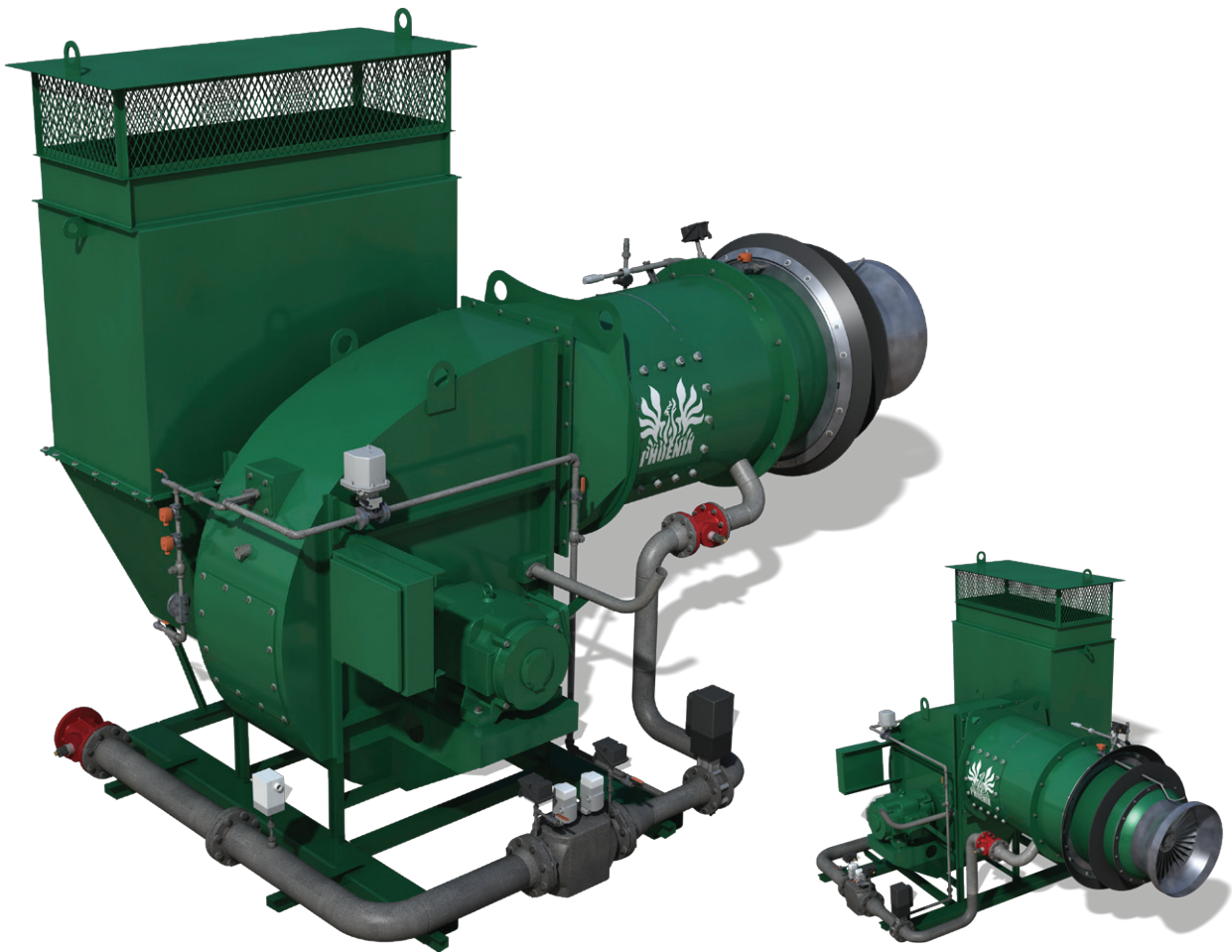


# ASTECC

## PHOENIX® PHANTOM BURNER

ASTECC's premium Ultra-Low NOx Phoenix® Phantom burner leads the pack with the lowest available combustion and noise emissions (gaseous fuels only). The Phantom also achieves the highest electrical energy efficiency with innovations like variable speed drives and offers advanced mixing technology and the latest technological innovations to deliver the absolute minimum gaseous emissions available today.



