



Specification Sheet
Model VH0500 – VH0750
(Applicable for versions 2.0 and higher)

Model Specification

Model Parameter		VH0500		VH0750	
Maximum Input, kW		1,319		1,978	
Minimum Input, kW (On-ratio)		132		185	
Minimum Input, kW (Fixed Air)		26		40	
Combustor Type High-velocity (HV), Medium-velocity (MV)		HV	MV	HV	MV
Inlet Fuel Pressure, mbar	Natural Gas	28.6	12.4	28.9	23.1
	Propane	34.8	14.9	N/A	
Inlet Air Pressure, mbar 10% excess air at maximum input	Natural Gas	35.6	23.6	33.6	31.6
	Propane	42.3	24.9	N/A	
High fire Visible Flame Length, mm Measured from the outlet end of the combustor	Natural Gas	1,905	2,540	1,905	
	Propane	2,286	2,540	N/A	
Approximate Flame Velocity, m/s Approximately 10% excess air at maximum output		155	84	125	91
Maximum Operating Temperature, °C	Alloy combustor	950			
	Refractory combustor	1,540			
Maximum Combustion Air Temperature, °C For higher temperatures contact Algas-SDI		150			
Flame Detection		UV Scanner (½" or ¾" NPT adapter)			
Fuels For any other mixed gas, contact Algas-SDI		Natural gas or Propane			
Burner Weight, kg	Alloy combustor	68			
	Refractory combustor	136			

- All information is based on laboratory testing in neutral (0 mbar) pressure chamber.
- Different chamber conditions may affect the data.
- All inputs based upon standard conditions; 1 atmosphere, 21°C, and lower heating values (LHV).
- 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.

