TECHNICAL SPECIFICATIONS

EXPERIENCE THE KUUL EFFECT

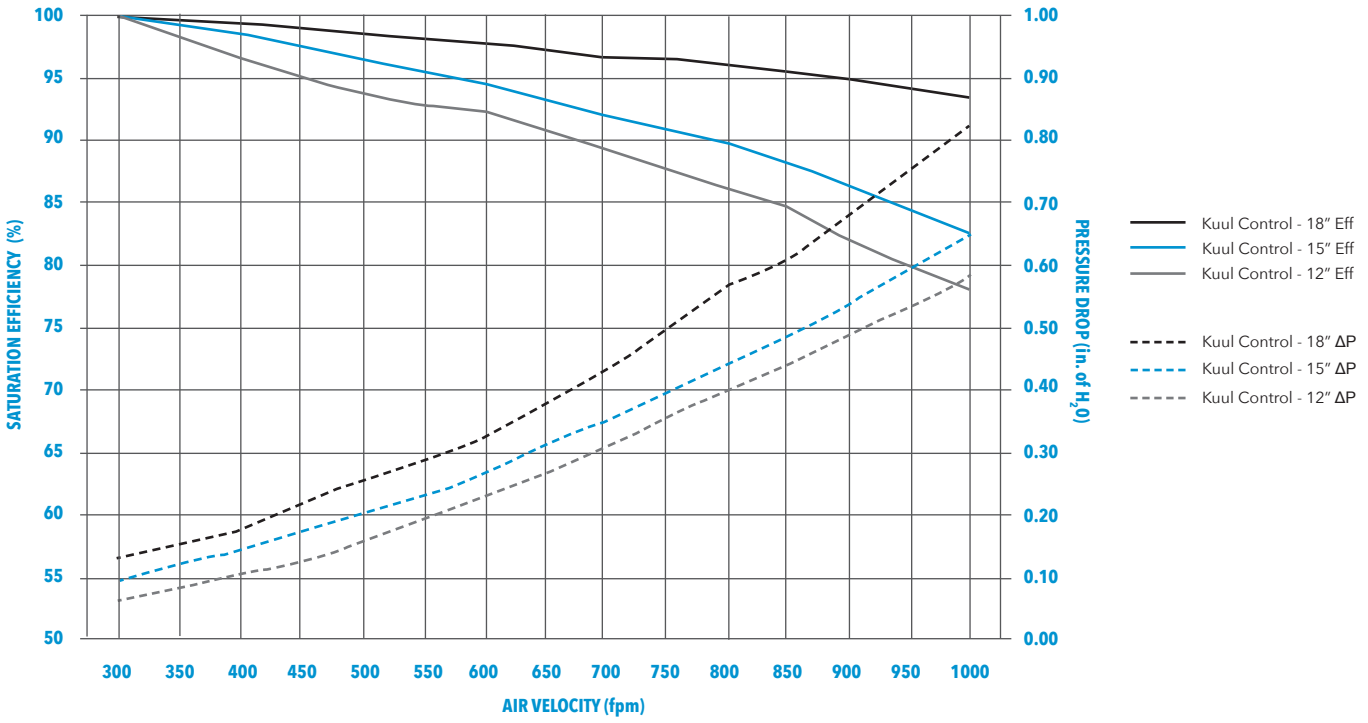
EVAPORATIVE COOLING MEDIA

KUUL CONTROL™ EVAPORATIVE MEDIA SIZED FOR GAS TURBINES

If you need high performance for gas turbines, Kuul Control™ is an ideal technology with high air-speed performance.

Kuul Control media is designed to withstand the demands of even the toughest HVAC environment. Due to its unique material composition, Kuul Control™ has market-leading water absorption properties and saturation efficiency, which allows the product to rapidly respond to fast start-up conditions and changes in demand. This media is designed for strong, durable, long-lasting performance, while providing you with the superior strength that is synonymous with Kuul® evaporative media.

Kuul Control™ evaporative media is a premier line of specialized evaporative media that provides enhanced cooling performance and reduced pressure drop due to the choice of materials, our design process and manufacturing technique. We use only the highest quality materials and manufacture all components of this line in our Center, Texas, United States manufacturing facility.



- The performance data shown above is independently tested by NELS according to the test requirements of leading Gas Turbine Manufacturers.
- Due to external factors including, but not limited to, installation practices, maintenance practices, water quality, humidity and ambient temperature, results may vary.

To learn more, visit
www.thekuuleffect.com

MADE IN USA

Updated July 2020

TECHNICAL SPECIFICATIONS AND DESIGN INFORMATION

Please refer to the table below for information surrounding design and final installation requirements.

Density of media	[lbs/ft³]	dry media = 1.38	wet media = 3.34
Water carrying capacity from dry to wet	[gal/ft³]	0.235	
Maximum air velocity of media before carry-over	[fpm]	750	
Maximum air velocity of media using DE	[fpm]	1,000 (If greater consult Portacool)	
Maximum height of a single piece of media	[in "]	78	
Maximum system height per single header	[in "]	120 (If greater consult Portacool)	

- For system design advice, please contact Portacool for optimum choice
- Portacool offer design for purpose consultations to maximize your chosen system design

MAINTENANCE AND UPKEEP

This product has been designed with superior wet strength and chemical stability. The following recommendations pertain to the choice of water chemistry to be used.

PHYSICAL AND CHEMICAL PARAMETERS	
Parameter	**Guideline (unless otherwise agreed)**
Total alkalinity (ppm CaCO2)	Less than 500ppm with pH less than 6.8. Please consult Portacool for advice with scale prevention with values higher than 200ppm.
Chlorine (ppm Cl)	Less than 5 ppm
Sulphate (ppm SO_4)	Range as recommended by the cleaning specialist in their method statement.
Conductivity (mS/m)	Less than 100mS/m recommended for scale control
Total dissolved solids (gravimetric) (ppm)	Less than 900ppm
Suspended solids (ppm)	Less than 20ppm
pH as recommended safe range	6.5 to 8.5 to prevent damage to media chemistry
Soluble Iron (ppm)	Less than 3 ppm
Total copper (ppm)	Less than 1 ppm to prevent corrosion
Hygiene, Bacteria control	
Sodium Hypochlorite (ppm)	Disinfectant and sterilizer range between 0.5-2.0 ppm
Note: It is recommended to obtain a water analysis to ascertain the scale formation potential.	
Note: It is not recommended to use RO or DI water in aggressive concentrations. Please request guidance from Portacool.	
Please refer to Kuul Control series Maintenance and Service Guide for more information.	

- For system design advice, please contact Portacool for optimum choice. Portacool, LLC is devoted to sourcing superior materials and manufacturing with the highest quality standards as well as ongoing product development. For current performance data, contact your Kuul® evaporative media expert.

936-598-5651
info@portacool.com

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