

This guide will cover the basic setup and functions of the Super Air Veterinary ICU.

System and controller functions



1. On/Off
2. Nebulization port
3. Access window
4. Controller
5. Oxygen flow meter
6. IV pole
7. Power Output

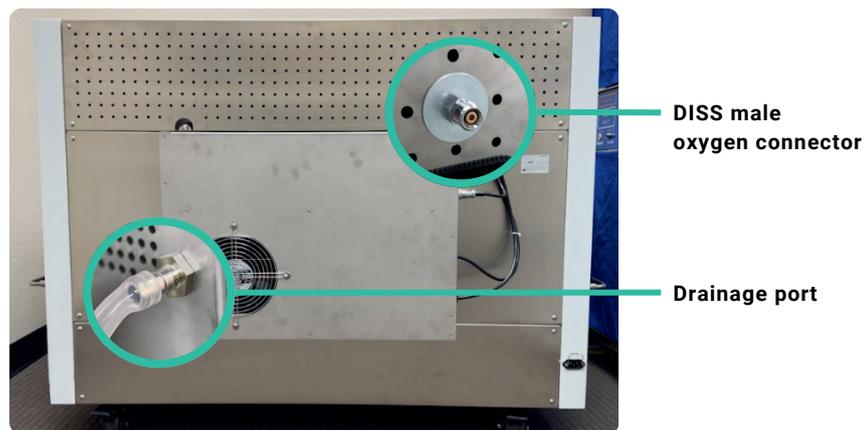


1. Temperature
2. Humidity
3. Oxygen/O₂ setting
4. CO₂
5. Lamp/Yellow light
6. Check/White light
7. Blue light

8. Nebulizer
9. Sanitization
10. Ionization
11. Internal circulation
12. External circulation
13. Setting/Calibration
14. Triage/tags

System set-up

ICU System (back)



1. **Power supply:**
 - o Connect power cord located near the right back corner of the unit.
 - o Turn on the circuit breaker located on the side of the unit.
2. **Condensation drainage:**
 - o Connect one end of the (single/T-joint) drainage tube to the drainage port located on the back of the unit.
 - o Connect the other end of the drainage tube to an appropriate drip tray or lead the tube to facility's drainage.
 - Use single drainage tubes for single ICUs.
 - Use T-joint drainage tubes for twin ICUs.
3. **Open the flowmeter** located on the front panel of the unit.



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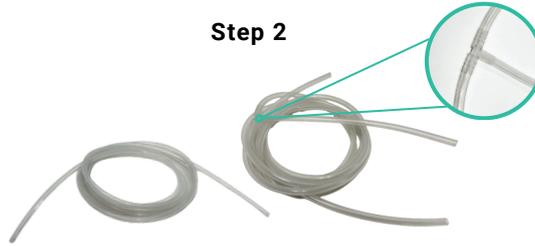
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Step 1



circuit breaker

Step 2



single or T-joint drainage tube

Step 3



ICU system flowmeter

4. Connecting the ICU to the Oxygen Source:

- Connect the medical grade green colored oxygen hose to oxygen tank or wall oxygen outlet port.
- Be sure to regulate the oxygen pressure to 50 psi or lower.
Important Note: The input pressure of the oxygen into the ICU must be 50 psi or lower. As necessary, use an appropriate pressure regulator on the oxygen source.
- Attach the DISS adapter to the Oxygen line tube and connect it to the DISS outlet port of your Oxygen sources.
- Attach the other end of the oxygen tube to the oxygen inlet port located on the back of the ICU.

Step 4



Medical grade O2 hose



O2 tank or medical gas wall port



DISS male oxygen connector



Circulation modes:

1. Activate Internal Circulation: When using O2 sources, start internal circulation to reach the desired oxygen level in the chamber.
1. Automatic External Circulation: When CO₂ hits 2000 ppm, the system switches to external circulation to lower CO₂ levels.
 - You can manually activate external circulation anytime if needed.
 - Note that oxygen levels will gradually drop while external circulation is active.



Lighting options:

- Yellow: Enhances patient environment and observation
- White: Improves visibility during examinations
- Blue: Speeds up skin and wound healing



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Starting the ICU

Initiating ICU:

1. Press the power button on the front panel and unlock control panel by sliding right on the screen.
2. Activate external circulation, then open chamber doors for approx. 1 minute and confirm ~21% oxygen concentration.
3. If not, perform oxygen sensor calibration (refer to 'oxygen sensor calibration' in Cleaning and Maintenance section page 3).
4. Open the flowmeter located on the front of the ICU and switch ICU TO "Internal Circulation" before starting oxygen supply.
5. Connect ICU system to your oxygen sources (refer to Oxygen Supply and accessories section on page 2).

