CLAIMS:

1. A process for maintaining comfortable room conditions in a tropical climate, the process comprising operating a ventilator to maintain a room temperature of substantially 26-28°C and:

   i. drawing fresh cooler air from outside the room to improve indoor air quality; and

   ii. exhausting air from the room to improve indoor air quality; or

   iii. alternatingly drawing fresh cooler air from outside the room for a first predetermined duration and exhausting air from the room for a second predetermined duration to improve indoor air quality; or

   iv. cross-ventilating the room for a predetermined duration to improve indoor air quality.

2. The process according to claim 1, wherein drawing fresh cooler air from outside the room to improve indoor air quality comprises reducing buildup of harmful gases or particulate matters in the room, with the harmful gases including carbon dioxide and VOCs.

3. The process according to claim 1 or 2, further comprising interactingly operating an air conditioner (with a smart system) to reduce electric consumption of the air conditioner.

4. The process according to any one of claims 1-3, wherein drawing fresh cooler air or cross-ventilating comprises adjusting an air flow by regulating a speed of a fan disposed in the ventilator that draws in fresh cooler air.

5. The process according to any one of claims 1-4, further comprising drawing fresh cooler air through a mesh to trap or stop insects from intruding.

6. The process according to any one of claims 1-5, further comprising drawing fresh cooler air through a filter, which is customizable and selectable depending on pollution levels outside the room.

7. A method of operating a ventilator in a room located in a tropical climate, the method comprising:

drawing fresh cooler air from outside the room to maintain a room temperature of substantially 26-28°C; and

drawing fresh cooler air from outside the room and simultaneously exhausting air from the room to improve indoor air quality; or

cross-ventilating the room to improve indoor air quality with a maintained temperature of 26-28°C.

8. The method according to claim 7, wherein drawing fresh cooler air from outside the room and simultaneously exhausting air from the room to improve indoor air quality comprises reducing buildup of harmful gases or particulate matters in the room, with the harmful gases including carbon dioxide and VOCs.

9. The method according to claim 7 or 8, wherein drawing fresh cooler air or cross-ventilating comprises adjusting an air flow rate by regulating a speed of a fan operating in the ventilator.

10. The method according to claim 9, wherein operating the ventilator comprises setting a duration on a timer or setting a smart system to automatically actuates the fan’s operation.

11. The method according to any one of claims 7-10, wherein operating the ventilator comprises interactingly operating an air-conditioner in the room with a thermostat set at substantially 26-28 °C to reduce electric consumption of the air conditioner.