

**X**SERIES  
Automated Coolest Energy Efficient



**DUCTABLE  
INDUSTRIAL & COMMERCIAL  
HIGH PERFORMANCE  
AIR COOLER**



**XTREME**<sup>TM</sup>  
COOLER

The Xtreme Cooler™ is an ideal choice for applications where intense heat is encountered and in large facilities where refrigerated air is very expensive. Designed to cope with even the extreme harsh industrial environments, Xtreme Cooler™ features a range of benefits:

- UV protected, non corrosive, anti-ageing and resistant to deformation, high strength polymer body has long long life. Polypropylene has high structural strength, added with ultra violet stabilizers resulting material is the material which is used to make acid baths, battery cases & space satellite components.
- The housing, tank and other components are injection moulded structural polypropylene. The housing is UV stabilised and non corrosive. Visually discreet.
- Suitable from large to small areas and long ducts.
- Streamline design, durable and elegant appearance.
- 100% fresh air delivered.
- Water washed Cool Clean air.
- Next Generation features with personalised automation optimised.
- Energy Efficient.
- Indoor and Outdoor usage.
- Low investment, lower operating cost.
- Evaporative air cooling is not that complicated, it's just a fan blowing air passed through wet cooling pads.
- Replacing the air through your target area every 1 to 3 minutes.
- Four side cooling.
- Pre-fitted flanges for easy ducting.
- Extreme quality and reliability.



# WHY EVAPORATIVE AIR COOLING ?



## The healthiest choice

Improving the health, well being and vitality of the occupants.  
Maintains moisture in the air, which combats dehydration.



## Lowest running cost in India

Up to 80% cheaper to run.  
Save up to 80% on energy bills when compared to a AC and Air Washer.



## Fresh, cool clean air

Delivers 100% fresh, filtered, washed outside air, naturally cooling you.



## Quiet to run

Cool and whisper quiet.



## Built to last

Quality that lasts.  
Up to 5 years comprehensive warranty#



## Environment friendly

Produces up to 80% less CO2 emissions~ - that's the equivalent of planting 16 trees!



## Low maintenance

Innovative design, minimising long term servicing.



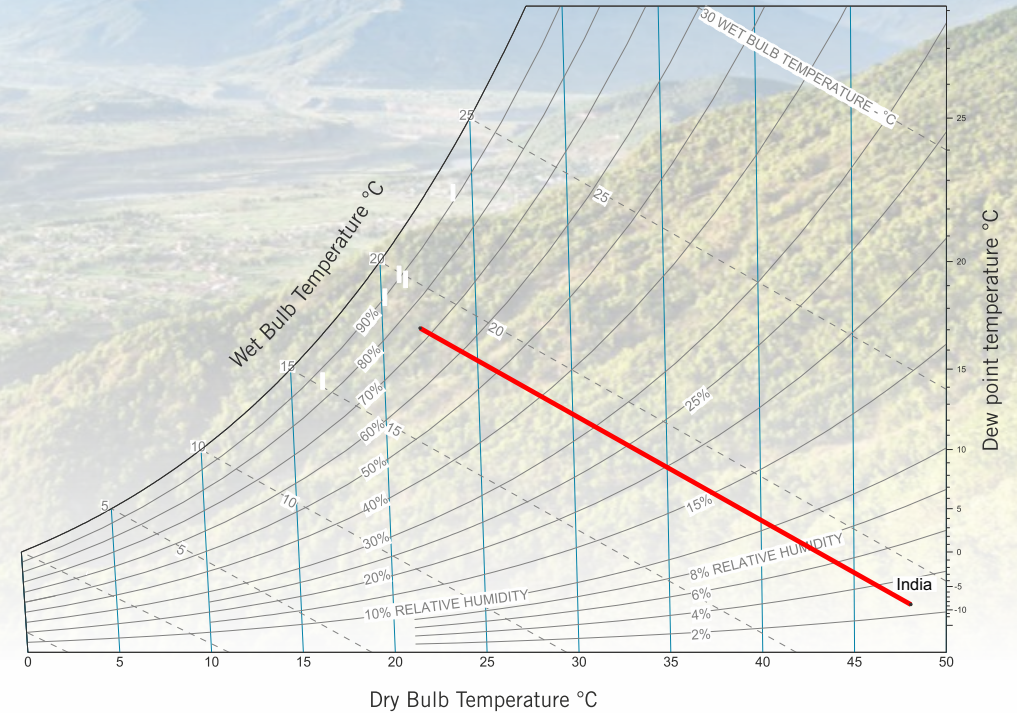
## Technology that puts you in control

Our Smart Controller technology for complete control of your comfort.



## More the hotter outside more the cooling inside

As the temperature increases the performance increases.



Cooling capacity measured at ambient of 38 C dry bulb and 21 C wet bulb, with room exit temperature of 27.4 C



## X5

- Suitable for upto 35,000 cubic feet volume or 3500 square feet area.
- Air throw upto 150 feet.
- Duct length upto 100 feet.
- Top discharge & down discharge options.
- Cooling pad area 37 square feet.
- Ultra quite cooling.

