

AUDIO ANALOGUE



DONIZETTI *Anniversary* ZERO FEEDBACK POWER AMPLIFIER

MANUALE D'ISTRUZIONI – ITALIANO(p.1/p.9)
OWNER'S MANUAL – ENGLISH(p.11/p.19)
MANUEL D'UTILISATION – FRANÇAIS(p.20/p.27)
BEDIENUNGSANLEITUNG – DEUTSCH(S.28/S.36)

Manual rev 1.4_ml

ENGLISH

Dear Audiophile,

Congratulations and thank you for choosing the Donizetti Anniversary power amplifier.

Audio Analogue is proud to introduce you the new born. It has been designed by the Airtech R&D and uses proprietary Airtech technologies.

Features

- Two 1200W toroidal transformers specially designed for the Donizetti Anniversary.
- No global feedback
- Fully Balanced
- Military grade oversized “through hole” resistors to minimize thermal induced distortion.
- Audio Grade capacitors.
- 1 Stereo RCA Inputs.
- 1 Stereo Balanced Inputs
- Microcontroller based equipment management.
- Possibility to use it in bridge-mono configuration(with the dedicated kit to connect it)

INTRODUCTION

AF GROUP SRL, owner and manufacturer of AUDIO ANALOGUE brand does not take any responsibility in the following cases:

Whenever the operational procedures related to the use and the maintenance of the equipment as described in this manual are not respected.

Whenever damage to the equipment occurs because of repairs and modifications made from non-authorized staff or because of normal deterioration of the system.

No part of this manual can be reproduced by any means, transmitted or copied for private or public use without private authorization from AF Group S.R.L.

The information contained in this manual is related to the data kept by AF Group S.R.L at the time of publication; AF Group S.R.L has the right to make changes to this document without prior notice.

The equipment has been projected and manufactured according to the Regulations of the Community 89/336/CEE and is marked CE.

This equipment cannot be used for different purposes other than those for which it has been manufactured.

AF Group S.R.L does not take any responsibility for accidents or damage due to improper use of the equipment.

WARNING

Please respect the safety standards contained in this manual before starting to operate the equipment.

Do not open the equipment. No further interventions than those described in this manual should be made. For technical assistance, please consult a qualified technician or an AUDIO ANALOGUE dealer.

Not respecting the instructions contained in this manual will invalidate the terms and conditions of the guarantee.

NECESSARY PRECAUTIONS FOR SAFETY AND MAINTENANCE

ATTENTION: before starting any operation, using or maintaining the equipment, it is strictly necessary to understand the following manual.

To avoid any accidents or hazards it is necessary to follow the following regulations.

Activate the equipment only prior to checking that the installation has been done properly, and conforms to the instructions contained in this manual.

Avoid installing the equipment in places subjected to extremely high temperatures or humidity.

Check that the labels containing information about safety are always visible and in good condition.

Ensure not to obstruct ventilation and to avoid excessive overheating. The equipment should be kept to a minimal distance of 15 cm from any object and not to be placed on carpet or other soft surfaces. Also installation close to radiators or in closed spaces without ventilation should be avoided.

Do not switch on the equipment until it has been correctly and completely installed.

Only supply the equipment with the kind of the electric supply as stated on the appropriate label. If in doubt about the kind of supply available, please consult an expert technician for technical assistance.

The equipment needs to be wired to an earth terminal. The external case is made of metal; a defective connection with the earth may be dangerous.

In case damage occurs to the supply cable, it should be replaced immediately with the same kind of cable.

This operation should be only made prior to disconnecting the main supply.

Do not place objects on the supply cable and check that this is not positioned lying across a walk way. The cable should not be knotted or curly.

Always replace the fuses with others of the same type.

Do not use the equipment close to water or other liquids. If liquid enters the equipment, the plug should be disconnected from the socket avoiding any contact with the metal parts. Competent technical staff should be asked to check the equipment before operating it again.

Do not place receptacles containing liquid on the equipment, even when it is switched off.

Keep the equipment far from sources of heat such as solar light, kitchens, radiators etc...

Always unplug the supply cable during rainy weather.

Always switch off and unplug the supply cable before cleaning the equipment externally: this operation should be made using a dry and soft cloth. Never use alcohol based cleaning material.

