

- Evaporative Cooling Pad
- Evaporative Cooling Media
- Evaporative Cellulose Pad
- Honeycomb Filter

专业通风降温设备生产商

- 环保空调、冷风机 • 湿帘与框架 • 工业大风扇 • 消毒净化

**KCOOLVENT AIR TREATMENT EQUIPMENT CO., LTD.**

佛山市酷温特空气处理设备有限公司

佛山市科致纳环保设备有限公司

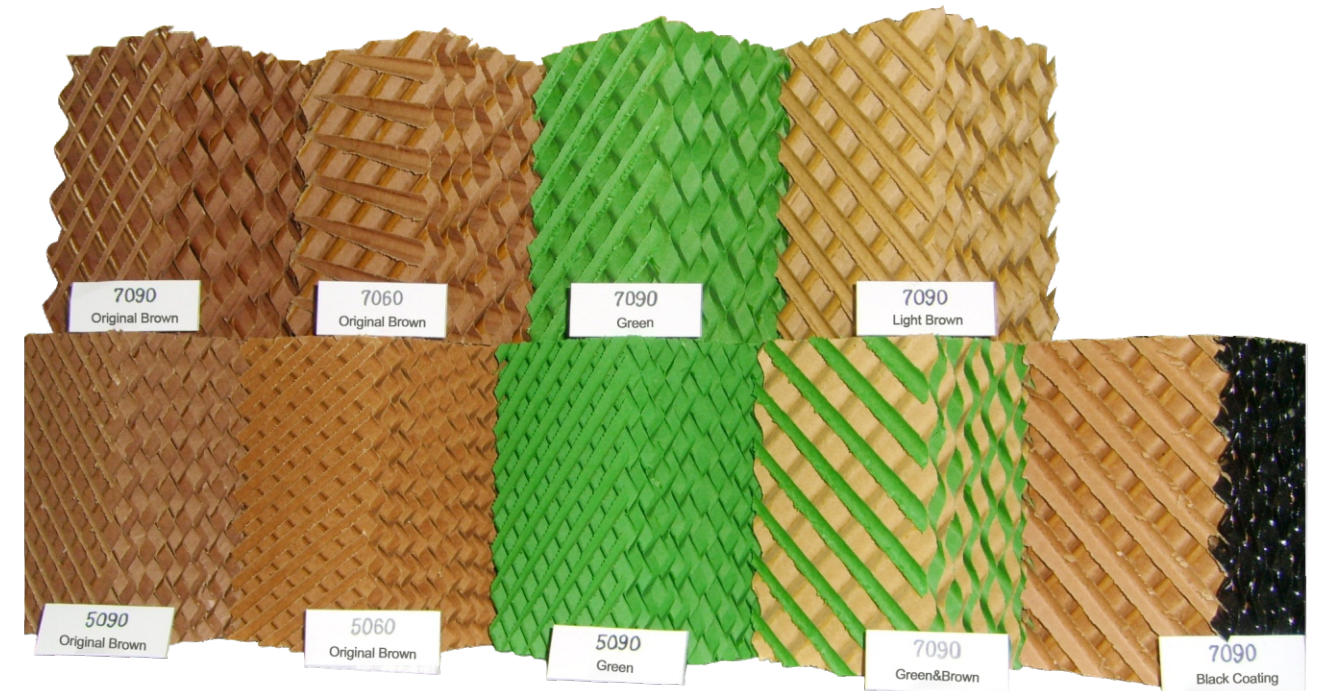
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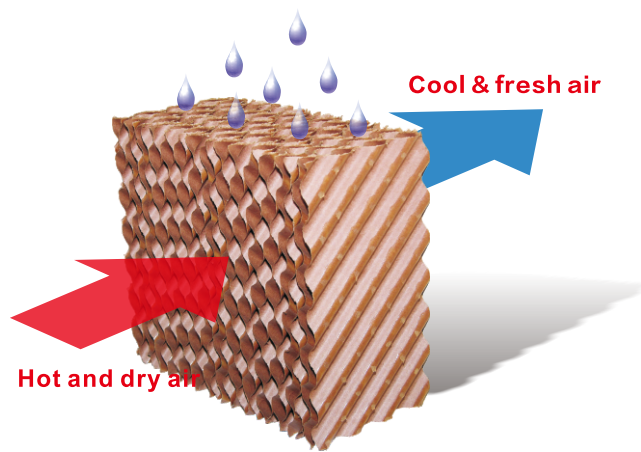
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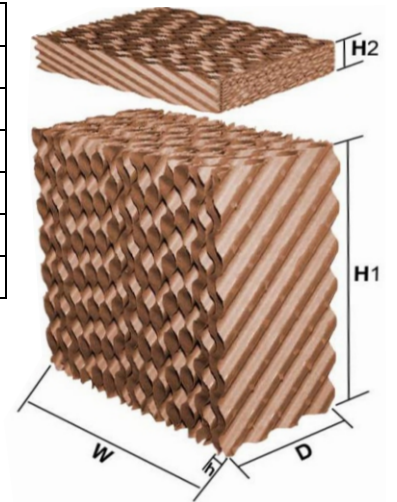
KCoolVent evaporative cooling pads work according to the principle of adiabatic heat exchange which is a simple and economical method of humidifying huge air volumes by the lowest energy consumption. The shorter way of this pads version is especially meant to be used in high-efficiency cooling systems. The cooling media is fabricated from cellulose material that had been treated with unique ingredients to achieve high cooling efficiency and degradation resistance.



