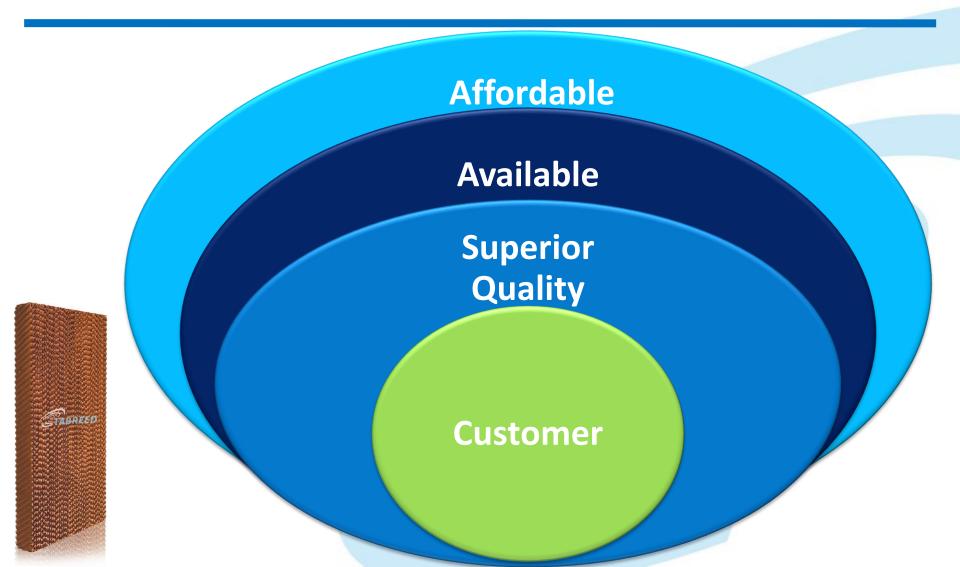
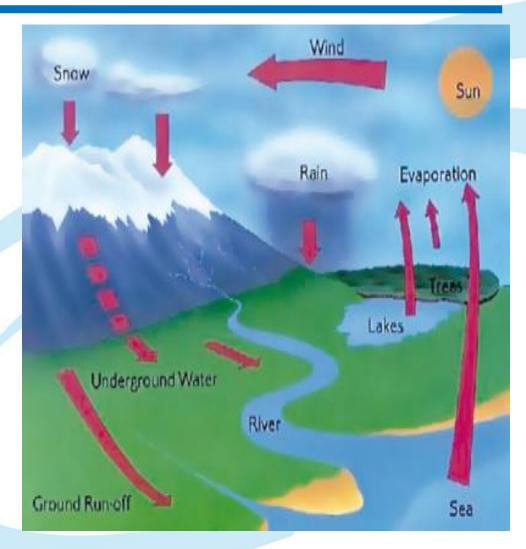


Objectives of Establishing Tabreed Cell Pad Facility in Turkey





Evaporative cooling reduces air temperature through the evaporation of water





It is the transfer of energy from















The temperature of dry air drops significantly through the transition phase of liquid to vapor

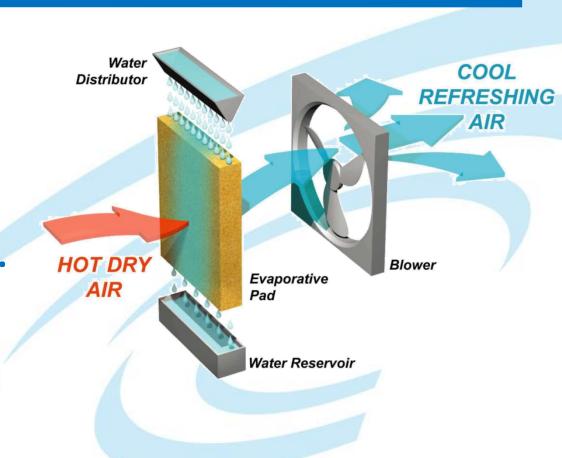




Tabreed Cooling System

The cell pads act as the intermediary surface in which hot air interacts with the water to reduce air temperature.

