



TEGELR

Vari Tube Compressor

User Manual

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Safety first

Safety Instructions

Read carefully before using the device.

1. Only use the device in permitted and functional outlets.
2. Protect the device and the power plug against humidity, dripping or splash water to avoid the risk of electric shock. For example, do not place any liquids in containers or similar close to the device.
3. Never place the device in extremely warm or cold environments and absolutely never in direct sunlight. This could create a fire risk.
The recommended operational temperature is between 15°C and 35°C. Condensation may occur if the device is brought from a cold to a warm environment. In this case, the device should be switched off for several hours.
4. Never place the device in an extremely humid or dusty environment. This can create a fire risk or risk of electric shock.
5. Do not cover the ventilation slots.
6. Please remove the power cord to completely disconnect the device from the power supply. To avoid damaging the cord, pull the plug and not the cord; this could otherwise create a fire risk or risk of electric shock.
7. Use only the supplied power cord or an identical to the one provided, with a CE mark and the suitable mark of conformity.
8. Do not put heavy objects on the power cord. A damaged power cord can create a fire risk or risk of electric shock.
9. Avoid allowing foreign objects or liquids to penetrate the device.
10. If the power cord is damaged (if it has cracks, tears, or an exposed wire), ask your supplier for a replacement. Never continue to use a damaged power cord.
11. The high voltages inside the device can be dangerous to life and limb. These can remain for some time after the device has been switched off. The device should only be opened by an experienced service technician.
12. Any changes made to the device will invalidate the warranty.
13. You should switch off the device as soon as possible and unplug the power cord in the event of a thunderstorm. If there is a risk of lightning, you should not touch the power cord until it is disconnected from the outlet as there is a risk of electric shock.
14. If you notice anything abnormal – e.g. smoke, a strong smell, or noise – switch the device off immediately and unplug the power cord. Contact your retailer to find out whether a supplier is necessary. Do not continue to use the device.
15. If replacing the fuse, use one of the same specifications. If the fuse fails again after replacement, contact your supplier to see if a repair is necessary. Do not continue to use the device.
16. Do not clean the unit with solvent-based cleaning agents – just use a damp cloth. Unplug the unit before cleaning and wait until it is completely dry.
17. If your device is equipped with audio transformers, place it away from other equipment which may generate potentially disruptive magnetic fields. These may cause humming sounds and other noise interference. If this occurs, place the device elsewhere.
18. The packing material is not a toy. Children should not play with plastic bags. There is a risk of suffocation.
19. This product is not intended to be used by individuals (including children) with limited physical, sensory or mental abilities or with limited experience and/or knowledge, unless these people are supervised by a person who will ensure their safety, or they have been properly instructed on how to use the device by such a person.
20. Children should be supervised to ensure that they do not play with the device.
21. Make sure that children do not insert foreign objects into the ventilation slots or holes in the back wall. There is a risk of electric shock.

Connections



1 POWER AND FUSE

The device is equipped with an IEC socket. Use a compatible cable only. Read the Safety Instructions section for use before connecting the power cord.

Please see the Technical Data section for the appropriate fuse.

2 OUTPUT

The unit is equipped with two XLR inputs (female). Use this input to connect the VTC to signals at line level from other studio equipment, such as insert sends or D/A converters. Observe the electrical properties of the input (see Technical Data).

3 INPUT

The unit is equipped with two XLR outputs (male). Connect the outputs to the corresponding insert returns or A/D converter inputs. Observe the electrical properties of the output (see Technical Data).

Controls



The main operation purpose of the Vari Tube Compressor is to polish your mix.

4 INPUT

Determines both the input level of the device and the amount of compression.

The VTC, like most classic vari-mu compressors, has a fixed threshold. The more signal, the more compression is applied. The compression ratio increases with higher compression (soft knee). The result is a soft and gentle compression.

5 OUTPUT

Determines the output level.

Set it so that following devices are not clipped.

Switch between the compressed and uncompressed signal to set the level to the same loudness.

6 ATTACK

Controls how fast the compressor reacts to signals above the threshold. Response time goes from approx. 2ms to 100ms.

7 RELEASE

Determines how fast the compressor returns to its normal state when the signal drops below the threshold. Response time goes from approx. 100ms to 2s.



