



YU-300, YU-500

INSTRUKCJA OBSŁUGI USER MANUAL

KONCENTRATOR TLENU
DO UŻYTKU DOMOWEGO
OXYGEN CONCENTRATOR
FOR HOME USE



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HARMONY LIFE

DEAR USER,

thank you for purchasing our product. We hope that the selected device meets your expectations. Therefore we provide below some important information.

Timago International Group is Polish company distributing medical, rehabilitation and orthopedic products to pharmacies and stores selling medical equipment. We care about your day-to-day comfort, providing high quality, functional and safe products. We have many years of experience in this area. Our products are sold by distributors to many users in Poland and Europe. We are open to your needs.

We care that you use our products in treatments and rehabilitation consciously and skillfully, thus improving your comfort and quality of life. For more information see our website: **www.timago.com**.

1. INTRODUCTION

Prior to using the product please check the device for damages from transport. When damages are observed please contact the retailer. Please read carefully this Manual, which contains information important to user.

If you have any questions concerning device operation, please contact us. Our personnel will provide you with all necessary information. We also want to point out that if you have questions other than related to product operation, please contact a physician, nurse or physiotherapist.

2. PURPOSE

Oxygen concentrator is a device designed for oxygen therapy, which consists in providing human body with concentrated oxygen – the gas that is necessary for correct functioning. Oxygen concentrator is used in successful therapy of hypoxia, a symptom that accompanies a number of medical conditions. The device produces high oxygen concentration during therapy in home conditions.

The concentrator is fitted with heat exchanger, heating up oxygen prior to inhalation, and with humidifier, which guarantees adequate humidity of the gas. The set of filters produces extremely clean breathing mixture.

Compact size, easy operation and high effectiveness in oxygen concentration (up to 96%), makes

using the concentrator and home therapy both comfortable and safe. Oxygen therapy helps destroy anaerobic bacteria strains, as well as a number of viruses and protozoa.

Indications for oxygen therapy:

- bronchial asthma,
- chronic rhinitis, laryngitis, sinusitis
- mucoviscidosis
- chronic obstructive pulmonary disease (COPD),
- respiratory failure,
- diseases of heart and cardiovascular system,
- hypoxia,
- tumors,
- spinal muscular atrophy (SMA),
- diseases of mobility organs – accelerated healing of wounds,
- sleep and concentration disorders,
- susceptibility to infections of respiratory system,
- geriatric disorders (arterial stiffening, dementia),
- migraines, colds, allergies, depressions,
- general weakening or exhaustion.

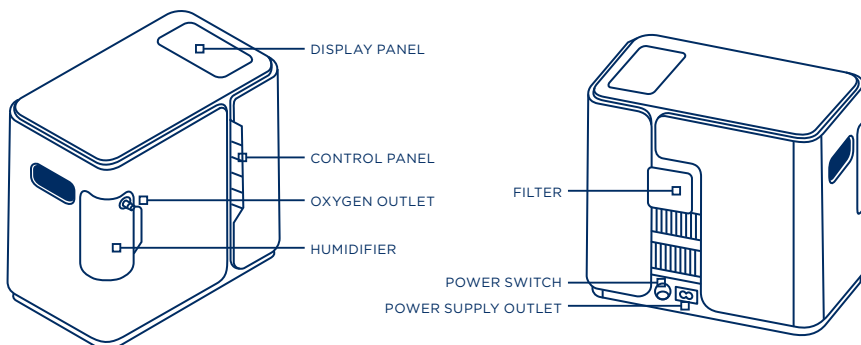
Advantages of oxygen therapy:

- increase in blood oxygen level,
- reduced incidence of respiratory system diseases,
- improvement in well-being,
- improvement in breathing efficiency,
- improvement in oxygenation of internal organs,
- improved immunity,
- improved concentration,
- alleviates such conditions as weakening, sleep disorders, inflammations, pains and dizziness.