How to Order KCoolVent

Width -W (mm)	600	600
Height - H (mm)	1000, 1200, 1500, 1800	1200, 1500, 1800, 2000
Depth- D (mm)	50, 100, 150, 200	50, 100, 150, 200
Groove angle airflow direction- $\alpha$	45, 15	45
Groove angle airflow direction- $\alpha$	45	45
Distribution pad height-H2 (mm)	30	30
Wave height - Hp (mm)	7	5

Note: other measures, thickness and angle are upon request.



WATER DISTRIBUTION PAD

has the purpose of uniformly distributing the water across the whole upper surface of the pad in such a manner that the problems associated with scarcely wetted areas of the pad are avoided. Standard pad height: Hd: 30mm

Installation

- . Follow the product installation manual for correct installation
- . Keep the water tank away from direct sun light
- . Minimize the exposure of the evaporative pads to sunlight

Water characteristics

- . Be sure to have  $6 < \text{pH} < 8$
- . Do not use hot water (water at room temperature only)
- . Max  $\text{CaCO}_3$  250 ppm
- . Do not add any chemicals to the water

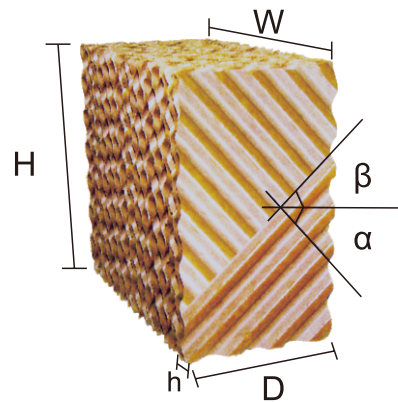
Cleaning

- . Do not wash with water under high pressure
- . Do not use products that contain chlorine, weed killers or any other chemical products
- . Use only clean water and a dry soft brush

Maintenance

- . Dry completely once every 24 hours
- . Minimize frequent wetting and drying cycles
- . During the operating season change the water weekly by removing the entire contents of the tank

Type & Parameter

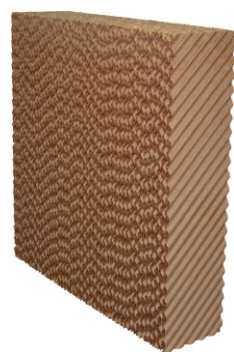


	7090	5090	7060	
H (mm)	1500,1800,2000	As per requirement	As per requirement	
W (mm)	900,600	As per requirement	As per requirement	
D (mm)	100,150,200,300	50-150	50,150,200,305	
h (mm)	7	5	7	
$\alpha$ (°)	45	30	45	15
$\beta$ (°)	45	60	45	30

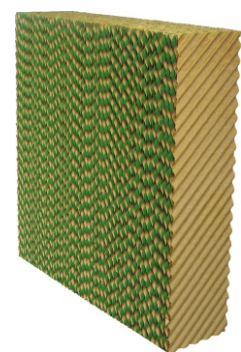
H: Pad Height  
h: Flute size (wave height)

