Burmester
ART FOR THE EAR

OWNER´S MANUAL

PRE AMPLIFIER
035
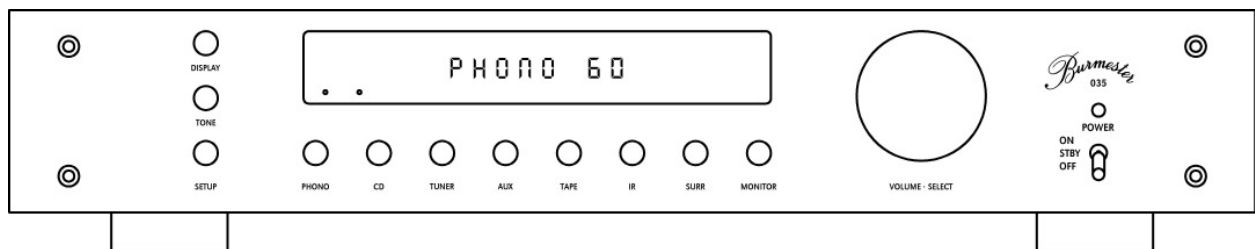
Burmester
ART FOR THE EAR

HIGH END MADE IN GERMANY

Dear Audiophile,

Thank you for choosing this Burmester audio component. We sincerely appreciate your trust in us.

You have purchased a unit which excels in musical fidelity and combines uncompromising manufacturing quality with technical innovation and the highest degree of operating flexibility.

We recommend reading this user manual at least once in its entirety before initial operation. This will enable you to make full use of all capabilities of this outstanding audiophile instrument.
Should you have any further questions, please contact your dealer or us directly.

You decide if we meet the demands of producing high-end components. We offer an additional service which also demonstrates high-end quality.

Talk to us about your special requests, even if they seem out of the ordinary. We happily accept technically reasonable challenges.

Enjoy your enhanced listening pleasure.

**Your Burmester Team**

C O N T E N T S

UNPACKING AND SETTING UP

CAUTION: The pre amplifier 035 is shipped inside a plastic protective cover. Make sure that children do not play with it to avoid the danger of suffocation.

Unpacking

To avoid damaging the housing please do not use pointed or sharp tools to open the box. Please make sure that the content of the box is complete. If something is missing or you notice any damage while unpacking do not hook up the unit. Instead, contact your authorized dealer.

Content of box

The box should contain the following:

• 1 Pre amplifier 035

• 1 AC power cord

• 1 remote control 067

• 1 Owner's manual

Packaging

We recommend keeping the original packing in case the 035 needs to be shipped in the future.

Setting up

Carefully remove the unit from its packaging and set it up in an appropriate location. To protect the 035 from overheating make sure that the location offers sufficient air circulation around the unit. Also, avoid excessive exposure to sun, dust and humidity.
Ventilation ducts and openings in the housing serve to keep the unit cool. They must not be covered up with magazines, table cloth, curtains etc.
If the 035 has to be operated in an extremely warm environment it may be necessary to supply additional ventilation. Avoid operating the unit in an excessively humid environment like bath rooms etc.
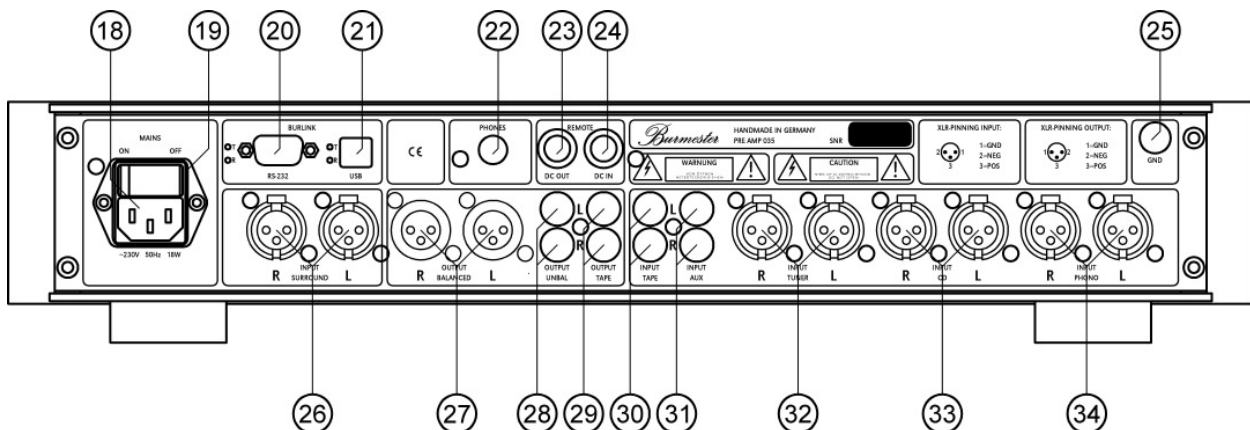
FUNCTIONAL OVERVIEW

