

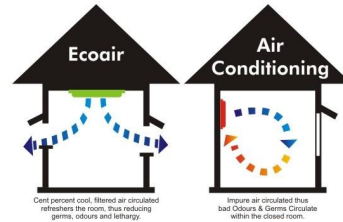
Applications - Industrial



Applications - Commercial



Applications - Residential



Complete cooling Solution

- Cooling and Ventilation
- Air circulation and ducting
- Exhaust Systems
- Maintenance



Industrial

- Aerospace Industry
- Automotive Industry
- Electronic Industry
- Food & Beverages
- Metal Working
- Pharmaceutical Industry
- Plastic Moulding
- Painting Industry
- Textiles
- Foundries
- Light Manufacturing
- Heavy Manufacturing
- Shipping

Commercial

- Malls
- Shopping Centers
- Community Centers & Halls
- Exhibition Centers
- Automobile Workshops
- Ware Housing
- Restaurants & Hotels
- Gymnasiums
- Kitchens
- Laundries
- Logistics
- Nurseries
- Offices
- Outdoor Activities

- Schools, Universities
- Shops
- Show Rooms
- Sports Centre
- Supermarkets
- Churches, Temples, Mosques
- Airports and Hangers
- Logistics Centre

Residential

- Houses, Villas
- Gaming Rooms
- Recreation Areas
- Patios Verandas

*As we are continuously improving and developing new products , our technical specifications are subject to change without notice.

Munters | Keruilai

ecoair

Environmentally friendly Evaporative Cooling System Solution



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Environmentally friendly Evaporative Cooling System Solution

Perfect Airconditioning Trading Company

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Technology Development.

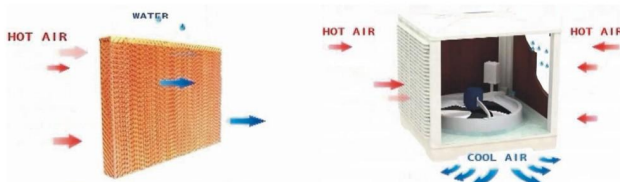
- Kerulair Evaporative Cooling Systems have been developed by researchers from Sweden & Australia using Leading Edge Technology on Evaporative Air Cooling.
- Munters Group proprietary, patented Swedish Technology on Cooling Pads (CELDEK) integrated with Australian Mechatronics experience, used to develop this Highly Efficient Ecoair range of Cooling Systems.
- Kerulair continues to focus on development of Environmentally friendly, Energy saving, Robust Cooling Systems for deployment in the harshest geographies, where comfort cooling and ventilation is required.

Ecoair Evaporative Cooling System

- Using Heat Exchange technology based on the Natural Laws of Evaporation to lower temperature of the incoming air, the system continuously brings in Fresh, Filtered, Cool Air and expelling all the Hot and Contaminated Air.
- As the system uses Evaporative air-cooling, (where free latent energy derived from the air in the form of water evaporation, is used to the and cool air reduce temperatures) without the use of any refrigerants, it is highly Energy efficient as compared to refrigerant based systems.

How does Ecoair Work?

- Fresh Air from outside the building is drawn into the cooler unit passing through the 3 Stage filtration systems.
- As this air passes through the layered cooling pads, which are kept moist by the internal water pump, natural evaporation occurs and heat is dissipated in the process.
- This cool air is then circulated through powerful Axial / Centrifugal fans directly or through ducting as per the requirements of the customers.
- The Heat Exchange ratio is almost 100 Times the total surface area which causes the lowering of the outside air Temperature from 4°C - 16°C.



Key Strengths of Ecoair Cooling System.

- FRESH, FILTERED, COOL & OXYGEN RICH AIR wherever cooling and ventilation is required.
- ENERGY SAVING – Running costs less than 1/8th of conventional refrigerant based Air Conditioners system.
- ENVIRONMENTAL FRIENDLY – No CFC or refrigerants!
- Extremely wide range of Cooling Systems & custom made installation to suit the needs of the Customers.
- Low Capital costs as compared to conventional refrigerant based Air Conditioners system.
- Robust Design and Materials for long product life.
- Micro Processor based controls that ensures fully automatic operation.
- Standardized designs and products with easily available and cost effective spares.
- A SINGLE POINT OF CONTACT FOR ALL COOLING SOLUTION NEEDS!!

