
IntensoBox O2 Intensive Care Unit



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Dear customer,

Thank you for choosing our IntensoBox. Our team is working closely together with vets and specialists to provide high-quality products exclusively designed for use in veterinary medicine. With this manual we want to provide you a quick and clear introduction into the handling of the IntensoBox. Please read this manual carefully before starting to use the IntensoBox, and keep it for other users.

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1 General

1.1 Product description

The IntensoBox is an oxygen cage for use in the Veterinary medicine. The cage captures and regulates temperature, humidity, CO₂ and oxygen levels. In addition, floor temperatures and lighting conditions can be adjusted. Treatments can be settled by capturing the duration of treatment and the approximate use of oxygen.

1.2 Proper use

The IntensoBox is designed

- as an (oxygen) intensive care unit for veterinary medicine
- for the treatment of animal patients (e.g. dogs or cats)
- in veterinary practices or veterinary clinics,
- used only by veterinary professionals.

1.3 Safety notes

To ensure safe operation of the IntensoBox, it is very important to read the following manual and safety notes completely and strictly follow the instructions.

- The system may only be used for its designated purpose. Other usage and modifications will immediately cancel all warranty and liability claims.
- When used with patients, the IntensoBox must always be switched on. Otherwise, climate control and alarm systems will not work.
- Do not use any external heating systems in the IntensoBox or air conditioners, e.g. no thermal blankets/pads and no dehumidifiers or humidifier.
- Do not place “cold” objects in the cage, e.g. no metal cups or kidney dishes. This can adversely affect the temperature measurement of the floor heating system.
- The maintenance of the device at intervals according to the manufacturer’s instructions lies in the responsibility of the operator.
- Inspect the system periodically. If you see any damage or defects, contact the customer service.
- Defects are to be repaired only by the manufacturer.
- Please note possible maintenance instructions.

- Make sure that children do not have access to the IntensoBox.
- Do not use the cable to pull out the plug or to carry the device. Make sure that the cables do not come into contact with heat, oil, or sharp edges.
- Do not use dasProdukt in an explosive environment such as nearby flammable liquids, gas, or powder.
- Make sure that there is no fire or sparking in or near the IntensoBox. Smoking near the IntensoBox is strictly prohibited.
- Do not use oil or grease near the device as these substances in combination with oxygen and fire are dangerous.
- Do not leave dasProdukt unattended.
- Especially, do not leave the patient in the IntensoBox, if there is no night shift.
- This system must not be used in human medicine.
- Also read the instructions for cleaning (7.1).

1.4 How the IntensoBox works

The oxygen level is measured by an oxygen sensor. The desired oxygen concentration can be adjusted on the touch screen on the front of the box. A computer inside the IntensoBox calculates the deviation from the measured to the set oxygen level. Depending on the deviation, it controls the oxygen concentration. The amount of used oxygen is determined by the system and indicated on the touch screen. Moreover, the operating hours or treatment duration can be read.

In addition, the floor temperature in the cage can be controlled. The cage has two separately controlled floor heaters, so that two different floor temperatures can be set in the cage. The animal can decide which side of the cage is more comfortable. In addition to the oxygen control, temperature, humidity and CO₂ values in the cage are measured and influenced. While the temperature and humidity in the cage are controlled via a cooling plate at the back, the CO₂ is absorbed with soda lime. Also, the light brightness and color in the cage can be adjusted.

If the readings exceed critical values, an audible alarm will sound and a warning will appear on the touchscreen.

2 The IntensoBox

You will find a more detailed explanation for the functions in chapter 3.

