

A SILENT PASSIVE COMFORT INDOOR COOLING

FANLESS PASSIVE ENDOTHERMIC COOLING

NO FAN - NO MOVING PARTS - NO SINUS CONGESTION - - MAINTAIN UNIFORM TEMPERATURE - VIRUS INFECTION CONTROL

POWERLESS

MINIMIZING ENERGY LOSSES ON FAN MOTOR

NO POWER - NO MOTOR - 30% KWH ENERGY SAVING - REDUCE CARBON FOOT PRINT - ECO FRIENDLY

DUCTLESS

MINIMIZING ENERGY LOSSES IN DUCTS

NO DUCT - NO CEILING VIBRATION - NO HANGERS - NO MOLD - NO AIRBORNE INFECTION

MINIMIZING ENERGY LOSSES IN FILTER

NO FILTER - NO PRESSURE DROP - NO AIR RESISTANCE - NO MAINTENANCE - MINIMISE ODOUR

MINIMIZING DUST PARTICALS PM 2.5

NO WIND - NO NOISE - NO DUST FLOATING - NO ALLERGIES - NO DUST MITES

MINIMIZING MECHANICAL FAN SOUNDWAVE

NO FAN NOISE - NO VIBRATIONS - NO SOUND PRESSURE - ULTRA QUIET EXPERENCE

"The KOOLX-ECO360 fanless passive endothermic cooling terminal unit design mechanism is a mix of ecology-based lightweight, highly efficient cooling thermodynamics and fluid engineering that directly absorbs heat from the human body, walls and other indoor objects maintaining a uniform comfort space cooling to feel fresh like the temperature is dropped by 1 to 2 degrees Celsius then the set point. It is carefully customized & manufactured one by one by skilled craftsmen to suit each architectural interior design of the building, to achieve a significant energy-saving effect by horizontal cooling on activity space and maintaining a uniform space temperature throughout the room.

As this passive terminal unit is of low temperature around 6°C to 17°C, it is safe to touch and use by children to elderly persons making it suitable for any indoor space cooling. Since these indoor fanless passive units are non-powered, it has the advantage of suppressing the peak energy load demand of electrical energy on the chiller plant.

Compared to the traditional HVAC system, these fanless passive terminal units utilize only chilled water with no power, no fan, no filter, and no duct and that will reduce maintenance, duct cleaning and running costs.

The extraordinary variety of this fanless passive cooling terminal unit design brings perfection to all aspects of modern living space with individual fittings for cooling and unique surface

This innovation pioneer offers advanced energy-efficient future-oriented fanless passive cooling technologies that prevent wasted energy for thermal comfort in perfect relaxed harmony for any

FOR SMALL TO LARGE SPACE COOLING SOLUTION

FINE DINING RESTAURANTS & BARS / HOTEL GUESTROOMS / OFFICE NURSERY SCHOOLS LIBRARIES / HEALTH CENTERS / GYMNASIUM KINDERGARTEN / ARENA / RADIO STUDIO CONFERENCES & EVENTS BALLROOM / INDOOR STADIUM

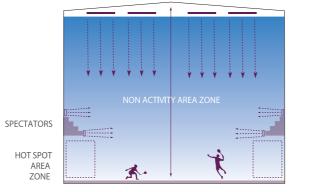
> OLX-ECO360® FANLESS PASSIVE INDOOR COOLING TERMINAL UNIT SOLUTIONS DISCOVER L HIDDEN HVAC ENERGY-SAVING OPPORTUNITIES ON YOUR PROPERTY.

> > IMPROVES INDOOR AIR QUALITY AND REMOVE ODOUR SMELL

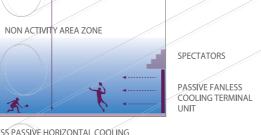
KOOLX-ECO360 FANLESS PASSIVE COOLING



DIFFERENCES BETWEEN CONVECTION COOLING AND PASSIVE KOOLX-ECO360 FANLESS COOLING



TRADITIONAL COOLING



FANLESS PASSIVE HORIZONTAL COOLING

TO MEET NET-ZERO CARBON TARGETS THAT FEELS EASY TO BREATHE

















environmental sustainability as it fundamentally changed

The issue of air pollution and energy saving in aged

Y&M - WITHOUT FILTER

TBC - WITH FILTER

Y&M - WITH FILTER

WITHOUT KOOLX-ECO360® FILTER WITH KOOLX-ECO360® FILTER

the living experience and culture in all industries, it's likely KOOLX-ECO360® passive filters for FAHU – Fresh Air Handling Units or AHU – Air to stay this way until the virus fades out after covid-19 Handling Units play a significant role in reducing the cooling load on the heat vaccine, and populations achieve herd immunity. recovery wheel and the cooling coil, eliminating the odour smell that is extracted from the rooms and common area space of the building. Building owners have no choice but to reimagine

occupant experience for the realities of this new normal his transformation of energy happens between the supply air and the exhaust air and find all options in reducing energy consumption, by breaking down clusters of moisture into individual molecules, changing the improving indoor air quality and increasing bottom-line format of air molecules that improve the thermal conductivity due to turbulence profits. of airflow when it is passed through KOOLX-ECO360® passive filters.