If the amplifier was carried from an extremely cold environment to an extremely hot one, it could create internal condensation, causing possible malfunction.

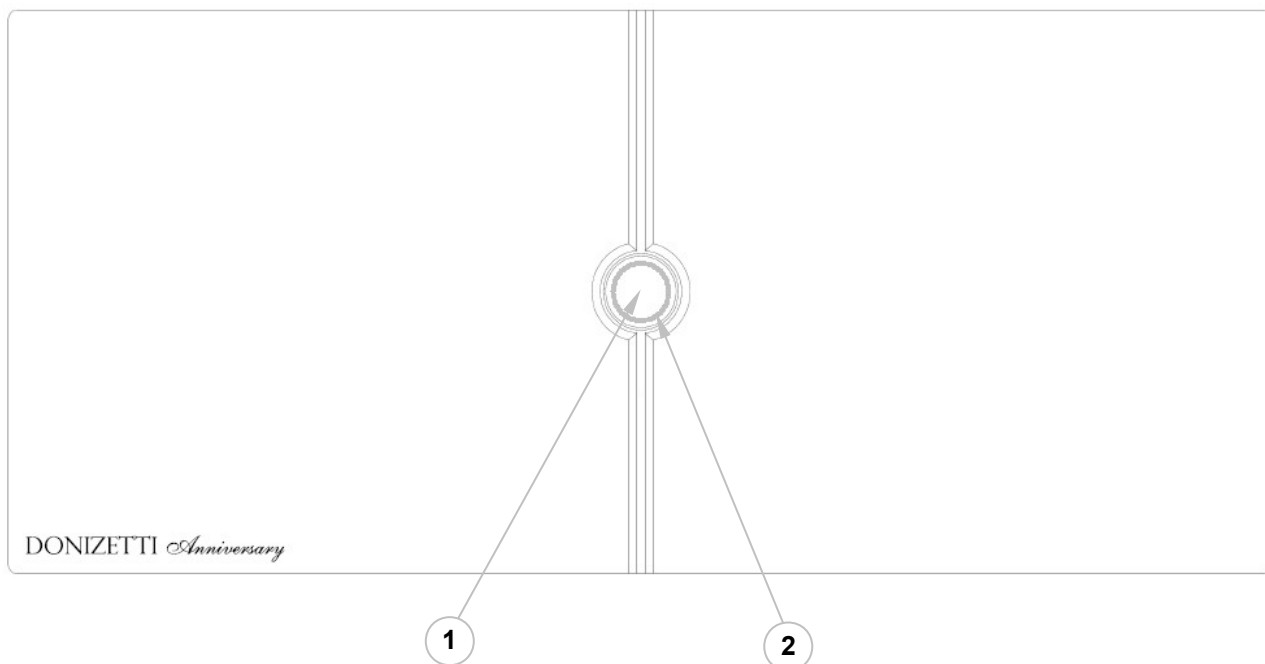
If this occurs, please wait for at least an hour before using it again, to allow it to gradually reach room temperature.

When not used for long periods, please unplug the equipment.