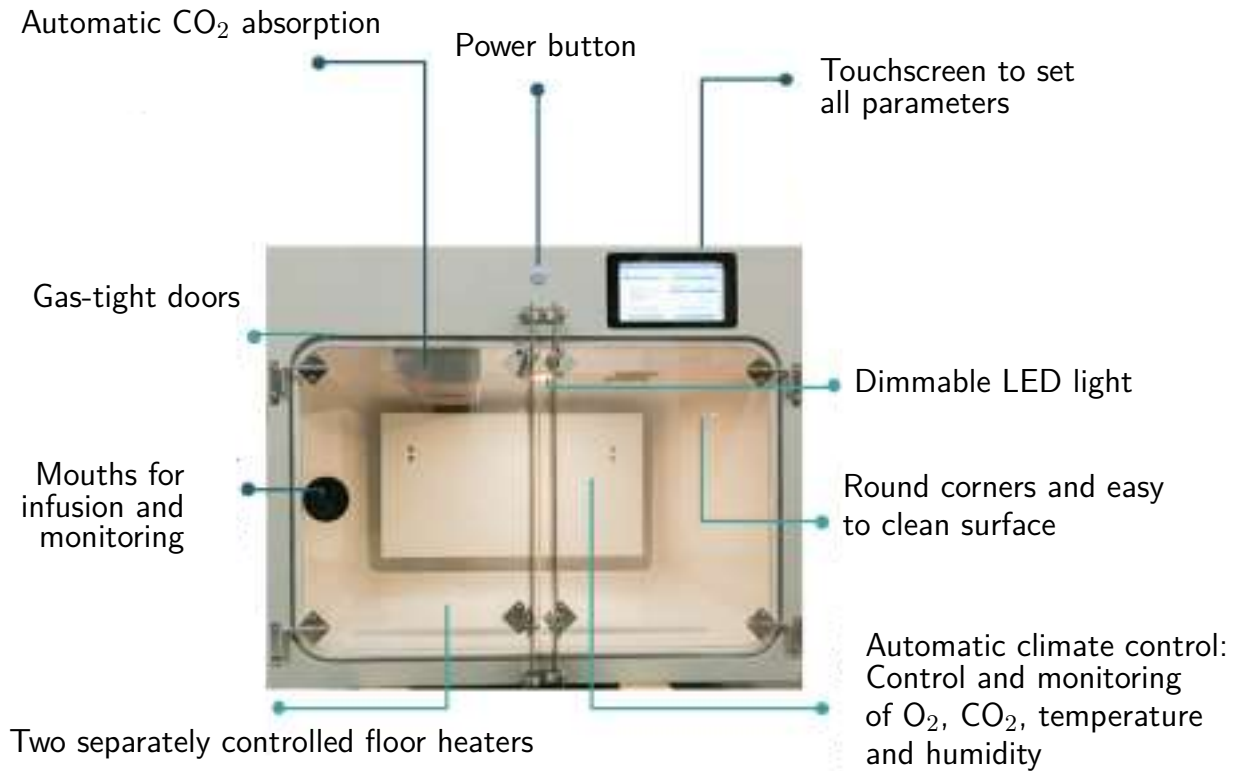


Figure 1: Front of the IntensoBox

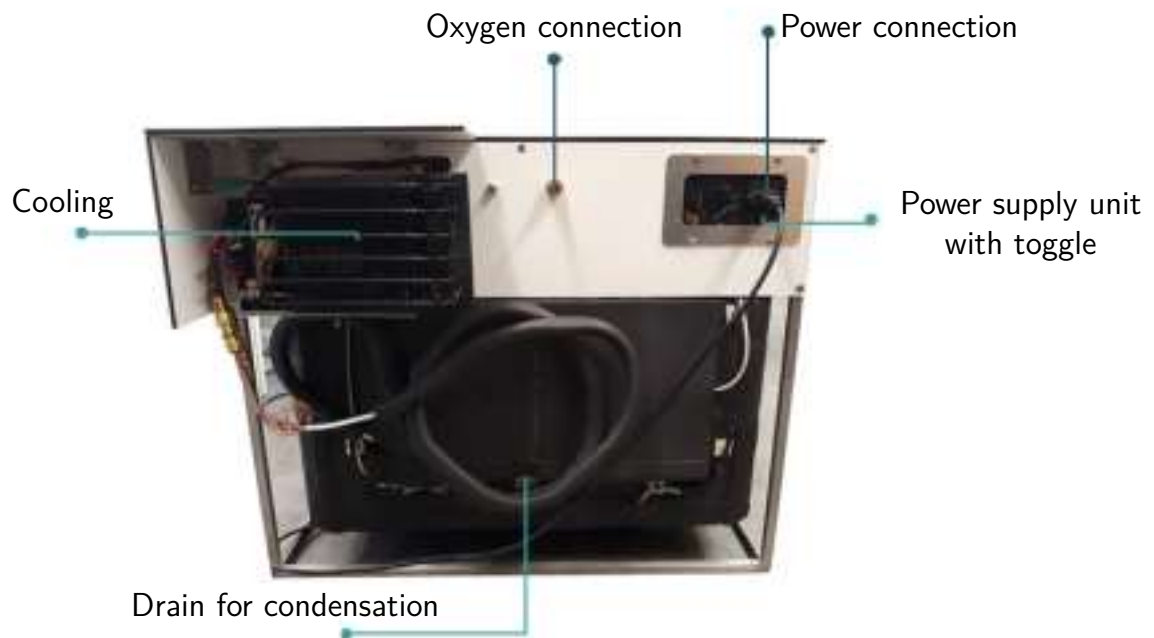


Figure 2: Backside of the IntensoBox

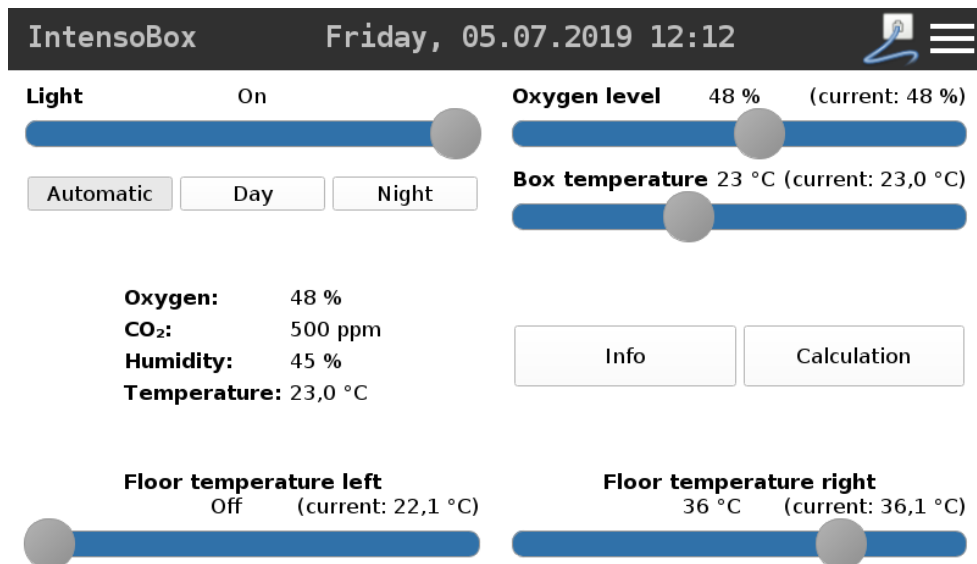


Figure 3: Touchscreen of the IntensoBox

3 Commissioning and operation

3.1 Commissioning

1. Place the IntensoBox in a safe place where it cannot fall down, tilt or case damage due to the high weight. Make sure that air can circulate around the cage, especially around the ventilation holes in the housing.
2. After you read the manual completely, connect the device using the supplied power cable. Use only IEC power cable with safety plug (IEC-60320 C13). If necessary, even longer power cord can be supplied. Place the cables so that nobody can stumble or stop on the cables.
3. Connect the oxygen line to the oxygen connection on the rear of IntensoBox (see 3.2.3). The oxygen valve of the IntensoBox is closed when switched off, so no oxygen loss is to be feared. The oxygen hose may not be bent.
4. Turn on the integrated power supply unit on the back of the IntensoBox (see chapter 2). You can then start the IntensoBox by pressing the power button on the front panel. When the blue ring lights up on the button, the IntensoBox starts operating.

3.2 Notes on use

Turn on the IntensoBox a few minutes before use, so that it can start. If necessary, you can adjust the light conditions, the floor temperatures and the oxygen percentage in the cage. We recommend that you reset the oxygen meter before each treatment (see 3.3.6) so that

each animal's oxygen consumption can be billed individually. You can set these settings on the touchscreen after starting the system.

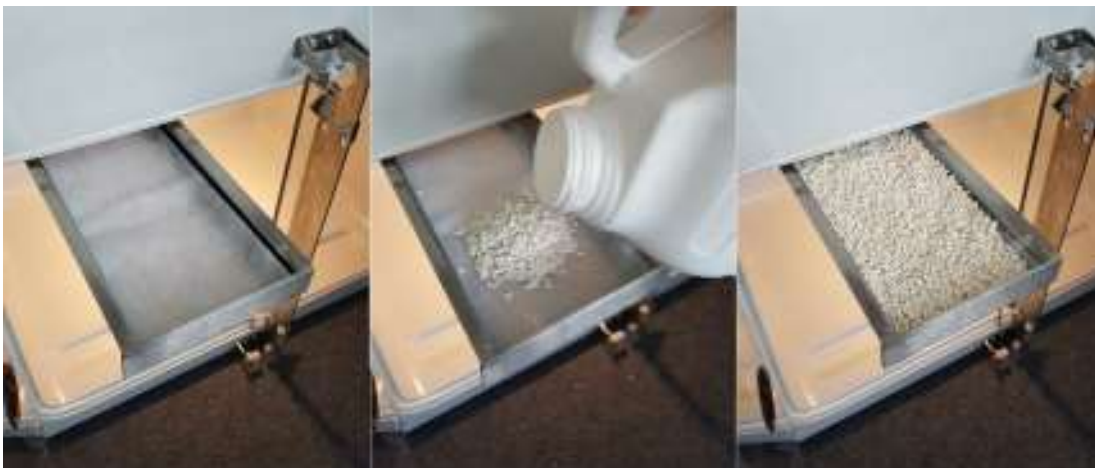