3. DESIGN AND FUNCTIONALITIES:

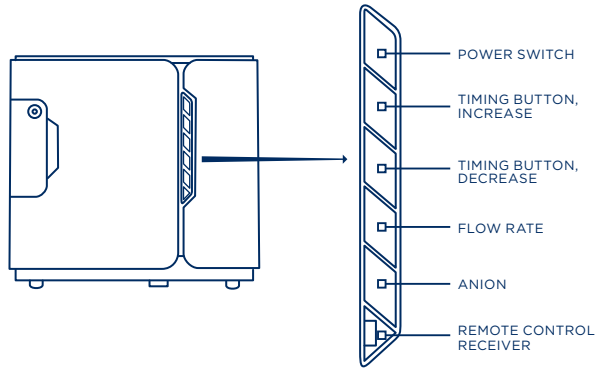
- plastic safety cover,
- IR remote control system (facilitates control of the device),
- time recording functionality: time reading on LCD display,
- with timing power off function,
- anion generation functionality (improves alveolar ventilation and accelerates absorption of oxygen),
- the compressor with thermal protector guarantee better security.

FEATURE VIEW

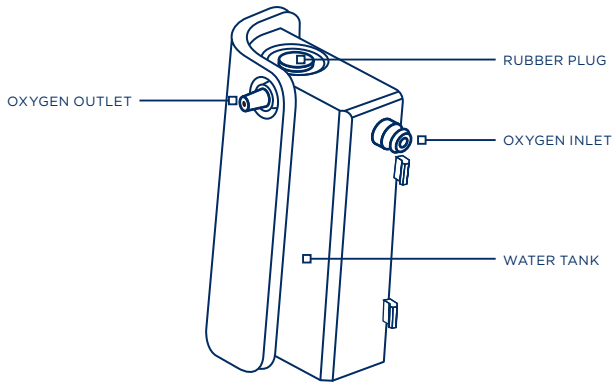


DEVICE – FRONT VIEW

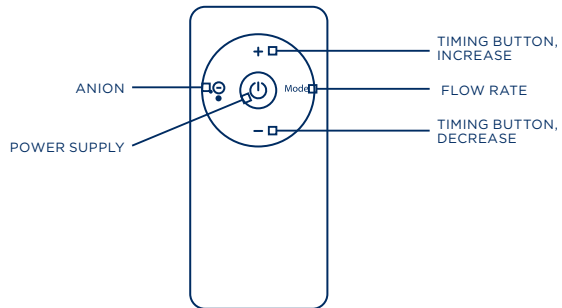
DEVICE – REAR VIEW



CONTROL PANEL



HUMIDIFIER



REMOTE CONTROL

3.1 Accessories list

1.	OXYGEN CONCENTRATOR	1 SET
2.	USER'S MANUAL	1 PIECE
3.	OXYGEN FEEDING NOSE CANNULAS	1 SET
4.	OXYGEN MASK	1 SET
5.	AIR	1 SET
6.	FUSE (T1A1A250V, Ø5 X 20)	2 PIECES
7.	MAINS CABLE	1 SET

4. BEFORE FIRST USE

- **DURING TRANSPORT THE CONCENTRATOR SHOULD BE ALWAYS KEPT IN VERTICAL POSITION IN ORDER TO PREVENT DAMAGE TO THE HOUSING.**
- **BEFORE THE FIRST USE OF THE DEVICE, PLEASE CHECK IF THE CARDBOARD OR ITS CONTENT IS NOT DAMAGED.**
- **IF POWER SUPPLY VOLTAGE EXCEEDS THE NORMAL RANGE, INSTALL A CONSTANT-VOLTAGE REGULATOR.**
- **POWER CORD AND THE OUTLET SHOULD BOTH MEET THE REQUIREMENTS AND ENSURE SAFE USE.**
- **ONLY THE TECHNICIAN CAN OPEN THE OXYGEN CONCENTRATOR'S CABINET.**
- **TO AVOID INTERRUPTION IN OPERATION OF THE CONCENTRATOR TO PATIENTS IN URGENT AND CRITICAL CONDITION, FIR THE CONCENTRATOR WITH BACK-UP OXYGEN SUPPLY (SUCH AS OXYGEN CYLINDER, RESERVOIR). THE CONCENTRATOR MAY NOT BE USED IN LIFE-SUPPORT APPLICATIONS.**
- **CONCENTRATOR SUITABLE FOR CONTINUOUS OPERATION MAX. 15 HOURS A DAY.**



4.1 Storage

Store the concentrator away from flammables and explosives. Place the device in well-ventilated spaces, protect against direct sunlight. For operation, the concentrator should be placed at least 10 cm from walls, curtains, furniture and other objects that might obstruct the flow of gases. Ensure free access to the device.