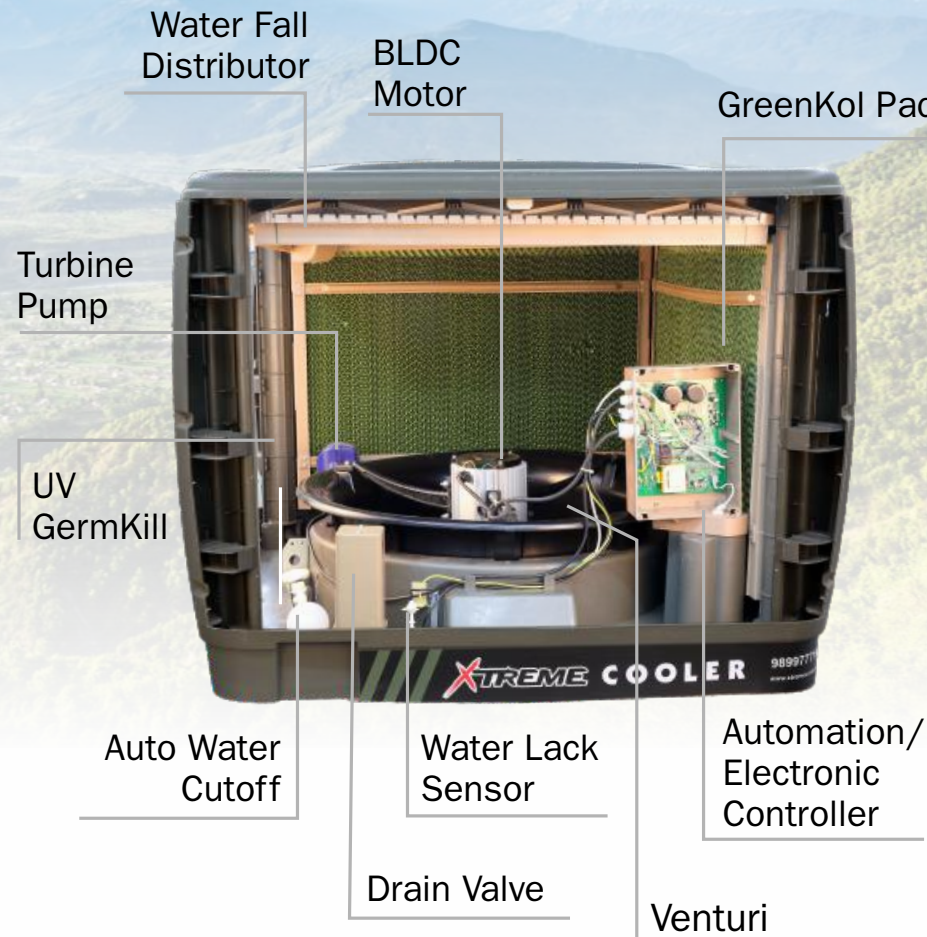
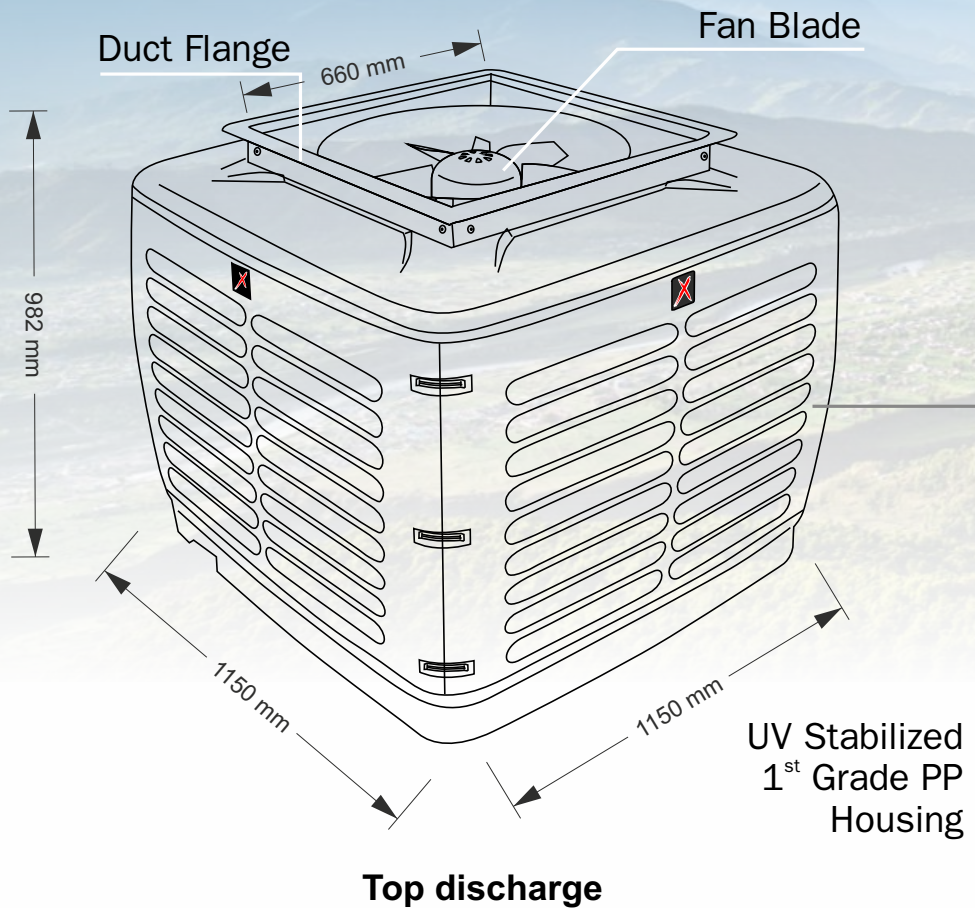


## X3

- Suitable for upto 21,000 cubic feet volume or 2000 square feet area.
- Air throw upto 75 feet.
- Duct length upto 50 feet.
- Top discharge & down discharge options.
- Cooling pad area 22 square feet.
- Ultra quite cooling.

