ZENCO INDISTRIES

A3,Niemall Market,PCNTDA, Chikhali Road, Purnanagar,

Pune -411018.

Email : zenco.sales@gmail.com Mob : 08689928105

MODEL - MERCURY
18000 CMH
Ductable Model

MODEL - URANUS
18000 CMH
Freely Movable Model

Eco Friendly | Energy Saving | Low Running Cost | Low Maintenance | Technical Support

MODEL URANUS

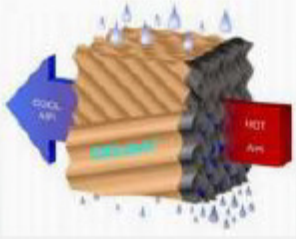
[Freely Movable Air Cooler]

Cool up to
2500 Sq. ft.
(without ducting / spot cooling)

1 Unit = 1 Hour

New Technology Air Cooling System

Heavy Industrial Free Movable Air Cooler



- Large Evaporation Area
- 4D Cooling Pad

18,000 CMH

URANUS Technical Data

ITEM		Specification
Airflow (m3/h)	-	18000 CMH
Cooling Area (sq.ft)	-	2500 (Without Ducting)
Air Pressure (P.A.)	-	180
Motor (V/Hz)	-	380 to 415v / 50HZ
Power (kw)	-	1.1
Phase	-	3
Speed	-	1
Fan Type	-	Axial
Noise (db)	-	73db
Water Tank (ltr)	-	35
Net weight (kg)	-	77
Overload Protection	-	Yes
Dust Filter	-	Yes
Air Outlet Size (mm)	-	670 x 670
Dimension LxWxH (mm)	-	1100x1100x950

MODEL - MERCURY

[Ductable Air Cooler]

Top Discharge

Down Discharge

MERCURY Technical Data

ITEM		Specification
Airflow (m3/h)	-	18000 CMH
Cooling Area (sq.ft)	-	1500 (With Ducting)
Air Pressure (P.A.)	-	180
Motor (V/Hz)	-	380v/50HZ
Power (kw)	-	1.1
Phase	-	3
Speed	-	1
Fan Type	-	Axial
Noise (db)	-	73db
Water Tank (ltr)	-	35
Net weight (kg)	-	65
Overload Protection	-	Yes
Dust Filter	-	Yes
Air Outlet Size (mm)	-	670 x 670
Dimension LxWxH (mm)	-	1100x1100x950

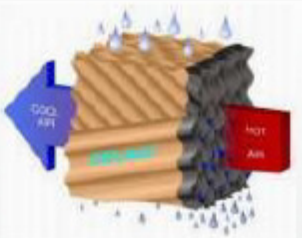
18,000 CMH

Heavy Industrial
Ductable Air Cooler

Cool up to
1500 Sq. ft.
(with 50 ft line up ducting)

1 Unit
=
1 Hour

New Technology
Air Cooling System



- Large Evaporation Area
- 4D Cooling Pad

Product Special Features

World's Best Engineering Plastic Injection Molding Body

SKY Uses 100% New Material Engineering Plastic Injection Molding Body

1. UV - resistant cabinet material.
2. 100% Usable in Outdoor.
3. Temperature tolerance form - 42° C to 96° C.

World's Best Motor

SKY presents best high torque MOTOR in India

1. 100% Maintenance free
2. 100% dust & moisture proof
3. Saves upto 80% Electricity Bill.
4. Can be used Non stop upto 24 hrs.

Xtraordinary Features & Benefits of SKY

5090 Honey Comb - Cellulose Wet Pad# World's Best Quality Pads imported from Finland with Anti Bacterial Resins & 4X Longer Life than any other Pad (last upto 5 yrs.*)

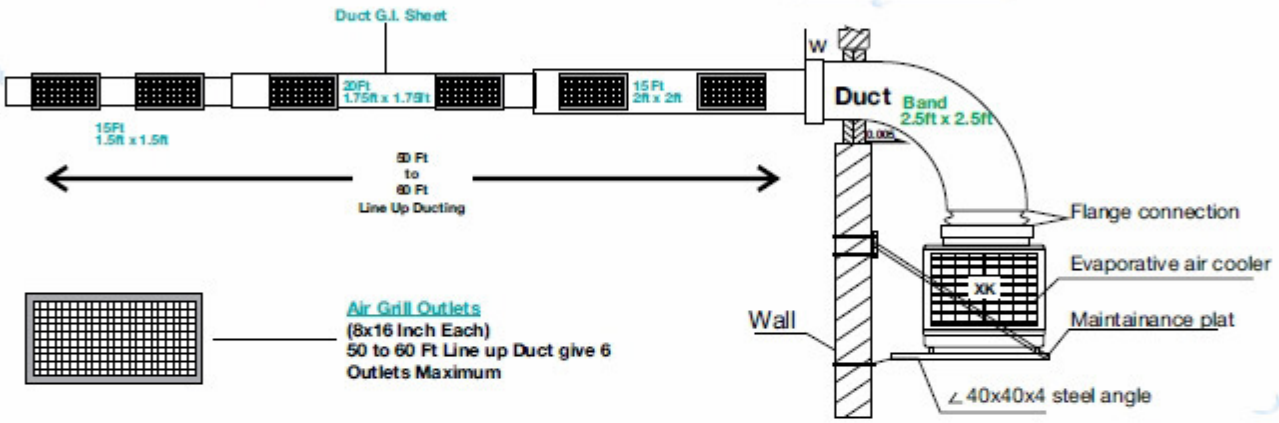
4D Technology (Top & Bottom Discharge)#
SKY is the only brand which gives 4D Cooler in movable & ductable Coolers.

