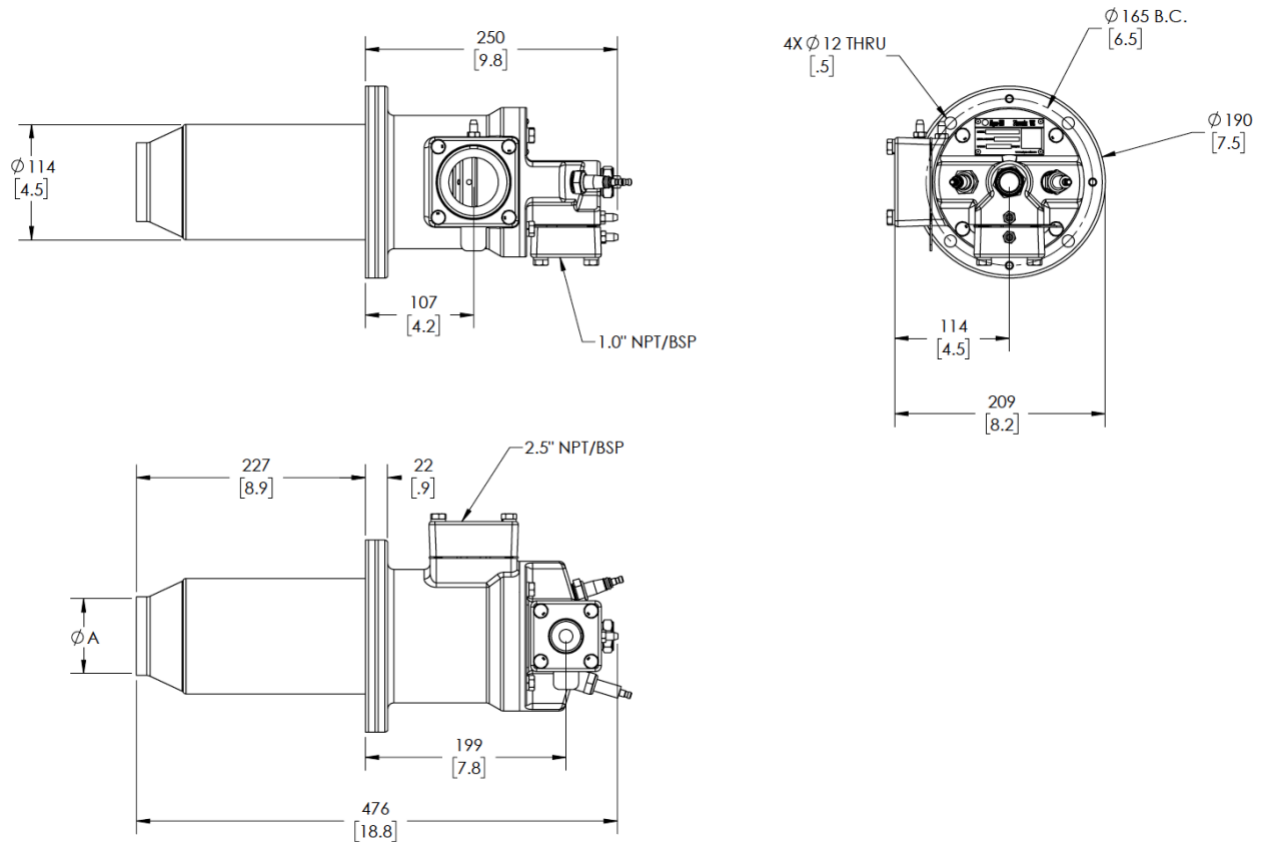
- Plumbing of air and gas will affect accuracy of orifice readings.
- Information is based on acceptable/industry-established air and gas piping practices.

Pressure Tap Locations



Product Dimensions – Alloy Combustor

mm [inches]

