

KUUL

EVAPORATIVE COOLING MEDIA

TECHNICAL SPECIFICATION

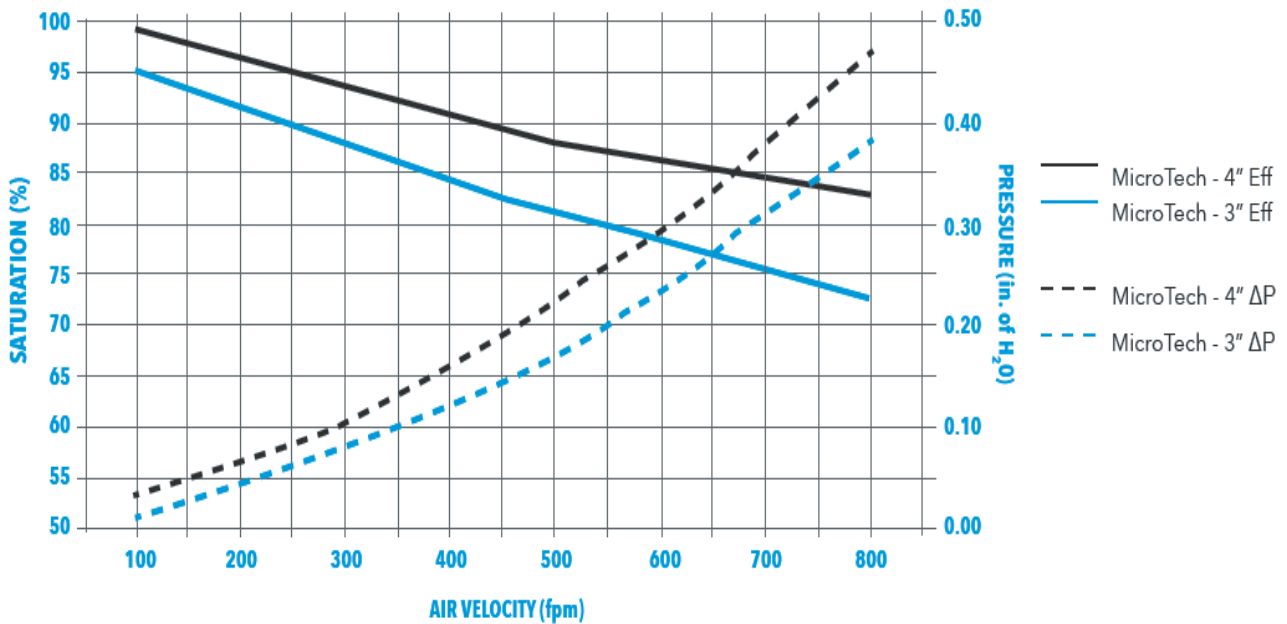
KUUL CONTROL MICROTECH™ EVAPORATIVE MEDIA

For the highest efficiency and longevity requirements, look no further than **Kuul Control MicroTech™** evaporative media. This innovative line of evaporative media has a unique design, which allows water and air to mix turbulently for improved heat and moisture transfer – thus resulting in the highest rate of evaporation possible. Made of the highest quality organic fiber available, **MicroTech** provides the maximum ability to withstand harsh

environments longer, while demonstrating the highest efficiencies on the market.

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.

KUUL CONTROL MICROTECH EVAPORATIVE MEDIA EVAPORATION EFFICIENCY AND PRESSURE DROP



- The performance data shown above is independently tested and verified by a third party under required, stringent testing conditions.
- Due to external factors including, but not limited to, installation practices, maintenance practices, water quality, humidity and ambient temperature, results may vary.
- The performance data shown above is based on wet media in optimal environmental conditions.

To learn more, visit

www.thekuuleffect.com

TECHNICAL SPECIFICATIONS AND DESIGN INFORMATION

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

Density of media	[lbs/ft ³]	dry media = 1.94	wet media = 4.69
Water carrying capacity from dry to wet	[gal/ft ³]	0.329	
Maximum air velocity of media before carry-over	[fpm]	700	
Maximum air velocity of media using DE	[fpm]	1,000 (If greater consult Portacool)	
Maximum height of a single piece of media	[in "]	72	
Maximum system height per single header	[in "]	100 (If greater consult Portacool)	

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

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 CaCO ₂)	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.	

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kuulsupport@portacool.com