Turbo Axial Fan#
SKY is the only brand which gives Turbo Axial Fan for worlds most powerful air through & very low noise.

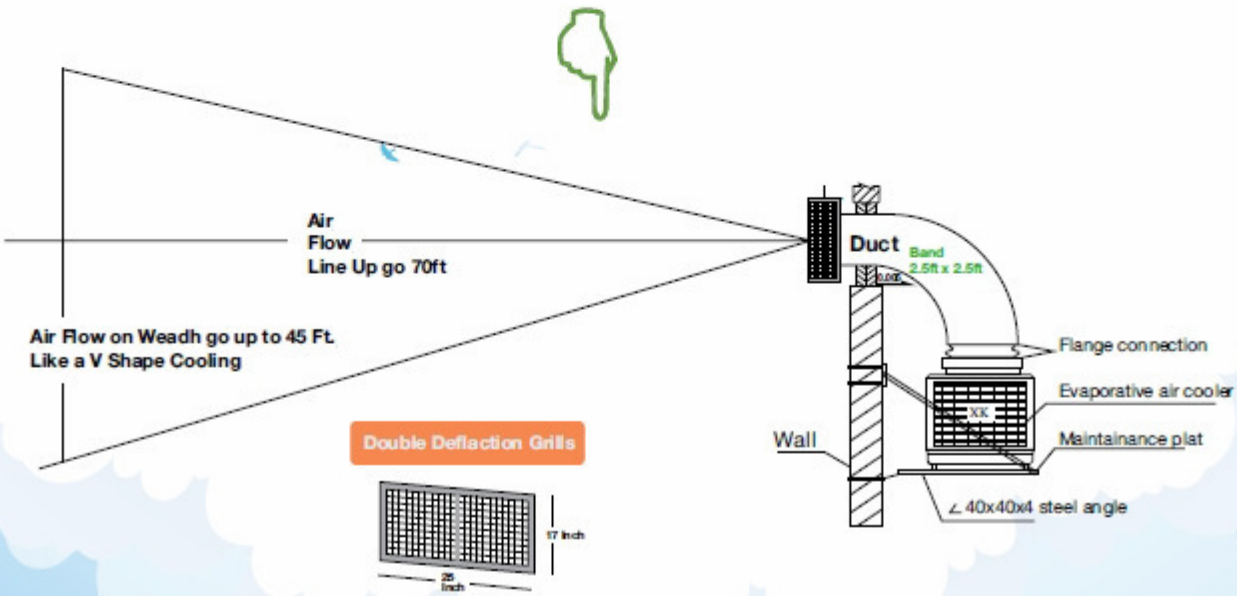
How to Cool With or Without Ducting .... ?

Central Cooling with Evaporative Coolers [With Ducting]

DUCTING DRAWING FOR 18000 CMH



How to Cool Area with Wall Mount [Without Ducting]



How it Work ... ?

Evaporative cooling is a physical phenomenon in which evaporation of a liquid, typically into surrounding air, cools an object or a liquid in contact with it. Latent heat describes the amount of heat that is needed to evaporate the liquid; this heat comes from the liquid itself and the surrounding gas and surfaces. When considering water evaporating into air, the wet-bulb temperature, as compared to the air's dry-bulb temperature, is a measure of the potential for evaporative cooling.

The greater the difference between the two temperatures, the better the evaporative cooling effects. When the temperatures are the same, no net evaporation of water in air occurs, thus there is no cooling

SpaceCooling

Healthy Fresh
Cool & Clean Air

Enjoy the Natural Cooling System

eco

Eco-Friendly Product
Energy-Efficient Comfort

Principle of Evaporative Coolers

The principle of evaporative cooling is relatively simple. Air moving past water will cause the water to evaporate. The heat necessary to cause evaporation is drawn out of the passing airstream and hence the air is cooled. The human body uses this principle to control body temperature by varying the amount of moisture on the skin surface (perspiration). The evaporation of this moisture cools the skin and helps to lower the body temperature.

