

**STANDARD OPERATING PROCEDURES**  
**DIVISION OF COMPARATIVE MEDICINE**  
**UNIVERSITY OF SOUTH FLORIDA**

SOP#: 1168.3

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<b>TITLE:</b>	<b>Tecniplast Aria Ventilated Cabinet BIO-C36</b>
<b>SCOPE:</b>	Research and Animal Care Personnel
<b>RESPONSIBILITY:</b>	Professional & Administrative Staff
<b>PURPOSE:</b>	To outline the Proper Procedures for Use and Maintenance of the Tecniplast Aria Ventilated Cabinet BIO-C36.

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**I. PURPOSE**

1. This procedure outlines the use and maintenance of the Tecniplast Aria Ventilated Cabinet BIO-C36 used to provide a Controlled Environment for research animal studies.

**II. RESPONSIBILITY**

1. It is the responsibility of the Facility Manager to ensure that equipment is appropriately cleaned, maintained in good working order, and available for research personnel as requested.
2. It is the responsibility of the veterinary professional, administrative, and managerial staff to ensure that all research and technical staff using this equipment are adequately trained and experienced in the use of the Tecniplast Aria Ventilated Cabinet BIO-C36.

**III. START UP**

1. **Plug in unit and turn on power** switch located on the top right side of the unit. The Tecniplast Aria Ventilated Cabinet BIO-C36 features a touch screen which allows access to any function and setting procedures.
2. **Touch screen default display is the HOME PAGE** with current date and time, ACH, Pa, temperature, and RH%.
3. Ensure that the ACH correspond to those required by the animal housing needs, if not refer to User Manual.
4. Ensure that the pressure mode corresponds to the one required by the animal housing needs, if not refer to the User Manual.
5. **The user passcode for changing default settings is 123.**
6. Carry out temperature and lighting settings. Refer to User Manual.
7. To set current date/time refer to User Manual.
8. To change shelf configuration see User Manual.

9. Leave the machine running for at least 12 hours before use.
10. Inside temperature should be confirmed with a calibrated accessory thermometer.
11. Use of the Tecniplast Aria Ventilated Cabinet BIO-C36 and settings to be maintained (e.g., diurnal light cycle, ambient temperature and/or humidity) should be described in the approved IACUC protocol prior to its use.
12. Whenever the Tecniplast Aria Ventilated Cabinet BIO-C36 is serving as a secondary environment for animals, a chamber-specific **Room Status Sheet, CMDC 041**, should be used to log daily the chamber-specific environmental conditions (e.g., diurnal light cycle, ambient temperature and/or humidity), and such forms kept in the housing room book.
13. HOBOS are not capable of recording lighting levels < 65 lux and will indicate lights are "OFF". Manual verification of light cycles is required when light levels are <65 lux (i.e., physically observed time when lights turn "ON" and "OFF"). Manual verification of light cycles will be recorded on the chamber-specific **Room Status Sheet** at least quarterly.

#### IV. MAINTENANCE

1. Inspect condition of unit and electrical cord/plug to ensure safe operation. Equipment determined to be unsafe will be removed from service immediately.
2. **Clean** and sanitize interior of unit after each use by wiping unit with a suitable disinfectant wipe (i.e., Oxivir, Peroxigard). Exterior can be cleaned with a detergent suitable for plastic surfaces.
3. See Maintenance Schedule on page 66 of User Manual.
4. Filters are replaced as described below. To change filters see User Manual.
  - a. Prefilters – every 6 months
  - b. Charcoal Filter – every 6 months when installed
  - c. HEPA Exchange Filter – every year
  - d. HEPA Supply/Exhaust - Every 8000 hours or 5 years
5. Notify Facility Manager immediately if unit does not operate properly.
6. The BIO-C36 unit should be inspected and airflow calibration performed by a qualified technician, as needed based on performance.

#### V. REFERENCES

1. Manufacturer's User Manual

Approved:

Date: