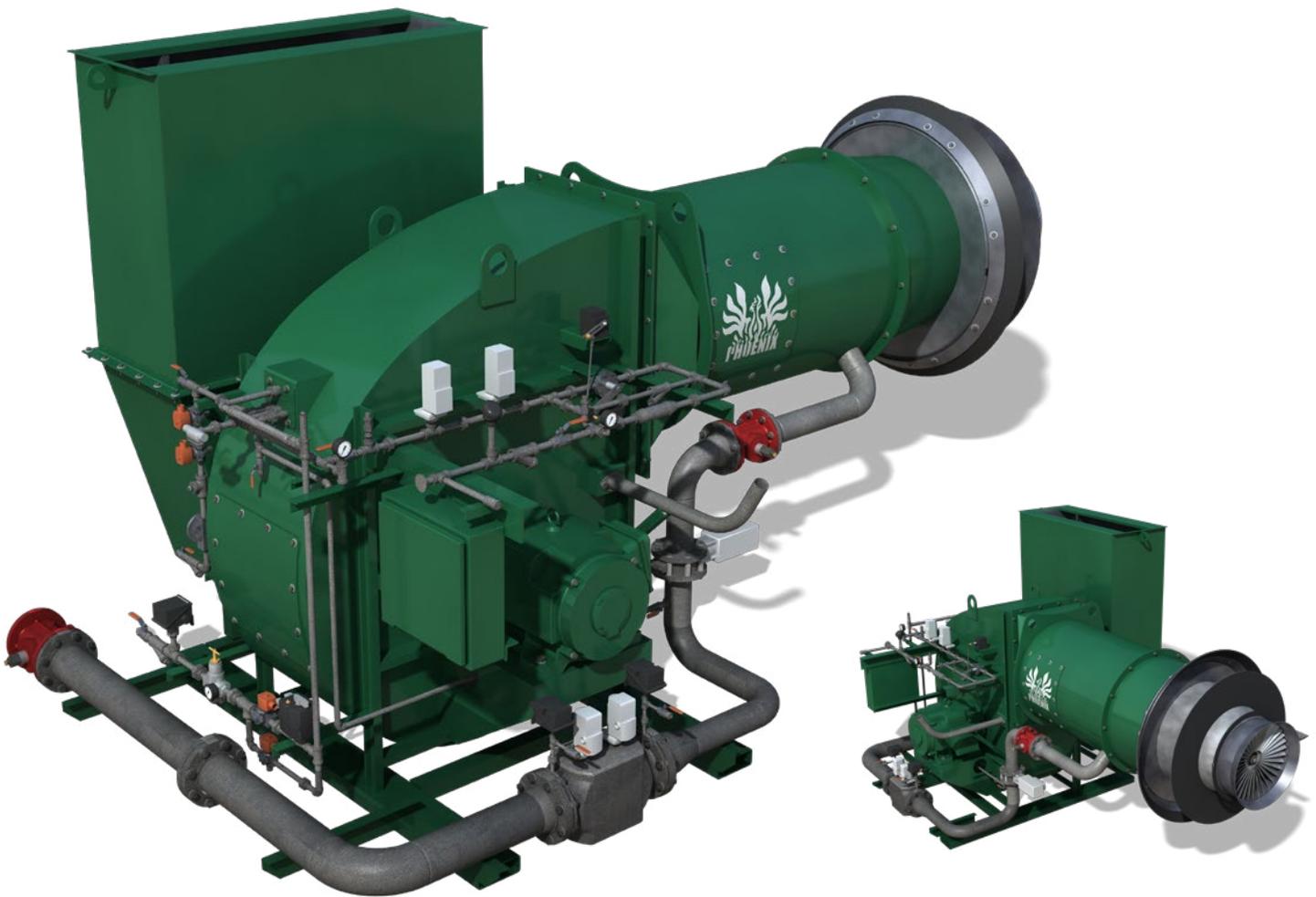


# ASTEC PHOENIX® TALON 2 BURNER

The Astec Phoenix Talon 2 burner utilizes the latest burner technology to deliver very low emissions combined with energy efficiency. With the optional silencing package, it's even possible to have a phone conversation on the burner platform while it is firing.

[www.astecinc.com](http://www.astecinc.com)



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# ASTEC PHOENIX® TALON 2 BURNER

## Advanced Emission Reduction

The Phoenix Talon 2 burners use 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.

## Electric Power Efficiency

The variable speed main combustion blower drive helps provide precise firing rate control and uses much less electrical energy. It also eliminates the need for an air damper and for drive motor adjustments and maintenance.

## Firing Efficiency and Compact Flame Size

High quality mixing of air and fuel creates the most compact flame available with a small combustion zone. This ensures that all of the fuel is combusted for peak efficiency without taking away valuable dryer heating capacity.

## Reliable Firing

For maximum reliability and start-up ease, Astec burners are thoroughly tested before shipping.



The spin vanes and other components of the nose ensure flame stability and optimum shape.



The Phoenix Talon uses less electric power due to the variable frequency drive used to control its combustion air blower and low body pressure.



The Phoenix Talon's compact flame shape is compatible with most drums without complicated flame adjustment.



## BURNER FIRING SPECS

MODEL NUMBER	PT2-35	PT2 50	PT2-75	PT2-100	PT2-125	PT2-150
RATED CAPACITY MILLIONS OF BTU/HR (WITH 20% XSA)	35	50	75	100	125	150
NOMINAL AGGREGATE DRYING CAPACITY TPH (AT 5% MOISTURE)	140	200	300	400	500	600
BURNER AIR CAPACITY SCFH (MILLIONS)	0.42	0.60	0.90	1.20	1.50	1.80
INTEGRAL BLOWER HORSEPOWER	30	40	60	75	100	125
OIL ATOMIZING AIR REQUIREMENT SCF (LOW FIRE / HIGH FIRE)	55 / 45	55 / 45	100 / 85	100 / 80	110 / 80	125 / 90

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.