W: Pad Width  
 $\alpha$ : Groove Angle

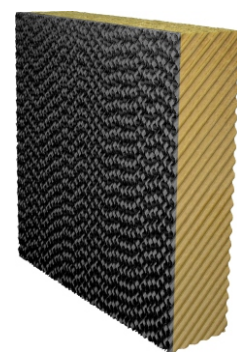
D: Pad Depth  
 $\beta$ : Groove Angle



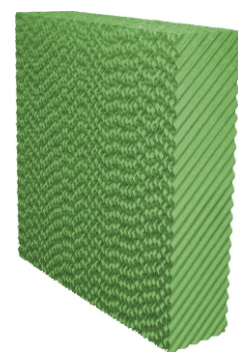
Original Brown



Mixed Green & Yellow



Black coating



Green

		Outside relative humidity (%)											
		5	10	15	20	25	30	35	40	45	50	55	
Outside temperature °C	Temperature °C / humidity % after evaporative cooling pad												
	15	5.2 ° 81.3%	5.8 ° 82.9%	6.4 ° 84.3%	7 ° 85.7%	7.6 ° 87%	8.1 ° 88.2%	8.7 ° 89.4%	9.2 ° 90.5%	9.8 ° 91.5%	10.3 ° 92.5%	10.3 ° 93.4%	
	20	8.3 ° 80.1%	9 ° 81.9%	9.8 ° 83.6%	10.5 ° 85.1%	11.2 ° 86.5%	11.9 ° 87.8%	12.6 ° 89.1%	13.2 ° 90.2%	13.9 ° 91.3%	14.5 ° 92.3%	15.1 ° 93.3%	
	25	11.2 ° 79%	12.1 ° 81%	13 ° 82.8%	13.9 ° 84.5%	14.8 ° 86%	15.6 ° 87.5%	16.4 ° 88.8%	17.2 ° 90%	17.9 ° 91.1%	18.7 ° 92.2%	19.4 ° 93.2%	
	30	13.9 ° 77.8%	15.1 ° 80.1%	16.2 ° 82.1%	17.3 ° 84 %	18.3 ° 85.6%	19.3 ° 87.1%	20.3 ° 88.5%	21.2 ° 89.8%	22 ° 91%	22.9 ° 92.1%	23.7 ° 93.1%	
	35	16.6 ° 76.7%	18 ° 79.2%	19.4 ° 81.5%	20.7 ° 83.5 %	21.9 ° 85.3%	23 ° 86.9%	24.1 ° 88.3%	25.2 ° 89.6%	26.2 ° 90.9%	27.1 ° 92%	28 ° 93%	
	40	19.2 ° 75.6%	20.9 ° 78.4%	22.5 ° 80.9%	24 ° 83 %	25.4 ° 84.9%	26.7 ° 86.6%	28 ° 88.1%	29.2 ° 89.5%	30.3 ° 90.8%	31.4 ° 91.9%	32.4 ° 93%	
	45	21.8 ° 74.5%	23.8 ° 77.7%	25.7 ° 80.4%	27.4 ° 82.7 %	29 ° 84.7%	30.5 ° 86.4%	31.9 ° 88%	33.2 ° 89.4%	34.5 ° 90.7%	35.7 ° 91.9%	36.8 ° 93%	
50	24.3 ° 73.5%	26.7 ° 77 %	28.8 ° 79.9%	30.8 ° 82.3 %	32.6 ° 84.4%	34.3 ° 86.3%	35.9 ° 87.9%	37.3 ° 89.3%	38.7 ° 90.6%	40 ° 91.8%	41.2 ° 92.9%		

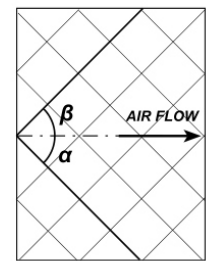
Note: The table refers to the model 4545/7, thickness 150mm with an air crossing speed of 1.5m/s.



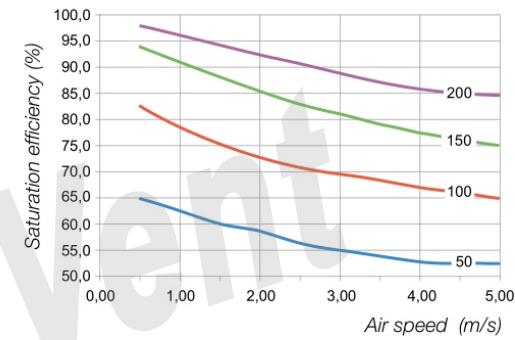
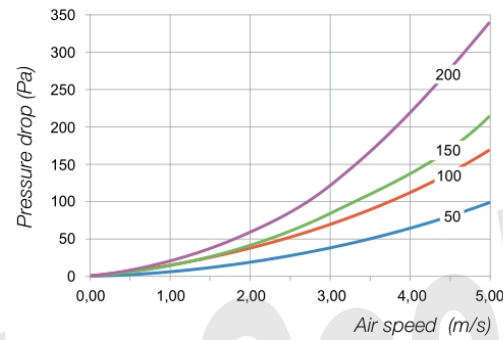
### Technical Features of KCoolVent Evaporative Cooling Pads

#### Type 7090 (45+45° / 7)

Suitable for application conditions where a good balance between humidification efficiency and pressure drop is required.

