

COOLING PAD



Principle of cooling

Due to the negative pressure ventilation in the barn, the warm fresh air is drawn inside, following through the moist pads. The air absorbs the humidity and cools down. It also can act as a natural filter when air getting into the house through cooling pad.

STANDARD SPECIFICATIONS

Model	Depth ¹	Height ¹
7090 7060	100mm	1500mm
		1800mm
		2000mm
	150mm	1500mm
		1800mm
		2000mm

¹ Different dimensions available upon request (e.g. depth 200 mm)

COOLING EFFICIENCY REPORT

Static Pressure		Air Flow	Velocity	Cooling Efficiency
mm.H2O	Pa	m ³ /h	m/s	%
0.25	2.45	5170	0.74	94.01
0.50	4.90	6560	0.93	87.84
1.00	9.80	10570	1.51	80.55
1.50	14.70	12590	1.79	77.00
2.50	24.51	17560	2.50	71.48
3.50	34.31	20360	2.90	68.80
5.00	49.02	23420	3.34	67.04
6.50	63.72	26960	3.84	64.96
8.00	78.43	29940	4.26	63.56
10.25	100.48	34290	4.88	61.18
11.75	115.19	36475	5.20	61.16
13.75	134.79	39710	5.66	61.09
15.00	147.05	41620	5.93	60.92
17.50	171.56	44730	6.37	60.24

The pads are saturated with water from above. Excess water is collected in the gutter and flows into the water reservoir. The centrifugal pump mixes this water with a certain amount of fresh water and returns it to the cycle. The cover supporting the pads is directly mounted on the water reservoir for easy disassembly and maintenance. The special perforation design of the cover ensures the backflow of excess water while preventing small animals from entering the system.

Gutter-PVC

- No Corrosion - all parts made from PVC or Stainless steel
- Easy Assembly due to newly designed Clip-profiles and easy monitoring and maintenance.
- The gutter contains the entire water requirement of the system. No external water tank is needed. With the brackets, the gutter is mounted to the wall or the floor.



Gutter-SST

- Stainless steel resistant to attack by chemical, extreme weather.
- Patented design of top frame, no tools needed for installation, disassemble and cooling pad exchange.
- The water reservoir is integrated into the frame system, making an additional water tank superfluous.



Gutter-aluminum alloy

- Special designed H sheet ensures the system stable and multiple tiers achieved.
- Oxidized surface treatment, corrosion-resistant
- Efficient in house cooling system based on the principle of evaporation
- No external water tank is needed.



Gutter-aluminum alloy

- Installation friendly, simplicity and flexibility.
- High strength, Oxidized surface treatment, corrosion-resistant.
- Cost efficient, wide application on greenhouse, industrial and livestock

