

USER`S MANUAL

MIRA CETI
MONO POWER AMPLIFIER

TABLE OF CONTENTS

- 1 Technical data** — 2
- 2 Safety tips** — 3
- 3 Introduction** — 3
- 4 Installation of the device** — 3
 - Unpacking — 3
 - Content of package — 3
 - Vacuum tubes installation — 4
 - Where to place your amplifier — 4
 - Descriptions of the amplifier — 4
- 5 Interconnections** — 5
 - Speaker connections — 5
 - Source connections — 5
 - Power cord connections — 5
- 6 First power-up and getting started** — 6
 - Buring-in process — 6
 - Vacuum tubes replacement — 6
- 8 Optional equipment** — 6
 - Protective tube cage — 6
 - Premium tubes set — 7
- Trouble-shooting guide** — 7

9

1 TECHNICAL DATA

Type: stereo vacuum tube mono power amplifier

Model: Mira Ceti MONO Power amplifier, Evolution line

Max output power: 1x15W

Circuit type: PSE Paralell Single Ended

Output impedance: 4Ω/8Ω

Inputs: 1xRCA

Harmonic distortions THD: <0,1%

Frequency response 12Hz-60kHz (-3dB)

Power consumption: 115W


Main AC fuse: 3,15A T

Net weight: 19,5 kg

Dimensions (with tubes): 420x380x220mm

Tubes : 300B x2, 6SN7x2 , automatic bias

2 SAFETY TIPS

 In order to obtain the highest possible sound reproduction quality and for your own safety, please kindly refer to the following.

- Never turn on the amplifier without installed tubes and without hooked-up speakers.
 - Never place the Fezz Audio Mira Ceti MONO power amplifier near heat sources, such as radiators, heaters or direct sunlight. Ensure adequate ventilation and airflow
 - We also warn against exposure of the amplifier to conditions such as very low temperatures and/or high humidity.
 - During normal operation, the vacuum tubes radiate significant amounts of heat - there is a risk of burns.
 - The amplifier should be plugged directly into a wall socket. If you must use an extension cord, please make sure that it has load parameters sufficient to ensure proper handling of current delivery to the device.
 - When cleaning, always disconnect the Titania amplifier from the power source. Use a dry, soft cloth. Do not use water or cleaning agents.
 - If your amplifier starts to misbehave or to work incorrectly, if it's temperature gets too high or you start feeling smoke - immediately disconnect the device from the mains.

 - Due to the risk of exposure to high voltages – please do not open the lid of the amplifier.
- ATTENTION: This warning remains in force also in a situation where the device is already disconnected from the wall outlet.
- Always replace fuses in accordance with the original, intended specification.
 - Do not make repairs on your own, or adjustments beyond those as described in this manual. Execution of any unauthorized repairs or modifications of the device result in a loss of warranty.

3 INTRODUCTION

New Mira Ceti 300b mono power amplifier A-class is based on legendary direct heated triode 300b vacuum tubes. In standard equipped with anti-vibration feet, adapted to the weight of the device. Backlight logo. Easily accessible fuses protecting the amplifier in case of a power tube failure. Thanks to PSE Parallel Single Ended circuit architecture and specially designed output transformer it provides 15W and low THD distortions. Match with dedicated Sagita line pre-amplifier guarantee outstanding sound performance for a reasonable price.

4 INSTALLATION

UNPACKING

Please kindly check if the packaging of the amplifier has not been damaged during transit. If you find any damages, please immediately contact your dealer. Remove the amplifier and accessories from the packaging. Make sure that the content is not damaged.

 Do not connect the device to the power supply if it has visible signs of damage.

PACKAGE CONTENT

The package should contain:

- Fezz Mira Ceti vacuum tube power amplifier
- vacuum tube of type 300B - 2 pcs.
- vacuum tube of type 6SN7 - 2 pcs.
- power cord
- user's manual
- cotton gloves
- optional: vacuum tube protective cage

 If any of the above items are missing in your package, contact your dealer immediately.

VACUUM TUBES INSTALLATION

Place the amplifier on a stable surface. Carefully remove the vacuum tubes from their packaging and install them in the appropriate sockets, as show below, and adhering to the numbering scheme as identified on the packaging.