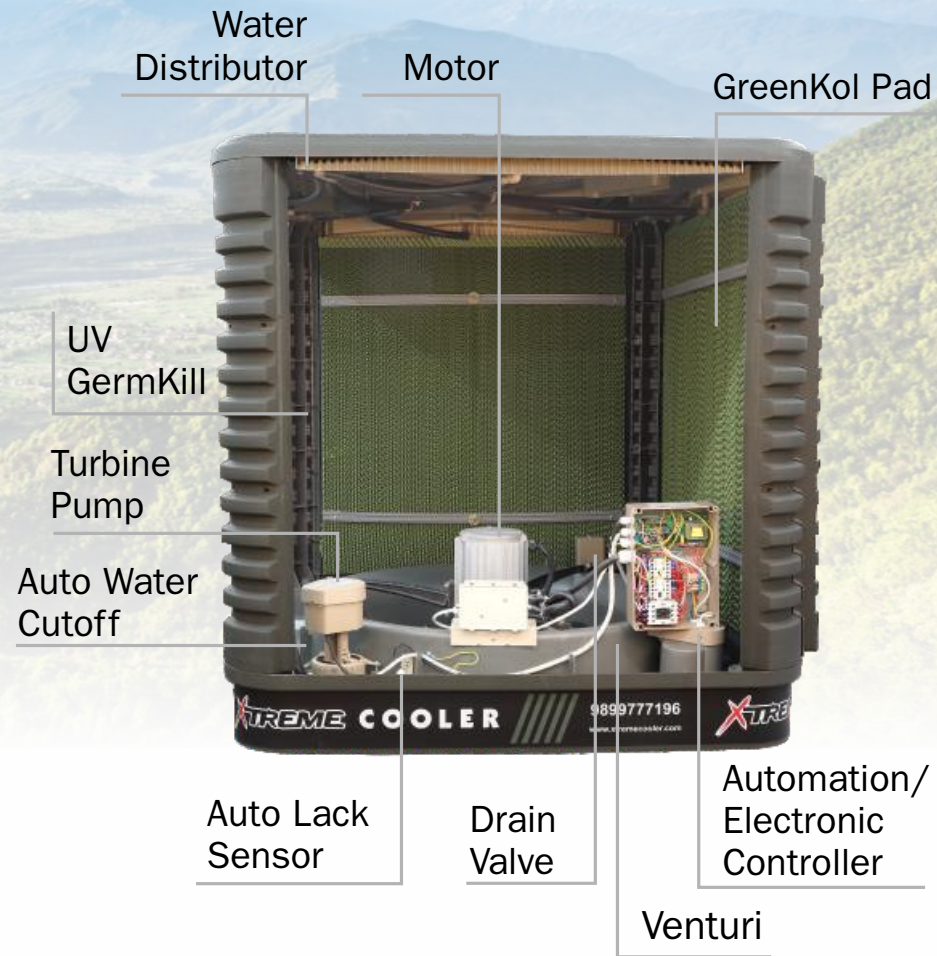
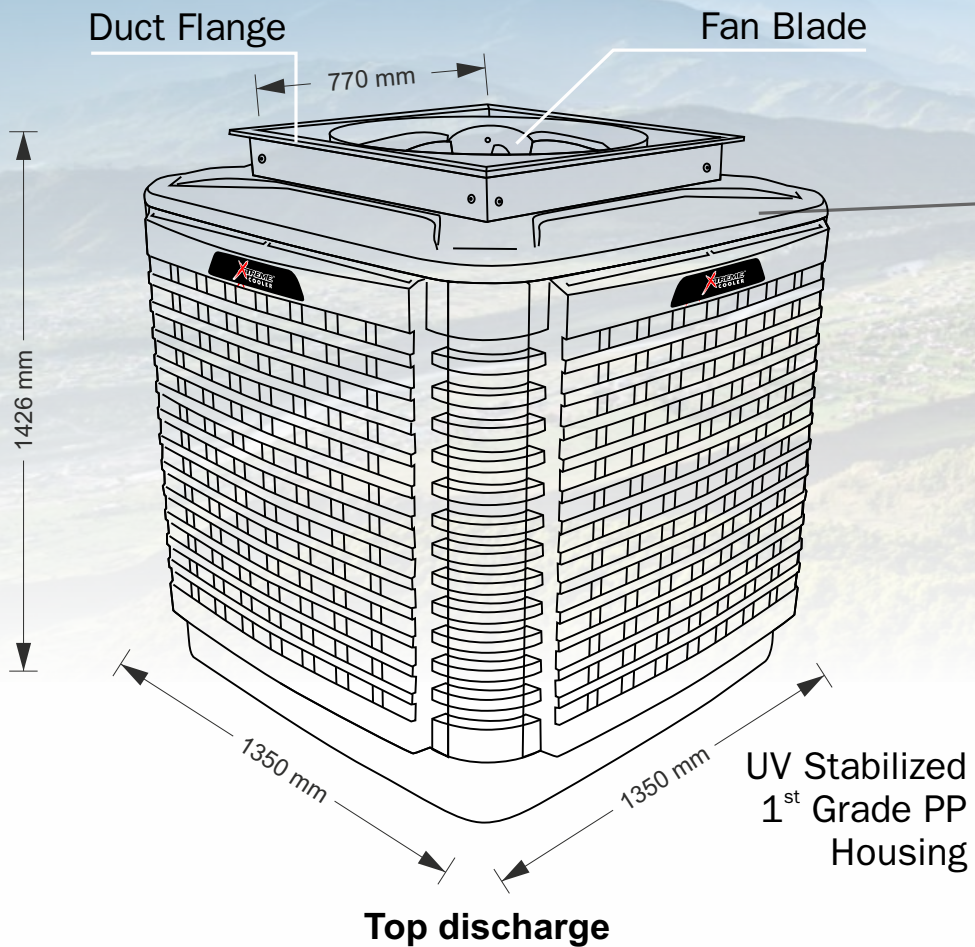
# Over view

