

# DİPAZ cooling pad

Naturally  
Cooled



## Application

### Agriculture & Horticulture :

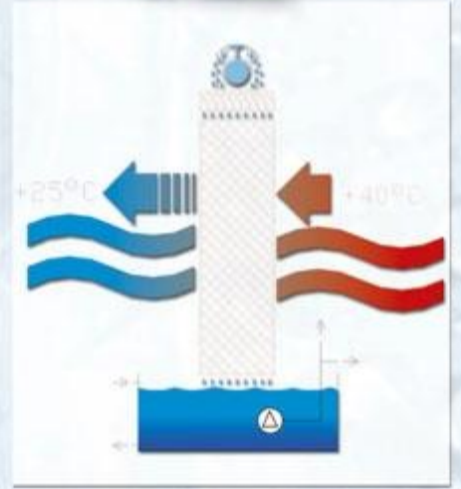
- Poultry, egg, turkey, dug, breeder houses
- Livestock buildings
- Greenhouses
- Mushroom farming

### Commercial :

- Villas, gardens
- Office buildings, shopping complexes
- Holiday complexes
- Sport halls, open and closed stadiums, tennis courts

### Industrial :

- Climatization of big industrial buildings
- Textile and knitting plants
- Gas turbine inlet section
- Spray booth painting
- Precooler and humidifier in air handling units



The figure illustrates how to work cooling pad system

- Produced by high quality and heaviest kraft paper, rigid and self supporting, durable and long life
- Lowest capital investment, lowest running cost, little space requirement
- High cooling efficiency with lowest pressure drop, continuous/ systematic water distribution all over the pad
- In extreme conditions under high dry bulb temperatures nature friendly cooling and humidifying
- Available in different sizes. If required we ship it full packet with all accessories, easy to assemble and de-assemble
- The environment harmful refrigeration gasses and compressor is not used for cooling

## Working principal:

In evaporative cooling pads the cooling system works by making the pad absorb the water and by making the humidified enlarged pads touch the "to be cooled" air with the help of the fan. The leading factor is the pad in cooling. Relative humidity of hot air is increasing while passing through the pad, so evaporation of water on the pad surface causes air to become more humid and cooler. Cooling efficiency depends on outside temperature and relative humidity passing through the pad. The dryer the air the faster the water evaporates and the higher the temperature reduction by cooling pad.

## Dimension

Sheet angle	Height (mm)	Length (mm)	Depth (mm)
45-45	500	300	75
45-45	600	300	100
45-45	700	300	150
45-45	750	300	200
45-45	1000	300	300
45-45	1200	300	
45-45	1500	300	
Water distribution pad	30	300	

Outside air temp °C	Outside relative humidity (%) rH										
	10	15	20	25	30	35	40	45	50	55	60
	Inside temperature (after pad conditions) °C										
30	16,5	17,5	19	20	20,5	21	22	23	24	24,5	25
35	20	21	22	23,5	24	25	26	27	28	29	29,5
40	23	24,5	25,5	27	28	29	30,5	31	30,5	33	34
45	26	28	29,5	30,5	32	33,5	35	36	37	37,5	38,5
50	29	31	33	34,5	36	37	39	40	41	42	43

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