Annex G:

User's Manual for Oxygen Concentrator

MODEL: JAY-5AW/JAY-5BW/JAY-10

Important: Make sure you read and understand all of the information contained in this manual before operating your oxygen concentrator!

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1 Foreword

Thank you for purchasing our products, hoping you will be satisfied with our products.

This operation manual contains function, operation steps, basic trouble solution and so on.

To ensure your efficient use of the oxygen concentrator, please have a close read of this operation manual before operating it.

2 Symbols

The following table is a list of symbols and definitions that used with the JAY-5AW/JAY-5BW/JAY-10 Oxygen Concentrator.

Symbol	Description	Symbol	Description
	Warning – Describes a		Indicating its conformity with the
	hazard or unsafe practice	~ ~	Medical Devices Directive
WARNING	that can result in severe	(€ 0197	93/42/EEC.The 0197 is the
	bodily injury or death		number of the Notified Body.
	Caution – Describes a		
\wedge	hazard or unsafe practice	I	
	that can result in property	I	"ON" (power)
	damage		
R	Follow User's Manual	\bigcirc	"OFF" (power)
)	
	CLASS II equipment	SN	Serial number
EC REP	Authorised Representative in	X	Separate collection for electrical
	the European Community		and electronic equipment
	Type BF Applied Part,		
	F-TYPE APPLIED PART complying with the specified requirements of this standard to provide a higher degree of protection		Variability, rotational adjustment. To identify the control by means
	against electric shock than		of which a quantity is controlled.
Τ	that provided by TYPE B		The controlled quantity
	APPLIED PARTS.		increases/decreases by rotation
	The symbol of Type BF		with the figure width.
	Applied Part will be pasted		
	on the outlet of oxygen.		

M	Date of manufacture	~	Alternating current
***	Manufacturer		Type and rating of fuse
	Fragile, handle with care	J	Keep dry
<u><u><u></u></u><u></u><u></u><u></u><u></u><u></u></u>	This way up	Å[-]∎	Stacking limit by number
	No open flame; Fire, open ignition source and smoking prohibited		No smoking

3 Safety notice

can be hazardous, it is suggested that if any patient who needs oxygen treatment, please follow doctor's advice to choose the right flow and period for oxygen before using the oxygen concentrator.

or if you feel discomfort, consult your Equipment Provider and /or your physician immediately.

value:Use only voltage specified on rating label.

Keep oxygen concentrator far away from open flames and no smoking around the patient.

unit is turned on without use, the oxygen will help the flammable material get fire .

warning :Use no lubricants, grease, or petroleum-based products on or near your oxygen concentrator.

Electrical shock hazard. Do not remove covers while the unit is plugged in. Only your
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Equipment Provider or a qualified service technician should remove the covers or service the unit.

The unit.

because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

Cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the JAY-5AW/JAY-5BW/JAY-10 medical oxygen concentrator, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

caution :The oxygen concentrator should be set to use in an environment without dust, corruption or toxicological harm gas.

CAUTION : Do not place the oxygen concentrator in surroundings where its airflow is obstructed.

CAUTION : Do not place items on top of the concentrator.

CAUTION : Always place the concentrator on a hard surface. Never place the concentrator on a surface such as bed or couch, where the concentrator may tip or fall.

CAUTION :NEVER leave the concentrator unattended when plugged in.

CAUTION :Ensure the bottom smooth exhaustion during operating, or else the oxygen concentrator will be over-heated.

CAUTION :5 minutes are needed from oxygen concentrator from warming up to reach regular
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function and nominal performance.

NOTE: If oxygen does not seem to flow, first verify that the flowmeter ball is registering a flow. Then, place the tip of the cannula into a glass of water; if bubbles come out of the cannula, oxygen is flowing. If bubbles do not appear, turn off the oxygen concentrator immediately and refer to Troubleshooting.

NOTE: There is never a danger of depleting the oxygen in a room when you use your oxygen concentrator.

Radio Frequency Interference

Most electronic equipment is influenced by Radio Frequency Interference (RFI). When there is strong electromagnetic interference, maybe the LCD will be slightly affected, but the oxygen concentrator is still running. ALWAYS exercise CAUTION with regard to the use of portable communications equipment in the area around such equipment.