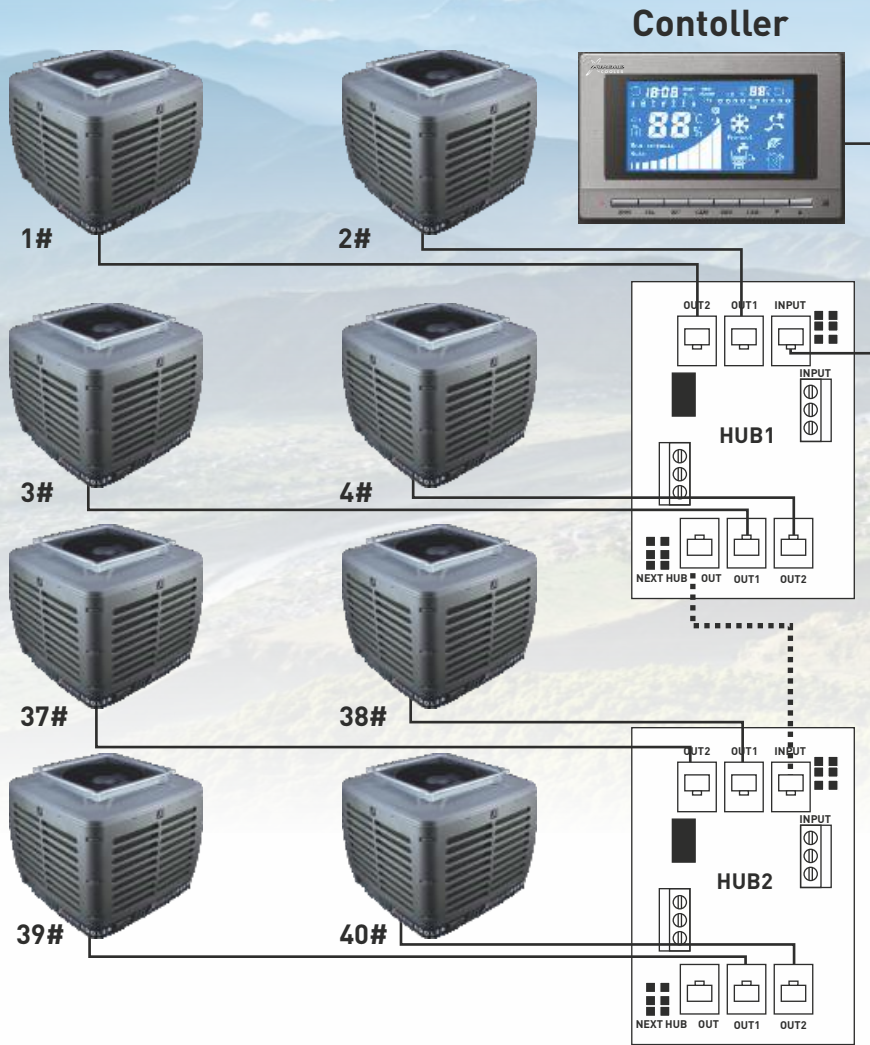
# X3



# Over view

# X5



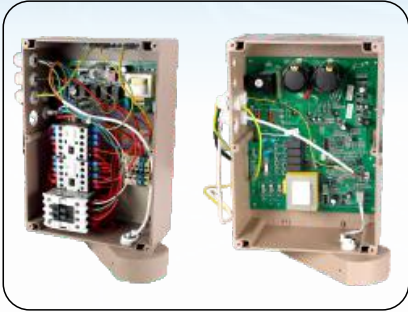


## AUTOMATED CONTROLS

Smart Hub: One Controller Controls all Units

- Connect upto 40 cooler in a single array and operate with 1 controller, no need to setup expensive panel room.
- Multiple configurations can be achieved for different areas.