FRONT PANEL
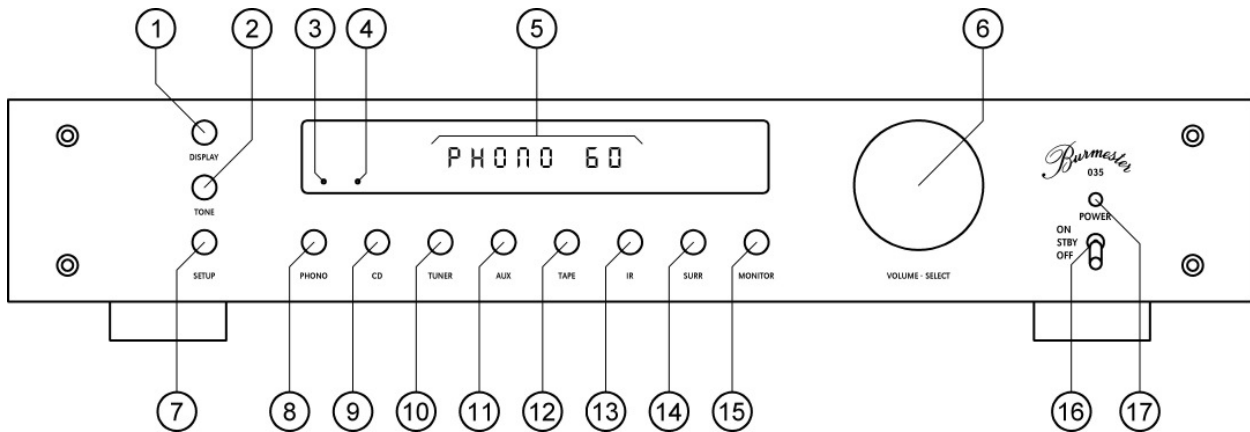
(1)   **DISPLAY button** for dimming of display
(2)   **TONE button** for activating, deactivating and adjusting the tone control
(3)   **TONE LED** lights up, when tone control is activated
(4)   **STANDBY LED** illuminates in standby mode
(5)   **Alphanumeric display** shows selected input and volume
(6)   **VOLUME knob** / SELECT knob in SETUP mode
(7)   **SETUP button** for entering SETUP menu
(8)   **Input select button PHONO**

(9)   **Input select button CD**
(10) **Input select button TUNER**
(11) **Input select button AUX**
(12) **Input select button TAPE**
(13) **IR receiver** for remote control
(14) **Input select button SURR**(ound)
(15) **MONITOR button** to activate the monitor function
(16) **POWER switch** for switching the unit on or off
(17) **POWER LED** shows operating state of the unit

REAR PANEL

(18) **AC mains terminal**
(19) **AC mains switch**
(20) **BURLINK interface RS-232** with check LEDs
(21) **BURLINK interface USB** with check LEDs
(22) **Headphones jack**
(23) **REMOTE output jack**
(24) **REMOTE input jack**
(25) **GND screw** for PHONO frame ground
(26) **SURROUND input** balanced

(27) **PREAMP output** balanced
(28) **PREAMP output** unbalanced
(29) **TAPE output** unbalanced, for analog recording unit
(30) **TAPE input** unbalanced
(31) **AUX input** unbalanced
(32) **TUNER input** balanced
(33) **CD input** balanced
(34) **PHONO input** balanced

CONNECTIONS

All terminals for hook up are located on the rear panel. While connecting the pre amplifier all components of the music system must be turned off.

CAUTION: Before connecting the unit please check if the input voltage of the 035 is equal to the local voltage of your wall outlet. Make sure the ground lead in your power outlet is working correctly. A missing or faulty ground is extremely dangerous!
In case of doubt contact a licensed electrician.

AC mains terminal Make sure the **AC mains switch (19)** is set to OFF. Connect the appliance connector of the power cord to the **AC mains terminal (18)**. Then plug the power cord into the wall outlet.