Requirement of environment protection

The materials used in the system won't create environment hazard. The packing materials of the system are recyclable, and they must be collected and disposed according to the related regulation in the country or region where the package of the system or its accessories is opened. The nasal oxygen tube is made of medical PVC, and if it is thrown away, it could not be bio-degradable, so it will cause the pollution. Any material of the system, that may cause pollution in the environment, must be collected disposed strictly complied with the local rules and requirements.

Contraindication

None.

4 **Product introduction**

JAY-5AW/JAY-5BW/JAY-10 medical oxygen concentrator is a device that extracts oxygen MZ04-SMS-01 ver1.1 07/21/2017 7/27

from atmospheric air. It will typically be an electrically-powered molecular sieve (artificial zeolite) used to separate nitrogen from ambient air. It could be applied widely in the hospitals at all different level, clinics, health centers and health care for the old person, mental workers and students, etc.. Whether the user is professional or not, the users could operate the oxygen concentrator by themselves after reading this user's manual. The oxygen concentrator can supply 1-2 patients simultaneously, with steady oxygen flowing out, safe and reliable, low cost, adjustable flow. The key parts of the concentrator adopt anti-tiring and anti-aging design, and the planned life of the whole concentrator reaches up to 20,000 hours or 5 years, whichever comes first.

5 Operation conditions and Environment

Ambient temperature: 10°C-40°C

Relative humidity: 30%-85%

Air pressure: 700 hPa-1060 hPa

Altitude: Up to 2286m without degradation; Consult your equipment provider for further information regarding to 2286m to 4000m

No corrosive gas and strong magnetic field around.

6 Scope of application:

For Medical Use:

Medical oxygen supplied by the concentrator is beneficial to cure the disease or heart and blood vessel system, chronic pulmonary system, the brain and blood vessel system, chronic pulmonary tuberculosis, etc.

For Health care:

Medical oxygen can be used for athletics and intellectuals and brainworkers, etc. to eliminate fatigue and also suit for the departments of health care, sanatorium, healthy, plateau military camps and hotels and other places where need oxygen.

7 Technical Parameters

Model	JAY-5AW	JAY-5BW	JAY-10					
Rated	480	540	880					
power(VA)								
Operation		AC230/50						
voltage (V/Hz)								
Oxygen flow	0.5-5	0.5-5	0.5-10					
(L/min)								
Oxygen		93%±3%						
concentration								
(%)								
Outlet		0.04—0.07						
pressure								
(Mpa)								
Alarm	Power failure; low&high pre	essure ; low purity; tempe	rature					
Noise(dB(A))	≤43	≤45	≤52					
	Pressure digital(accuracy:0.001MPa);							
	accumulating timing(range:0-99999hours); present timing(accuracy:1 minute);							
Large LCD								
display	presetting timing(accuracy							
	temperature digital(accuracy:0.1);							
Electrical		Class II, Type BF						
category:								
Net Weight	16	22	27					
(kg)								
Dimension	280(deep)*348(width)*510	300(deep)*360(width)*60	365(deep)*375(width)*					
(mm)	(height)	0(height)	00(height)					
Low purity	When oxygen purity is ≥ 8	35%, the blue lamp is on,	when oxygen purity is					

alarm (OCSI)	<85%, red lamp is on, indicating low purity			
	Accuracy:±3%			
Mains Fuse	F5AL/250V	F6.3AL/250V	F6.3AL/250V	

8 Structures and Functions







Figure 3





Figure 5

Figure 6

JAY-5AW; Figure 5 and Figure 6 show the model JAY-10; Figure 3 and Figure 4 show the model JAY-5BW.