Do not place insulating materials, such as Towels or blankets, under the patient, if this is to be warmed by the floor heating. These materials can lead to reduced heat transfer. In addition, no cold items such as Metal bowls with drinking water are placed on the cage floor. This can falsify the measurement of the soil temperature. This could overheat the patient. Use plastic trays.

⚠ Patients may only be placed in the IntensoBox when it is switched on. In addition, it must be supplied with oxygen, so that the animal does not suffocate in the airtight cage.

⚠ When opening the cage doors, the oxygen level drops extremely quickly to normal ambient conditions. Therefore, the oxygen level should not be adjusted on the touchscreen until the patient is already in the cage.

3.2.1 Refill soda lime drawer

Make sure that there is fresh soda lime in the soda lime drawer so that it automatically lowers the CO₂ value in the cage as needed.



The soda lime drawer should be filled with soda lime up to a height of about 1.5 to 2 centimeters.

3.2.2 Moisture outlet

In the cage, condensation water forms on the metal plate on the back, which is collected in a drainage channel. The collected water will flow to the spout at the back of the cage and should be collected in an external container (see chapter 2, backside).

3.2.3 Oxygen connection

The oxygen connection to the IntensoBox can be supplied in two different versions: Connection via a G 3/4 inch thread or a quick coupling.



The connection should be made by qualified personnel, so that no leaks occur and no oxygen is lost unintentionally.

The cage pressure system is designed for an oxygen pressure of 4 to 6 bar.

The cage can be connected both to oxygen cylinders with pressure reducer and to a central oxygen system.

3.2.4 Minimize oxygen consumption

The IntensoBox can be very efficient regarding the oxygen consumption but under certain circumstances it will need a lot of oxygen. To save oxygen, read this section carefully.

