

NEXUS[®]

High Efficiency Gas-Fired Unit Heater



 **STERLING**[®]
HVAC PRODUCTS





Nexus® brings leading edge condensing heat exchanger technology to Sterling HVAC's successful unit heater product offering.

With tri-metal stainless steel heat exchanger technology, proprietary pre-mix burner design and fully modulating configurations Nexus provides industry leading efficiencies of up to 97%!

Available in 2 sizes (100 – 200 MBH), in both natural gas and LP gas, Nexus can be vented through PVC and CPVC for application flexibility. All units are also field convertible to separated combustion. Size 300 and 400 coming soon.

State-of-the-Art Control Platform



- 2-Stage, Modulating with Room Sensing, and Outdoor / Indoor Reset Self Modulating Settings
- 2-10 VCD/4-20 mA Input for BMS Communication
- Modbus Standard
- LED Diagnostic Lights (External)
- Single Thermostat or Outdoor Sensor can Control Multiple Units

Application Flexibility

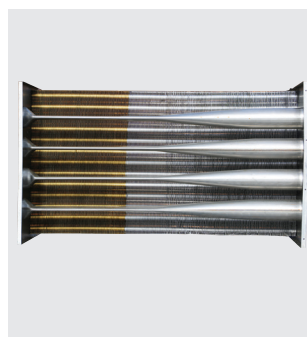
- NG / LP Single Orifice Field Conversion
- PVC / CPVC Vent Compatible
- Field Convertible to Separated Combustion
- Multiple Voltage Configurations
- OSHA Fan Guards
- Durable Brushed Stainless Steel Cabinet
- Condensate Float Switch and Trap Standard
- Optional Condensate Pump and Condensate Neutralizer

Electronically Air/Fuel Coupled



- Proprietary Design for Optimal Efficiency
- Unique Premix Burner Technology
- 3:1 Full Modulation
- Maximum Efficiency through Precision Modulation
- SafeSense Blocked Inlet and Flue Sensing Technology
- Unit auto-adjusts for altitude requiring no field modifications
- Unit will maintain fuel air ratio with partial blockage without decreasing performance until safety trip

Tri-Metal Hybrid Heat Exchanger



- Full Condensing Efficiencies at all Firing Rates
- 97%+ Maximum Efficiency
- 94%+ Efficiency at Full Input
- All Stainless Steel Tube for enhanced corrosion protection
- Brass and Aluminum fins for improved thermal heat transfer