8.1 Indicating Lamp

8.1.1 Total 8 indicating lamps and their indication for the model, such as JAY-10 which is shown as Figure 1, are as follows:

- a. P.O.: power switch (green lamp)
- b. P.F.: power failure(red lamp)
- c. H.P.: high pressure(red lamp)
- d. L.P.: low pressure(yellow lamp)
- e. H.T.: over heated temperature(red lamp)
- f. H.O₂: oxygen purity is \geq 85%, (blue lamp)(Accuracy:±3%)
- g. M.O₂: no use
- h. L.O₂.:oxygen purity is < 85%,(red lamp)(Accuracy:±3%)

8.1.2 Total 6 indicating lamps and their indication for the model, such as JAY-5AW or JAY-5BW which is shown as Figure 3 or Figure 5, are as follows:

- a. P.O.: power switch (green lamp)
- b. P.F.: power failure(red lamp)
- c. L.P.: low pressure(yellow lamp)
- d. H.P. /H.T: high pressure/ over heated temperature (red lamp)
- e. H.O₂: oxygen purity is \geq 85%, (blue lamp)(Accuracy:±3%)
- f. L.O₂.:oxygen purity is < 85%,(red lamp)(Accuracy:±3%)

8.2 Power switch

8.3 Oxygen flow meter

The location of float in the oxygen flow meter shows the outlet oxygen flow (L/min.).

8.4 Knob of oxygen flow meter switch

It adjusts and controls the outlet oxygen flow.

Do not Switch it over-forced, or else it is easy to damage the valve core. Switch it counterclockwise to turn on, clockwise to turn off.

8.5 **Outlet for Atomization** (optional)

8.6 Intake air filter

Once need to replace, refer to 11.2 on page15

8.7 Storage cabinet(as shown in Figure 2 \bigcirc)

It is used for storage oxygen cannula

8.8 LCD display(Liquid crystal display)(as shown in Figure 1 (8) or Figure 3 (7) or

Figure 5 (7)

a.. It can display some status of during operation of the oxygen concentrator, refer to 7.on
page 9

b. When starting the oxygen concentrator, the LCD screen is lighted, and it will return to screen saver mode in 15 minutes. But if you press the right key during working, the screen will be lighted again.

8.9 Timing buttons (as shown in Figure 1 (9) or Figure 3 (8) or Figure 5 (8))

The two buttons are used for timing adjustment, and each press of the left button(riangle) or

 (\pm) will increase timing by 10min, the max timing is 40 hours. And each press of the right

button(\bigtriangledown) or (\bigcirc) will decrease timing by 10min. When the right button(\bigtriangledown) or (\bigcirc) is pressed to reduce timing till "0", the oxygen concentrator will turn off automatically.

8.10 Humidifier(as shown in Figure 1 (10) or Figure 3 (9) or Figure 5 (9))

Humidifier which is used for humidifying oxygen and preventing throat and nasal mucosa stimulated by dry oxygen and dry hard sputum difficult to spit out.

8.11 Knob of Atomizer switch (optional) (as shown in Figure 1 1 or Figure 3 1 or

Figure 5 (10)

8.12 Rating label (as shown in Figure 2 $\textcircled{1}{2}$ or Figure 4 $\textcircled{1}{3}$ or Figure 6 $\textcircled{1}{3}$)

8.13 Appliance inlet (as shown in Figure 2 1) or Figure 4 12 or Figure 6 12)

8.14 Holder(as shown in Figure 2 1 or Figure 4 1 or Figure 6 3)

9 Operation instructions

The plug is the disconnection device of the oxygen concentrator, when the plug is pulled, there is no power supply. In order to pull the plug easily, be certain to place the unit where all sides are at least 30 cm away from walls, draperies, furniture, or other obstructions. Do not place the unit in a confined area.

EXAMPLE :Do not turn on or off frequently. To restart the oxygen concentrator after turning off, no less than 5 minutes are necessary (namely, exhaust internal gas of the oxygen concentrator completely, for if air compressor turns on with pressure, its life will be shortened)

9.1 If used with a humidifier, unscrew the flask from the humidifier in clockwise direction, pour in proper distilled water or cold boiled water within the scale between the max line and the min line(see 11.4), then re-connect the top cover to the humidifier bottle, as shown in Figure 7. The humidifier used with JAY-5AW/JAY-5BW/JAY-10 must comply with the general requirement of the 93/42/EEC European Directive as appropriate.



Figure 7

9.2. connect the nasal oxygen canula to the humidifier outlet nozzle or to the concentrator outlet if a humidifier has not been prescribed. Then set the nasal oxygen cannula over patient's ears, insert the nasal oxygen cannula into patient's nostrils to absorb oxygen; The nasal oxygen canula should be limited to 20 meters long, in order to ensure that the oxygen flow rate remains within specification values. The best absorbing time for health care keeps 40-50 minutes per time, absorbing time for medical treatment shall be followed doctor's advice, as shown in Figure 8.