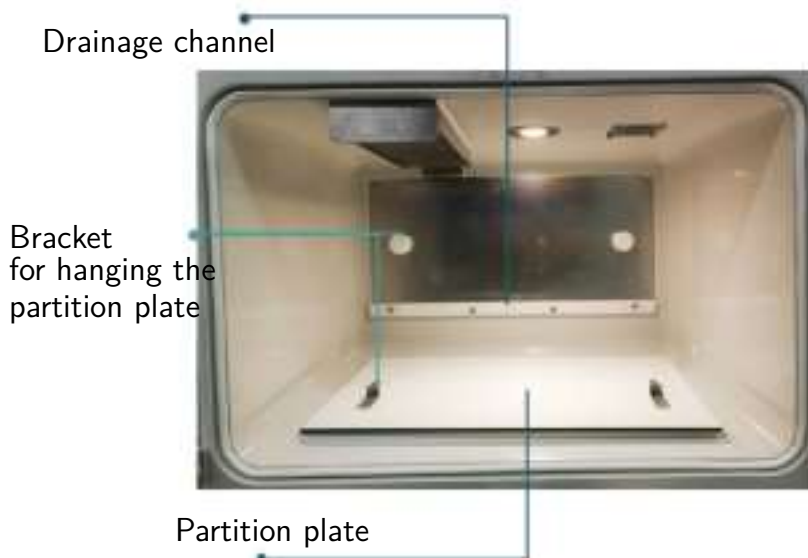
When you open the doors, the oxygen flows almost completely out of the box in only three seconds or less. If you need to check on the patient, feel free to do so. But note that it does not help to open the doors only for a very short time or to a narrow crack.

As soon as you close the doors, the box restores the preset oxygen level. If you open the box again after a minute, about 60 liters of new oxygen flows out again (depending on the box size and preset oxygen level).

In conclusion, it is better to open the box only once every few hours to check on the patient but don't open the doors multiple times. Alternatively, you can set the oxygen level to 21 % during the patient checking and restore the oxygen level later.

3.2.5 Hang in partition plate

On the back wall of the cage is a metal plate for cooling the cage. Since this plate can become very cold, the patient must not approach it. Therefore, during the treatment, the partition plate must sit in the holder.



3.3 Usage

3.3.1 Switching the IntensoBox on and off

First read the notes on commissioning (3.1). The IntensoBox must first be connected to the mains and the toggle switch on the power supply must be switched on.

You can start the IntensoBox by briefly pressing and releasing the main switch on the front panel. The main switch then lights up blue and the IntensoBox starts. It may take about a minute for the IntensoBox to finish running and display the normal user interface on the touch screen.

When the IntensoBox is running, you can turn it off by pressing the main switch again. The touchscreen turns black and the IntensoBox shuts down. After about 30 seconds the blue light goes out at the main switch, only then the IntensoBox is switched off.

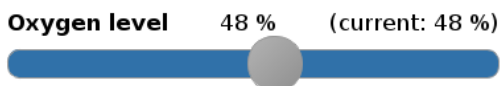
If the main power switch should not respond when it is turned off (for example, a system failure), there are still ways to turn off the IntensoBox properly. Please see 4.3.

3.3.2 Adjusting the oxygen concentration

To set the oxygen concentration, you have to drag the slider from left to right on the touchscreen. The desired oxygen level (set point), which should be set in the cage, is displayed in the middle of the slider.

The normal oxygen content of the ambient air is 21 percent.

The current oxygen content in the cage is displayed to the right of the setpoint. This is the value currently measured in the cage.



Once the set oxygen level in the cage is reached, it is held. The oxygen control can not be turned off, otherwise the patient could suffocate when the oxygen is used up.

When opening the cage doors, the oxygen level drops extremely quickly to normal ambient conditions. Therefore, the oxygen level should not be adjusted until the patient is already in the cage.

3.3.3 Setting the cage temperature

The temperature in the airtight cage may increase rapidly due to exposure to sunlight, ambient temperature and the patient's body temperature. Therefore, the cage has a built-in cooling that prevents it from getting too warm in the cage.

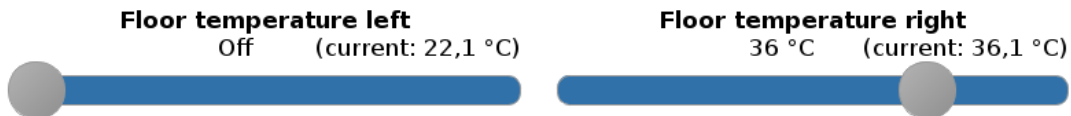
You can set this cage temperature on the touch screen by setting the slider to the desired temperature.

Note that this setting only controls cooling but no heating. To warm the patient, use the floor heating (see 3.3.4). Cooling starts when the measured temperature is 1 ° C above the set temperature and stops when the set temperature is reached.

3.3.4 Setting the floor temperature

The bottom of the cage is divided. Left and right halves can be heated independently.

To set the floor temperature you have to pull the corresponding slider from left to right on the touchscreen. The set value is located in the middle above the slider. The current temperature of each cage bottom side is shown in brackets on the right above the slider.



The heating of the cage floors can be switched off. To do this, move the slider all the way to the left, so that instead of the temperature, the word *Off* center appears above the slider.