Protect the concentrator against high temperature, fire and humidity, extreme ambient conditions.

Do not place any objects on the concentrator.

DONOT place any objects in front of the device near the device that would obstruct the inlet and outlet of air, resulting in temperature increase and tripping the device or reducing oxygen concentration.



- **OXYGEN PROMOTES COMBUSTION PROCESS. USERS MUST NOT SMOKE WHILE USING THIS DEVICE. KEEP ALL MATCHES, LIGHTED CIGARETTES, CANDLES OR OTHER SOURCES OF IGNITION OUT OF THE ROOM IN WHICH THIS PRODUCT IS LOCATED.**
- **CONTACT OF OIL AND GREASE WITH PRESSURIZED OXYGEN MAY CAUSE SELF-IGNITION. KEEP THOSE SUBSTANCES AWAY FROM THE CONCENTRATOR.**
- **NEVER PLACE THE DEVICE IN HUMID SPACE OR NEAR LIQUIDS.**

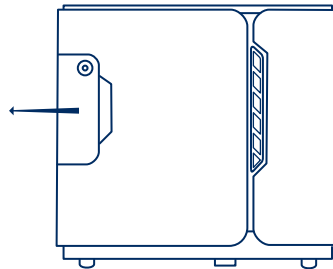
5. USING

5.1 Preparation work

Remove the humidifier, remove the rubber plug and fill the tank with clean (or distilled) water to the level indicated by manufacturer.

Connect mains cable to the power supply outlet of the device.

Set the ON/OFF switch in “|”



position; the display shows: „HELLO“, which means the device is working correctly. After 4 s the display shows numbers representing flow rate, oxygen concentration and elapsed time

and the time setting field („--“), and then the device shall switch to normal operation mode.

THE DEVICE MAY GENERATE OXYGEN ALSO WHEN THE WATER TANK IS EMPTY.



5.2 Absorption of oxygen

Pressing the „FLOW RATE“ button on device control panel sets the flow rate as per oxygen demand. Display shows flow rate and oxygen concentration readings.

Then connect cannulas to oxygen outlet and place their other ends in patient's nose.

The oxygen concentrator will automatically shut down meanwhile LCD shows “0” when time runs out.

5.4 Anion generation functionality

Anion generation functionality is activated by pressing the „ANION“ button on device control panel.

5.3 Setting time

The device is fitted with time programmer, which can be set in the range 10–120 min.

Symbol „--“ on display means continuous operation mode.

Each pressing of „+“ extends the operation time by 10 min; pressing and holding for more than 1.5 s extends operation time continuously.

Each pressing of „-“ reduces the operation time by 10 min; pressing and holding for more than 1.5 s reduces operation time continuously.

5.5 Switching off

Remove nose cannulas from oxygen outlet, turn the power switch on device control panel off and then disconnect from power supply.

5.6 IR remote control system

The device can be operated remotely, using the remote control device, with controls duplicating those of control panel buttons.

POINT THE REMOTE CONTROL TOWARDS THE REMOTE CONTROL RECEIVER.



6. SAFETY RELATED INFORMATION

Radio frequency interference

In order to prevent Radio Frequency Interference (RFI), please be careful when using the device near mobile phones.



DO NOT DISMANTLE THE DEVICE BY YOURSELF! SHOULD SERVICE PERSONNEL REQUIRE THE SCHEMATICS, PLEASE CONTACT THE RESELLER OR MANUFACTURER.

7. SERVICING AND MAINTENANCE



PRIOR TO CLEANING OR REPAIRING DISCONNECT THE DEVICE FROM POWER SUPPLY. TO AVOID ELECTRICAL SHOCK, DO NOT REMOVES CABINET.

7.1 Cleaning the cabinet

Clean the housing at least once a month, using a cloth or sponge, and mild, non-abrasive household cleaning agent.