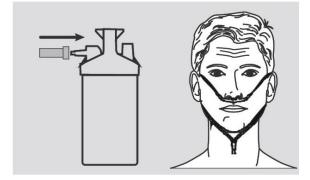


Figure 8

9.3. Insert the power plug plug into the electrical outlet of the correct voltage and frequency as defined in **7**(Technical Parameters)on page 8, and the power connector connected with the appliance inlet of the oxygen concentrator, then set the I/O power switch to the "I" position to turn the unit on, at the same time the O.P. lamp will light(**8.1a**).



Figure 9

9.4. To set the flow of supplemental oxygen, turn the knob of oxygen flow meter switch left

or right until the ball inside the flowmeter centers on the flow line number recommended

oxygen absorbing flow.(counterclockwise—on, clockwise—off).



Figure 10

Flow value:

10position flow value from $0.5 \sim 5L/min$ on flowmeter as shown in figure 10. The maximum recommended flow: 5L/min.

In compliance with the ISO 80601-2-69 standard, the flow supplied is equal to the flow set on the flowmeter, accurate to within \pm 10% or 200ml/min, whichever is the larger of the two

The variation of the maximum recommended flow does not exceed \pm 10% of the indicated value when a back pressure of 7kPa is applied to the output of the device. The maximum outlet pressure is 70kPa

Oxygen Concentration:

-at 2L/min: >90%

-at 5L/min: 93%(±3%)

selection only under the guidance of your physician.

9.5. When finished the absorbing, set the I/O power switch to the "O" position to turn off the unit, if there is discontinuous use, please unplug the power plug, as shown in Figure 11.

Unplug the power plug

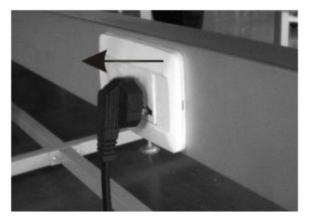


Figure 11

9.6. If the patient needs timing oxygen absorbing, please refer to 8.9 on page 10

Atomization operation methods (for optional)

The atomization function of the concentrator is applicable to help to cure the sufferers of chronic pulmonary tuberculosis and respiratory system, etc.

2:Atomization treatment must be under advice and suggestion of your physician.

illusing distilled water to do the atomization for several seconds after each operation may lighten the crystallization caused by medical solution.

small amount. Rotate the white ball which lies in the bottle with the gas resource connected and select the proper angle to gain a better atomization.

a. Open the cover of medical cup, and add atomization remedy that needed, then close the cover.

b. Connect the joint of atomization nozzle (or mask) with the cover of medical cup, and then connect the other end of atomizer connection tube with the atomization outlet and turn on atomizer.

c. Turn on the power of oxygen concentrator, and shut up flow meter, then it is ready for atomization treatment.

d. Do clean the atomization devices followed by the instructions of the atomization devices.

10 Alarms-Safety devices

10.1 Alarms

a. Power failure alarm: In case of a loss of mains power or when the power cord is not plugged into the wall outlet, an audible alarm is activated with red indicator on(8.1.1b and 8.1.2b on page 10). The troubleshooting is referred to 12 on page 17.

b. low&high pressure alarm: There is a pressure sensor on the main board to check the system pressure, when the pressure is lower than 0.1Mpa,there is an audible alarm with yellow indicator on(8.1.1d and 8.1.2c on page 10) and the oxygen concentrator is still working; When the pressure is higher than 0.23Mpa,there is an audible alarm with red MZ04-SMS-01 ver1.1 07/21/2017

indicator on(**8.1.1c and 8.1.2d** on page10) and the oxygen concentrator is stopped. The troubleshooting is referred to **12** on page 17.

c. Low oxygen concentration alarm(OCSI): The oxygen concentration will rise to the normal level in five minutes of operation. When oxygen purity is $\geq 85\%$, the blue lamp

(8.1.1f and 8.1.2e on page 10) is on, when oxygen purity is <85%, red lamp is on for audible alarm, indicating low purity(8.1.1h and 8.1.2f on page10). Refer to the troubleshooting on page 17. Or call your supplier to service the device

d. Temperature alarm: There is a temperature sensor on the main board to check the internal temperature, when the temperature is higher than 50°C in the oxygen concentrator, there is an audible alarm with red indicator on(see H.T. on the lamp) and the oxygen concentrator will be stopped. The troubleshooting is referred to **12** on page 17.