3.3.5 Adjusting the light

The light can be dimmed in several stages. To do this, move the slider between *Off* (left) and *On* (right) to set the optimum lighting ratio.



You can also choose between white light (*Day*) and red light (*Night*). The red light is less energy and is less disturbing to patients. If you select *Automatic*, the switch automatically takes place after sunrise and sunset.

3.3.6 Oxygen consumption and operating hours

For each treatment oxygen consumption and duration of treatment can be calculated individually. Click on the button *Calculation*.

Here you get an overview of the approximately used oxygen and the duration of treatment. It is recommended to reset the counter before each treatment. Touch the button *Reset*. The total operating hours are not reset by this.

Total operating hours: 3.428,98 h

Operating hours: 0,05 h

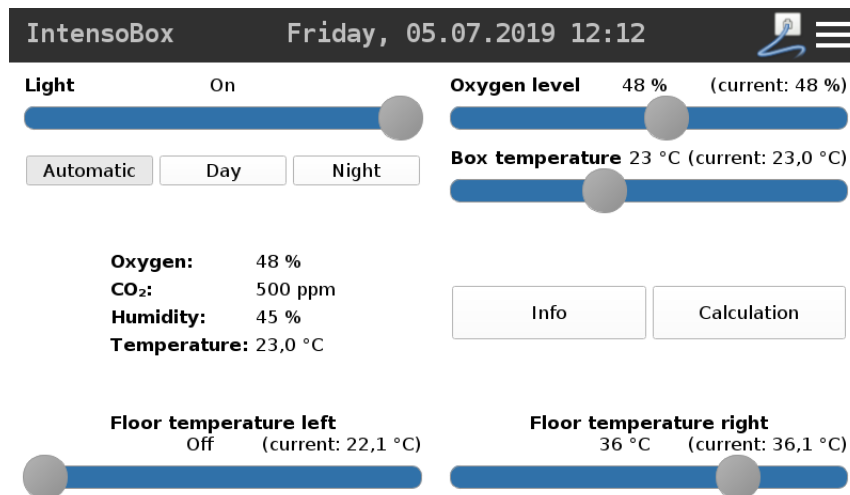
Oxygen consumption: 0,4 l

Reset

Close

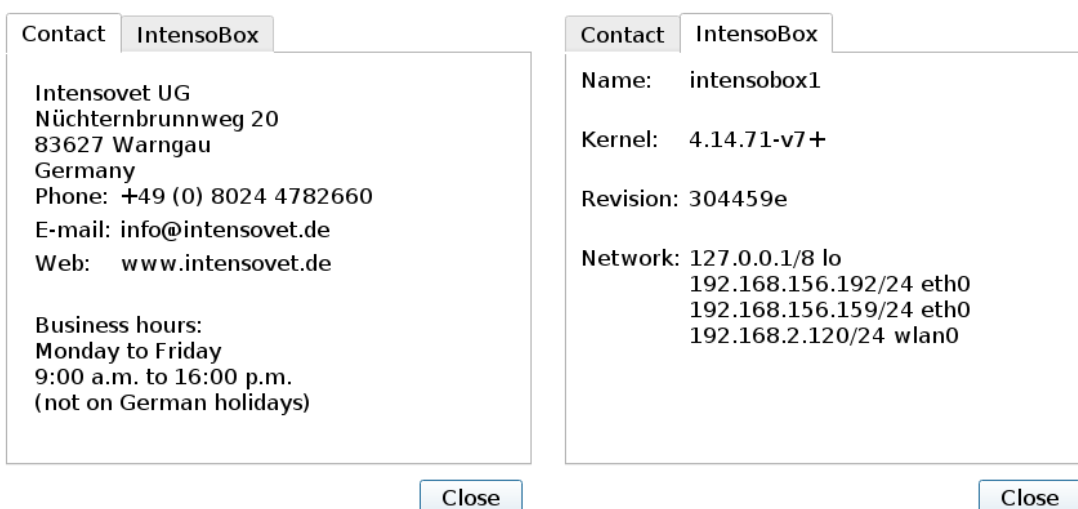
3.3.7 Display of measured values

The IntensoBox monitors various parameters in the cage during operation. These include the oxygen content, the air temperature, the CO₂ content, the humidity in the cage and the temperatures of the floor heating systems. All these values are displayed on the touch-screen:



3.3.8 Contact the manufacturer and technical information

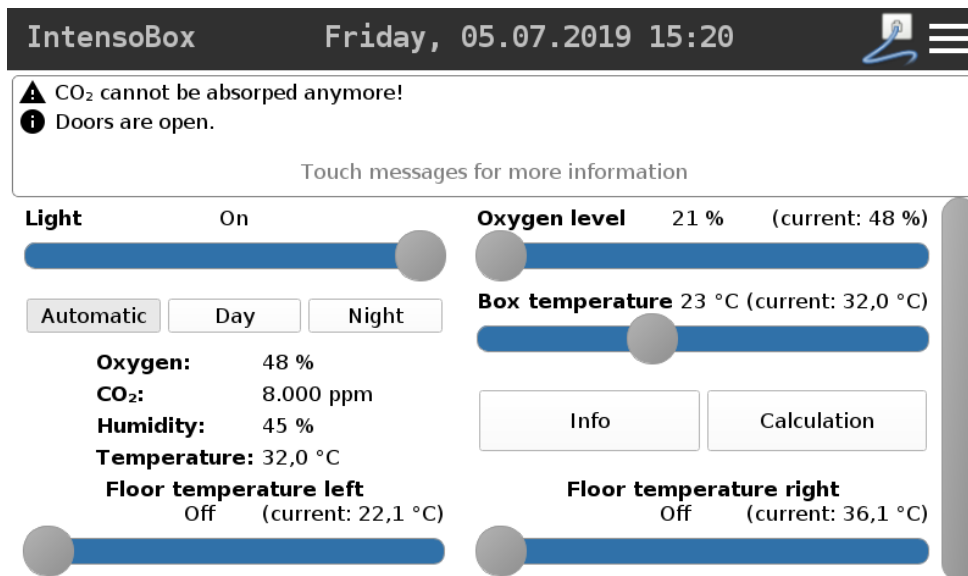
Contact the manufacturer and technical information about your IntensoBox via the button *Info*. When the button is selected, a window opens that displays the contact details of the manufacturer. On the second page of the window you will find technical information about the IntensoBox and the network settings.






4 Messages, alarms and their remedy

Messages and alarms are displayed at the top of the touch screen in the message area. This area is hidden when no messages are present. If a critical problem occurs, an audible alarm is also triggered.

The message text is displayed in short form in the message area. Tap on a message to obtain additional information.



-  Error message
-  Warning message
-  Information message

4.1 (Warning) Messages

Doors are open.

Please close the doors to start or proceed the treatment.

- Check that the system doors are closed. For the system to detect the status, the door lock must engage.
- If the message does not disappear even when the doors are firmly closed, contact customer service.

Note: Adjusting the oxygen level is only possible if the door contacts function correctly.

CO₂ cannot be absorbed anymore!

Please open the drawer in the box and replace the soda lime.

- Check whether the soda lime has been used up and replace it if necessary.
- Check that the soda lime is evenly distributed in the drawer as described in the instructions (see 3.2.1).

▲ The oxygen cylinder is empty or not connected.

Please check the oxygen connection and the pressure at the oxygen cylinder or the oxygen system.

- Check whether the IntensoBox is connected to the oxygen cylinder or the oxygen system.
- Check whether the oxygen cylinder is open or the oxygen concentrator is switched on.
- If the oxygen connection itself works and other oxygen devices can be used normally, but the problem persists, contact customer service.

▲ Desired oxygen level cannot be reached.

Desired oxygen level cannot be reached.

- Check which oxygen concentration is set. Higher concentrations can overtax oxygen concentrators.
- Particularly with large cages or when several cages simultaneously adjust the oxygen level, it is possible that a central oxygen system does not supply sufficient oxygen. In this case the flooding of the IntensoBox takes longer. However, the message should disappear after some time.
- Also check whether the IntensoBox is connected to the oxygen system or to an oxygen cylinder as described under *Oxygen cylinder empty*.

▲ High oxygen concentration set.

Rule of thumb: 60 percent oxygen over a period of 24 hours can result in indications of oxygen intoxication.

▲ Box temperature is too high!

The cooling system is not sufficient to cool down the cage to the desired temperature. Please wait or open the cage door for air circulation.

- Check that the cage is in the sun.
- If possible, switch off the floor heating.
- Ventilate the cage briefly.
- Check whether the metal plate on the back of the cage is cold. If this is not the case, please contact customer service.

! Humidity is too high!

Please open the doors of the box for ventilation.

- Reduce any liquids in the cage that may be present, such as water, urine, blood, etc.
- Check that the rear metal plate (behind the partition) in the cage is cold and water is condensing on it. If this is not the case, please contact customer service.

! The oxygen level is too low!

The oxygen level in the box is too low. Please open the doors of the box and check the oxygen connection.

The warning appears when the oxygen concentration has fallen below a value dangerous to the animal of 17 percent.

- First check whether the IntensoBox is connected to the oxygen system or to an oxygen cylinder, as described under *Oxygen cylinder empty*.
- If the oxygen connection itself works or other oxygen devices can be used normally, but the problem persists, please contact Customer Service.

▲ Built-in battery is empty.

The built-in button cell is empty. This can cause problems because the clock has been reset. Please contact the manufacturer so that the battery can be changed as soon as possible.

4.2 General errors

! Fans are not working.

This leads to erroneous readings and affects the air conditioning (O₂, CO₂, temperature). Please check if the fan is running behind the soda lime drawer and contact manufacturer.

▲ Compressor cooling defective.

The cooling of the cage does not work anymore, because there is no voltage at the compressor. Please contact the manufacturer.

! Floor heater control is defective.

The floor heater controller does not work anymore. In the worst case this can lead to burns on the patient and fire damage to the cage. Please switch off the cage, disconnect it from the mains and inform the manufacturer.

4.3 System errors or other problems

❗ System error!

The box has a technical problem. Please try a restart.

- An error occurred during operation that could not be rectified by itself. Please restart the cage.
- Contact customer service. This will allow us to analyse the problem remotely.

If the fault reoccurs, please contact the customer service department. Do not continue to use the IntensoBox. Switch off the IntensoBox as described in 4.4. Also switch off the toggle switch on the power supply unit on the rear (see 2) and disconnect the device from the mains.