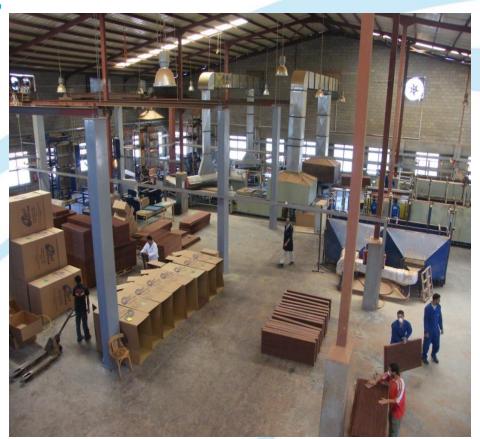






Tabreed is manufactured:

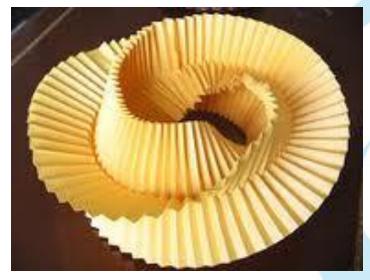
- ✓ finest European cellulose material
- √ highest quality chemicals
- √7 years of experience

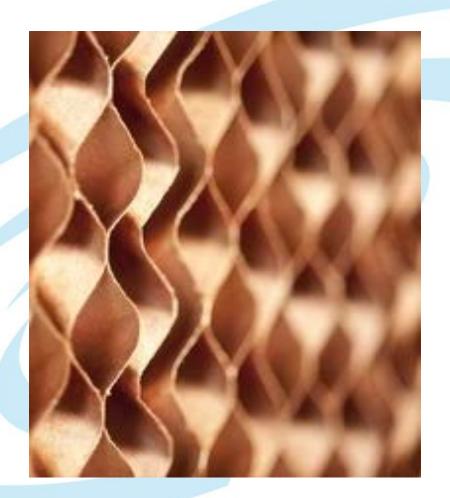




The papers are:

- **✓** Cut
- **✓** Corrugated
- ✓ Compiled together
 In a bee hive structure







The efficiency of the cell pads depends on:

- ✓ the pad's ability to absorb
 and release water
- √ The cohesiveness of layers
- ✓ Streaming of the air flow

Reduce air temperature by up to

22 degrees Celsius





Difference Between High Pressure Misting and Tabreed Cooling System

High pressure misting

is the process of introducing a fixed amount of water

Regardless..

of the capacity of air to vaporize the water

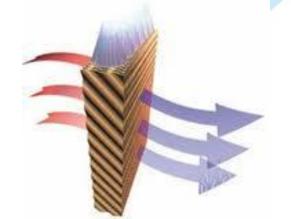




Difference Between High Pressure Misting and Tabreed Cooling System

Tabreed Cooling System is a

SELF-REGULATORY SYSTEM





THE AIR WILL ONLY
PICK UP AS MUCH
WATER AS IT CAN
POSSIBLEY CARRY



Why Tabreed SBS





















FACTORIES & STORES





The Optimal temperature for raising chicken is at









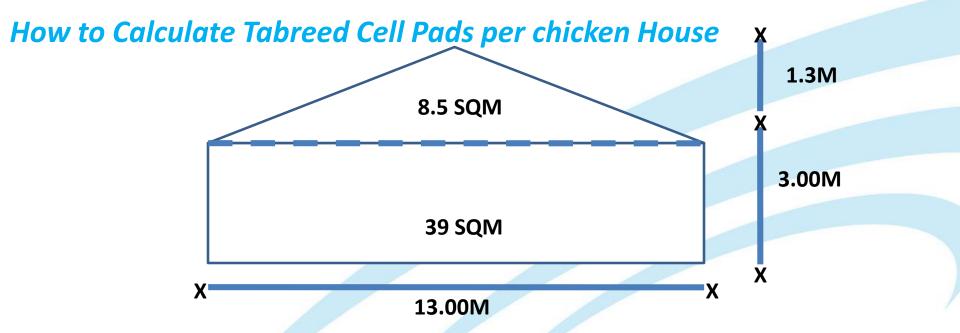
The Effect of High Temperature on Flock Performance

	Ultimate performance	Mode perfo	erate ormance	Low performance
Temperature/ degrees Celsius	Productivity	FCR	Quality of Egg	Mortality Rates
21-25				
26-30				
31-35				
35-40				
40<				