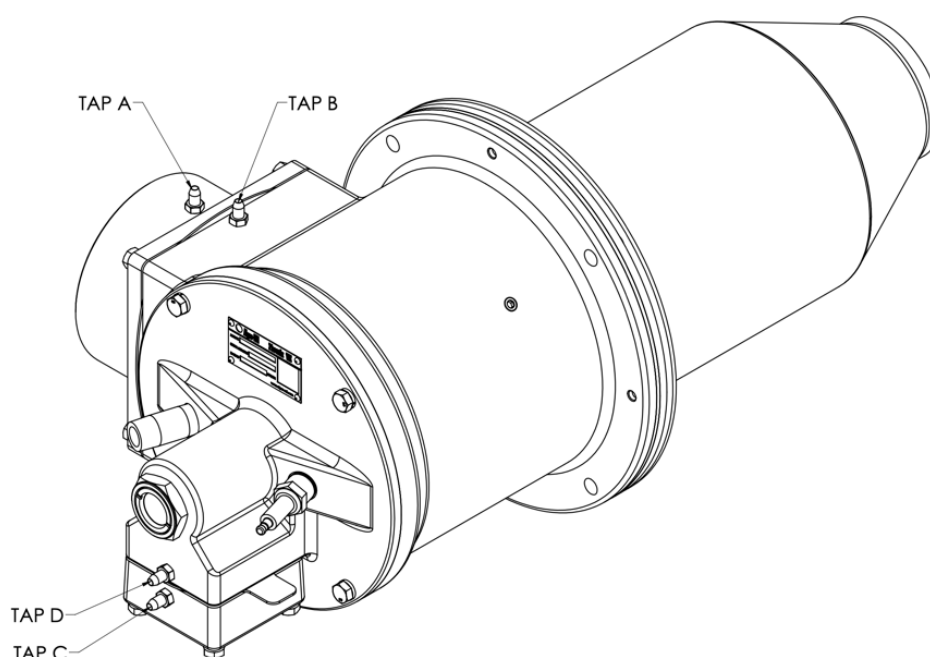
Setup Specifications

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

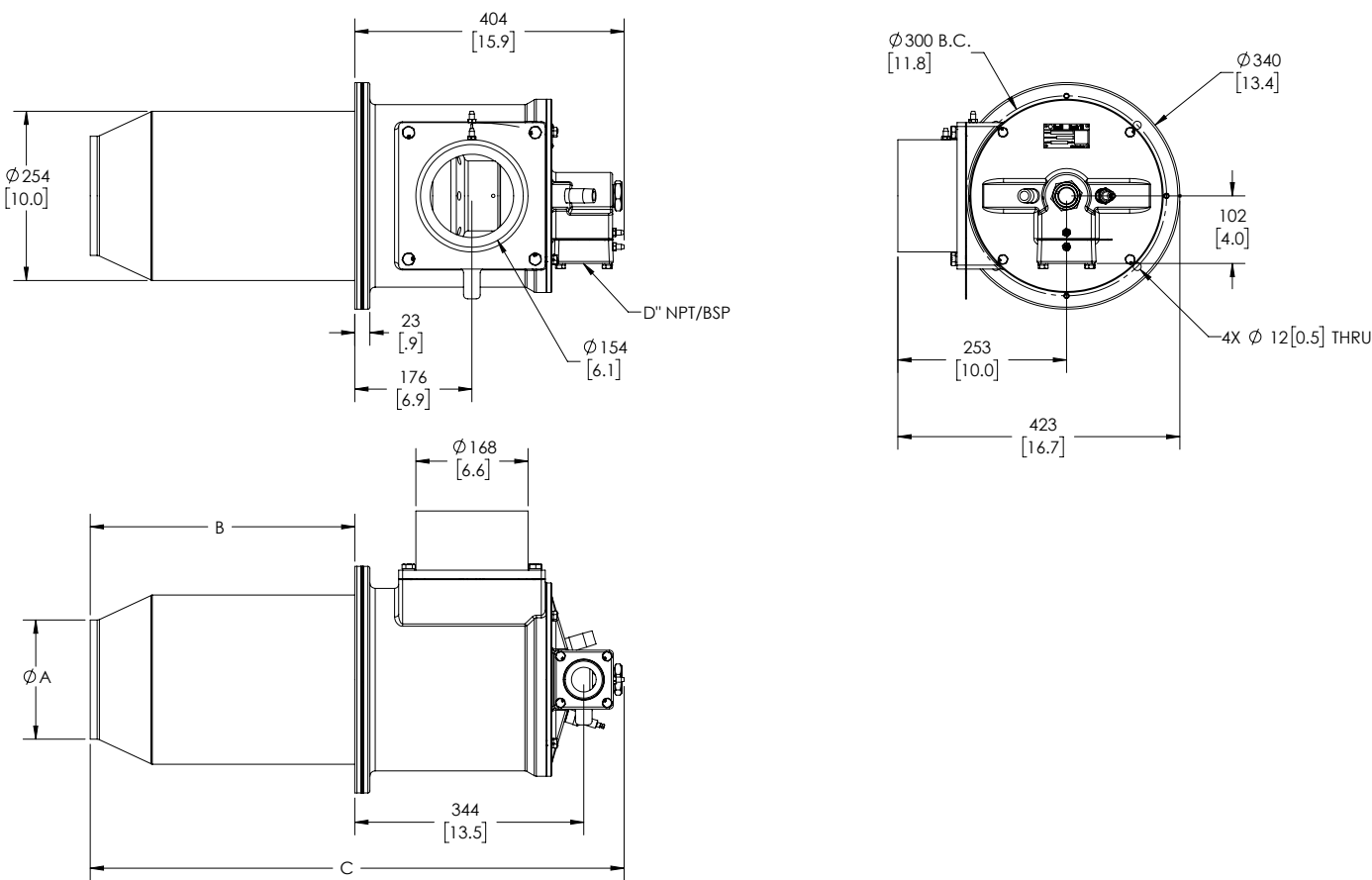
					Input kW		
VH0500	ΔP Across Orifice (mbar $\pm$ 5%)	Natural Gas	Taps	Orifice Size (mm)	659	989	1,319
		Propane	C-D	37	2.7	5.7	9.5
		Air	C-D	29	3.2	6.7	11.7
	Air	A-B	125	3.2	7.7	14.2	
VH0750					923	1,451	1,978
	ΔP Across Orifice (mbar $\pm$ 5%)	Natural Gas	C-D	37	3.7	11.2	18.7
		Air	A-B	133	4.2	11.2	18.7