**ASTECC, INC.** an Astec Industries Company

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## ADVANCED EMISSION REDUCTION

The Phoenix® family of burners are available in the asphalt industry using the most advanced technology to precisely and completely mix the air and gaseous fuel to achieve an advanced low NOx and CO method called lean burn premix. They employ a multiple, parallel, turbulent, tube mixer to achieve near perfect mixing of fuel and air.

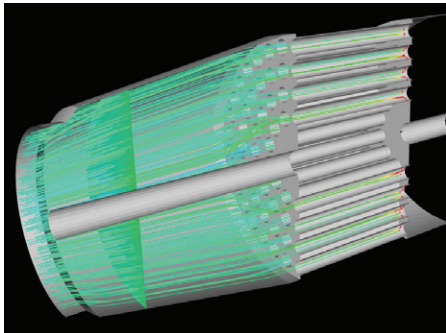


## RELIABLE FIRING & ADVANCED DESIGN

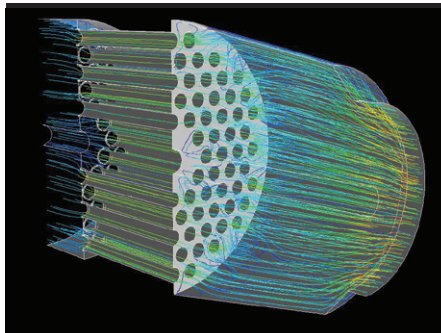
The Phoenix® Phantom burner is thoroughly tested before leaving the factory to ensure reliability and start-up ease. High efficiency variable speed blower drive helps provide precise firing rate control and uses significantly less electrical energy. It also eliminates the need for an air damper, drive motor adjustments, and maintenance. Combustion air and fuel flow meters are combined with ASTEC PLC/Computer Burner Controls for the most precise and reliable burner control available.

## FIRING EFFICIENCY & COMPACT FLAME SIZE

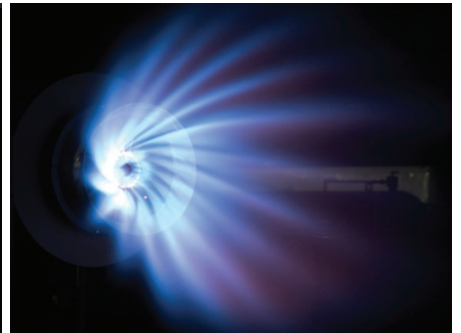
When running in lean burn mode, near perfect mixing of air and fuel before burning produces the most compact flame available. The compact flame size contributes to efficiency, ensuring that all of the fuel is combusted without taking away valuable dryer heating capacity, as with other low emission methods, such as flue gas re-circulation or water injection.



Natural gas injection and mixing: uniformly green color indicates complete mixing of air/gas.



Velocity magnitude increases as air and natural gas mix.



The premium Phoenix® Phantom is used where emissions limits are a driving concern.

## LEAN BURN PREMIX FIRING SPECS

Model	Rated Capacity Millions of BTU/HR (with 55% XSA)	Nominal Aggregate Drying Capacity TPH (at 5% moisture)	Burner Air Capacity SCFH (millions)	Integral Blower Horsepower
PP 75	75	300	1.17	75
PP 100	100	400	1.56	100
PP 125	125	500	1.95	125
PP 150	150	600	2.34	150

Above conditions are standard at 75° F at sea level. See detailed capacity, performance sheets for each size for more information and specific flows and pressures. Nominal aggregate drying capacity based on typical exhaust stack temperatures of 240° F, 0.2 BTU/Lbm F specific heat in the aggregate. Burner maximum design capacity is 100% of rated capacity. Advertised numbers are achievable in some conditions, but not guaranteed.