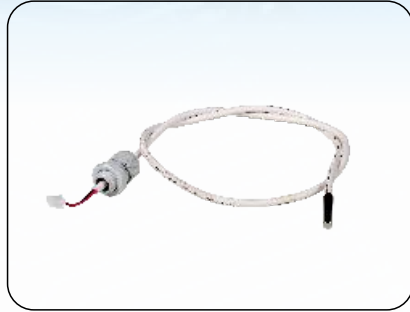
# AUTOMATED CONTROLS



## ECM

A state-of-the-art digital electronic control module ensures optimum performance. The control module monitors and controls all of the air cooler's features to provide ultimate comfort conditions, temperature sensing and water quantity supervision.

The control centre of your Air Cooler, high quality silver coated PCB manages all parts and functions of the unit. Advanced electronics ensure maximum efficiency.



## Temperature Probe

Shows the air temperature delivered by the cooler on the intelligent LCD controller



## LED Controller

Reliable LED control unit for basic operations of cooler.



## LCD Controller

LCD remote controls all the cooler operations intelligently, no other switch or control panel required. Nice modern looking wall mounted remote comes with 10 meter wire.

Intelligent, informative, smart, sophisticated controls for your cooler, manage fan speed, get the settings customised as per your usage. Incredibly easy to use. Maintain your desired comfort level with four convenient modes to choose from:- Cool, Vent, Auto and Timer.



## Water Level Sensor

Cuts off the water pump when the water is low in the tank, restarts when water is filled again. Ensures the pump do not run dry. Uses minimum water for maximum cooling



# AUTOMATED CONTROLS



## Auto Fill

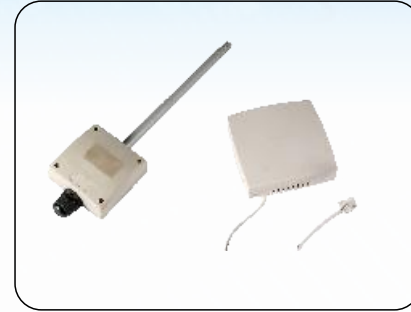
Cuts off the water supply when the tank is full. Allows required input of water as per the consumption.



## Drain valve

Auto clean function. The one of its features which allows auto drain of water as per preference. Now no algae growth or muddy water and most importantly no mosquito breeding in the water tank.

Auto Clean 8 hours factory default function keeps your system clean and maintains the water quality of the cooler, flushes out old stale water. Reduces the need for frequent maintenance.



## Humidity & Temperature sensor

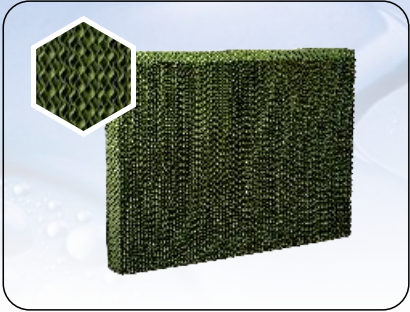
Monitors the temperature and humidity (RH) levels. This makes your cooler fully automatic and enables auto speed for adjusting temperature as per your preference. The sensor can be fixed in the best place indoor to ensure ultimate cooling comfort for everyone. Set your preferred temperature and the controller will do the rest.



## Pressure cleaning pipe

Removes all dirt and sludge around water pump area for clean operations.

# COOLING ENHANCER



## GreenKol Pad®

High performance, strong, long-lasting GreenKol Pad® that last for up to seven years, maintenance is easy. GreenKol Pad® are made from organic paper materials, cleverly manufactured into honeycomb panels that have excellent structural and colling strength.

- High performance strong long life GreenKol Pad®.
- >82% Evaporation cooling efficiency.
- <1 min Saturation time.
- 5 mm diagonal flute size.
- 95 GSM high fibrous green cellulose paper.
- No split and no odour.
- Grade-1 Fungus - resistance.
- >3m/s Head-on wind speed.
- <70 Pa Wind drag.
- >50-70mm/5min Water sucking altitude.



## Water Distributor

Non clogging water distribution system delivers evenly water distribution system delivers evenly water flow to the cooling pads.

Water fall type non clogging design results in better water distribution for increased cooling. Clever high efficiency pad wetting system Sludge /debris hold area.



## UV germ kill

Kill all germs, virus and bacteria in circulating water for hygienic and safe air.



## Turbine Water Pump

The perfect pump for the job, Turbine water pump delivers highest level of reliability.

High pressure pump that won't block circulates the required water quantity for the very harsh summers. Exceptional reliability in extreme conditions. Swirl designed outlet, easy to let off waste.

# ENERGY EFFICIENT



## BLDC Motor

Direct drive motor uses far less energy than a standard motor. Double ball bearing, unsurpassed reliability. High quality Aluminium housing for better heat dissipation, Class B insulation. IP51 water proof motor with copper winding for higher efficiency and delivers same performance year after year.



## AC Induction Motor

The fan motor is fully enclosed to international standards and uses aluminum housing with good heat dissipation, water proof & moisture proof. The advanced design is rigorously tested and is completely reliable. High standard copper wined motor in aluminum housing with double speed.



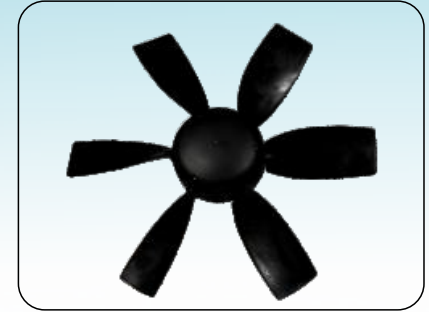
## Flameproof/ Explosion proof motor

Flameproof / Explosion proof motor for special applications where fire safety is highly essential.