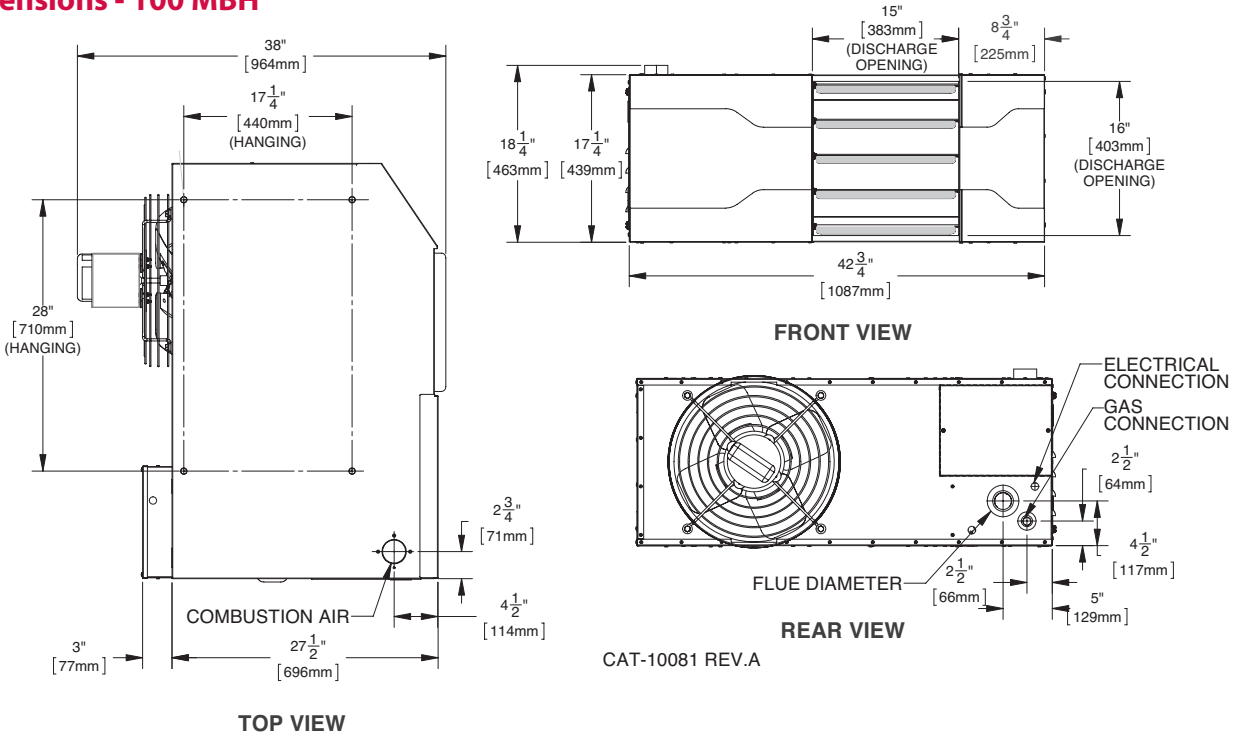


Performance and Dimensional Data

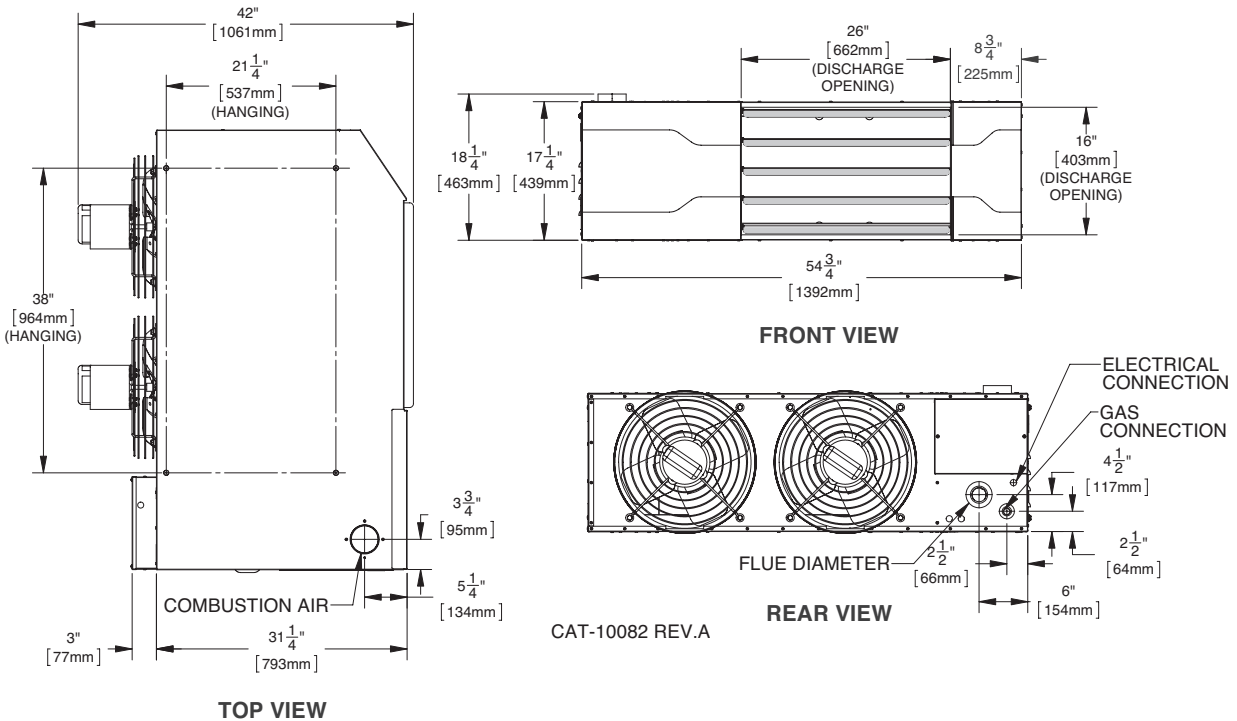
Model	HU100	HU200	HU300	HU400		
Input BTU/HR	100,000	200,000	COMING SOON			
Output BTU/HR	96,000	192,000				
Thermal Efficiency	96%	96%				
Air Temp Rise	55°F	55°F				
Condensate Production (Gal/Hr)	0.73	1.38				
Turn Down Ratio	3:1	3:1				
Modulating Control	YES	YES				
Fuel Type	NG/LP	NG/LP				
Venting Category	IV	IV				
Entering Airflow (CFM @ 70°F)	1616	3,232				
Outlet Velocity (FPM)	970	1,119				
Heat Throw @ 20' Mounting Height	150 Ft	150 Ft				
Min. Gas Pressure Natural	5 Inch wc	5 Inch wc				
Min. Gas Pressure LP	8 Inch wc	8 Inch wc				
Max. Gas Pressure Natural / LP	14 Inch wc	14 Inch wc				
Motor HP	1/2	1/2				
Motor Qty	1	2				
Motor RPM	1500	1500				
Gas Connection Size	1/2"	1/2"				
Condensate Discharge Size	3/4"	3/4"				
Condensate Trap	YES	YES				
Combustion Air Intake	2"	3"				
Combustion Air Intake Material	PVC/CPVC	PVC/CPVC				
Flue Connection	2"	3"				
Flue Material	PVC/CPVC	PVC/CPVC				
Electrical Data						
Supply Voltage/Phase	115V - 1PH	115V - 1PH				
FLA	10.33	16.38				
Motor Amps	6	12				
Dimensions						
Height	18-1/4"	18-1/4"				
Width	42-3/4"	54-3/4"				
Depth	38"	42"				
Weight	180 lbs.	260 lbs.				
Clearance Service/Combustible						
Air Intake Side	24"	24"				
Access Side	18"	18"				
Non Access Side	6"	6"				
Top	6"	6"				
Bottom	6"	6"				



Dimensions - 100 MBH



Dimensions - 200 MBH



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