

The Nordic Way

"The Nordic Way" is the Eco Living Ltd TwinTropic energy efficient HVACR-D solution for all climates. It helps people to work and live in a healthy and comfortable indoor climate by providing easy to use, premium 100% fresh indoor air that saves energy and money. The beneficiaries of the solution are the building owners, managers and clients in all kinds of climates and weather conditions 365 days a year, even in the future with rising temperatures due to global warming. Our Green Power technology solution has a very low carbon footprint and immensely helps to preserve our Earth.

We recycle the energy in the building by bringing it back to the AHU (Air Handling Unit) and reuse the energy to dehumidify and cool/heat the outside air before we filter and then supply the fresh air into the building. From the extracted indoor air we also remove CO₂, excess moisture and impurities (fungus, bacteria, VOC, Radon gas, smell). We do not reuse any of the extracted air, so that all of the supply air is 100% fresh (filtered) outside air. The supply air can be filtered to any level the customer requires, even up to cleanroom standards.

Compared to a conventional HVAC system, our HVACR-D solution can save up to 10-15% investment costs and reduce the HVAC energy consumption by up to 80%.

The benefits of our whole building solution start with the reduction of the total site supply electricity and transformer requirements, and continue with the reduction in cooling capacity needs, chiller, water pipe and duct sizing of the whole building. The elimination of some of the conventional HVAC parts like water towers, heat pumps, vertical shafts etc. are some more to name. Maintenance costs are reduced due to high end quality products, and the minimized use of machine moving parts, vents etc. prevents breaking and/or reduces maintenance frequencies.

We control the indoor climate also in absolute humidity and not only by temperature, which reduces the cooling requirement by 50%. The correct indoor climate reduces life cycle cost in electricity consumption, maintenance and overall up-keeping of the building, and of course contributes to a positive life/work experience of the inhabitants.

The larger AHU units of the "Nordic Way" solution can be incorporated in to the building similar to the conventional HVAC solution. Our solution is very flexible in design, and we can also plan for smaller HVACR-D units. To effectively minimise the total running cost of the premises our solution monitors the occupancy levels in different sections of the building during the whole day and automatically controls/adjusts the system. We only require the second ducting for the extract air back to the AHU in the sections they control, to be able to reuse the energy back in the AHU.

All of the product manufacturers are established companies in their fields with tens of years of experience which include hotels, shopping malls, hospitals, ice rings, high-rises, airport terminal buildings etc. Our team's experience expands over 50 years in HVAC product manufacturing, designing and planning.

Eco Living Ltd has installed and used this extremely energy efficient HVACR-D Green Power air ventilation technology system solution in Finland, Hong Kong, Macao and Shanghai since 2012 in houses, offices, shops and smaller industrial facilities with great achievements. These experiences can guarantee the results in buildings of any size and type, 365 days a year.