Out Let Air Temperature

INLET AIR TEMPERATURE	Humidity %																		
	Celsius	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
31.0	18.3	18.9	20.0	21.1	21.7	22.8	23.3	24.4	25.0	26.1	26.7	27.2	27.8	28.3	28.9	29.4	30.0	30.6	31.1
32.0	19.4	20.6	21.1	22.2	23.3	23.9	25.0	25.6	26.7	27.2	28.3	28.9	29.4	30.0	30.6	31.1	31.7	32.3	32.9
34.0	20.6	21.1	22.8	23.3	24.4	25.6	26.7	27.2	28.3	28.9	29.4	30.0	30.6	31.1	31.7	32.3	32.9	33.5	34.1
36.0	22.2	23.3	24.4	25.6	26.7	27.8	28.9	30.0	30.6	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5
37.0	22.8	23.9	25.0	26.1	27.2	28.3	29.4	30.0	30.6	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5
39.0	23.9	25.0	26.1	27.2	28.3	29.4	30.6	31.1	31.7	32.3	32.9	33.5	34.1	34.7	35.3	35.9	36.5	37.1	37.7
41.0	25.0	26.1	27.8	28.9	30.0	31.1	32.2	33.3	33.9	35.0	35.6	36.7	37.8	38.3	38.9	39.4	40.0	40.6	41.2
42.0	26.1	27.2	28.9	30.0	31.1	32.2	33.3	34.4	35.6	36.7	37.8	38.3	38.9	39.4	40.0	40.6	41.2	41.8	42.4
44.0	27.2	28.9	30.0	31.1	32.2	33.3	34.4	35.6	36.7	37.8	38.3	38.9	39.4	40.0	40.6	41.2	41.8	42.4	43.0
45.0	28.3	30.0	31.1	32.2	33.3	34.4	35.6	36.7	37.8	38.3	38.9	39.4	40.0	40.6	41.2	41.8	42.4	43.0	43.6

Under Design Conditions : Wet Bulb – 23°C , Dry Bulb 38°C. Static load 0.



- The system draws air from the external environment and continuously brings in large air flow of filtered, cool & Oxygen rich fresh air and removes the heated and contaminated air from the work space area.
- The system ensures that all Statutory Compliances with regards to the minimum number of air changes are met and also supports in meeting OHSAS 18001 Occupational Health and Safety Zone requirement.

Key Benefits to Customers.

- Cooling upto 16°C with High Air Flow to create most comfortable surroundings
- Fresh Air being provided – no recirculation of stale, contaminated air.
- Low Cost of Operation!
- Low Installation Costs!
- Low Maintenance Costs!
- Environmentally Friendly – Green Technology.
- Perfectly suitable for Open Space Cooling! No need to seal building and spaces!
- Fit it and Forget it! Automatic water circulation, filling and draining!
- Wide range of Ecoair systems to choose from as per individual needs!