## Energy Efficient Inverter Motor

Energy efficient motor for lower power consumption.



## Fan Blade

High performance fan blades deliver near noise less operations with high air flow. Advance Aeronautically designed axial fan with large air flow, low noise and energy savings.

## ACCESSORIES



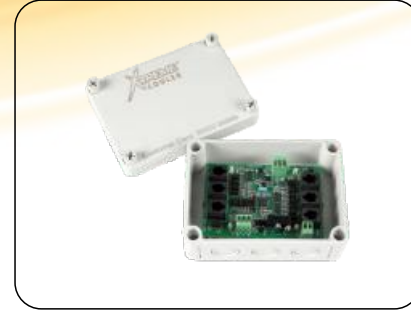
### Dust Filter

Nylon thread woven in mesh and constructed in a unique design for easy installation, cleaning and maintenance.



### Crystal Marbles

Chemically activated marbles in a bag to be placed in water tank. Helps in increasing the life of cooling pads by softening the water. The salt accumulation is converted into dust.



### Hub Control System

Connect upto 40 coolers in a single array and operate with 1 controller, no need to setup expensive panel room. Multiple configurations can be achieved for different areas.



### Ducts

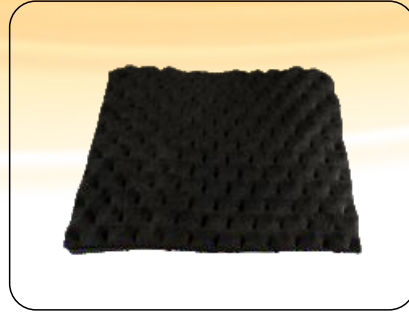
22/24 SWG 120 GSM high quality coil GI sheets from Jindal/ SAIL/ TATA steel fabricated by specialized state of the art Machines.

# ACCESSORIES



## Grills

Specifically designed for air cooler draft, results in optimum performance and ease of usage. best quality aluminium and PVC construction with lockable bearings



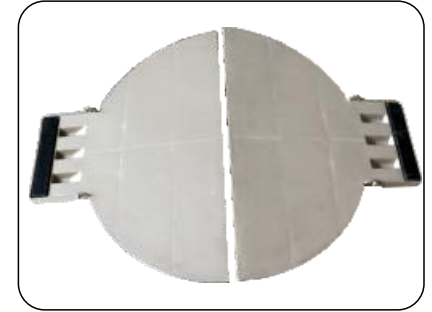
## Sound Accoustic

Superior grade 9 mm egg tray shaped nitrite rubber sheet pasted inside GI duct eliminates air cutting noise.



## Thermal Insulation

6 mm XLPE coated with pure aluminum sheet provides best insulation on GI ducts.



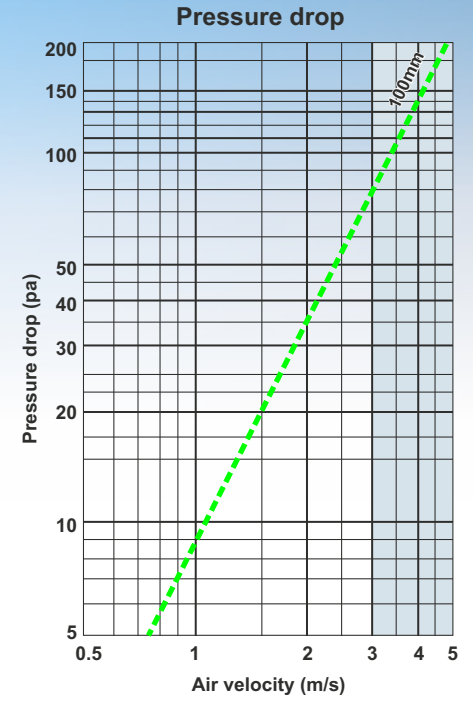
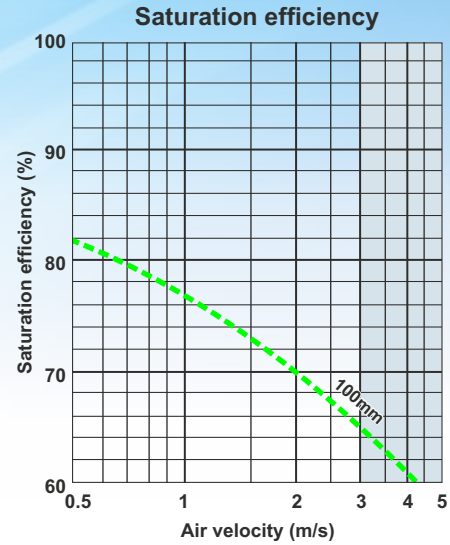
## WeatherSeal Dampers

Automatically closes off the air cooler duct when not in use. All year comfort as winter cold air is prevented from entering in the ducts.