7.2 Filters – purification or changing

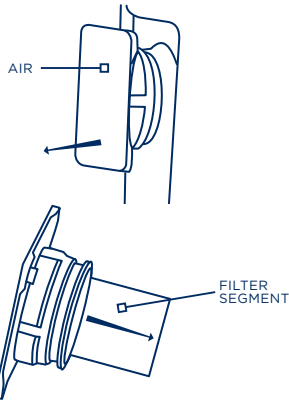
- Filter changing interval depends on working conditions and filter condition. When the filter segment turns black,



NEVER OPERATE THE CONCENTRATOR WITHOUT FILTERS. FILTERS SHOULD BE CLEANED AND CHANGED IN ADEQUATE INTERVALS; THIS IS IMPORTANT TO COMPRESSOR SAFETY AND DEVICE LIFECYCLE.

CLEAN FILTERS EVERY 2 WEEKS FILTERS ARE INSERTED IN THE SOCKET OF THE REAR PANEL.

change it immediately – regardless of how long it had been used.



- Clean the filter with vacuum cleaner or wash it in warm water with soap, and then rinse carefully.
- Dry the filters thoroughly before reinstallation.

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7.3 Cleaning of water tank

Change water in the humidifier every day.

Regular – once a week – cleaning of the water tank and the rubber plug shall ensure purity of oxygen generated.

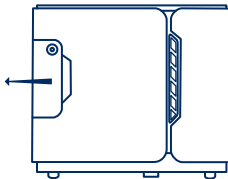
IN CASE OF FOUL ODOUR FROM THE TANK, IMMERSE THE TANK IN VINEGAR FOR HALF AN HOUR, AND THEN RINSE CAREFULLY.



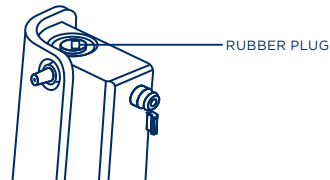
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7.4 Dismantling the humidifier

(1) Remove the humidifier



(2) Remove the rubber plug



7.5 Changing nose cannulas feeding oxygen

Clean nose cannulas every three days. Clean cannula head after each use by immersing it in vinegar for

5 mins., and then rinsing carefully with water, or washing with spirit. Keep oxygen tube dry, change every two months.

7.6 Replacing the safety fuse

The safety fuse is located in the bottom section of the device.

- (1) Switch the power on, turn counterclockwise

- (2) Open and change the safety fuse (fuse type: T1.6AL250V, ϕ 5x20).



8. TROUBLESHOOTING

FAILURE	POSSIBLE CAUSES	SOLUTION
POWER SUPPLY IS CONNECTED BUY THE DISPLAY IS DARK.	THE FUSE IS BLOWN.	REPLACE THE SAFETY FUSE.
	OUTLET POWER SUPPLY IS INSUFFICIENT.	DO NOT USE POWER LINE EXTENSION.
	WHEN THE DEVICE STILL WILL NOT WORK, CONTACT THE RESELLER OR MANUFACTURER.	
CONCENTRATOR IS WORKING BUT OXYGEN IS NOT FLOWING OR THE OXYGEN FLOW IS LOW.	NOSE CANNULA IS BENT OR CLOGGED.	CHANGE THE NOSE CANNULA.
	LEAK IN HUMIDIFIER.	REINSTALL AND TIGHTEN THE HUMIDIFIER.
	WATER TANK IS CLOGGED.	CLEAN THE WATER TANK.
	FILTER SEGMENT IS CONTAMINATED.	CLEAN OR CHANGE THE FILTER.
	WHEN ABOVE OPERATIONS DO NOT SOLVE THE ISSUE, CONTACT THE RESELLER OR MANUFACTURER.	
POWER SUPPLY IS CONNECTED BUY THE DEVICE WILL NOT WORK AND THE DISPLAY READS „FAULT“.	THE DEVICE WAS TRIPPED DUE TO HIGH TEMPERATURE.	DISCONNECT THE DEVICE AND LEAVE IT TO COOL DOWN.
	WHEN ABOVE OPERATIONS DO NOT SOLVE THE ISSUE, IMMEDIATELY CONTACT THE RESELLER OR MANUFACTURER.	