The modern evaporative cooler uses a fan to draw outside air through wet filter pads. This filters the air of impurities and lowers the air temperature due to the evaporation of water within the pads. The cooled air is then distributed or directed into the building. The filter pads are wet by a pump which pumps water up to the top of the pads, from where it trickles down. The moisture content of the supplied air is increased, however this does not matter provided the air is cooled sufficiently.


Plant or Factory Cooling


AIR
Leather Industries Cooling

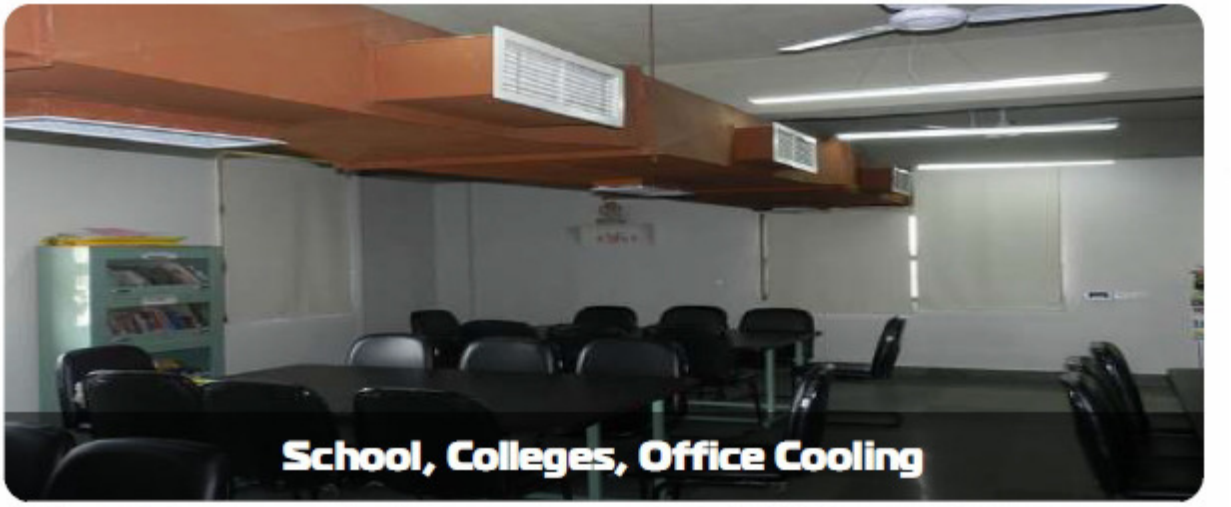

AIR
AIR
Showroom Cooling


Farm House Cooling


Canteen Cooling


Warehouse Cooling


Printing Press Cooling


School, Colleges, Office Cooling


Plastic Moulding Industry Cooling


Iron Industry cooling


Engineering Industrial Cooling


Electronics Industry cooling


Hotel & Restaurant Cooling


Paper Industries Cooling


Textile Industries

Working Principal and Temperature Chart

Exit Air °C / Intake Air °C	Intake Air Relative humidity (%)								
	10%	20%	30%	40%	50%	60%	70%	80%	90%
10	3.2	4.0	4.8	56.6	6.4	7.2	8.0	8.6	9.4
15	6.6	7.8	8.8	9.8	10.8	11.8	12.6	13.4	14.3
20	10.1	11.4	12.8	13.9	15.2	16.2	17.2	18.2	19.2
25	13.4	15.0	16.6	18.0	19.4	20.6	21.8	22.9	24.0
30	16.6	18.6	20.4	22.0	23.6	25.0	26.4	27.7	28.9
35	19.8	22.2	24.2	26.2	28.0	29.6	31.0	32.4	33.7
40	23.0	25.6	28.1	30.4	32.3	33.9			
45	25.9	29.2	32.0	34.4					
50	29.0	32.7	35.8						

Comparison of Air Cooler and Air Conditioner (AC)

Cooler Expensive than AC WHY ?

Suppose to Cool An Area of 3000 sq.ft When Outside Temperatures is 40oC, Relative Humidity is 20-30% and Temperature Required 24o -27oC.

Requirment	 Air Cooler	 Any Air Conditioners
Cooling Area	2500 sq.ft	2500 sq.ft
Cooling Capacity Required	18,000 CMH	250000 BTU
Units Required	1 pc	min. 11 pcs of 2 ton
Power Consumption(PC) / Hr	1.1 KW	27.5 KW Appx
Fresh Air Change Per Hour	18000 M3/h	0 (zero)
Electricity Bill 1 month 12 hrs x 30 Days x 6 Rs. x PC	Rs. 2,376/-	Rs. 59,400/-