Inputs To connect source components like CD-Player, FM-Tuner, Tape deck etc. the pre amplifier provides two **balanced inputs (XLR)** named **INPUT CD (33)** and **INPUT TUNER (32)** and two **unbalanced inputs (RCA)** named **INPUT AUX (31)** and **INPUT TAPE (30)**. For the best sound we recommend using the balanced inputs whenever possible.

The pinning of the balanced inputs is: **PIN1=GND**, **PIN2=NEG**, **PIN3=POS**.

NOTICE: If necessary, the balanced inputs can be converted to unbalanced mode by using XLR-RCA adapter plugs. These adapter plugs are available on request at your local dealer.

PHONO input There are three options to operate the **INPUT PHONO (34)**:

- **CD-SYM module** (balanced high level module)
  In standard version the PHONO input is implemented with a **CD-SYM module**. In this case the PHONO input is another balanced high level input like CD and TUNER inputs.

- **PHONO-MC module** (for turntable with moving coil pickup system)
  With an implemented **PHONO-MC module** (accessory, available on request at your local dealer) the PHONO input becomes a balanced PHONO-MC input. If necessary, the PHONO-MC input can be converted to unbalanced mode by using XLR-RCA adapter plugs. These adapter plugs are available on request at your local dealer.
  With the 4-pole **DIL switches** onto the PHONO-MC module you can conform the impedance of your pickup system to the module. In **OFF-position** the PHONO-MC module has an input impedance of 100Ω. You can lower the impedance by setting the DIL switches:
  1 ON: 82Ω
  2 ON: 39Ω
  3 ON: 22Ω
  4 ON: 10Ω
  The ON-position is marked onto the switches.

- **PHONO-MM module** (for turntable with moving magnet pickup system)

  With an implemented **PHONO-MM module** and a pair of XLR-RCA adapters (accessory, available on request at your local dealer) the PHONO input becomes an unbalanced PHONO-MM input. For technical reasons a balanced PHONO-MM input can not be realized.

  With the 4-pole **DIL switches** onto the PHONO-MM module you can conform the impedance of your pickup system to the module. In **OFF-position** the PHONO-MM module has an input impedance of 56pF//47kΩ. You can increase the impedance by setting the DIL switches

  1 ON: 110pF
  2 ON: 150pF
  3 ON: 270pF
  4 ON: 390pF

  The ON-position is marked onto the switches.

  The pinning of the PHONO input is: **PIN1=GND**, **PIN2=NEG**, **PIN3=POS**.

GND screw

By using the PHONO input as an unbalanced input for a turntable it is necessary to connect the GND wire of your turntable to the **GND screw (25)**. Loosen the GND screw, clamp the GND wire of your turntable between the two washers and tighten the GND screw.
Don't use any tools but your hand to tighten the GND screw!

SURROUND input

This input allows the easy integration of surround sound components into an existing two-channel hifi system..
To do this, the two front channels (right front / left front) of a surround sound processor or decoder must be connected to the **INPUT SURROUND (26)**. In this configuration the signal is sent directly to the PREAMP outputs, bypassing tone control and volume control. Volume and other signal settings are controlled by the connected surround sound processor or decoder.
If this component offers only unbalanced (RCA) outputs, the balanced SURROUND input can be converted to unbalanced mode by using XLR-RCA adapter plugs. These adapter plugs are available on request at your local dealer.

CAUTION: Connect only components with their own volume control to the SURROUND input!

The pinning of the SURROUND input is: **PIN1=GND**, **PIN2=NEG**, **PIN3=POS**.

PREAMP outputs

For the connection of power amps or active loudspeakers the pre amplifier 035 provides two pairs of output jacks: **OUTPUT BALANCED (27)** and **OUTPUT UNBAL**(anced) **(28)**.
These outputs provides the signal of the selected input PHONO, CD, TUNER, AUX, TAPE or SURROUND.
The pinning of the balanced output is: **PIN1=GND**, **PIN2=NEG**, **PIN3=POS**.

TAPE output

The output terminal **OUTPUT TAPE (29)** must be connected to the recording input of the taping device that has been hooked up with its outputs to the 035 **INPUT TAPE (30)**.
The tape out terminal provides the signal of the selected input PHONO, CD, TUNER or AUX but not the signals from the inputs TAPE and SURROUND.
Volume and tone controls have no bearing on the signal at the TAPE output.
CAUTION: On technical reasons there is no signal at the TAPE output when the volume of the 035 is set to zero.