INSTRUCTIONS TO PUT IT OUT OF SERVICE

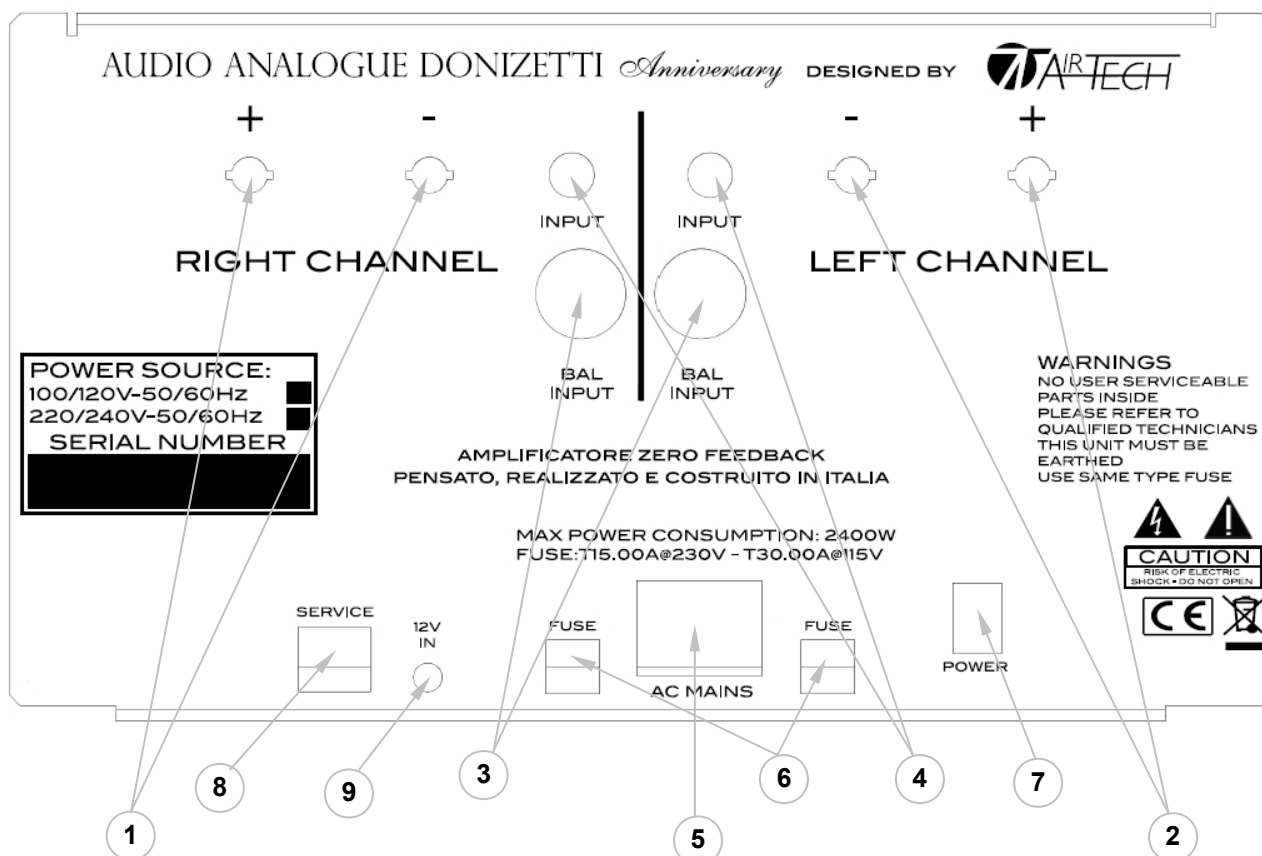
Consult qualified staff

Follow the regulations of the current legislation regarding recycling and waste disposal.



Front panel description

1. Standby button(short push to power ON, short push to power OFF)
2. Stand-by led ring(ON when led ring is brighter, OFF when led ring is darker).



Back panel description

- 1) RIGHT SPEAKER OUT. Right speaker out connector.
- 2) LEFT SPEAKER OUT. Left speaker out connector.
- 3) Balanced Inputs (See Note on Balanced Input).
- 4) RCA Inputs (unbalanced).
- 5) IEC 20A power inlet. Connect here the provided power cord.
- 6) Fuse holders. If necessary, replace the fuses with others of the same kind and value (see back panel for details).
- 7) Power switch.
- 8) Service connector(factory use only)
- 9) 12V trigger input(check notes on trigger input)

Unpacking and checking Donizetti Anniversary power amplifier package

Carefully open the package to avoid damaging the content. The package should contain:

- 1 Donizetti Anniversary power amplifier
- 1 power cord
- 1 instruction manual
- 1 warranty card

If one of the items listed above is missing, please contact your Audio Analogue retailer. After extracting the smaller items from the package, pull out the unit carefully.

Where to place the Donizetti Anniversary power amplifier

The Donizetti Anniversary power amplifier is a complex unit that may generate a lot of heat. Please locate the unit in a well-ventilated place. In particular, leave at least 30 cm around and above the unit and avoid placing it close to heat sources (radiators, heaters, amplifiers, television sets).

