CLAIMS

1. A method for controlling the air climate in an insect rearing climate housing (1) with clusters of one or more stacks (2) of crates (4) with immature phases of insects, wherein the stacks (2) of crates (4) comprise at least two ventilation openings (3) associated with each crate (4), wherein use is made of

- an aeration system (11), comprising
    - an air control unit (10) with a database (7), which database (7) comprises a reference table with conditioned air properties in relation to one or more input parameters;
    - aeration devices (8) connected to the air control unit (10) adjacent to each cluster of crates (4), the aeration devices (8) comprising a plurality of exit openings (9), the exit openings (9) being arranged for providing airstreams (31) over the immature phases of insects through the ventilation openings (3) in each individual crate (4),

wherein the method comprises the steps of

a) retrieving one or more input parameters for the air control unit (10) per cluster of crates (4),

b) the air control unit (10) determining appropriate conditioned air properties of the airstreams (31) based on the retrieved one or more input parameters, and,

c) for each cluster of crates (4) separately, the air control unit (10) setting the determined conditioned air properties of the airstreams (31).

2. The method according to claim 1, wherein the one or more input parameters comprise a property of the air directly above the immature phases of insects inside one of the crates (4), preferably wherein the property of the air directly above the immature phases of insects is chosen from the group consisting of the air temperature, the humidity, the level of carbon dioxide, and the level of oxygen.

3. The method according to claim 1 or 2, wherein the one or more input parameters comprise the age and/or a time of feeding of the immature phases of insects.

4. The method according to any one of the preceding claims, wherein the air control unit (10) sets the temperature of the airstreams (31), preferably wherein the temperature of the airstreams (31) is an average temperature, and varies between a periodically reoccurring maximum and minimum.

5. The method according to any one of the preceding claims, wherein the air control unit (10) sets the volumetric rate of the airstreams (31), preferably wherein the volumetric rate of the airstreams (31) is an average volumetric rate, and varies between a periodically reoccurring maximum and minimum, more preferably wherein the periodically reoccurring maximum and minimum are achieved by varying the air pressure of the airstreams (31).

6. The method according to any one of the preceding claims, wherein the air control unit (10) sets the humidity of the airstreams (31) and/or the level of oxygen of the airstreams (31).

7. The method according to any one of the preceding claims, wherein the airstreams (31) comprise components selected from the group consisting of: medication, appetite stimulants, and/or toxins.

8. The method according to anyone of the preceding claims, wherein the airstreams (31) are laminar streams or turbulent streams.

9. The method according to any one of the preceding claims, further comprising a step d) of discharging warm air from above the immature phases of insects and capturing the heat of the warm air with a heat storage device (35).

10. The method according to claim 9, wherein the temperature of the airstreams (31) is at least partially achieved by warming ambient air using the heat stored in the heat storage device (35).

11. Combination comprising:

- an insect rearing climate housing (1) for rearing insects comprising clusters of one or more stacks (2) of crates (4) adapted to contain immature phases of insects, wherein the stacks (2) of crates (4) comprise at least two ventilation openings (3) associated with each crate (4), and
- an aeration system (11), comprising
    - an air control unit (10) with a database (7), which database (7) comprises a reference table with conditioned air properties in relation to one or more input parameters;
    - aeration devices (8) connected to the air control unit (10) adjacent to each cluster of crates (4), the aeration devices (8) comprising a plurality of exit openings (9), the exit openings (9) being arranged for providing airstreams (31) over a containment volume (6) in each crate (4) through the ventilation openings (3) associated with each individual crate (4), wherein

the air control unit (10) is adapted to

- determine the appropriate conditioned air properties of the airstreams (31) based on the one or more input parameters, and to,

- for each cluster of crates (4) separately, set the determined conditioned air properties of the airstreams (31).

12. Combination according to claim 11, wherein the air control unit further comprises on or more sensors (5), which are arranged in the direct vicinity of the containment volume (6) of one of the crates (4), e.g. comprising one or more of the following: a temperature sensor, a humidity sensor, an oxygen sensor, a carbon dioxide sensor.

13. Combination according to claim 11 or 12, wherein the plurality of exit openings (9) are nozzles or horizontal slits for providing a lamellar stream of air, the combination preferably further comprising a heat storage device (35).

14. Combination according to anyone of claims 11 - 13, wherein the database (7) further comprises a management executing system (MES).

15. Use of a combination according to anyone of claims 11 - 14, for controlling the air climate in an insect rearing climate housing (1).