Headphones jack

The **headphones jack PHONES (22)** requires headphones with a 6,3mm stereo plug and an impedance of 100Ω and more.
Notice: The SETUP menu offers you to choose whether the signal at the PREAMP outputs will break (**HP OFF**) while inserting a headphones plug into headphones jack or not (**HP ON**).

REMOTE

Connecting **DC OUT (23)** to the corresponding DC IN-jack of another BURMESTER-unit offers to switch on or off this other unit simultaneous by the 035. In this case, 035 has the master function.
Connecting **DC IN (24)** to the corresponding DC OUT-jack of another BURMESTER-unit offers to switch on or off the 035 simultaneous by the other unit. In this case, 035 has the slave function.

BURLINK

To the **BUR**mester-**LINK** interface plugs **(20), (21)** a CRESTRON®-System e.g. can be connected to the pre amplifier 035. This system allows a comfortable control of your hifi system using an individual programmable touch panel. With the LEDs beside the plugs named **T** and **R** (**T**ransmit and **R**eceive) you can check whether data exchange is working.

OPERATING CONTROLS

With the exception of the AC mains switch all operating controls are located on the front panel. To operate the unit it must be connected to the AC supply.

AC mains switch	The **AC mains switch (19)** which turns AC power to the unit on and off is located on the rear panel above the AC mains terminal. By switching to the ON position the transformer is powered up.
POWER switch	The **POWER switch (16)** turns the unit on and off provided the AC mains switch is in the ON position. Whether the POWER switch is set to "OFF" all functions of the pre amplifier are deactivated. Turning the POWER switch from "OFF" to "STBY" position the **STANDBY LED (4)** will illuminate due to the fact the pre amplifier stands in standby mode. When the POWER switch is in "STBY" position the unit can be turned on and off by pushing up the POWER switch or pushing the POWER button on the BURMESTER remote control (accessory). In operating mode (ON) the **POWER LED (17)** lights up and all functions of the pre amplifier are activated. **PLEASE NOTE:** Always switch off the 035 with the POWER switch first before bringing the AC mains switch into OFF position.
VOLUME knob	The **VOLUME knob (6)** controls the volume level in 61 steps from 00 (off) to 60 (full volume). The selected volume level will be shown in the **alphanumeric display (5)**. The responsivity of the VOLUME knob can be selected in the SETUP menu.
Input select	Inputs are selected by pressing the respective **input select button PHONO (8)**, **CD (9)**, **TUNER (10)**, **AUX (11)**, **TAPE (12)**. The **alphanumeric display (5)** indicates the selection.
SURROUND input	Pressing the button **SURR (14)** activates the **INPUT SURROUND (26)**. The signal from the SURROUND input is routed directly to the PREAMP outputs, bypassing tone control and volume control.
MONITOR function	Pressing the button labeled **MONITOR (15)** blocks the direct signal path during recording and switches to replaying the just recorded signal. When the monitor function is activated an **–M** is added to the selected input in the alphanumeric display. The inputs TAPE and SURROUND have no monitor function.
DISPLAY button	Pushing the button labeled **DISPLAY (1)** varies the brightness of the alphanumeric display in four steps between "max. brightness" to "off". If brightness is selected to "off", the display will light up only when any controls are used to change settings. After a few seconds it automatically switches off again. In SETUP mode display lights up on "max. brightness" permanently.

SETUP MENU

The SETUP menu of the pre amplifier 035 allows the easy programming of certain basic settings as well as a host of special functions.

NOTICE: While the SETUP menu is active the **VOLUME knob (6)** on the front panel of the 035 serve to change the settings of the various menu items. During this procedure the volume level of the 035 cannot be changed.

Activating SETUP	Press the button **SETUP (7)** on the front panel to get into the SETUP menu. The alphanumeric display shows **SETUP** (blinking) followed by the first menu item (see table below).
Select menu item	The different items on the setup menu are selected in the sequence specified in the table below by repeatedly pressing the **SETUP button (7)**. The activated menu item is indicated on the left side of the **alphanumeric display (5)**.
Change settings	To change the setting of an activated menu item rotate the **VOLUME knob (6)** to the left to lower the set value or to the right to increase the set value. The selected value of the menu item is indicated on the right side of the **alphanumeric display (5)**. The selected value of any menu item will be saved immediately.
Deactivating SETUP	The SETUP menu is closed automatically after a few seconds when no adjustment is made. The **alphanumeric display (5)** shows **SETUP-OK** (blinking) followed by the selected input and the volume level. The selected value of any menu item will be saved immediately.