9. TECHNICAL SPECIFICATIONS

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. Power supply:
120 V AC \pm 10%, 220 V AC \pm 10%
230 V AC \pm 10%;
50 Hz, 60 Hz. 2. Input Power: 100 VA. 3. Oxygen Concentration: 30% - 90%. 4. Flow Range: 1 - 5L/min 5. Noise: \leq43dB(A) 6. Weight: 7.5 kg. 7. Dimensions: H 27 cm (10.6 in) x W 17.5 cm (6.9 in) x L. 29.5 cm (11.6 in). | <ol style="list-style-type: none"> 8. Protection system:
Electrical overload or connection lost tripping, high temperature tripping. 9. Electrical classification: class II 10. Work mode: 4 hours continuant work; 40 minutes break; 15 hours a day maximum working time. 11. Normal operating conditions:
Temperature range: 10°C - 40°C (50°F - 104°F);
Relative humidity: 30% - 75%.
Atmospheric pressure: 860hPa - 1060hPa (12.47psi - 15.37psi); |
|--|--|

WHEN THE STORAGE TEMPERATURE IS LESS THAN 5°C, BEFORE THE FIRST USE KEEP THE DEVICE FOR AT LEAST 4 H UNDER NORMAL OPERATING CONDITIONS.



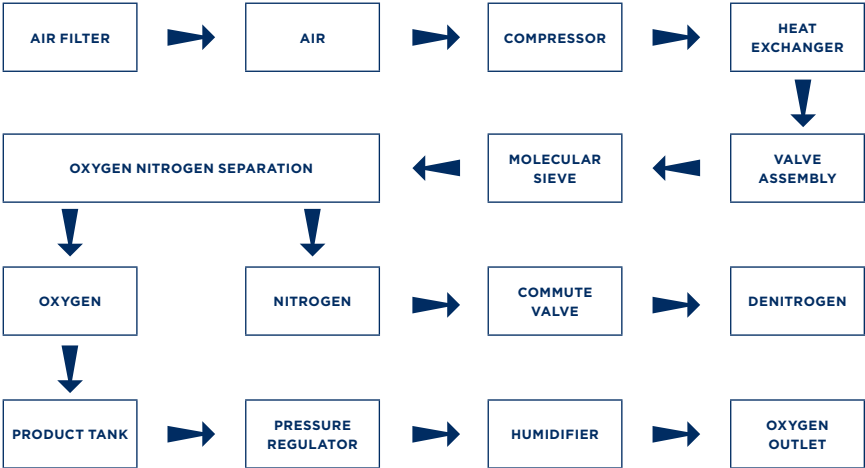
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- | | |
|---|---|
| <ol style="list-style-type: none"> 12. Transport and storage conditions:
temperature range: -20°C - +60°C
Relative humidity: 10% - 93%, no condensation, | <p>Atmospheric pressure: 700 hPa - 1060 hPa</p> |
|---|---|

ALL TECHNICAL PARAMETERS AND SET-UP OF THE PRODUCT ARE SUBJECT TO CHANGES WITHOUT NOTICE.



10. GAS PASS OPERATION SKETCH MAP



11. GUARANTEE DATA

All products distributed by us are under guarantee. Its conditions are described in the guarantee card you received at purchase. Please remember to keep the purchase receipt (bill receipt or invoice) for the guarantee purposes.

As a user-friendly company, we deliver only those products which are checked for materials used, quality and functions.

In case you have any questions on the service procedure, do not hesitate to contact us.

13. RECOMMENDED PRODUCTS

Products offered by Timago International Group include:

- Orthopaedic orthosis and braces,
- Manual and special-use wheelchairs,
- Rollators, walkers and walking aids,
- Crutches and canes,
- Rehabilitation and bathroom aids,
- Anti-decubitus equipment
- and accessories,
- Electro-medical products,
- Rehabilitation beds.

The whole offer is available at our distributors. Learn more at: timago.com

12. DESIGNATIONS - UNCHANGED

	REFERENCE NUMBER		MANUFACTURER
	LOT NUMBER		DATE OF MANUFACTURE
	SERIAL NUMBER		EU REPRESENTATIVE
	NOTE		READ THE INSTRUCTIONS
	THE MANUFACTURER ASSESSED COMPLIANCE WITH THE BASIC REQUIREMENTS FOR MEDICAL PRODUCTS.		



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