Widest Product Range

Model	Specifications
KT 85 B	<ul style="list-style-type: none"> Voltage: 3 phase, 415V, 50Hz Working current: 70.4A Power consumption: 376W Noise: < 93 dB Airflow Rate: 85000 m³/h Water consumption: 200 L/h Water Tank Capacity: 130 L Net Weight: 850Kg Dimension: 2770x2370x2200MM Effective area: 450-750 Sq Meter
KT 60 B	<ul style="list-style-type: none"> Voltage: 3-PHASE, 415V / 50Hz Power Consumption: 15000W Noise: < 90 dB Airflow Rate: 60,000 m³/h Water Consumption: 130 - 150 L/h Water Tank Capacity: 100 L Net Weight: 700 Kg Physical Size: 209 X 197 X 163 cm Dimension: 220 X 210 X 180 cm
KLF 45 A/B	<ul style="list-style-type: none"> Voltage: 3-PHASE, 415V / 50Hz Power Consumption: 11000W Noise: < 88 dB Airflow Rate: 45,000 m³/h Water Consumption: 100 - 120 L/h Water Tank Capacity: 100 L Net Weight: 585 Kg Gross Weight: 635 Kg Physical Size: 209 X 197 X 163 cm
KLF 35 B	<ul style="list-style-type: none"> Voltage: 3-PHASE, 415V / 50Hz Power Consumption: 7500W Noise: < 84 dB Airflow Rate: 35,000 m³/h Water Consumption: 70 - 80 L/h Water Tank Capacity: 70 L Net Weight: 450 Kg Gross Weight: 500 Kg Physical Size: 177 X 180 X 142 cm Dimension: 190 X 192 X 160 cm
KLF 30 A/B	<ul style="list-style-type: none"> Voltage: 3-PHASE, 415V / 50Hz Power Consumption: 7200W Noise: < 88 dB Airflow Rate: 30,000 m³/h Water Consumption: 60 - 70 L/h Water Tank Capacity: 65 L Net Weight: 170 Kg Gross Weight: 220 Kg Physical Size: 147 X 147 X 136 cm
KLF 25 B	<ul style="list-style-type: none"> Voltage: 3-PHASE, 415V / 50Hz Power Consumption: 5500W Noise: < 82 dB Airflow Rate: 25,000 m³/h Water Consumption: 50 - 60 L/h Water Tank Capacity: 65 L Net Weight: 140 Kg Gross Weight: 190 Kg Physical Size: 147 X 149 X 140 cm
KLF18 A/B/C/X/P	<ul style="list-style-type: none"> Voltage: 3-PHASE, 415V / 50Hz Power Consumption: 1100W Noise: < 75 dB Airflow Rate: 18,000 m³/h Water Consumption: 30 - 40 L/h Water Tank Capacity: 25 L Gross Weight: 75 Kg Dimension: 115 X 115 X 110 cm
Ks15 B	<ul style="list-style-type: none"> Voltage: 3-PHASE, 415V / 50Hz Power Consumption: 750W Noise: < 73 dB Airflow Rate: 15,000 m³/h Water Consumption: 15 - 25 L/h Water Tank Capacity: 45 L Net Weight: 58 Kg Gross Weight: 73 Kg Physical Size: 117 X 110 X 95 cm Dimension: 125 X 115 X 110 cm
KS 10 B	<ul style="list-style-type: none"> Voltage: 3-PHASE, 415V / 50Hz Power Consumption: 750W Noise: < 72 dB Airflow Rate: 10,000 m³/h Water Consumption: 20 L/h Water Tank Capacity: 27 L Net Weight: 50 Kg Gross Weight: 85 Kg Physical Size: 110 X 80 X 95 cm Dimension: 115 X 84 X 103 cm
KLF 06B	<ul style="list-style-type: none"> Voltage: SINGLE-PHASE, 240V / 50Hz Power Consumption: 290W Noise: < 65 dB Airflow Rate: 6,000 m³/h Water Consumption: 3 - 5 L/h Water Tank Capacity: 30 L Net Weight: 32 Kg Gross Weight: 37 Kg Physical Size: 85 X 48 X 96 cm Dimension: 92 X 55 X 105 cm
K135	<ul style="list-style-type: none"> Voltage: 220V – 240V 50/60Hz Power Consumption: 280W Noise: < 54 dB Airflow Rate: 3,500 m³/h Water Consumption: 3 L/h Water Tank Capacity: 35 L Net Weight: 25 Kg Gross Weight: 28 Kg Physical Size: 62 X 44 X 117 cm Dimension: 69 X 52 X 124 cm
K115	<ul style="list-style-type: none"> Voltage: 220V – 240V 50/60Hz Power Consumption: 170W Noise: < 50 Db Airflow Rate: 1,500 m³/h Water Consumption: 2 L/h Water Tank Capacity: 30 L Net Weight: 20 Kg Gross Weight: 23 Kg Physical Size: 54 X 41 X 111.5 cm Dimension: 61 X 46 X 117 cm

Ecoair Range includes machines Top / Bottom / Side Discharge & Single Phase and Three Phase options. above picture are indicatives in nature.