10.2 Safety devices

a. Compressor motor:

Thermal safety is ensured by a thermal switch situated in the motor winding(145±5°C).

b. Safety valve:

This is fitted on the compressor outlet and is calibrated to 2.5 bar(250kPa).

11 Maintenance

warning: Disconnect the power cord from the electrical outlet before you clean the cabinet.

These actions could permanently damage the concentrator.

NOTE: If legally binding regulations govern the installation, service and/or the operation of the product, it is the responsibility for the operator to observe and follow these regulations. NOTE: Modifying the product is not permitted.

11.1. Clean the whole body: In the condition of power off, make a clean for the outside body by soft towel with little mild household cleaner , and then wipe it up with dry towel, once or twice per month.





11.2. Clean air filter: It is a critical step for daily maintenance to clean intake air filter an interval about 300 hours.

Detail steps: remove the two intake air filters on both sides of the body, clean them with mild household cleaner and clean it with clean water completely, get ride of extra water and dry up naturally, finally set back after dry up, as shown in Figure 9.

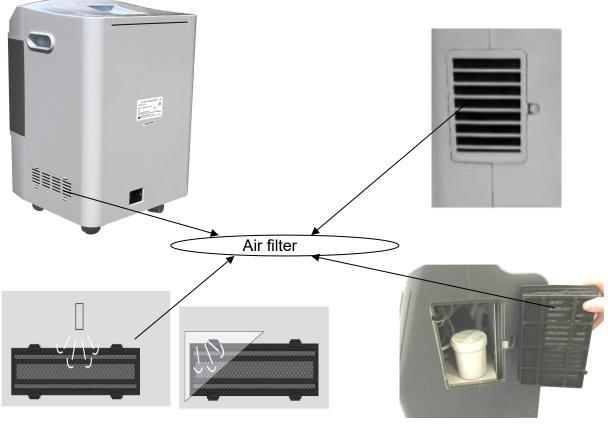


Figure 13

11.3. Clean secondary filter

Method I: Clean secondary filter an interval about 800 hours, open the top cover and take out storage case, Rotate the air filter with counterclockwise direction as Figure 14,take down the filter cloth, then clean it with detergent, and then clean it out with clean water completely, get rid of the extra water, and dry it naturally, finally set back after dry up.





Method II: First, remove the silicone tube connected with oxygen output, take down the humidification bottle, Rotate the air filter with counterclockwise direction as Figure 15,take down the filter cloth, clean with detergent, wash by clean water, wipe off the water. and make it to be dry in air naturally ,then install back to the Air filter.





Figure 15

11.4. Clean the humidifier (if the humidifier is prescribed by a physician)

Daily:

- Empty the water from the humidifier.
- Rinse the humidifier flask under running water.
- Fill humidifier up to the mask with distilled water.

Regularly:

- Disinfect the humidifier parts by immersing them in a disinfectant solution(in general, we recommend using water containing a small amount of chlorine bleach).

- Rinse and dry.

- Check that the humidifier lid seal is in good condition.

11.5. Clean Oxygen tubing and nasal cannula

Follow the manufacturer's instructions

11.6. Replacement of fuse tube

Remove the cover of fuse, which is in the appliance inlet, dismantle the fuse tube off by small screwdriver. Close the cover of fuse after fuse tube is replaced.

The other fuse tube is located at the intake of internal power line; the method of replacement is the same with that above.

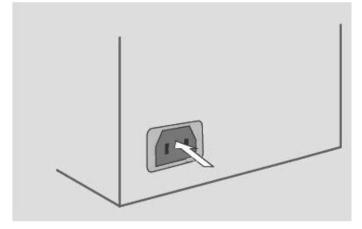


Figure 16

12 Troubleshooting

If your concentrator fails to operate properly, please refer to the troubleshooting chart on the following pages for probable causes and solutions. If problems with the equipment continue, please contact your Equipment Provider.

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NOTE: If the unit has not been used for an extended time period, it needs to operate for several minutes before power failure alarm can become activated.

No.	Trouble		Causes		Solution
1	No operation after	1.	No connection betweer	1.	Check out whether switch,
	power connected and		circuit of oxyger	n	plug, power line in good
	the P.F. lamp is light		concentrator and power		connection.
	with audible alarm.	2.	Circuit of fuse protector	2.	Replace the fuse protector
			broken.		and find the cause
		3.	There is no power supply.		
2	No oxygen out or tiny	1.	Folded inside oxygen tube	,1. (Connect the oxygen tube
	outtake flow		no smooth outtake	á	again
		2.	Filter clogged, no smooth	12. (Clean the filter
			intake	3	Take off the cover, screw well
		3.	The cover of dampen bottle	e t	the cover, block the outtake
			leaking		by thumb after turning on,
				6	and there will some sound
				f	from the humidifier after 5
				9	second around (the safety
				\ \	valve of humidifier turns on)
3	No exhaust sound	1.	Air controller cannot work	1.Ha	ave air control valve replaced
		2.	Electrical control board	2.H	ave electric control board
			cannot work	repl	aced
4	Too noisy exhaustion	1.	The joint of exhaustion	1.C	onnect the joint well
			muffler fallen off	2.H	ave the muffler replaced
		2.	Exhaustion muffler broken		
5	The oxygen	Th	e system pressure is too low.	Che	eck every gas circuit
	concentrator is			con	nectors with soapy water
	working but the L.P.			whe	ther there are air leakage.

	lamp is light with audible alarm.		
6	The oxygen	The temperature in the oxygen	1.Check the fan's connector on
	concentrator is	concentrator is too high.	the main board whether it is bad
	stopped and the H.T.		contact.
	lamp is light with		2.turn off the oxygen
	audible alarm.		concentrator and consult your
			Equipment Provider.
7	The oxygen	The system pressure is too	Turn off the oxygen concentrator
	concentrator is	high.	and consult your Equipment
	stopped and the H.P.		Provider.
	lamp is light with		
	audible alarm.		
8	The oxygen	Oxygen concentration is too	1. Check every gas circuit
	concentrator is	low.	connectors with soapy water
	working but the $L.O_2$		whether there are air leakage.
	lamp is light.		2. Turn off the oxygen
			concentrator and consult your
			Equipment Provider.

13 Information on Electromagnetic compatibility

The JAY-5AW/JAY-5BW/JAY-10 needs special precautions regarding EMC and needs to be installed and put into service according to the EMC information provided in the accompanying documents;

Portable and mobile RF communications equipment can affect the JAY-5AW/JAY-5BW/JAY-10.

All cables and maximum length of cables, Transducers and other accessories with which the manufacturer of the JAY-5AW/JAY-5BW/JAY-10 claims compliance with the requirements, Accessories that do not affect compliance with the requirements of these sub clauses need not be listed. Accessories, transducers and cables may be specified either generically or specifically.

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NOTE:

Transducers and cables sold by the manufacturer of the JAY-5AW/JAY-5BW/JAY-10 as replacement parts for internal components need not be listed.

The use of accessories, transducers and cables other than those specified, with the exception of transducers and cables sold by the manufacturer of The JAY-5AW/JAY-5BW/JAY-10 as replacement parts for internal components, may result in increased emissions or decreased immunity of The JAY-5AW/JAY-5BW/JAY-10.

Guidance and manufacturer's declaration – electromagnetic emissions					
The JAY-5AW/JAY-5B	The JAY-5AW/JAY-5BW/JAY-10 is intended for use in the electromagnetic environment specified below.				
The customer or the u	user of the JAY-	5AW/JAY-5BW/JAY-10 should assure that it is used in such an			
environment.					
Emissions test Compliance Electromagnetic environment – guidance					
RF emissions	Group 1	The JAY-5AW/JAY-5BW/JAY-10 uses RF energy only for its			
CISPR 11		internal function. Therefore, its RF emissions are very low and are			
		not likely to cause any interference in nearby electronic			
		equipment.			
RF emissions	Class A	The JAY-5AW/JAY-5BW/JAY-10 is suitable for use in all			
CISPR 11		establishments other than domestic, and may be used in domestic			
Harmonic emissions	Class A	establishments and those directly connected to the public			
IEC 61000-3-2		low-voltage power supply network that supplies buildings used for			
Voltage fluctuations/	Complies	domestic purposes, provided the following warning is heeded:			
flicker emissions		Warning: This JAY-5AW/JAY-5BW/JAY-10 is intended for use by			
IEC 61000-3-3		healthcare professionals only. This equipment/ system may cause			
		radio interference or may disrupt the operation of nearby			
		equipment. It may be necessary to take mitigation measures, such			
	1				

Gu	Guidance and manufacturer's declaration – electromagnetic immunity					
The JAY-5AW/JAY	The JAY-5AW/JAY-5BW/JAY-10 is intended for use in the electromagnetic environment specified below.					
The customer or t	he user of the JA	Y-5AW/JAY-5BW/JA	Y-10 should assure that it is used in such a			
environment.						
IMMUNITY test	IMMUNITY test IEC 60601 Compliance level Electromagnetic environment –					
	test level		guidance			
Electrostatic	\pm 8 kV contact	\pm 8 kV contact	Floors should be wood, concrete or ceramic tile			
discharge (ESD)	$\pm~$ 15 kV air	$\pm~$ 15 kV air	If floors are covered with synthetic material, the			
IEC 61000-4-2			relative humidity should be at least 30 %.			
Electrical fast	\pm 2 kV for	\pm 2 kV for power	Mains power quality should be that of a typical			
transient/burst	power	supply lines	commercial or hospital environment.			
IEC 61000-4-4	supply lines	\pm 1 kV for				
	\pm 1 kV for	input/output				

shielding the location.

as re-orienting or relocating the JAY-5AW/JAY-5BW/JAY-10 or

	·····	line e e	
	input/output	lines	
	Lines		
Surge	.,	\pm 1 kV line(s) to	Mains power quality should be that of a typical
IEC 61000-4-5	line(s)	line(s)	commercial or hospital environment.
	\pm 2 kV line(s) to		
	earth	earth	
Voltage dips, short	<5 % UT	<5 % UT	Mains power quality should be that of a typical
interruptions and	(>95 % dip in UT)	(>95 % dip in UT)	commercial or hospital environment. If the user
voltage variations	for 0,5 cycle	for 0,5 cycle	of the JAY-5AW/JAY-5BW/JAY-10 requires
on power supply	40 % UT	40 % UT	continued operation during power mains
input lines	(60 % dip in UT)	(60 % dip in UT)	interruptions, it is recommended that the
IEC 61000-4-11	for 5 cycles	for 5 cycles	JAY-5AW/JAY-5BW/JAY-10 be powered from
	70 % UT	70 % UT	an uninterruptible power supply or a battery.
	(30 % dip in UT)	(30 % dip in UT)	
	for 25 cycles	for 25 cycles	
	<5 % UT	<5 % UT	
	(>95 % dip in UT)	(>95 % dip in UT)	
	for 5 s	for 5 s	
Power frequency	3 A/m	Not applicable	Power frequency magnetic fields should be at
(50/60 Hz)		Note: The	levels characteristic of a typical location in a
magnetic field		JAY-5AW/JAY-5B	typical commercial or hospital environment.
IEC 61000-4-8		W/JAY-10 does not	
		contain	
		components	
		susceptible to	
		magnetic fields,	
		such as Hall	
		elements or	
		magnetic field	
		sensors.	
		Therefore, the EUT	
		is deemed to meet	
		the requirement	
		without actual	
		testing.	

