



# TECHNICAL SPECIFICATION

## KUUL CONTROL ORIGIN™ EVAPORATIVE MEDIA

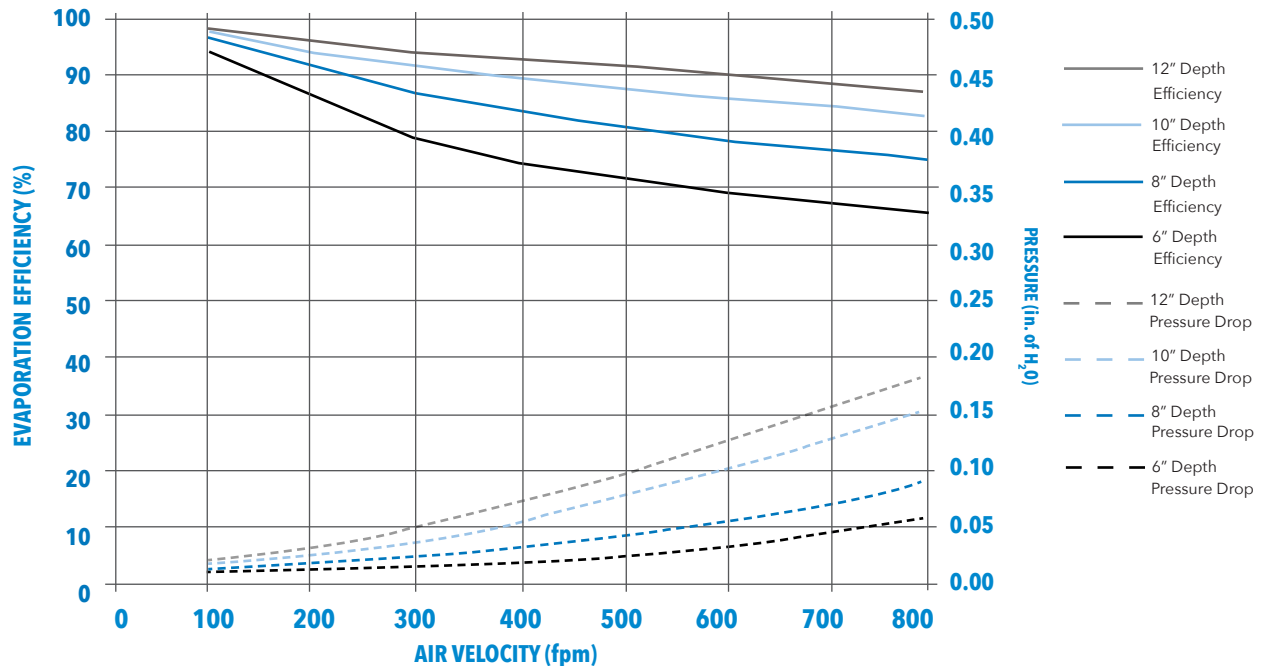
If you need high performance for HVAC AHUs, comfort cooling systems or industrial cooling, **Kuul Control Origin™** is an ideal technology with high performance.

**Kuul Origin™** is designed to withstand the demands of even the toughest HVAC environment. Due to its unique material composition, **Kuul Origin** 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.

The **Kuul Control™** series 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.

## KUUL CONTROL ORIGIN 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](http://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 <sup>3</sup> ]	dry media = 1.38	wet media = 3.34
Water carrying capacity from dry to wet	[gal/ft <sup>3</sup> ]	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 Kuul Support)	
Maximum height of a single piece of media	[ in “ ]	78	
Maximum system height per single header	[ in “ ]	120 (If greater consult Kuul Support)	

- For system design advice, please contact Kuul Technical Support for optimum choice
- Kuul 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 <sub>2</sub> )	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 <sub>4</sub> )	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.	

Updated September 2022

- For system design advice, please contact Kuul Support 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**<sup>®</sup> evaporative media expert.



**PORTACOOOL**  
THE HOME OF KUUUL™

To learn more, visit

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

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