Menu items   The following table lists all items that can be adjusted using the SETUP menu. (Values set in brackets show the factory settings) Following to the table you'll find a detailed description of all menu items.

MENU ITEM	DESCRIPTION	DISPLAY	VALUE
Volume	**Selecting initial volume**	**VOL**	**00** to **20 (01)**
Input level PHONO	**Input level adjustment for PHONO input**	**L-PH**	**-6** to **+6 (0)**
Input level CD	**Input level adjustment for CD input**	**L- CD**	**-6** to **+6 (0)**
Input level TUNER	**Input level adjustment for TUNER input**	**L- TU**	**-6** to **+6 (0)**
Input level AUX	**Input level adjustment for AUX input**	**L-AUX**	**-6** to **+6 (0)**
Input level TAPE	**Input level adjustment for TAPE input**	**L-TP**	**-6** to **+6 (0)**
Output amplification	**Output amplification low (LOW) or high (HIGH)**	**OUT**	**LOW** / **HIGH (LOW)**
Headphones	**PREAMP output if headphones are plugged in**	**HP**	**OFF** / **ON (OFF)**
Volume control	**Responsivity of VOLUME knob**	**VC**	**DYN** / **SLOW** / **MID** / **FAST (FAST)**
Serial number	**Show the serial number after switching on the unit**	**SNR**	**OFF** / **ON (OFF)**
Default	**Loading of factory settings**	**DEFAULT ok!**	

Volume   This menu item allows you to preset the volume level when the 035 is switched on.

Input level   The input level adjustment feature serves to avoid big jumps in volume when switching between signal sources with different output levels.

Output level   To achieve the best match with your power amps or active loudspeakers the output level of the amplification stages may be adjusted.
OUT HIGH stands for high amplification, **OUT LOW** accordingly for low amplification.
We recommend to choose the setting **LOW** when using BURMESTER power amps.

Headphones   This menu item offers you to choose whether the signal at the PREAMP outputs will break (**HP OFF**) while inserting a headphones plug into headphones jack or not (**HP ON**).

Volume control   The responsivity of the VOLUME knob can be selected in this menu item
DYN stands for dynamic control. That means, turning the volume knob slowly effects a step-by-step changing of volume level. If you turn the volume knob faster, the changing of volume level will be done in larger steps.
SLOW means low responsivity.
MID means medium responsivity.
FAST means high responsivity.

Serial number   If you would like to see the serial number of the unit after switching on the pre amp, choose (**ON**).

Defaults   If you want to load the factory settings of the unit, incl. display brightness and tone control, turn the volume knob to the right when this menu item is activated. The display will show **CHANGED!** , if reset is done.

TONE CONTROLS

The tone controls allow increasing or decreasing bass output in 2dB steps from plus to minus 10dB and treble output from plus to minus 14dB. A setting of 0 (0dB) corresponds to neutral setting.
If you don't wish tone controls, please deactivate it (see below).

Adjusting the tone controls

Pressing and holding the key labeled **TONE (2)** switches into the tone control menu.
The menu items bass and treble can be called up sequentially by briefly pressing the TONE key.

BASS ADJUSTMENT: The display shows **BASS ....**.
Use the **VOLUME knob (6)** to adjust the bass between −10dB and +10dB.

TREBLE ADJUSTMENT: The display shows **TREB ....**.
Use the **VOLUME knob (6)** to adjust the treble between −14dB and +14dB.

The tone control mode is automatically terminated after a few seconds without any adjustment. The selected settings are retained when leaving the tone control menu.
The tone control will be switched into the signal path after terminating the menu and the **TONE LED (3)** lights up.

Activating/Deactivating the tone controls

In normal operation the signal path by-passes the tone control completely.
To switch the tone controls into the signal path press the key labeled **TONE (2)** briefly. The **TONE LED (3)** illuminates when the tone controls are activated.
To switch the tone controls off press the key labeled **TONE (2)** briefly again and the **TONE LED (3)** will go out.

REMOTE CONTROL

The 067 remote control is delivered with the 035. By definition the keys on the remote control labeled **POWER, TUNER, PHONO, TAPE, AUX, SURR** have the same functions as the corresponding control buttons on the front panel of the pre amplifier 035.
The **DISC** key has the same function as the **CD** button on the front panel of the 035.
The **DIM** key has the same function as the **DISPLAY** button on the front panel of the 035.