If one of the cases described below applies, or in all cases not further described, do not continue to use the IntensoBox and contact customer service.

- The IntensoBox or parts of the device are damaged.
- Unusual noises can be heard during operation.

4.4 Switch off in case of error

If the IntensoBox does not react to pressing the main switch, there are three ways to switch it off. Please try in this order:

1. Open the menu on the touch screen by touching the button in the upper right corner. If there is a system error, you should find the option *Switch off* in it.
2. Use the reset function. Press the main switch for at least six seconds until the screen turns black and the blue light on the main switch goes out.
3. Disconnect the IntensoBox from the mains supply
 - by switching off the toggle switch on the power supply unit (rear of the cage)
 - or by pulling the power plug.

5 Maintenance

Each time you switch on the IntensoBox, check the measured values (see 3.3.7) for plausibility. In addition, the soda lime must be changed at regular intervals and the cage cleaned and disinfected (see 7.1).

In addition, we recommend a regular inspection of the individual components of the IntensoBox by our customer service.

6 Remote maintenance and fault diagnosis

If problems occur during maintenance (see chapter 5) or you want to have your system checked, Intensovet can access the IntensoBox remotely.

The prerequisite is that the IntensoBox is connected to the Internet. This is possible via a network cable (recommended) or WLAN.

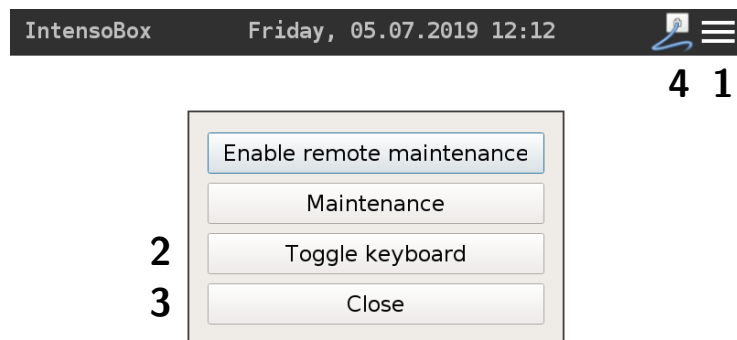
Security note: With a WLAN connection, the password (security key) is stored in the IntensoBox and can be read out on the touch screen in a submenu of the network settings.

6.1 Internet connection via LAN/network cable

Plug a network cable into the LAN network socket at the rear (see 2) and connect it to your router or house network.

6.2 Internet connection via WLAN

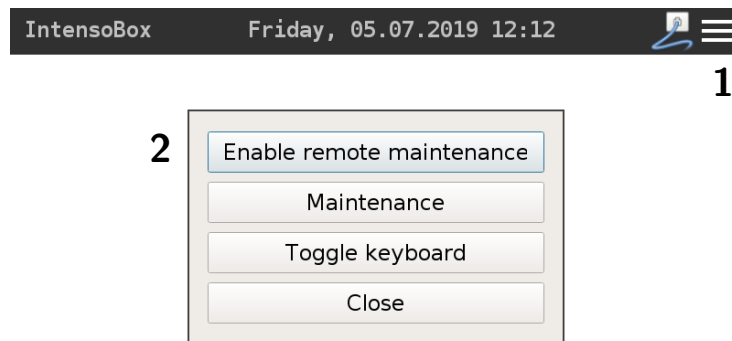
Select the menu and activate the on-screen keyboard (steps 1 to 3). You can then select your WLAN (step 4):



After you have connected to your WLAN, you can hide the keyboard again. In this case, follow steps 1, 2 and 3.

6.3 Activating and deactivating remote maintenance

Activate remote maintenance in the menu:



Deactivating the remote maintenance works in the same way with the button *Deactivate remote maintenance*.

Note: Employees of our customer service can only connect to the IntensoBox if remote maintenance has been activated. Otherwise we have no possibility to access the device.

6.4 Diagnostic data for error analysis

When connected to the Internet, the IntensoBox regularly sends diagnostic data to Intensovet for error analysis. This data includes error messages, sensor data and settings. No personal or patient-related data, or data on other network devices is collected or sent.

7 Cleaning, disinfection and storage

7.1 Cleaning and disinfection

When cleaning the outside of the cage, protect electrical components such as the touch screen, main switch, and power connector from liquids and moisture. The touch screen and the main switch can be carefully cleaned with a damp cloth. Make sure that no liquids get inside the device.

When cleaning the interior, protect sensitive components on the cage ceiling from liquids and moisture. Sensors and fans, for example, are located on the cage ceiling, partly behind ventilation grilles.

⚠ The cage must not be sprayed with a water hose or similar. Sensitive components (sensors, fans, ...) on the cage ceiling would be destroyed.

You can clean the inside of the cage well with soapy water. If you use disinfecting cleaning agents (e.g. alcohol-based), it is absolutely necessary to ventilate the cage afterwards. Open the cage doors and leave them open for 20 minutes.

⚠ Do not clean the unit with flammable or easily flammable liquids. There is a risk of explosion due to the increased oxygen concentration in the cage.

