

# PRODUCT APPLICATION GUIDE GAS TURBINES

## IDEAL KUUL TECHNOLOGY: Kuul Control Power GT™ evaporative media

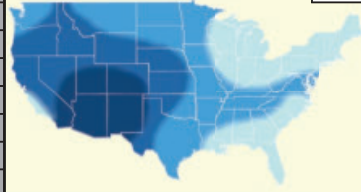
For gas turbines at air flow velocity, Kuul Control PowerGT™ evaporative media meets efficiency standards and exceeds pressure drop requirements. Not only does Kuul evaporative media last longer, but it also ensures the intake cooling system of gas turbines remains operational at high efficiency for on demand up-time when power generation is needed most. Choose an effective, clean cooling, stronger and longer lasting evaporative media with low pressure drop for the lowest total cost of ownership.

### Why Kuul Control performance makes a difference:

- Reliably provides cooling performance when you need it most, ensuring higher average air mass-flow through the turbine air intakes
- Much lower air-pressure drop allows for greater ventilation rates with less induction air pressure on intake – translating into higher turbine efficiency and greater mass transfer of air
- Lower NOx emissions due to net higher efficiency of cooling system as a result of low temperature humid air at higher airflow rate
- The strongest media in the industry, Kuul PowerGT™ lasts much longer than other brands, allowing more years of service before needing replacement

### Temperature drop cooling table for your climate zone

		Dry bulb temperature in °F													
		60	65	70	75	80	85	90	95	100	105	110	115	120	
Wet bulb temperature in °F	60	0	5	9	14	18	23	27	32	37	Outside climate possibility.				
	65		0	5	9	14	18	23	27	32	37	41			
	70			0	5	9	14	18	23	27	32	37	41	46	
	75				0	5	9	14	18	23	27	32	37	41	
	80	Air is fully saturated. No cooling will take place.				0	5	9	14	18	23	27	32	37	
	85					0	5	9	14	18	23	27	32		
	90						0	5	9	14	18	23	27		
	95							0	5	9	14	18	23		
	100								0	5	9	14	18		
	105									0	5	9	14		
	110										0	5	9		
	115											0	5		
120												0			



## Kuul PowerGT™ — the energy friendly choice

Extremely low pressure drop at typical media velocity ranges of between 500 and 750 fpm means as much as 30% less air resistance compared to competitors evaporative media, translating to more cool air at a given induction pressure. This means:

- Higher engine thermal efficiency
- Higher net output in turbine power
- Reduced fuel consumption
- Predictable plant performance during peak ambient heat

## Kuul PowerGT™ — the toughest evaporative media on the market

Kuul Control™ is produced with the highest quality virgin materials, according to a unique design and production technique. It is the strongest and toughest media, designed specifically for the gas turbine power generation industry. This ensures the media can last much longer than competitor media. This saves real money.

Kuul PowerGT™ evaporative media has been designed for the gas turbine industry to ensure it ticks all the right boxes for the lowest cost of ownership over the longest period of time

- Higher turbine output during high ambient temperatures
- Predictable reliable performance when it's needed most, generating higher annual return
- Lower turbine fuel consumption with higher net cooling efficiency
- In ideal settings, media can last twice as long as competitors



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Resultant CO<sub>2</sub>  
from **competitor**

Resultant CO<sub>2</sub>  
from **Kuul**



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936-598-5651

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kuulsupport@portacool.com