



GemDryer[®] IR

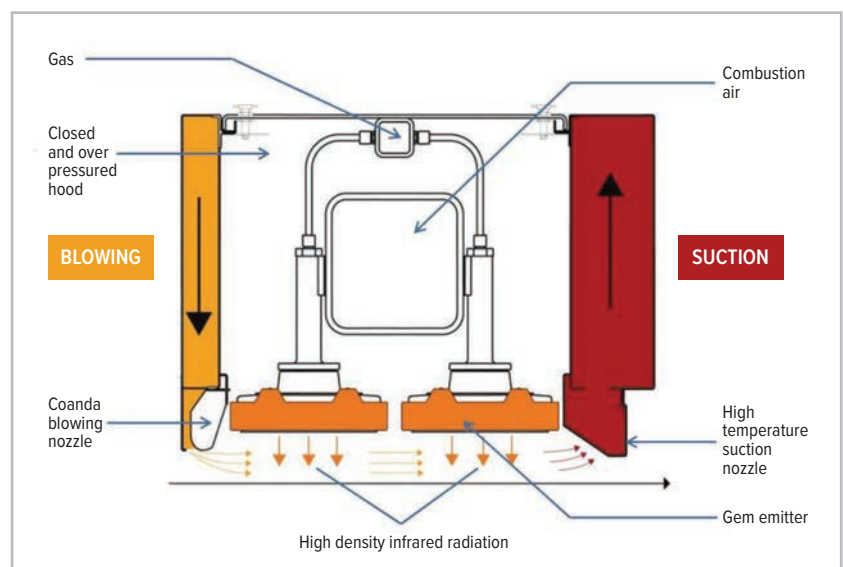
drying solution for non-contact drying and profiling after size press and coating stations

The patented GemDryer[®] is a gas infrared, non-contact, drying solution developed specifically for the paper and board industry. The system consists of Gem infrared ceramic emitters and coanda blowing nozzles. This unique combination delivers optimal energy efficiency to minimise operating costs.

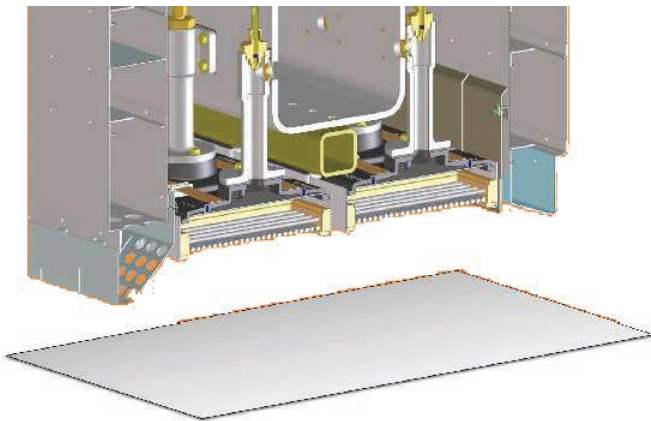
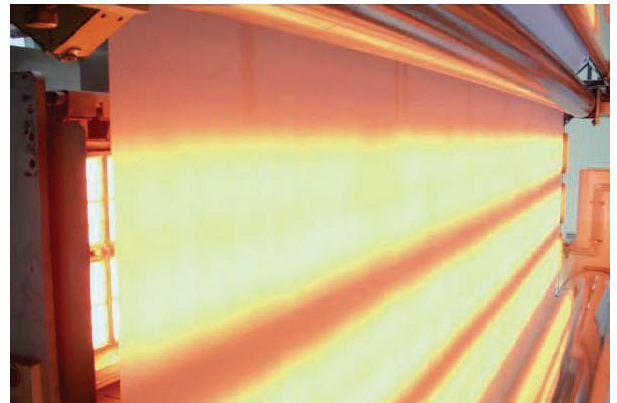
Operating for up to seven years at nominal power, the Gem emitter has the longest proven lifetime on the market. What makes it unique is the constant radiant efficiency during this period. The high-density emitters offer the longest lifetime at the highest power resulting in the highest machine uptime and lowest maintenance costs.

Smaller footprint

GemDryer[®] can easily be integrated into the paper machine by virtue of its extremely compact size. For the same drying capacity, GemDryer[®] is at least 30% more compact than any conventional system. Gem emitters transfer infrared energy directly into the web using infrared radiation. Coanda blowing nozzles for each set of 2-row or 3-row burners optimise energy transfer by convection.



The GemDryer® can operate at temperatures of up to 1,250°C, providing the maximum infrared output at an input up to 12 kW. Its high-power emitters have a high drying rate and reach the gel point quickly, therefore, binder migration and mottling are reduced, ensuring the best printing quality. Cross direction moisture profile can be optimised by integrating a profiling option into the system.



OPTIONS INCLUDE:

- Cross direction moisture profiling
 - Automatic web width selection
 - Fire Prevention System
 - ERS (Energy Recovery System)
- Efficiency can be improved even further through the ERS by recirculating the final exhaust air from the GemDryer® into an air dryer.

HOOD DIMENSIONS:

- 620 mm x 480 mm high (2-row burner)
- 884 mm MD x 480 mm high (3-row burner)
- Emitter dimensions : 143 mm cross direction x 200 mm machine direction

The Gem family includes Gem standard and GemE emitters with power options ranging from 7kW to 12kW.



Gem7+/Gem7E

Up to 7 kW
233 kW/m²



Gem9+/Gem9E

Up to 9 kW
300 kW/m²



Gem12+/Gem12E

Up to 12 kW
419 kW/m²

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