Plugging in and connecting the Donizetti Anniversary power amplifier

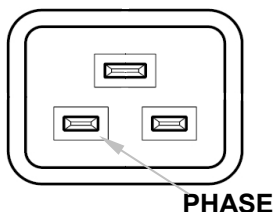
Before connecting the Donizetti Anniversary power amplifier to a preamplifier, please be sure that they're both *unplugged from wall outlets*. *First of all, connect the preamplifier output to the Donizetti Anniversary power amplifier inputs you want to use. Please use only high-quality cables. When this is done, connect the Donizetti Anniversary power amplifier outputs to the speakers.* At last, after checking that the power button is in the OFF position, plug the power cord into the Donizetti Anniversary power amplifier inlet and into the wall outlet.

ATTENTION: when connecting or disconnecting the loudspeaker cables always turn off the unit to avoid electrical shock.

ATTENTION: when connecting or disconnecting the signal cables from the Donizetti Anniversary inputs always turn off all the related equipment.

Notes on correct connection of the phase

Phase pin is in the left position as shown in below image. Supplied power cord has phase pin indicated on the plug to connect to the power network, make sure to find the right position using a phase detector screwdriver and if you replace the power cord, make sure to respect the right phase connection.



Powering up the Donizetti Anniversary power amplifier

First of all put the switch on the rear to 1. The standby LED ring in the front power button will turn ON with low intensity light. Push the central button briefly. The Donizetti Anniversary will begin the start sequence and the LED ring will be brighter. If after pushing the button nothing happens, please refer to the troubleshooting section of the present manual.

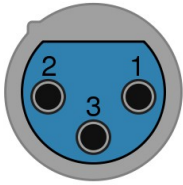
Powering up the Donizetti Anniversary using the Bellini Anniversary Preamplifier

Connecting the Donizetti Anniversary to the Bellini Anniversary preamplifier using the trigger input let you power on and off the power amplifier through the remote control of Bellini. The power on sequence is automatically obtained. The trigger signal is proprietary so the Donizetti Anniversary trigger input must be connected only to the Bellini Anniversary preamplifier trigger output.

Notes on balanced input

The balanced input accepts balanced signal according to the standard XLR pinout as reported in the picture below. To avoid creating ground loop between the power amplifier and the source (which can cause hum problems) use only "true" balanced cables having the ground pin separated from the shield and the cable shield properly connected to the cable connector.

Female



XLR

Pin	Function / Funzione
1	Ground / massa
2	"Positive" (in Phase) polarity terminal / <i>Terminale Polarità "Positiva" (in fase)</i>
3	"Negative" (contro phase) terminal / <i>Terminale "negativo" (in controfase)</i>

Notes on RCA inputs

The RCA inputs are all standard stereo inputs.

Important: when you use RCA inputs, pin 1 and 3 of XLR connectors must remain bridged as supplied by the factory.

Advice on using the Donizetti Anniversary power amplifier

It is preferable to turn the unit off when unused and to unplug it from the power network when unused for long periods and during lightning and electrical storms. Avoid using small metallic objects around the unit because they could fall inside the unit. Avoid leaving the unit ON if unused.

ALARMS

If the power amplifier sense an error turns immediately itself off. The front panel ring LED start to blink. The number of blinks, separated by a longer pause, indicates the error:

- 1 blink = Offset on the left speaker.
- 2 blinks = Offset on the right speaker.
- 4 blinks = Negative left power supply fault.
- 8 blinks = Positive left power supply fault.
- 16 blinks = Negative right power supply fault.
- 32 blinks = Positive right power supply fault.

Number of blinks different from these means multiple faults.

To restore the power amplifier it's necessary to turn off the rear switch, wait 10 seconds and turn it on again.

Bridge-mono configuration

It is possible to use two Donizettis in bridge-mono configuration. In this case not only the output power reaches 1000W at 8Ohms, 1700W at 4Ohms and 2200W at 2Ohms but there is an overall increase of all sound performances. A dedicated kit has been realised specifically for this purpose and it is supplied free of costs when you purchase the second Donizetti together with a quick guide necessary to properly connect the two amps.