- 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]

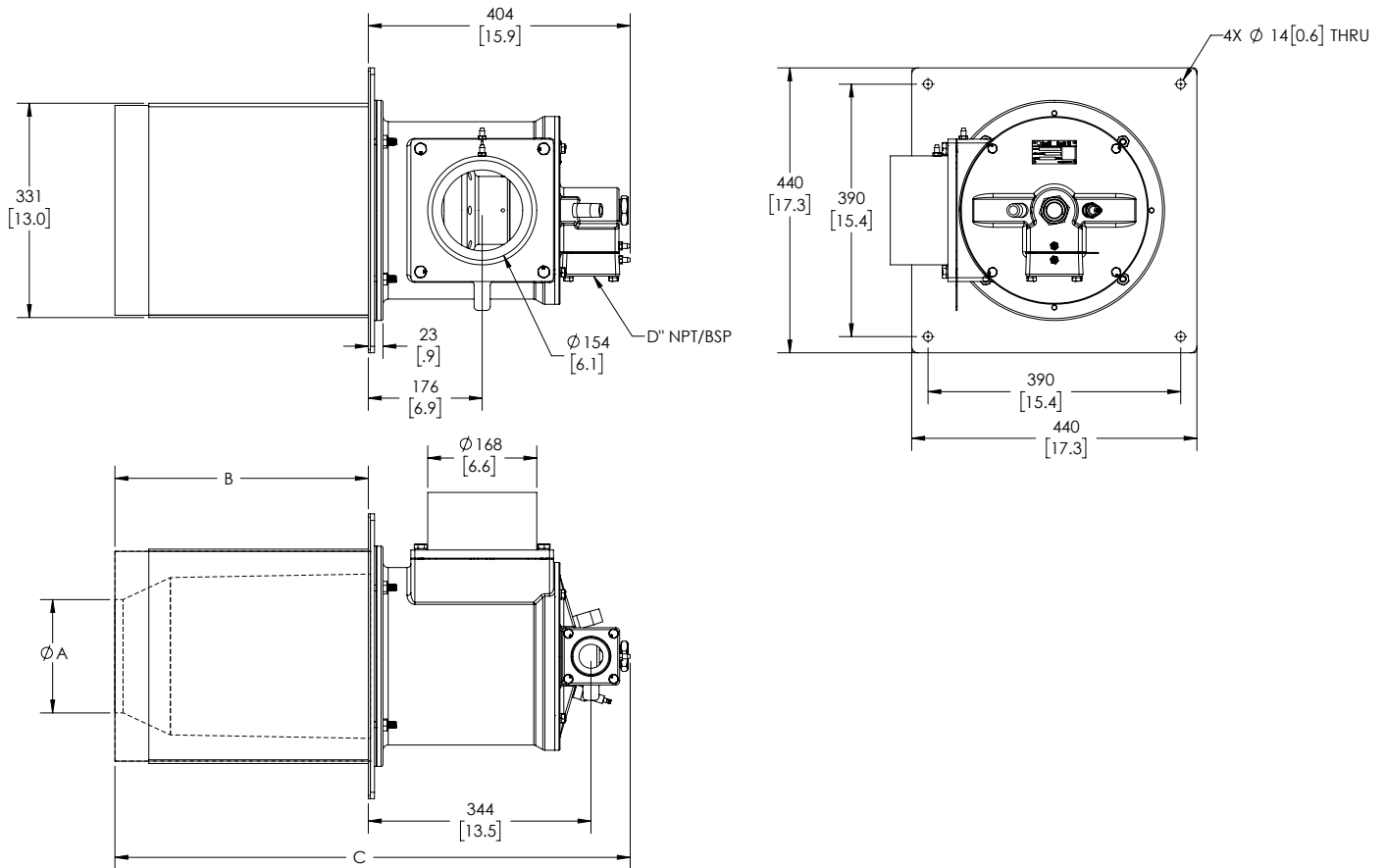


Model	Combustor outlet diameter* ("A")		Combustor Length ("B")	Overall Burner Length ("C")	Fuel Inlet ("D")
	High Velocity	Medium Velocity			
VH0500	$\phi 125$ [4.9]	$\phi 175$ [6.9]	397 [15.6]	802 [31.6]	2"
VH0750	$\phi 175$ [6.9]	$\phi 205$ [8.1]	497 [19.6]	902 [35.5]	2.5"