8 LINK

With this switch, you can couple and uncouple the side-chain of both channels and use the channels separately for different signals.

If linked the attack and release for both channels are controlled by the controls of the left channel. You still need to adjust the input and output for both channels. The same degree of gain reduction is applied to both channels to prevent stereo image shifting.

9 COLOR/COMP

Deactivates the compression to use the VTC as a tube coloring device. Set the input and output accordingly to get the desired grade of tube overdrive.

10 BYPASS/IN

When in bypass mode, the signal is passed directly unprocessed from the input to the output. Also when the power is off, the VTC is automatically in bypass mode due to the relays.



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METER

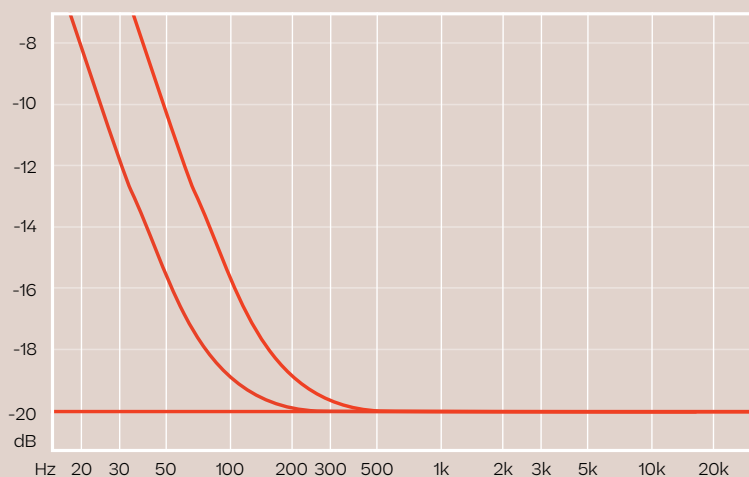
Displays the gain reduction of the compressor in dB.

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SC LOWCUT

Activates a 6dB high-pass filter in the sidechain. Resulting in the compressor becoming less sensitive to low frequencies.

The filter ensures that the compressor does not start pumping even with heavy bass frequencies.



Technical Data

Frequency Response	20 Hz – 24 kHz
Max. Input Level	+20 dBu
Impedance Line Input	≥ 2.4 kOhm
Output Impedance	< 600 Ohm
Max. Output Level	+24 dBu
Dynamic	≥ 95 dB
Voltage	110 V~/60 Hz or 230 V~/50 Hz
Fuse	500 mA slow-blow
Max. Power Consumption	< 25 W
Dimensions	3 U, H: 132 mm, W: 483 mm, D: 250 mm

Additional Information

In order to always ensure the highest audio quality, devices manufactured the Tegeler Audio Manufaktur GmbH are always adapted to match the current state of the art and technology. Changes in design, circuits, and controls are made without prior notice. For this reason, it is possible that the specifications and appearance of the device may differ slightly from those described in this document.

All brands, trademarks and registered trademarks mentioned in this document are the property of their respective owners and are used exclusively for information purposes, even when used without express identification as a registered trademark. All information is intended for personal use – commercial use of descriptions, graphics, photos, or the structure is not permitted. The published texts are protected by copyright.

Conformity

CE Declaration of Conformity

We, Tegeler Audio Manufaktur GmbH, of Weststr.1, 13405 Berlin, Germany, under the management of CEO Michael Krusch, certify and declare under our sole responsibility that the following product

Description: Audio Compressor
Manufacturer: Tegeler Audio Manufaktur GmbH
Model: Vari Tube Compressor VTC

conforms with the essential requirements of the following directives and standards:

- 2006/95/EEC Low Voltage
- 2004/108/EEC Electromagnetic Compatibility
- DIN EN 60065 Safety of Audio Equipment
- DIN EN 55103-1/2 Electromagnetic Compatibility of Audio Equipment

This declaration is deemed invalid in the event the device is altered without our prior written agreement.



Berlin, 01.03.2016 Michael Krusch, CEO

This product was manufactured in conformity with 2011/65/EU.

FCC

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
 2. This device must accept any interference received, including interference that may cause undesired operation.
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Canadian Interference-Causing Equipment Regulations

This apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

T=G=L=R

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