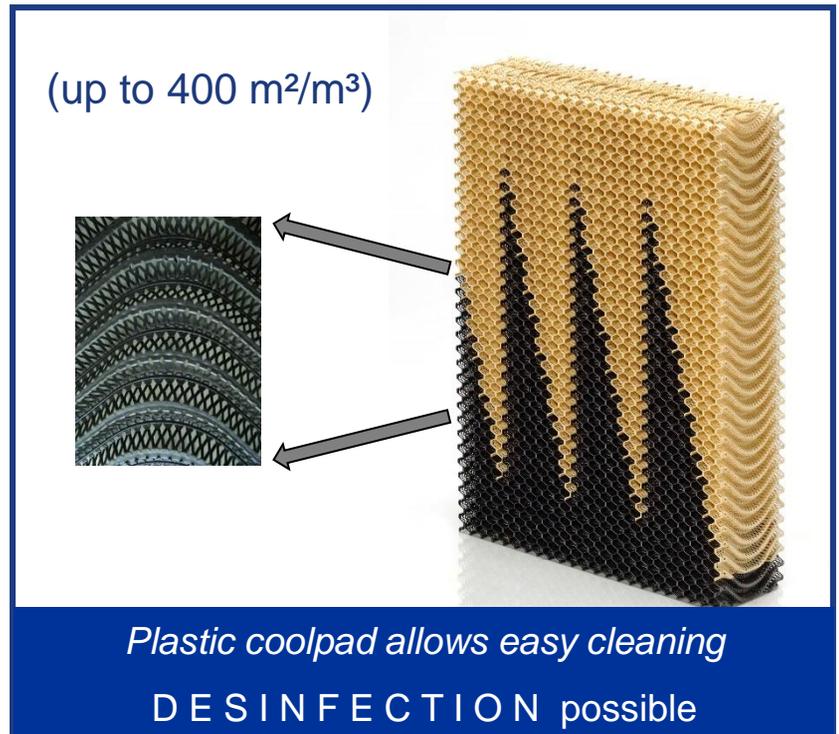


Coolpad in polypropylene (PP)

AK150 + AK100

Replacement of paperpads – since 1996, the patented coolpads AK150 + AK100 were introduced in the markets of evaporation cooling and mass transfer.

Today the market realized the advantages of this very robust and efficient pad in plastic.



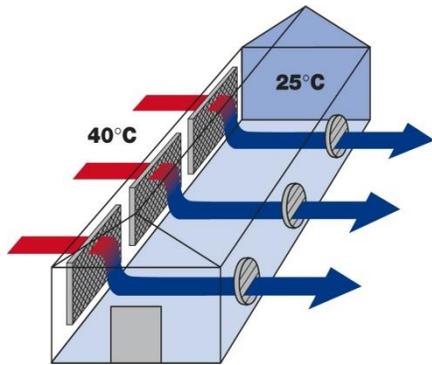
Features and advantages:

- High cooling performance
- Impressive mechanical strength of coolpad – no different in dry and wet condition
- Engineered design: full 3D-open-net structure with strong integrated sheets
- Low drop pressure: (~30%) save 30percent of energy costs
- Easy to clean (Kärcher,..)
- Reduction of smell – quick drying
- Different specific surfaces available (up to 400m²/m³)
- Produced from UV-protected PP
- Available as antimicrobial compound
- German product
- Hygienic aspects (VDI 2047)

technical data

		AK150	AK100
effective surface	[m ² / m ³]	up to 400	270
thickness of pad	[mm]	150	100
material	(UV-stabilized)	PP	
standard dimensions	[mm]	variable modul height x width of 600	
void	[%]	95	
density	[g/cm ³]	0.95 - 1.1	
temperature of operations	[°C]	- 20 to 75	

principle of evaporation cooling:



efficiency of AK150:

			30%		40%		50%		60%	
30°C	°C	ΔT	21,4	8,8	23,2	7,3	24,4	5,9	25,4	4,6
	%	Δφ	71,3	40,2	76,6	35,7	79,6	30,4	86,4	26,2
35°C	°C	ΔT	25,8	9,2	27,5	7,6	28,8	6,1	30,2	4,8
	%	Δφ	67,4	36,8	73,1	33,0	78,8	28,5	85,2	24,9
40°C	°C	ΔT	29,0	11,1	31,0	9,7	32,7	7,2	34,4	5,6
	%	Δφ	70,1	40,3	76,1	37,6	82,4	31,9	86,8	26,5
50°C	°C	ΔT	36,9	13,1	39,5	10,7	41,6	8,5	43,3	6,6
	%	Δφ	70,9	40,6	76,3	36,5	81,6	32,1	85,3	27,1

R+D-center with clima-tunnel:



contacted by:

> 20 years in the market of
engineered design plastics