Poultry Farms





1- Total Cross Sectional Area of Hen House 39 SQM+ 8.5 SQM= 47.5 SQM







How to Calculate Tabreed Cell Pads per chicken House

2- Air Speed through the cell pads / SQM:

2.00 meters/ Second







How to Calculate Tabreed Cell Pads per chicken House

3- Required Air Volume:

Cross Sectional Area

(CSA) X Air Speed X 60 min X 60 sec

= 47.5 sqm X 2 X 60 X 60

= 342,000 m3/hr







How to Calculate Tabreed Cell Pads per chicken house

3- Cell Pad Sizing:

Total Air volume/ Air Speed

= 342,000/7200

= 47.5 SQM

= 47.5*0.15 (Tabreed cell pad thickness)

= 7.2 cubic meters of cell pads/ house/ Cycle







Tabreed Rule of Thumb

Area of Tabreed *Pads (15cm thickeness)* = CSA of the house









How to Calculate Tabreed Cell Pads per chicken house

4- Total Cost of Tabreed Cell Pads/ House:

= 7.2 m3* 180 USDs

=1,296 USDs/ House/ Cycle







How to Calculate the Total Number of Fans

Required/ House

1- Fan Capacity at 10 PA:

= 42,000 m3/hr







How to Calculate the Total Number of Fans Required/ House

Total Air Volume/fan capacity

= 342,000/ 42,000

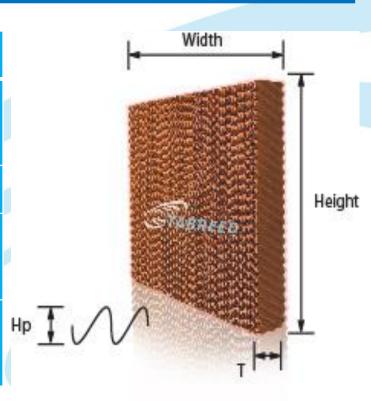
= 8 Fans





Product Specs

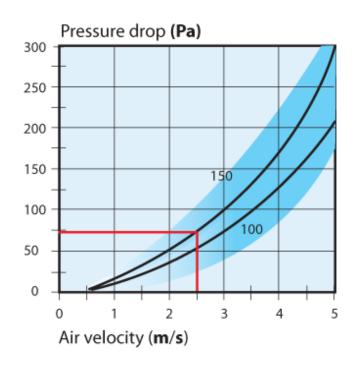
Width	500,600 mm
Height	1,000 , 1,200 , 1,500, 1,800 , 2,000 mm
Thickness	50,100,150,200 mm
Angles	45*45 deg , 45*15 deg , 60*30 deg
Corrugation Height	7.5, 5.0 mm