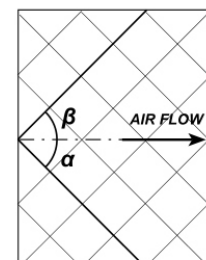


$\alpha = 45$   $\beta = 45$

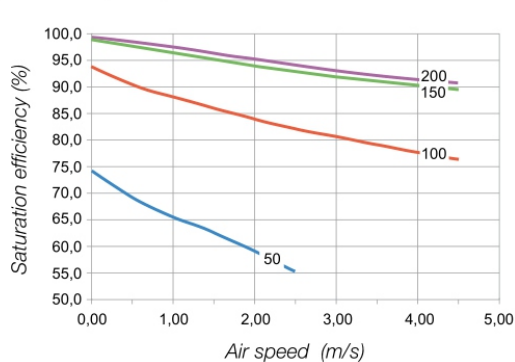
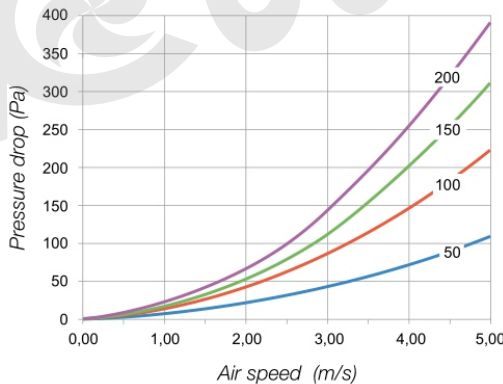


#### Type 7090 (45+45° / 5)

Suitable for application conditions where a good balance between humidification efficiency and pressure drop is required.



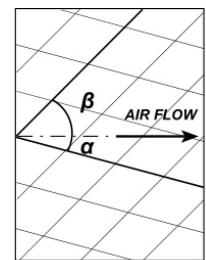
$\alpha = 45$   $\beta = 45$



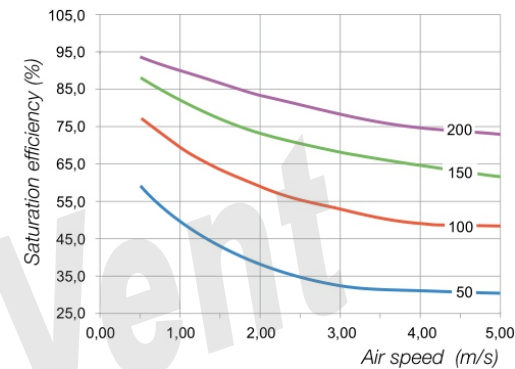
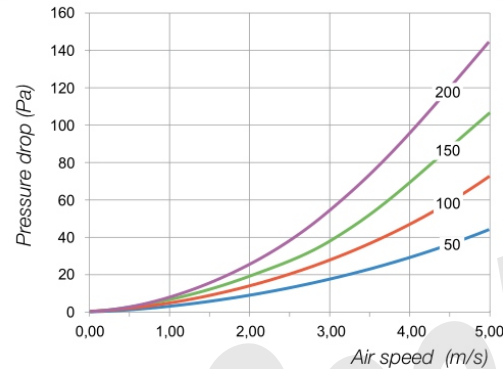
Note: risk of drops ejection in case of air speed through the pads > 3 m/s.

#### Type 7060 (15+45° / 7)

Particularly suitable where low pressure drop as well as reasonable humidification efficiency are required.