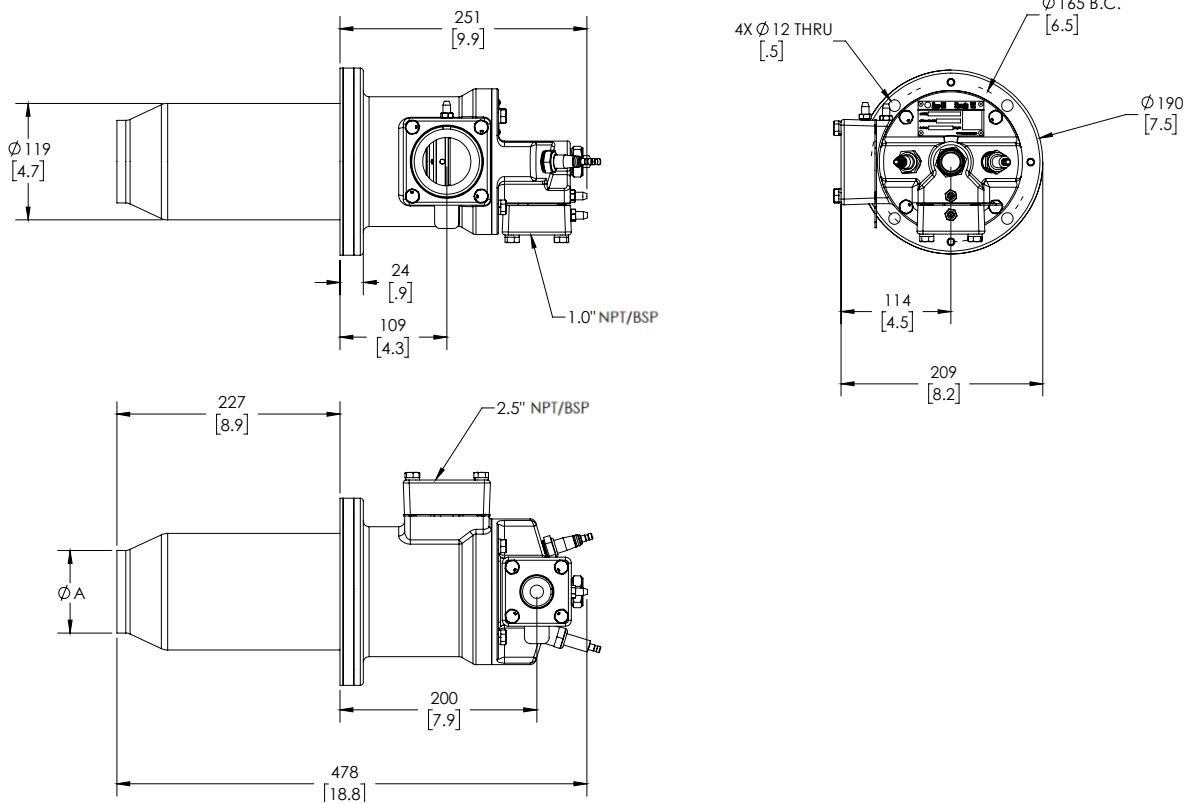


Model	Combustor outlet diameter* ("A")	
	High Velocity	Medium Velocity
VH050	$\phi 41.0$ [1.6]	$\phi 53.5$ [2.1]
VH075	$\phi 53.5$ [2.1]	$\phi 74.0$ [2.9]

* Inside dimension of the combustor outlet

Product Dimensions – Ceramic Combustor

mm [inches]

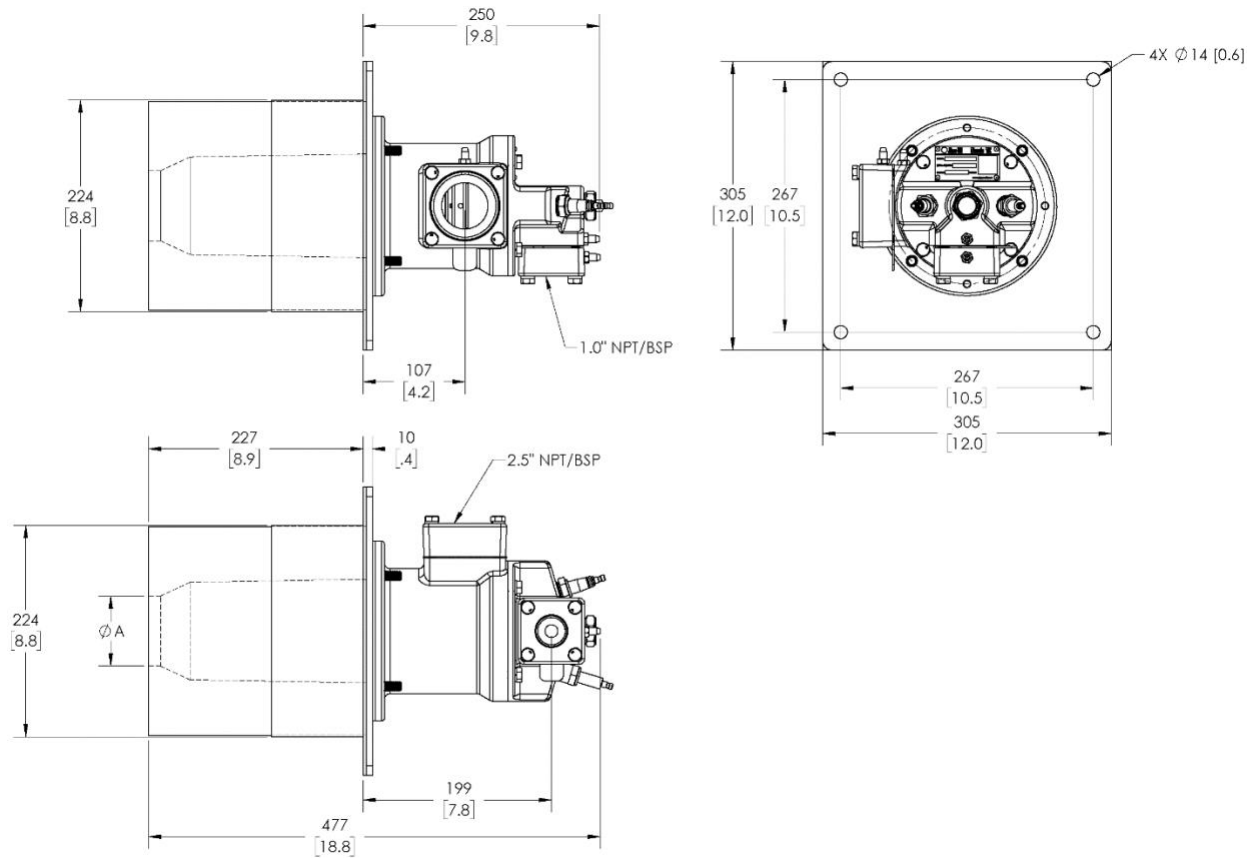


Model	Combustor outlet diameter* ("A")	
	High Velocity	Medium Velocity
VH050	$\varnothing 41.0$ [1.6]	$\varnothing 53.5$ [2.1]
VH075	$\varnothing 53.5$ [2.1]	$\varnothing 74.0$ [2.9]

* Inside dimension of the combustor outlet

Product Dimensions – Refractory Combustor

mm [inches]



Model	Combustor outlet diameter* ("A")	
	High Velocity	Medium Velocity
VH050	$\phi 41.0$ [1.6]	$\phi 53.5$ [2.1]
VH075	$\phi 53.5$ [2.1]	$\phi 74.0$ [2.9]

* Inside dimension of the combustor outlet

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