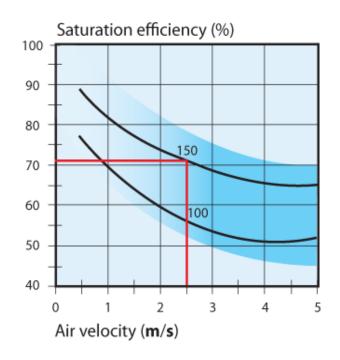




Performance

Tabreed 45/45 Angle

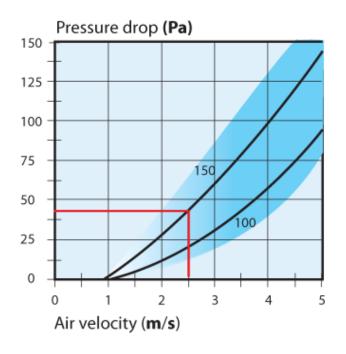


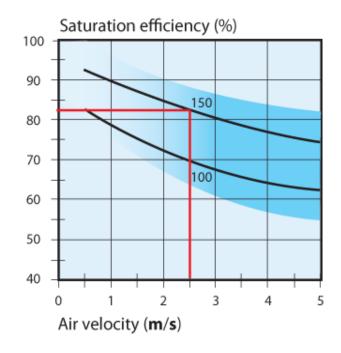




Performance

Tabreed 15/45 Angle

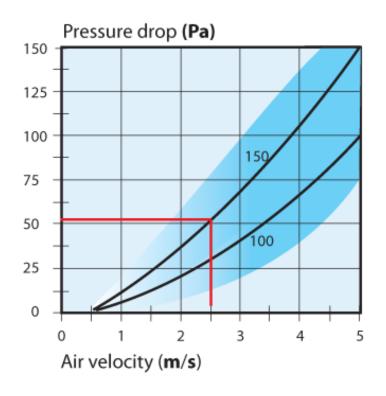


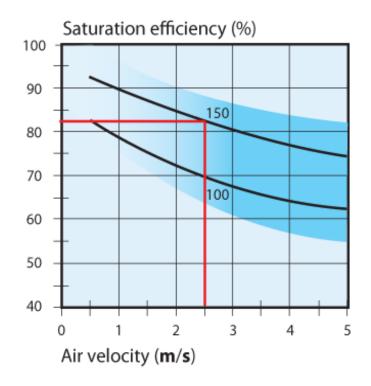




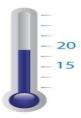
Performance

Tabreed 30/60 Angle





25% Increase in Chicken House Capacity







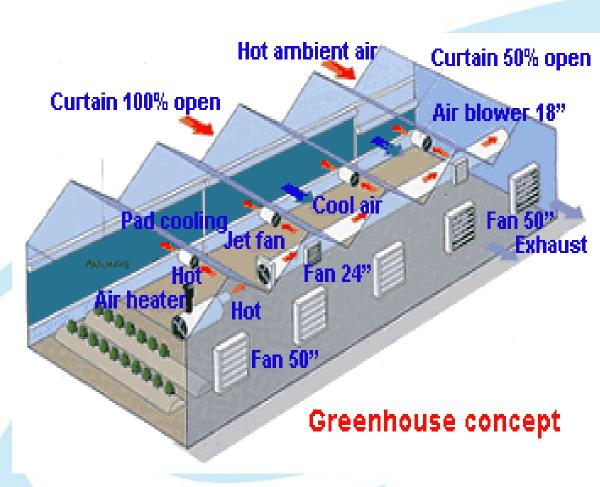




Temperature reduction up to

15 degrees

•Provides the ultimate humidity levels for the healthy growth of agricultural crops







This allows:

- **√365** days of on going production for agricultural crops.
- ✓ Increase in greenhouse capacity by 40%
- **✓** Reduce the application of pesticides
- ✓ Increase humidity levels
- ✓ Increasing fertility of the soil



365 Days

On going Production of Agricultural Crops



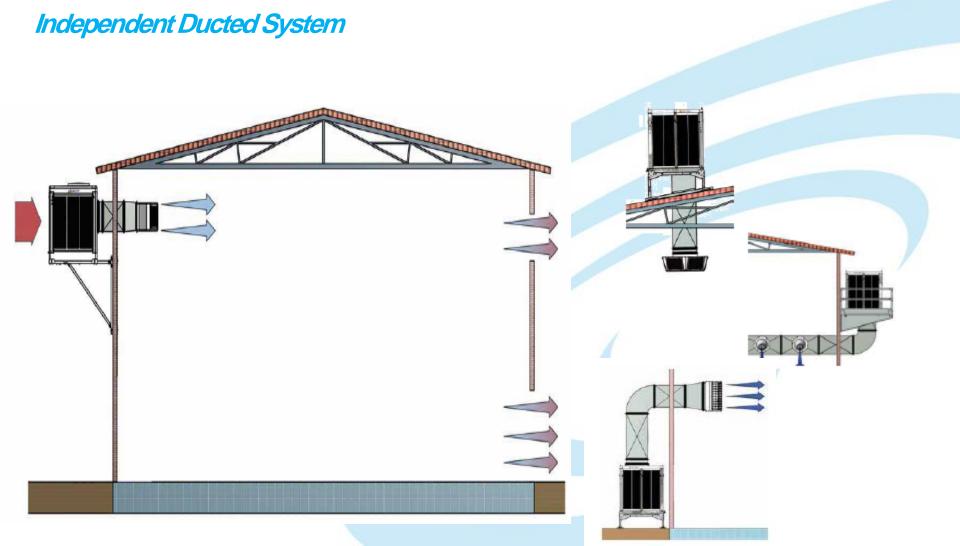




Factories and Warehouses



* STORES





Factories and Warehouses



FACTORIES & STORES

Independent Ducted System





Factories and Warehouses



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GREEN FACTORIES HOUSES & STORES





Thank you