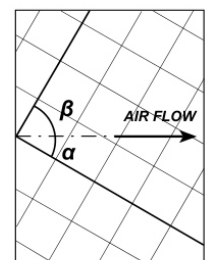


$\alpha = 15$   $\beta = 45$

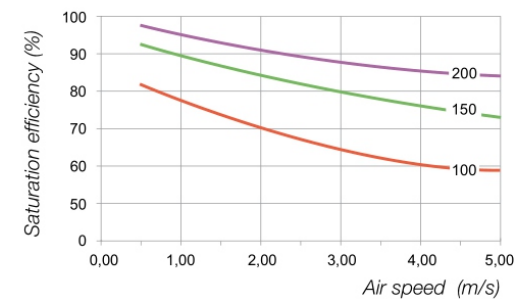
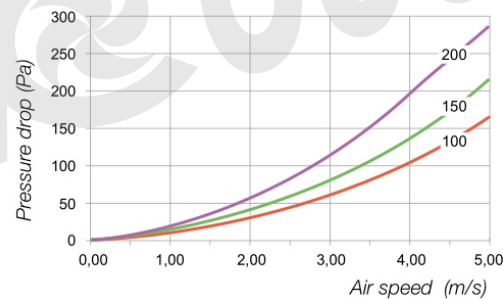


#### Type 7090 (30+60° / 7 version available on request)

Suitable for application conditions where a good balance between humidification efficiency and pressure drop is required.

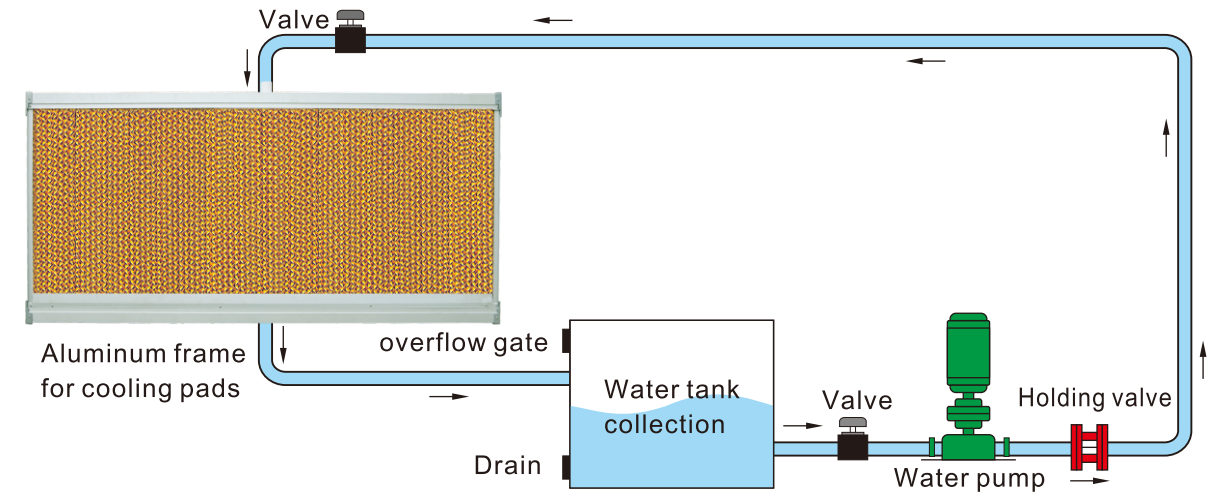


$\alpha = 30$   $\beta = 60$



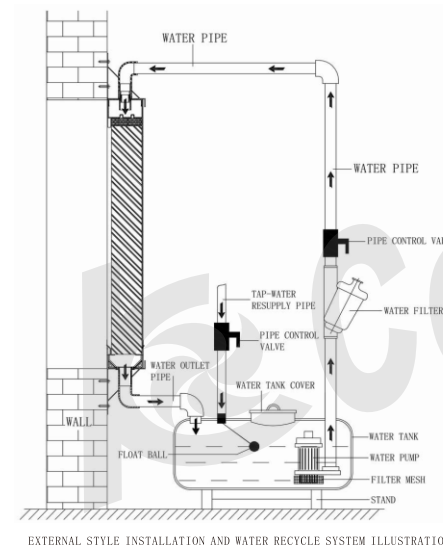
### Evaporative Cooling Pads Application

