



the best choice for evaporative cooling systems

Strongest, heaviest pad available

- Made with the heaviest, highest-quality virgin kraft paper in the industry for maximum longevity
- Highest resin content in the industry
- Out-performs the competition in tests:
 - High tensile strength, psi
 - High dry crush strength, psi
 - High wet crush strength, psi

Available in custom sizes and flute angles

Advanced resin technology

- Improves strength, longevity, absorption and cooling efficiency

Produced using the most advanced curing process, Thru-Cure™, patent-pending

- Port-A-Cool, LLC cures each individual sheet separately
- Specializing in custom flute angles and sizes
- Cure is consistent and completely established throughout the entire pad, providing unequaled stability

Black Diamond edge coating available

- Most durable edge coating in the marketplace

KÜÜL® pad service

- Custom orders welcomed
- Industries best lead time
- Custom orders welcomed
- Ongoing product development & research

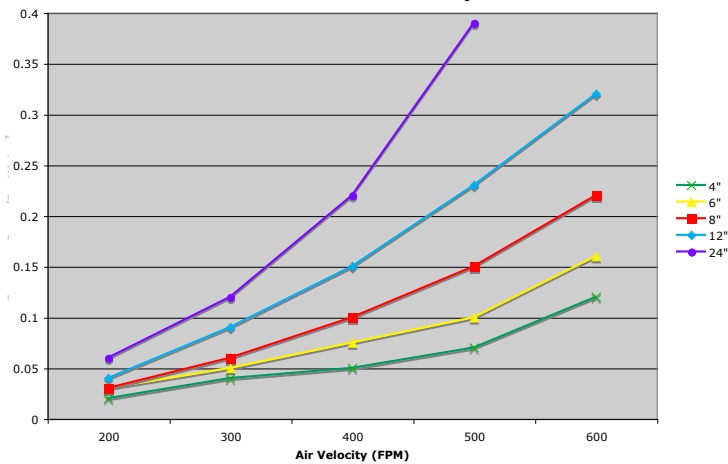


SETTING THE STANDARD IN EVAPORATIVE COOLING MEDIA

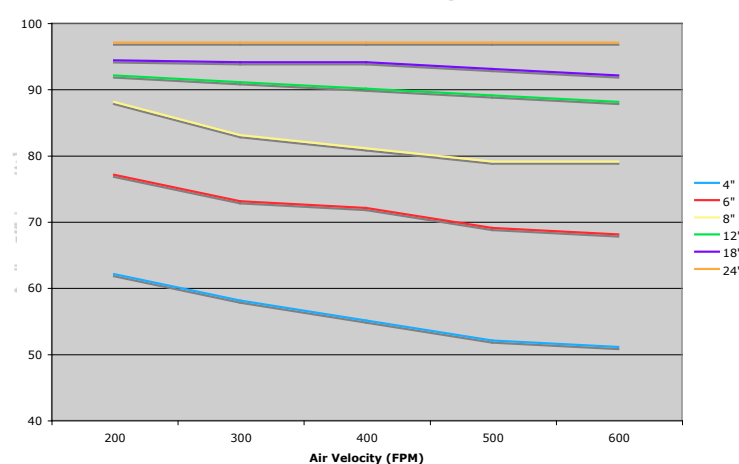


KÜÜL® pads performance

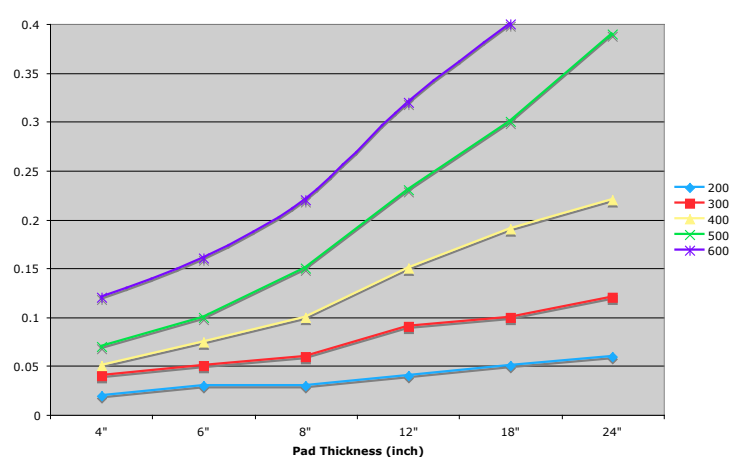
PRESSURE DROP PERFORMANCE by AIR VELOCITY