⚠ The pins in the base of each of the vacuum tubes are “coded”, and this has the result that the insertion of the vacuum tube into the socket is possible only in one correct and appropriate orientation. If, whilst inserting the vacuum tube you will sense resistance, and you can not push the tube into the socket, please check the orientation of its pins, rotate the tube to the correct position and try again.

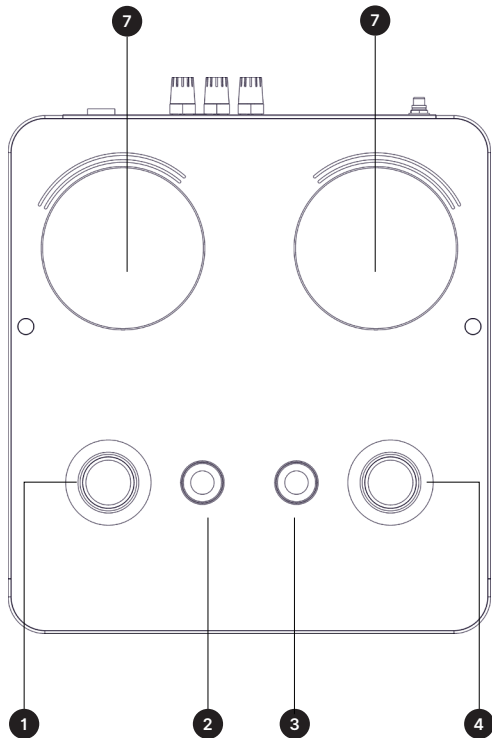
WHERE TO PLACE YOUR POWER AMPLIFIER

Due to the presence of high temperatures during normal operation of the vacuum tubes, the location that you pick to place your amplifier should ensure ample ventilation, a free flow of air. Please maintain at least 10 cm clearance between the housing of the amplifier, together with the vacuum tubes, and other devices or elements of the interior.

The sound quality may be degraded as a result of vibrations. Therefore we recommended to place the amplifier on a flat and stable surface.

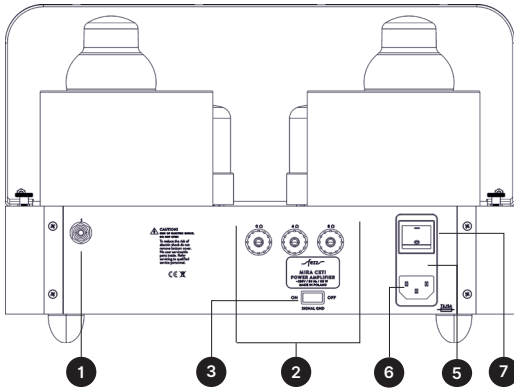
⚠ Never place the amplifier near the source of heat.

DESCRIPTION OF THE POWER AMPLIFIER



- 1 300B power tubes socket for a left channel
- 2 6SN7 driver tube socket for a left channel
- 3 6SN7 driver tube socket for a right channel
- 4 300B power tubes socket for a right channel
- 5 Output transformers housing

5 INTERCONNECTIONS



- 1 Source signal input (MONO)
- 2 Speakers outputs
- 3 Ground signal loop ON/OFF
- 4 Main fuse socket
- 5 IEC power supply cord socket
- 6 Mains switch

The figure above shows the rear panel view of the power amplifier, together with a description of the inputs and outputs allowing for connection of the other elements of your audio system.

⚠ To avoid electrostatic shock to the components of the power amplifier, please touch a grounded conductive surface before making any connections . Any and all connections must be made whilst the device is disconnected from the mains power supply. Before making any such connections, make sure that the amplifier is switched off.

Follow the instructions below to connect Your sound system correctly.

STEP 1 SPEAKERS CONNECTIONS

Check the impedance of the speaker set. Connect the speaker cable to the appropriate terminals on the rear panel of the amplifier. Depending on the impedance of the speakers, connect it to the terminal marked either 4 Ω or 8 Ω . If your speaker impedance is 6 Ω - connect the speaker wire to the terminal 8 Ω .

Mira Ceti 300B power amplifier works only in MONO mode. You will need two devices to make it work in STEREO.