Technical information

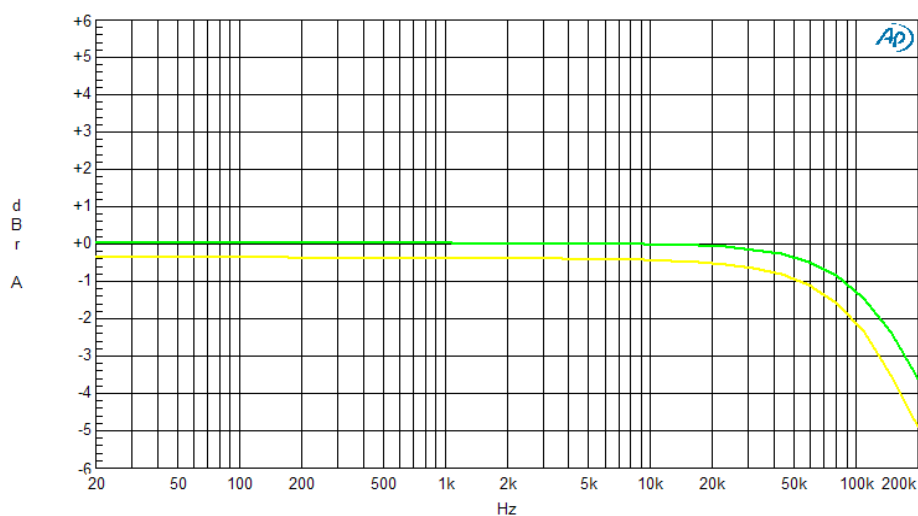
To have detailed technical information please visit the website: www.audioanalogue.com.

Technical Data

Parameter	Measurement conditions	Value
Channels:	-	2
Input impedance	-	47 k Ω
Gain	-	26 dB
Power on 8 Ω load:	One channel working, 230V line	250 W @ 1% THD(1000W in Mono)
Power on 4 Ω load:	One channel working, 230V line	500 W @ 1% THD(1700W in Mono)
Power on 2 Ω load:	One channel working, 230V line	900 W @ 1% THD(2200W in Mono)
Sensitivity	8 Ω output, 250 W	2.3 V _{RMS}
Frequency Responce	Attenuation 0dB, -3dB band	110 KHz
Output resistance	8 Ω nominal power and 1kHz	0.15 Ω
Input Noise:	Band limits 0Hz-80kHz A-weighted	≈ 10 μ V ≈ 4 μ V
Signal/noise ratio:	Attenuation: 0dB A weighted referred to 8 Ω load nominal power	>110 dB
Standby power consumption:	230VAC	<1 W

Audio Precision

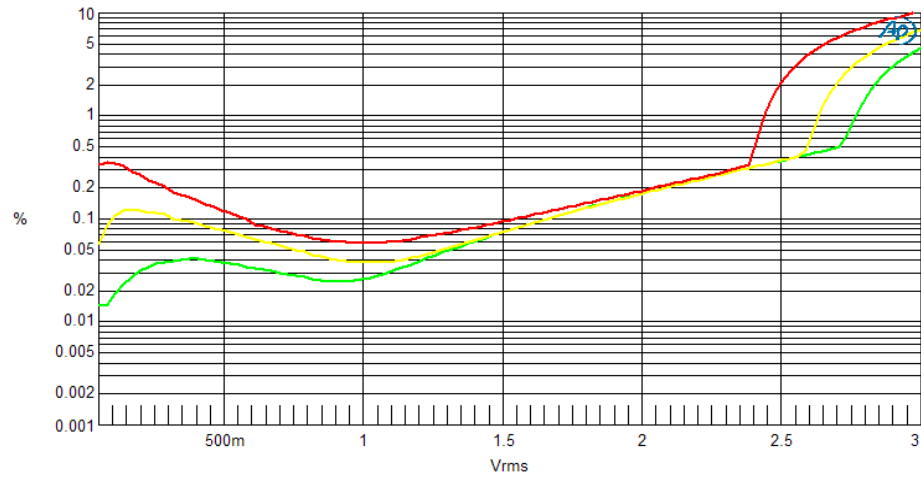
A-A FREQUENCY RESPONSE



1W frequency response, 8 Ω (green) and 2 Ω (yellow)