Guidance and manufacturer's declaration – electromagnetic immunity					
The JAY-5AW/JAY	The JAY-5AW/JAY-5BW/JAY-10 is intended for use in the electromagnetic environment specified below.				
The customer or	the user of the JA	Y-5AW/JAY-5BW/JA	AY-10 should assure that it is used in such an		
electromagnetic er	nvironment.				
IMMUNITY test	MMUNITY test IEC 60601 Compliance level Electromagne				
	test level		guidance		
Conducted RF	3 V	3 V	Portable and mobile RF communications		
IEC 61000-4-6	0.15MHz - 80 MHz	0.15MHz - 80 MHz	equipment should be used no closer to any part		

	6V in ISM bands	6V in ISM bands	of the JAY-5AW/JAY-5BW/JAY-10, including
	between 0.15MHz	between 0.15MHz	cables, than the recommended separation
	and 80MHz	and 80MHz	distance calculated from the equation applicable
	80% AM at 1kHz	80% AM at 1kHz	to the frequency of the transmitter.
			Recommended separation distance
Radiated RF	3 V/m	3 V/m	
IEC 61000-4-3	80 MHz to 2.7	80 MHz to 2.7	$d = 1.17\sqrt{P}$
	GHz	GHz	_
	80% AM at 1kHz	80% AM at 1kHz	$d = 1.17\sqrt{P}$ 80 MHz to 800 MHz
			$d = 2.33\sqrt{P}$ 800 MHz to 2,7 GHz
			where P is the maximum output power rating of
			the transmitter in watts (W) according to the
			transmitter manufacturer and d is the
			recommended separation distance in metres
			(m).
			Field strengths from fixed RF transmitters, as
			determined by an electromagnetic site survey, ^a
			should be less than the compliance level in each
			frequency range. ^b
			Interference may occur in the vicinity of
			equipment marked with the following symbol:
			equipment marked with the following symbol.
			$((\bullet))$

NOTE 1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

^a Field strengths from fixed transmitters, such as base stations for radio (cellular/cordless) telephones and land mobile radios, amateur radio, AM and FM radio broadcast and TV broadcast cannot be predicted theoretically with accuracy. To assess the electromagnetic environment due to fixed RF transmitters, an electromagnetic site survey should be considered. If the measured field strength in the location in which the JAY-5AW/JAY-5BW/JAY-10 is used exceeds the applicable RF compliance level above, the JAY-5AW/JAY-5BW/JAY-10 should be observed to verify normal operation. If abnormal performance is observed, additional measures may be necessary, such as re-orienting or relocating the JAY-5AW/JAY-5BW/JAY-10.

^b Over the frequency range 150 kHz to 80 MHz, field strengths should be less than 3 V/m.

Recommended separation distances between portable and mobile RF communications equipment and the JAY-5AW/JAY-5BW/JAY-10

The JAY-5AW/JAY-5BW/JAY-10 is intended for use in an electromagnetic environment in which radiated RF disturbances are controlled. The customer or the user of the JAY-5AW/JAY-5BW/JAY-10 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF

communications equipment (transmitters) and the JAY-5AW/JAY-5BW/JAY-10 as recommended below. according to the maximum output power of the communications equipment.

5	I I		
Rated maximum	Separation distance according to frequency of transmitter m		
output power			
of transmitter	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2,7 GHz
W	$d = 1.17\sqrt{P}$	$d = 1.17\sqrt{P}$	$d = 1.17\sqrt{P}$
0.01	0.12	0.12	0.07
0.1	0.37	0.37	0.22
1	1.17	1.17	0.70
10	3.69	3.69	2.21
100	11.67	11.67	7.00

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in metres (m) can be estimated using the equation applicable to the frequency of the transmitter, where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer. NOTE 1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE 2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and

reflection from structures, objects and people.

14 Accessories

Your concentrator includes the following components:

- Intake air filter (two pieces, part number:GL-01)
- Secondary filter (one piece, part number:GL-02)

The concentrator comes with two air filters and one secondary filter already installed.

minimum safety and performance.

WARNING: Please choose the suitable humidifier and Nasal oxygen cannula, they must:

- be oxygen compatible,

- be biocompatible,

- include a means to prevent the propagation of fire and accord with requirements of ISO 80601-2-69:2014

15 Condition for transportation and storage

Environment temperature scale: -40~55°C

MZ04-SMS-01 ver1.1 07/21/2017

Comparative humidity scale: ≤95%

Air pressure scale: 700 –1060 hpa

16 Quality Warranty

Warranty for whole unit:15 months

Warranty for magnetic valve:24 months

Warranty for compressor:24 months

17 Contact us

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