5. Set parameters:

- o Temperature: Adjust temperature icon (59~99°F), and press "Confirm."
- o Oxygen concentration: Set the desired oxygen level (21~80%), and press "Confirm."
- o Confirm the ICU is set to "Internal Circulation."
- o Humidity is also monitored in the range of 55 - 75%RH'
- o CO2 level is monitored (400-2000PPM), and when it reaches 2000PPM, the system automatically initiates venting and reduces CO2 level.

Once parameters are set (Temperature, Oxygen, etc.) based on your requirements for the patient, carefully place the animal(s) into the ICU.



Routine operation

Nebulization:

1. Connect the nebulizer to the "Nebulization" port located on the front of the ICU.
2. Ensure the infused medication is filled within the max line of the nebulizer bottle for quiet operation.
3. Press the "Nebulizer" icon to activate nebulization (orange illumination lights up when activated).
4. Press "Time" icon to set/adjust the timer.

Disinfection:

1. Press the "Sanitize" icon to activate chamber disinfection (orange illumination lights up when activated).
2. Press "Time" icon to set/adjust the timer. Our technology allows animals to remain in the ICU

Ionization therapy:

1. Press the "Ion Therapy" icon to activate ionization therapy (orange illumination lights up when activated).
2. Press "Time" icon to set/adjust the timer.

Nebulizer removal



Push the port in and pull nebulizer out

Ending treatment

Transition to "External Circulation"

1. **Activate External Circulation.**
2. Close the oxygen flowmeter and turn off the Oxygen supply.
3. Open the chamber doors and remove the patient.

Oxygen adjustment

1. Wait for internal Oxygen concentration to stabilize at ~21%.

Power off

1. Remove patient from ICU.
2. Press power button to shut down the ICU.



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Cleaning and maintenance

Routine cleaning:

- o Wipe the ICU with alcohol-soaked gauze after each use.
- o Avoid high-pressure water or flames.
- o Our technology allows animals to remain in the ICU.

Oxygen sensor calibration:

- o Activate "External Circulation" for 2 minutes.
- o If the O2 concentration is not reading ~21%, select the "SET" icon to access the calibration menu.
- o Enter password 66 and press Enter.
- o Wait a few minutes for the "Value" shown on the left side of the screen to stabilize.
- o Once "Value" is confirmed stabilized in the upper "Daily Calibration" section, press "OK," then "save," and finally "Return" at the bottom of the screen to complete calibration.



Condensation management:

- o Regularly empty the A/C condensation container.
- o Check and clear drainpipes for blockages.

Troubleshooting

1. **Unit won't turn on** - Check power source and connections.
2. **Temperature or oxygen issues** - Verify settings and calibration.
3. **Nebulizer not working** - Check connections or replace the module.



Accessories

| | | | |
|---|---|--|--|
|  | Front door curtain Item #: Front_Curtain_C1, Front_Curtain_C2, Front_Curtain_C4 |  | Nebulizer & attachment accessories Item #: Nebulizer_Set |
|  | Wheels for Super Air Unit Item #: Wheel_ICU |  | Single/3-way Drainage tube for A/C Item #: Drain_Tube |
|  | Dual-hole Front Door Silicon cap Item #: Silicon_HoleCap |  | Mounting pole assembly for IV bag Item #: Mounting_Pole |

Important Warranty Information

To activate your warranty and ensure the best service experience, please complete your product registration within 10 days of the product installation.

By registering, you will:

1. Verify your warranty coverage.
2. Gain access to customer support and service updates.
3. Receive exclusive product information and tips.

Please visit the following link or scan the QR code to complete your warranty registration.

Please have your product serial number handy: <https://bionetus.com/icu-registration/>

The warranty applies exclusively to service parts and is valid for a period of 12 months from the date of product purchase. Please note that this warranty covers parts only and explicitly excludes labor costs, which are the responsibility of the customer. Additionally, warranty validation requires the completion of a warranty registration, including all necessary installation information

For support, contact us at 1-877-924-6638 or e-mail to icu-support@bionetus.com



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