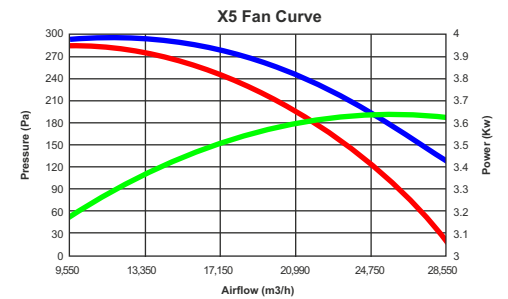
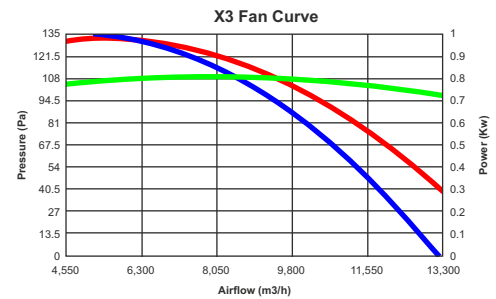
# Supply Air Temperature

Ambient Dry Bulb Temperature Degree (°C)	Relative Humidity								
	10%	20%	30%	40%	50%	60%	70%	80%	90%
10	4.0	4.5	5.5	6.0	7.0	7.5	8.0	9.0	9.5
15	7.5	8.5	9.5	10.5	11	12	13	13.5	14.3
20	11	12	13	14.5	15.5	16.5	17.5	18.5	19
25	14.5	16	17	18.5	20	21	22	23	24
30	17.5	19.5	21	22.5	24	25	26.5	28	29
35	20	23	25	26.5	28.5	30	31.5	32.5	34
40	23	26.5	29	31	32.5	34.5	N/A	N/A	N/A
45	26	29	32.5	35	N/A	N/A	N/A	N/A	N/A
50	29	32.5	36.5	N/A	N/A	N/A	N/A	N/A	N/A

\*Supply air temperature is taken at outlet of fan.



Xtreme Cooler™ is an ideal choice for applications where air conditioning is practically unsuitable due to high cost, large & open areas, extreme heat encounters and technical restrictions etc.



## Pay back Period

	Air Conditioner	X5 AJ	X5	X5 e <sup>2</sup>	X3 AJ	X3	X3 e <sup>2</sup>
Actual Power Consumption	1800 w	3000 w	3000 w	2200 w	1100 w	650 w	500 w
Units required for 3500 sq.ft. area	18	1	1	1	2	2	2
Kwh	32.4	3	3	2.2	2.2	1.3	1.0
Electricity cost @ ₹10/- per hour	324/-	30/-	30/-	22/-	22/-	13/-	10/-
1 Day cost	7776/-	720/-	720/-	528/-	528/-	312/-	240/-
1 Month cost	2,33,280/-	21,600/-	21,600/-	15,840/-	15,840/-	9,360/-	7,200/-
4 Month cost	9,33,120/-	86,400/-	86,400/-	63,360/-	63,360/-	37,440/-	28,000/-
Capital cost	30,000 x 18 = 5,40,000/-	2,29,000 x 1 = 1,29,000/-	2,19,000 x 1 = 2,19,000/-	2,99,000 x 1 = 2,99,000/-	79,000 x 2 = 1,58,000/-	1,09,000 x 2 = 2,18,000/-	1,49,000 x 2 = 2,98,000/-
(Capax) Payback period v/s AC	-	18 days	30 days	42 days	22 days	28 days	39 days
Monthly Saving in electricity bill	0	₹ 2,11,680/-	₹ 2,11,680/-	₹ 2,17,440/-	₹ 2,17,440/-	₹ 2,23,930/-	₹ 2,26,080/-

## Xtreme Cooler Comparison

	Xtreme Cooler	Old type metal body Cooler	Air-Washer	Air-Conditioning
Life Expectancy	20-25 Year	2 – 3 year	5-10 Year	6 – 10 Year
Capex	Low	Very Low	High	Very-High
Power Consumption (for 10,000 CFM)	650 W	3 – 5 KW	4 - 8 KW	20 KW
Duct Cost	Very less	NA or very less	Very High	Very High
Effectiveness	Very high - increases with increase in outside temperature	Low	High	Variable - decreases with increase in outside temperature
Maintenance	Very Less – auto clean function	Headache, very high	High	High
Body Material	UV stabilized Polypropylene	Raw GI sheet body	Metal Body	Metal Body
Build Quality	Robust & high Quality	Basic	Mostly build by local manufactures, non-standardization & cheap parts.	Good Quality
Automation	Fully automatic units with LCD controller, temperature & humidity sensor.	Basic switch / Knob	Simple control panel	Yes
Inside Temperature (45 degree outside temp)	26° C (18° C drop)	38° C (7° C drop)	33° C (12° C drop)	NA (Cold air)
Cooling Medium	High performance GreenKol Pad @ – upto 5 years life	Aspen wood fiber – 1 year life	Honeycomb Pads	Refrigerant - Compressor
Appearance	Good & modern looking, enhance building/factory appearance.	Typical old type looks, makes look like stressed 70's / 80's building	Big size boxy looks	Decent
Warranty	5 years	1 year	1 year	1 year

Low power BLDC direct drive motor uses less energy. Incredibly quiet and efficient throughout operating range, Unsurpassed reliability, Corrosion proof parts throughout, that won't rust.



# Technical Specification

	X5e <sup>2</sup>	X5	X5 AJ	X3e <sup>2</sup>	X3	X3 AJ
Discharge	Top / Down			Top / Down		
Airflow (CMH)	36000			20000		
Area Coverage upto	35,000 cu.ft			20,000 cu.ft		
Pressure(Pa)	366		345	190		180
Rated Power (Kw)	2.2	3		0.65		1.1
Maximum Power (Kw)	2.5	3.2		0.8		1.2
V/PH/Hz	415 / Three / 50			220 / Single / 50		
Rated Current(A)	4.7	7.1		2.6		5.6
Fan Type	Axial			Axial		
Fan Diameter (inch)	28			24		
Fan Speed	1	2	1	Multi-Speed		1
Fan Rotation (RPM)	1440	1440 / 930		1370		1440
Motor Type	AC Induction			Brush Less DC		AC Induction
Motor Insulation Class	F			F		
Fan Drive	Direct			Direct		
Blade Material	Nylon			Nylon		
Blade Fins	6		4	6		3
M/s	19.46		18.1	14.5		12.6
Throw / Duct (upto Feet)	150		125	75		60
Vent Size (LxW) (inch)	30x30			26x26		
Dimension (LxWxH) (inch)	54x54x56 (52)			45x45x39 (37)		
Housing Material	UV Stabilized Engineered PP			UV Stabilized Engineered PP		

	X5e <sup>2</sup>	X5	X5 AJ	X3e <sup>2</sup>	X3	X3 AJ
Pad Size (LxWxH) (inch)	35x4x38			33x4x24		
Nos. of Cooling Pads	4			4		
Cooling Pad Sq.ft.	37			22		
Auto Clean	8 Hours		Switch	1-99 Hours		Switch
Water Overflow Protection	Yes			Yes		
Water Lack Protection	Yes		NA	Yes		NA
Water Capacity(L)	55			30		
Controller	LCD	LED Controller	Switch	Intelligent LCD Controller		Switch
Noise(dBA)	78			67		
Operation Weight(kg)	207			103		
Net Weight(kg)	135	132		73		
Ingress Protection	IP 55			IP 55		
Air Outlet Protection	Grill			Grill		
Air Inlet Protection	PP Louvers			PP Louvers		
Warranty	5 Years	1 Year		5 Years	1 Year	
Extended Warranty * (Optional)	5 Years			5 Years		
Pre Dust Filter	Optional			Optional		
Temp. Humidity Control	Optional	NA		Yes	Optional	NA
Group Control	Yes	Optional	NA	Yes	Optional	NA
Pre Cooling	Optional		NA	Optional		NA
Motor Winding	100 % Copper			100 % Copper		
Motor Housing	Aluminium Heatsink			Aluminium Heatsink		



# Warranty

The 5 years comprehensive warranty is available ONLY for purchases made directly from Xtreme Coolers Private Limited and not thru resellers/ trade installers. Warranty calculation is from date of invoice. During warranty all manufacturing defects against material and workmanship are covered. One labour free service is provided for every year of warranty. Warranty has terms and condition. Cooling pads are consumables and out of warranty coverage.



One year complete comprehensive warranty on Fan Motor, Pump, PCB and Pipes for X3 and X5 models.



Five years complete Premium comprehensive warranty on Fan Motor, Pump, PCB and Pipes for **X3 e<sup>2</sup>** and **X5 e<sup>2</sup>** models. Also includes Five annual maintenance service, every year for Five years.

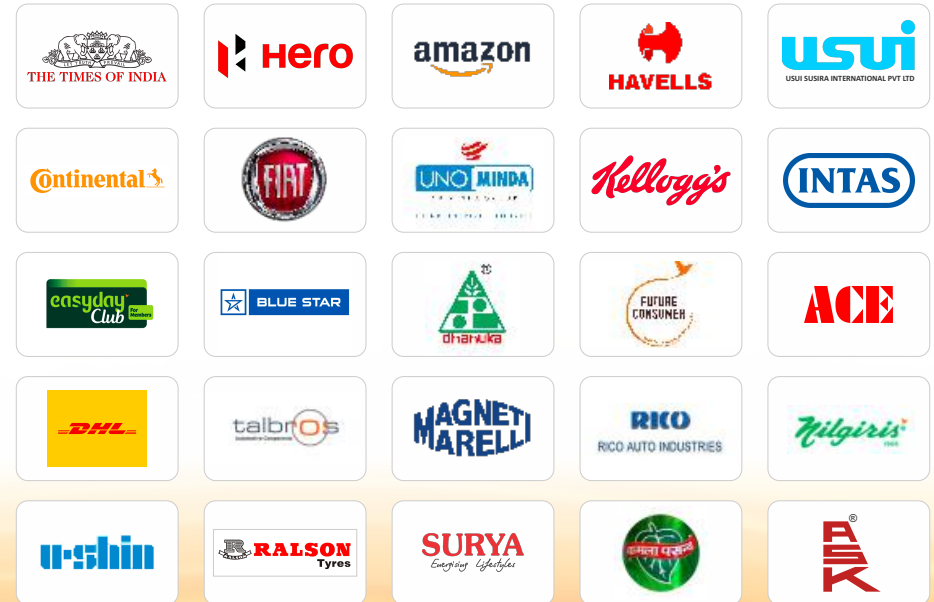


All structural components are warrantied for massive 10 years, no worries of any damage to the cabinet even in the extreme harsh summers.



A massive 20 years warranty for corrosion on housing, enjoy cool summers with fuss free operations for decades.

## PROUDLY COOLING AND VENTILATING





**Xtreme Coolers Pvt Ltd**

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