⚠ NEVER TURN ON THE POWER AMPLIFIER WITHOUT CONNECTED SPEAKERS

STEP 2 AUDIO SIGNAL SOURCES CONNECTIONS

Connect the line preamplifier or variable output to the input source in the Mira Ceti 300B power amplifier (1). In order to achieve the highest sound quality, use only high-quality RCA cables.

Pay attention to the proper connection and distinction of the right (R) and the left (L) channels. For the best sound quality, we suggest using the Fezz FAC 01 interconnect cable dedicated for Fezz Audio vacuum tube amplifiers.

STEP 3 POWER CORD CONNECTION

Make sure that the amplifier is switched off. Connect the power cord to the IEC socket on the rear panel of the amplifier. The amplifier is designed to operate at a rated voltage of 230V / 50-60Hz. Connecting the device to a mains network with incorrect parameters can lead to damage that is not covered by manufacturers warranty.

⑥ FIRST POWER-UP AND GETTING

Make sure that all of your wiring is connected in accordance with the information as provided above on page 5 of this manual. Turn on the mains power of the Mira Ceti 300B mono power amplifier – the vacuum tubes shall begin to glow. Make sure that the sound source is turned on, playing, and then gradually increase the volume level in your preamplifier.

BURING-IN PROCESS

Any tube amplifier requires an initial pre-heating (or „burn-in“) period, in order so that it achieves its full sonic potential. This is due to the presence of residua polarization of dielectric elements and due to a necessary stabilization of working parameters of the vacuum tubes. The stabilization of the electrical parameters of the system occurs in a natural process whilst playing music through your audio system.

A preliminary degree of pre-heating of the amplifier is reached after about 10 hours of quiet music playback. Full sonic capabilities shall stabilize and unfold within a time-span ranging from 40 to 60 hours of music reproduction at a moderate volume levels.

VACUUM TUBES REPLACEMENT

Your amplifier is equipped with automatic bias module. It's necessary to use vacuum tubes that have previously been pre-selected and paired up in quads or pairs.

- 1) Disconnect the amplifier from the mains socket, the power supply.
- 2) Remove the currently installed tubes from their respective sockets. Plug in the new replacement vacuum tubes in these sockets.

⑧ OPTIONAL EQUIPMENT

VACUUM TUBES PROTECTIVE CAGE

PREMIUM VACUUM TUBES SET

9 TROUBLE-SHOOTING GUIDE

If your amplifier does not work as it is supposed to, it is fairly easy to diagnose and remedy some of the common malfunctions, by following procedures as outlined in this following.

THE PROBLEM	PROBABLE REASON	SOLUTION
After turning the power switch to the ON position, the amplifier does not switch on.	A blown fuse	Please exchange to faulty fuse to a new one (3,15A T), within the fuse holder as depicted with index 4 on page 8 of this user's manual.
	An improper connection of the mains cable	Please check if the plugs of the mains cable are properly inserted into the electrical mains socket and to the socket as depicted with index 5 on page 8 of this user's manual.
The sound produced by the amplifier is distorted. A hum or pops have appeared and are coming from one of the channels.	An improper placement of the vacuum tubes in the sockets	Switch off the amplifier. Wait until the vacuum tubes cool down. Check for proper placement of vacuum tubes in their sockets. If necessary – correct their orientation.
	One of the driver tubes (6SN7) has lost its nominal working parameters	Switch off the amplifier. Wait until the vacuum tubes cool down. Exchange the positions of the driver tubes between channels. Turn on the amplifier. If the disturbing sounds have moved to the other channel, inform Your local Fezz Audio dealer about tube which need to be replaced.
	One of the Power tubes (300B) has lost its nominal working parameters	Switch off the amplifier. Wait until the vacuum tubes cool down. Exchange the positions of the power tubes between channels. Turn on the amplifier. If the disturbing sounds have moved to the other channel, inform Your local Fezz Audio dealer about tube which need to be replaced.
	After connection to the phono preamp hum from both speakers appeared	Switch GND signal to ON or OFF position adapted with index 4 at page no. 5.

If you have verified the aforementioned situations, and your problem still persists, please contact your local Fezz Audio dealer.-