This process results in a greater contact area between water in the air and the fins HVAC equipment and buildings is very complex, but the of both the heat recovery wheel & the cooling coil, which improves the efficiency solutions are quite simple & cost-effective with of the heat exchange ratio, with a more homogeneous distribution of treated KOOLX-ECO360® passive HVAC green filters. fresh air to a different zone of the building by achieving the set temperature faster and maintaining more evenly. KOOLX-ECO360® passive filter delivers a huge NONTOXIC, NONFLAMMABLE, NONRADIOACTIVE reduction in energy consumption by up to 30% kWh and reduces the carbon

In addition to its energy-saving benefits, it also purifies the indoor air quality by reducing & eliminating the odours, smoke, and air-borne pathogens (Volatile Organic Compounds (VOCs), bacteria, viruses, odour, mould & fungal that are recycling and floating in air within the air-conditioned space.

	KOOLX-ECO360® Green Passive HVAC Filter disinfection system was fixed along with the prefilter of the indoor split Air conditioner at the testing lab room of 100m3 size.					
	Before fixing the KOOLX-ECO360® Filter, the air quality of the Room was monitored to know the average natural contamination level by using an air sampler at a volume of 200 litre/Minute.					
Test Condition	To check the air disinfection effectiveness, the KOOLX-EC0360® green passive HVAC filter was fixed along with the prefilter of the indoor split Air conditioner with set room temperature at 23°C, low fan speed and was switched on for 48 hours test. The air quality of the room was monitored again by using the same method. The percentage of microbial reduction was calculated by taking the reference of the microbial count before the KOOLX-EC0360® green passive HVAC filter was fixed inside the unit.					
Test Microorganisms	Sampling Location	Initial Bacterial Concentration (CFU)	Duration	Microbial Count		Antimicrobia Activity
				Control (CFU/ Plate, Before)	Test (CFU/ Plate, After)	Reduction Percentage (%)
Total Bacterial Count (Air Quality)	Testing Room	Natural Microbial Flora	After 48 Hours	201	53	73.63
Yeast & Mould (Air quality)	Testing Room	Natural Microbial Flora	After 48 Hours	218	65	70.18





Test Description | Electrical Appliances Sanitizing Effectiveness







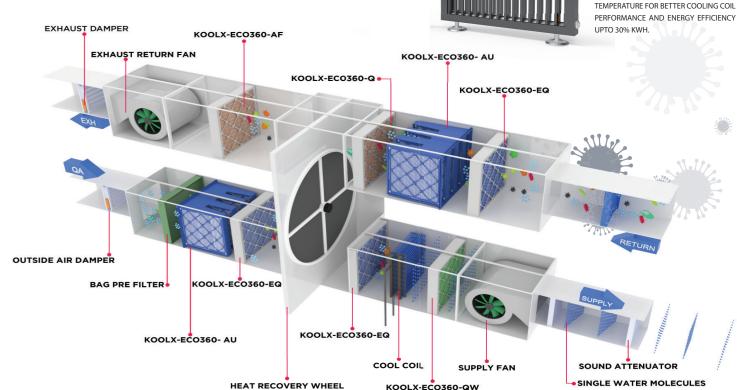




KOOLX-ECO360 - EQ

KOOLX-ECO360 - AU

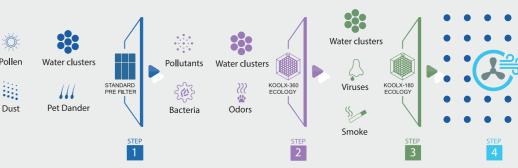
PASSIVELY UPGRADE AIR HANDLING UNITS WITH NO MODIFICATION



KOOLX-ECO360 - AHU50

PASSIVE AIR HANDLING UNIT OPTIMIZING UTILIZING RETURN CHILLED WATER

ENVIRONMENTAL WELLBEING INVOLVES BEING MINDFUL AND FOCUSED ON THE SPACE SURROUNDING YOU. IT COULD BE YOUR WORK, HOME, SCHOOL, OR ON A WIDER SCALE, THE PLANET. TAKING A PROGRESSIVE APPROACH TO ODOUR MANAGEMENT TO KEEP ROOM SPACE FREE OF TOBACCO AND OTHER ODORS.



ODOUR MANAGEMENT FOR HOTEL GUEST ROOMS OR ENTRANCE AREAS