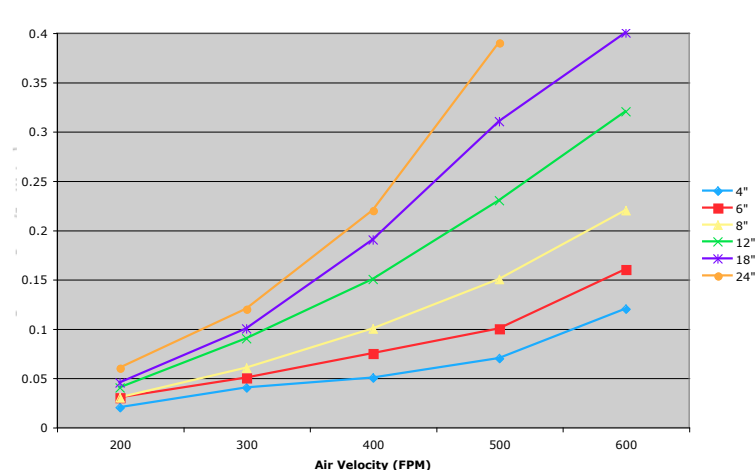
EFFICIENCY PERFORMANCE by AIR VELOCITY



PRESSURE DROP PERFORMANCE by PAD THICKNESS



PRESSURE DROP PERFORMANCE



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AGRICULTURE • HORTICULTURE • COMMERCIAL
 Evaporative cooling media for every application

KÜÜL® PADS



Available in Black Diamond Edge-Coating. Add "EC" to order number.

- **Agriculture**
Poultry, Hog, and Dairy
- **Greenhouse**
Space Cooling

Agriculture / Horticulture Specifications

Model No.	H x W x D (In.)	Shpg. Wt. (lbs.)
PAD6072	72 x 12 x 6	8.10
PAD6060	60 x 12 x 6	6.75
PAD6048	48 x 12 x 6	5.40
PAD6036	36 x 12 x 6	4.05
PAD4072	72 x 12 x 4	5.40
PAD4060	60 x 12 x 4	4.51
PAD4048	48 x 12 x 4	3.59
PAD2060	60 x 12 x 2	2.24

*Available in Black Diamond edgeCoat. Add EC to part number when ordering.

What is a KÜÜL® pad?

A KÜÜL® pad is the highest quality rigid cooling media on the market today. Specifically, KÜÜL® pads are constructed with a heavier, virgin quality kraft paper containing a higher resin content which provides effective and efficient cooling while giving KÜÜL® pads greater durability, strength and longevity.

KÜÜL® pads are cellulose cooling cells generally cut in 2", 4", 6", 12", even up to 24" thickness, and available in any height up to 78.75". Ag-Hort KÜÜL® pads are generally manufactured in 2", 4", or 6" thickness and 78" in height, while the HVAC KÜÜL® pads are available in up to 78 inches in height and 24 inches in width. The cooling media is constructed of a specially formulated paper impregnated with insoluble resin. It is designed with a cross-fluted configuration, which induces highly turbulent mixing between the water and the air inside the pad. The air is bent at angles designed to maximize the evaporative efficiency while offering the least restriction of airflow. The cross-fluted design makes the pad strong, self-cleaning and self-supporting with high evaporative efficiency and low-pressure drop (resistance to airflow). The unique system used for manufacturing KÜÜL® pads allow the manufacture of custom flute angle designs as well as the standard angles.

KÜÜL® pad use - Climate Control

Direct evaporative cooling is most often associated with temperature reduction.

With an evaporative cooling pad, air is drawn through the wet media. The heat exchange occurs as air moves over the layered, fluted surfaces of the wet pad causing water to evaporate off the pad, thus removing heat from the air.

The key in achieving the best performance from an evaporative cooling system is maximizing the amount of air that comes into contact with the cooling pad surface area. Evaporative cooling pads typically produce the most efficient evaporative cooling when they are designed to provide the maximum interaction possible between air and water.

A properly designed and maintained pad-and-fan evaporative cooling system will effectively cool ventilation air without wetting a room and its contents. Proper design supplies: 1) water impartially over and through the pad area and 2) the desired air flow through the room. Good maintenance practices preserve the pad and keep the water delivery system in proper working condition.



Meeting the evaporative cooling pad needs of all marketplaces

Custom sizes up to 24" thick and up to 78.75" in height. The unique system used for manufacturing KÜÜL® pads allows the manufacture of custom flute angle designs as well as the standard angles.

Why are KÜÜL® pads unique?

KÜÜL® pads are the only cooling media designed and engineered specifically for different marketplaces.

The agriculture and horticulture industries demanded more longevity from their media. KÜÜL® pads responded with the strongest, most durable pad on the market. The Ag-Hort, KÜÜL® pad design includes the heaviest basis weight paper used in the industry, as well as the highest percentage of resin. The results of this combination are evident in the Ag-Hort, KÜÜL® pad's unmatched strength, rigidity, and pad life.