The following cleaning procedures and cleaning agents must not be used as they may cause damage to the cage and system:

Unsuitable cleaning procedures and cleaning utensils:

- Water hose
- High pressure cleaners, steam jets etc.
- Heavy scrubbing
- Hard brushes
- Sponges that scratch the surface

Unsuitable cleaning agents:

- Abrasive powders, pastes and liquids that scratch the surface.
- Cleaning agents from our own production

Unsuitable organic chemicals:

- Solvents such as acetone, dimethylformamide (DMF), furanes (e.g. 2,5-dimethylfuran (DMF)-mixtures), aldehydes, ketones (e.g. Methyl ethyl ketone (MEK), cyclohexanone), ethers, esters, white spirit/washing petroleum/terpentine substitutes, hydrocarbons, petrol, diesel, kerosene, turpentine, oil, toluene, benzene, trichloroethylene, perchloroethylene, cationic surfactants.

Unsuitable inorganic chemicals:

- Strongly acidic or alkaline products such as ammonia, nitric acid, sulphuric acid, acetic acid, hydrochloric acid, sodium hydroxide solution, caustic soda, soda ash, ...
- Strong oxidants such as bleaching agents (based on sodium hypochlorite, hydrogen peroxide, chlorine dioxide, sodium dithionite, ...)

The combined use of detergents may lead to negative results, even if each detergent is harmless in itself.

7.2 Storage

Switch off the bearing cage and disconnect it from the mains. The cage must be disconnected from the oxygen supply during storage. Only store the cage upright. The soda lime must be completely empty as it decomposes and crumbles into the cage. In addition, the soda lime could fall into the fan or sensor channel during transport, which could lead to damage.

8 Technical data

Nominal voltage range	190 V – 240 V AC
Nominal current range (operation)	0,5 A – 1,7 A
Nominal frequency range	50 Hz – 60 Hz
Protection class	I (protective conductor)
No-load power consumption	< 5 W
Operating temperature range	+10 °C to +35 °C
Storage temperature range	0 °C to +50 °C
Air humidity	30 % to 80 % (non condensing)
Power cord included	3 m
Pressure range oxygen	4 bar to 6 bar
Display resolution CO ₂	±70 ppm
Display resolution Humidity	±2 %
Display resolution O ₂	±0,1 %
Display resolution Temperature	±0,1 °C
Weight	approx. 50 kg
Dimensions in mm (L x D x H)	according to the order

9 Disposal note



Devices marked with this symbol must not be disposed of with household waste. As a manufacturer, we ensure the environmentally sound treatment and utilization of old equipment within the scope of product responsibility. For further information on collection and disposal, please contact your local authority or your specialist dealer. Already during the development of new products, we pay attention to the high recyclability of the materials. Through the return system, high recycling rates of the materials are achieved in order to relieve landfills and the environment.

Together we make an important contribution to environmental protection. *Hinweis: This device contains a battery (button cell CR 1220).*

10 Warranty

These conditions of guarantee regulate additional guarantees from us towards the end customer. They supplement the statutory warranty claims of the customer. The statutory warranty claims against the other contractual partners are not affected. These warranty conditions apply only to devices which are purchased as new devices by the end customer in the Federal Republic of Germany. A guarantee contract does not come into effect, as far as the final customer purchases a used device or a new device on its part from another end customer.

10.1 Scope of warranty

The warranty is provided if a manufacturing and/or material defect occurs within the warranty period on our equipment. However, the warranty does not cover equipment for which defects, damage or defects occur due to chemical or electrochemical effects, incorrect installation as well as improper operation or improper use. It is also excluded from the services due to deficient or omitted maintenance, weather effects or other natural phenomena. The warranty is void if repairs, modifications or alterations have been carried out by persons not authorized by us. The guarantee covers the careful examination of the device, whereby it is first determined whether a guarantee claim exists. In a warranty case, the manufacturer alone decides in which way the fault is remedied. We are free to choose if we repair the device or commission a partner to repair it. The manufacturer assumes all material and repair costs for the duration and scope of the warranty. If the customer has received warranty from another contracting partner due to statutory warranty claims, no liability is assumed by us. In addition to the above-mentioned guarantees, the end customer cannot assert any claim for indirect damage or consequential damage caused by the device, in particular damages arising out of the device. Legal claims of the customer against us or against third parties remain unaffected.

10.2 Warranty period

For appliances used in private households, the warranty period is 24 months; otherwise (e.g. when the equipment is used in clinics or practices), the warranty period is 12 months. The warranty period begins for each device with the transfer of the device to the customer who is using the device for the first time. Guarantee claims do not lead to an extension of the warranty period. This applies to all warranty services provided, in particular for any built-in spare parts or for the replacement delivery of a new device.

10.3 Claim of warranty

Warranty claims must be reported to us before expiry of the warranty period, within two weeks after the defect has been detected. Information about the fault, the device and the time of the determination must be made. The invoice or any other dated proof of purchase must be attached as proof of guarantee. If the above information or documents are missing, there is no warranty claim.

Warranty for devices purchased in Germany but not used in Germany: The manufacturer is not obliged to provide guarantees outside the Federal Republic of Germany. In the case of faults in a device used abroad, this must be sent to the customer service in Germany at the risk and expense of the customer. The return is also at the risk and expense of the customer. Any legal claims of the customer against us or against third parties also remain unaffected in this case.

Devices purchased outside Germany: This warranty does not apply to devices purchased outside Germany. The respective legal regulations and, if applicable, the delivery conditions of the local company or importer apply.



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