#### Evaporative cooling pads & negative pressure fan system



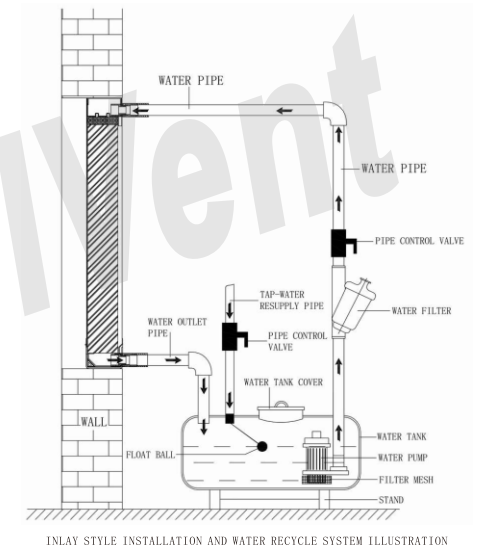
【Cooling Pads Frame System】

#### EXTERNAL STYLE INSTALLATION AND WATER RECYCLE SYSTEM

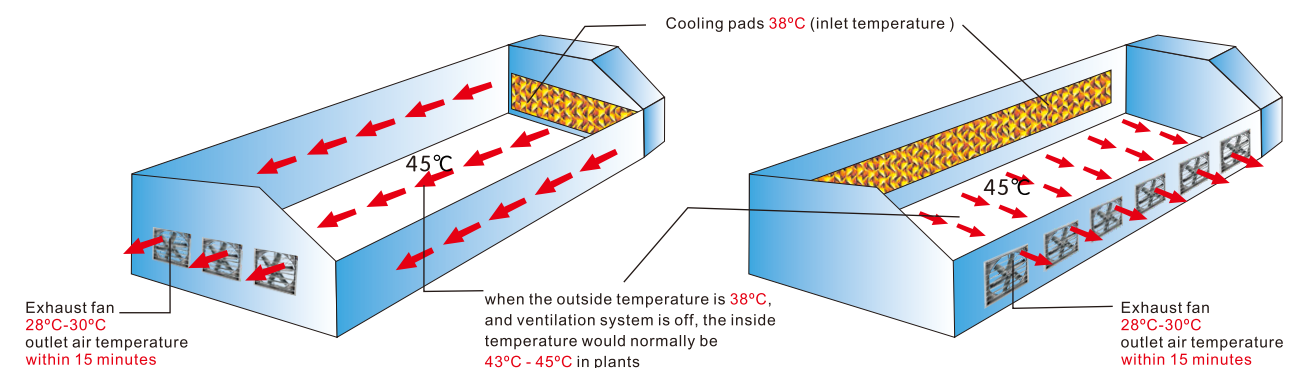


EXTERNAL STYLE INSTALLATION AND WATER RECYCLE SYSTEM ILLUSTRATION

#### INLAY STYLE INSTALLATION AND WATER RECYCLE SYSTEM



INLAY STYLE INSTALLATION AND WATER RECYCLE SYSTEM ILLUSTRATION



【Vertical Cooling & Ventilation System】

【Horizontal Cooling & Ventilation System】



### Applications

#### Poultry and Livestock industry

- Poultry farms
- Livestock
- Hatcheries
- Dairy farms



Poultry house

#### Greenhouses & Horticulture industry

- Vegetable storage
- Mushroom farming
- Seed farming
- Floriculture



Swine house

#### Industrial and comfort cooling

- Cooling fan
- Precoolers
- Industrial humidification
- Residential cooling



Live pig farms



Green house



Green house

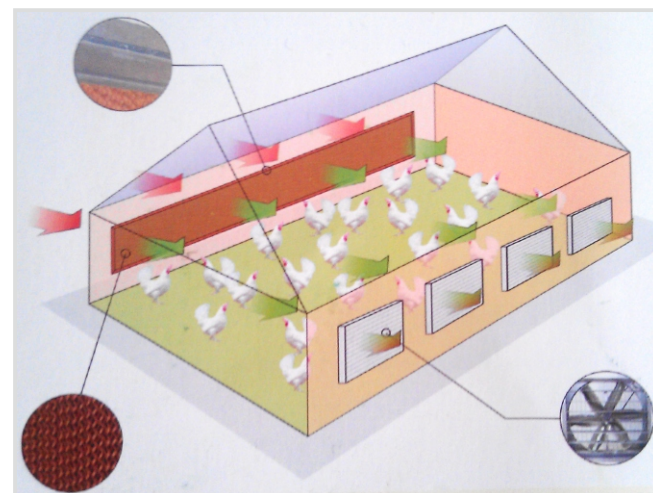


Evaporative cooler

### Features

- Excellent wetting properties
- High evaporation & cooling efficiency
- Low pressure drop
- Strong and self supporting
- Long life span
- Dirt resistant
- No water carry-over
- Self cleaning
- Low operating cost
- ECO friendly
- Easy to install

### Install Sketch Map



### Factory production view

#### 生产场景