* Inside dimension of the combustor outlet

Product Dimensions – Refractory Combustor

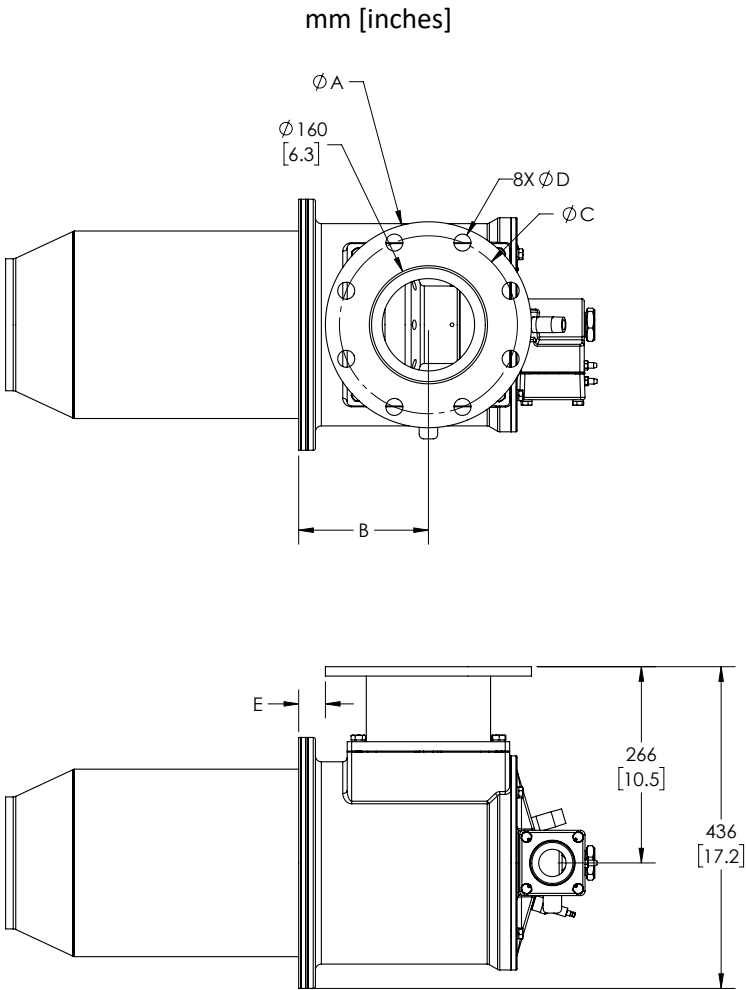
mm [inches]



Model	Combustor outlet diameter* ("A")		Combustor Length ("B")	Overall Burner Length ("C")	Fuel Inlet ("D")
	High Velocity	Medium Velocity			
VH0500	Ø125 [4.9]	Ø175 [6.9]	391 [15.4]	793 [31.2]	2"
VH0750	Ø175 [6.9]	Ø205 [8.1]	491 [19.3]	893 [35.2]	2.5"

* Inside dimension of the combustor outlet

Product Dimensions – ANSI 6”/DIN 150 Inlet Flange Adapters



Combustor Type	Flange Diameter ("A")		Wall to Flange Center ("B")	Bolt Circle ("C")		Bolt Hole Diameter ("D")		Wall Clearance ("E")	
	ANSI 6"	DIN 150		ANSI 6"	DIN 150	ANSI 6"	DIN 150	ANSI 6"	DIN 150
Alloy	279[11.0]	265[10.4]	176[6.9]	Ø241[9.5]	Ø225[8.9]	8 X 23[0.88]	8 X 18[.7]	36[1.4]	43[1.7]
Refractory			173[6.8]					33[1.3]	40[1.6]

※ Flanges pressure rated to PN6/125 lbs. classification

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