# TECHNICAL SPECIFICATION

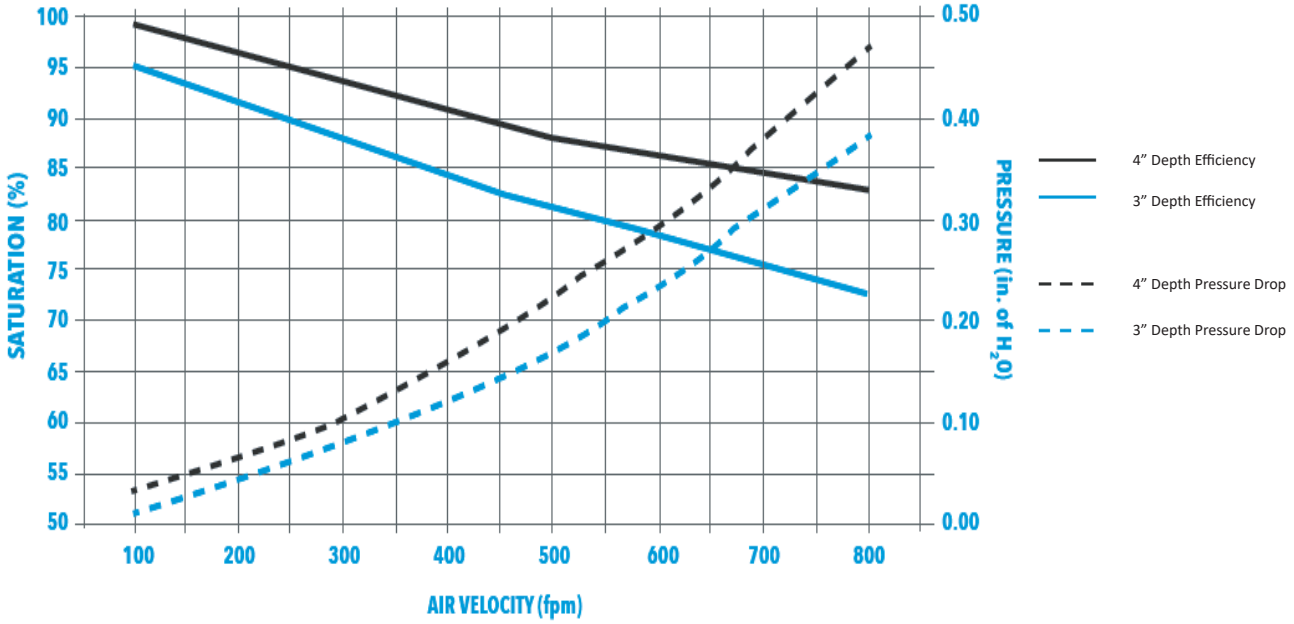
## KUUL CONTROL EVAPORATIVE MEDIA

## 5MM 45/45

For the highest efficiency and longevity requirements, look no further than **Kuul Control** 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, **Kuul Control** provides the maximum ability to withstand harsh environments longer, while demonstrating the highest efficiencies on the market.

**Kuul** evaporative media provides enhanced cooling performance and reduced pressure drop due to the choice of materials, design process and proprietary manufacturing technique. Only the highest quality materials are used and all components of this line are manufactured in our United States manufacturing facility.

KUUL CONTROL EVAPORATIVE MEDIA
5mm 45/45
EVAPORATION EFFICIENCY AND PRESSURE DROP




PFAS FREE
PFOA FREE

- **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

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condair

## 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 = 1.94 | wet media = 4.69 |
| Water carrying capacity from dry to wet | [gal/ft³] | 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 Kuul Support) | |
| Maximum height of a single piece of media | [ in “] | 72 | |
| Maximum system height per single header | [ in “] | 100 (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 CaCO2) | Less than 500ppm with pH less than 6.8. Please consult Kuul Support for advice with scale prevention with values higher than 200ppm. |
| Chlorine (ppm Cl) | Less than 5 ppm |
| Sulphate (ppm SO4) | 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 Kuul Support | |
| Please refer to Kuul Cellulose Maintenance and Service Guide for more information. | |

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For system design advice, please contact Kuul Support for optimum choice. Condair 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.

MADE IN USA

To Learn More, Visit
www.thekuuleffect.com