Audio Precision

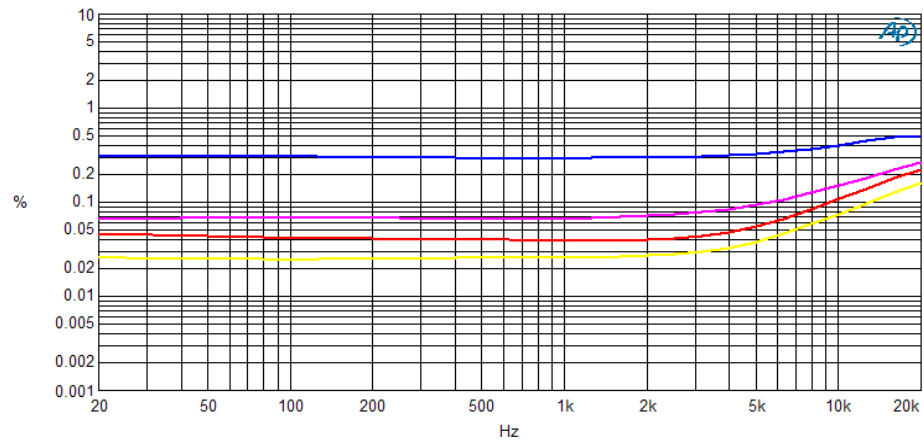
A-A THD+N vs AMPLITUDE



T.H.D.+N vs. Input Amplitude @ 8 Ω (green) , 4 Ω (yellow) and 2 Ω (red)

Audio Precision

A-A THD+N vs FREQUENCY



T.H.D.+N vs. frequency @ 8Ω, 1 W (yellow), 10 W (red), 100 W (pink) and 250 W (blue)

TROUBLESHOOTING

Symptom	Cause	Remedy
No led on No sound	Power cord incorrectly plugged in	Make sure the power cord is correctly plugged into the wall outlet
	Burned-out fuses	Check fuses in the fuse holders next to the IEC inlet (after unplugging the power cord from the wall outlet) and replace them with new ones of the same type
No sound	Faulty or incorrectly plugged signal connectors between power amp. and the preamplifier	Check cables and their connection
	Off or defective preamplifier	Check if the source is on and active
	Faulty or incorrectly plugged power cords between the power amplifier and the speakers	Check cables and their connection
If the suggested remedies do not work or the problem is not shown in the list above, please contact your local Audio Analogue retailer.		



Attention: Your product is marked with this symbol. It means that used electrical and electronic products should not be mixed with general household waste. There is a collection system for these products.

Attenzione: il dispositivo è contrassegnato da questo simbolo, che segnala di non smaltire le apparecchiature elettriche ed elettroniche insieme ai normali rifiuti domestici. Per tali prodotti è previsto un sistema di raccolta a parte.

A. INFORMATION ON DISPOSAL FOR USERS (PRIVATE HOUSEHOLDS)

1 In The European Union

Attention: If you want to dispose of this equipment, please do not use the ordinary dust bin.

Used electrical and electronic equipment must be treated separately and in accordance with legislation that requires proper treatment, recovery and recycling of used electrical and electronic equipment.

Following the implementation by member states, private households within the EU states may return their used electrical and electronic equipment to designated collection facilities free of charge*. In some countries* your local retailer may also take back your old product free of charge if your purchase a similar new one.

*) Please contact your authority for further details.

If your used electrical or electronic equipment has batteries or accumulator, please dispose of these separately before and according to local requirements.

By disposing of this product correctly you will help ensure that the waste undergoes the necessary treatment, recovery and recycling and thus prevent potential negative effects on the environment and human health which could otherwise arise due to inappropriate waste handling.

2. In other countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the correct method of disposal.

For Switzerland: Used electrical or electronic equipment can be returned free of charge to the dealer, even if you don't purchase a new product. Further collection facilities are listed on the home page of www.swisco.ch or www.Sens.ch

B. Information on Disposal for Business Users

1. In the European Union

If this product is used for business purposes and you want to discard it:

Please contact your Audio Analogue dealer who will inform you about the take-back and recycling. Small products (and small amounts) might be taken back by your local collection facilities.

For Spain: Please contact the established collection system or your local authority for take-back of your used products.

2. In other Countries outside the EU

If you wish to discard this product, please contact your local authorities and ask for the current method of disposal.