The HVAC, KÜÜL® pad design rises to the demands of the heating, ventilation, and air conditioning industries by improving the saturability of the media while surpassing the existing longevity standards. The HVAC, KÜÜL® pad has developed through years of research in the paper, saturation, and corrugation industries resulting in a product with superior saturating capabilities.

Port-A-Cool, LLC KÜÜL® pads have been engineered to consider the product demands associated with application in the agricultural/horticultural and commercial evaporative cooling markets.

Port-A-Cool, LLC utilizes its own specialized method of manufacturing evaporative cooling media, the Thru-Cure method, which ensures that each individual sheet in a KÜÜL® pad is cured separately prior to its formation into block media thereby providing unmatched structural integrity.

Why are KÜÜL® pads the strongest?

Single sheets of fluted cellulose virgin Kraft paper are impregnated and treated to provide both longevity and efficient wetting. The sheets are adhered together to form a block and KÜÜL® pads are cut from the blocks to meet size specifications. Thermal-setting resins are used to strengthen the paper and achieve water resistance. The resin impregnation and cure creates a rigid paper product that is self-supporting and water-resistant.

Why are KÜÜL® pads the best choice

KÜÜL® pads are available in custom sizes and with or without Black Diamond edge coating. KÜÜL® pads are the best choice for your unique cooling needs.

- **LONG LIFE** - Utilizing the Thru-Cure method makes KÜÜL® pads more structurally durable and long-lasting
- **HIGH EFFICIENCY** - Cross-fluted pad configuration maximizes evaporative efficiency and makes the pad self-cleaning
- **MAXIMUM COOLING** - HVAC pads are specially manufactured to meet the demanding needs of that industry by providing the maximum saturation possible
- **SELF-SUPPORTING** - Ag-Hort pads include the heaviest paper, as well as the highest percentage of resin, making them rigid and long-lasting



Commercial / Industrial

Evaporative Cooling Systems, Precoolers, Humidification, Gas Turbine Intakes, Cooling Towers



Commercial / Industrial Specifications

Mfr.	Mfr. Prt. No.	Dimensions (In.) H x W x D	Model No.	Shpg. Wt. (lbs.)
Champion/Essick	AS/ADA35	} 17 3/8 x 36 x 8	PAD801	10.0
Champion/Essick	S1500-S/D		PAD802	15.0
Champion/Essick	ADA/ASA/AUA50	} 22 1/2 x 41 1/4 x 8	PAD121	22.0
Champion/Essick	ADA/ASA50-12			
Champion/Essick	PCRN 8600	} 30 3/4 x 36 x 4	PAD401	9.0
Champion/Essick	PCRN 7000			
Champion/Essick	PCRN 6600	} 38 3/8 x 47 x 6	PAD601	22.0
Champion/Essick	PCRN 16000			
Champion/Essick	AUA70	} 29 1/8 x 41 1/4 x 8	PAD804	19.0
Champion/Essick	ADA70/ASA70			
Champion/Essick	S1700-S/D	} 29 1/8 x 41 1/4 x 12	PAD122	26.0
Champion/Essick	ADA7012/ASA7012			
Champion/Essick	PCRN 16000/-2	} 36 5/8 x 48 x 8	PAD806	28.0
Champion/Essick	PCRN 13000/-2			
Champion/Essick	PCRN 15000/-2	} 36 5/8 x 44 1/4 x 8	PAD807	26.0
Champion/Essick	PCRN 11000/-2			
Champion/Essick	AS/AD 100B	} 36 5/8 x 44 1/4 x 12	PAD123	37.0
Champion/Essick	AS/AD10012B			
Champion/Essick	AS/AD 150B	} 46 3/8 x 48 x 8	PAD808	35.0
Champion/Essick	AS/AD15012B			
Champion/Essick	AS/AD15012B	} 46 3/8 x 48 x 12	PAD124	53.0
Champion/Essick	AS/AD15012B			
Adobe	PM100	23 x 40 x 8	PAD100	13.0
Adobe	PM200	28 x 40 x 8	PAD200	17.0
Adobe	PM120	23 x 40 x 12	PAD120	22.0
Adobe	PM220	28 x 40 x 12	PAD220	26.0
Industrial M/C	PM300	37 1/2 x 40 1/2 x 8	PAD300	24.0
Industrial M/C	PM400	44 1/2 x 48 x 8	PAD400	34.0
Industrial M/C	PM500	44 1/2 x 48 x 12	PAD500	52.0
Phoenix Aerocool	5-2-44	22 3/4 x 40 x 8	PAD244	14.0
Phoenix Aerocool	5-4-44	29 3/4 x 40 x 8	PAD444	19.0
UMP CelAir	CD550	24 x 36 x 8	PAD550	12.0
UMP CelAir	CD850	30 x 48 x 8	PAD850	22.0
Industrial M/C	PM422	30 x 40 x 8	PAD422	19.0