The keys **VOLUME +** and **VOLUME −** control the volume level of the output.

All other keys on the remote control have no functions with respect to the 035.

BURLINK

CONNECTIONS

Connecting to the BURLINK interface can be done either with the 9 pin D-SUB connector (RS-232) or with the USB 2.0 connector. A USB device driver needs to be installed when using the USB 2.0 connector.
System requirements for using the USB software are either **WINDOWS 2000** or **WINDOWS XP** operating system.

COMMANDS

Following are listed the possible commands to control the preamplifier 035. All commands needs to be sent in capital letters finished with a "carriage return" **\r** .

POWON\r	switches the unit on
POWOFF\r	switches the unit to standby mode
PHONO\r	activates the PHONO input
TUNER\r	activates the TUNER input
CD\r	activates the CD input
TAPE\r	activates the TAPE input
AUX\r	activates the AUX input
SURR\r	activates the SURROUND input
VOLUP\r	increases the volume for one step
VOLDN\r	decreases the volume for one step
MONITOR\r	changes between monitor loop on or off
MONITOROFF\r	switches the monitor loop off
MONITORON\r	switches the monitor loop on
TONE\r	changes between tone control on or off
TONEOFF\r	switches the tone control off
TONEON\r	switches the tone control on
BASSUP\r	increases the bass volume for one step (2dB)
BASSDN\r	decreases the bass volume for one step (2dB)
TREBLEUP\r	increases the treble volume for one step (2dB)
TREBLEDN\r	decreases the treble volume for one step (2dB)
DIM0\r	switches the display brightness to maximum
DIM1\r	switches the display brightness to middle
DIM2\r	switches the display brightness to low
DIM3\r	switches the display to off mode
DIM\r	switches the brightness step by step (0,1,2,3,0,1,2....)

GENERAL INSTRUCTIONS

Operating temperature   An operating temperature that is too high or too low may cause malfunctioning. We therefore recommend letting the 035 sit for a while after unpacking and before connecting and operating it.

Terminals   The pins of the connecting terminals on the back panel should not be touched by fingers under any circumstances. Static discharges may damage the electronic circuitry inside the unit.

IR receiver   The **IR receiver (13)** receives signals from the BURMESTER remote control and must not be covered up by objects.

Heat development   Be careful when touching the housing – it may get quite warm during operation.

Reset   If the unit does not react when pressing the control keys on the front it may be reset to normal operation by switching it off and back on using the AC mains switch in the back.

Lightening strikes   During the summer months, malfunctions often occur due to voltage spikes in the power lines after lightning strikes. Completely unplugging the power cord offers the only effective protection. Merely switching the 035 off does not suffice since voltage spikes are able to arc over separated contacts.

Interconnects   We supply custom-made balanced as well as unbalanced interconnect cables and speaker cables of any length to ensure highest-quality signal paths for our components. The impedance of our cables is ideally matched to all BURMESTER components.
For the cleanest power supply we recommend our triple-shielded power cord BURMESTER-POWER.

Fuses   The fuses are located inside the unit and should be changed only by a qualified technician.

Voltage   Check before operating the 035 to see if the voltage setting shown on the back panel below the AC mains input conforms to voltage of your household power supply. Any change should only be done by an expert.

Warranty   We offer warranty for this unit provided the 035 has been hooked-up and operated correctly, is We provide a three-year warranty on your Burmester device. In order for the warrantyto be valid, the device must have been connected and operated properly without overloading, the mechanical integrity of the device must not have been compromised and the device must have been registered. The warranty expires if the device has been tampered with in any way or if parts of the h ousing, connections or terminals have been dismantled. Please register your product with the serial number in the warranty certificate at: www.burmester.services/warranty and activate your warranty extension.

Care   Never clean the housing with a wet cloth or chemical cleaning agent. Always make sure that no liquid gets into the housing.

CAUTION   **Before opening the housing or changing the fuses always unplug the unit from the wall outlet. DANGER OF ELECTRIC SHOCK!**

TECHNICAL DATA

Dimensions	Width x Height x Depth	**482 x 95 x 340mm**
		(19.0 x 3.7 x 13.4 inches)
Weight		**6.7kg**
		(14.7 lbs)
Mains voltage and fuses	for 220V – 240 V 50/60 Hz	**2 x 250mA E/slow**
	for 100V – 120 V 50/60Hz	**2 x 500mA E/slow**
Power consumption	ON	**18W**
	STBY	**2W**
	OFF	**1W**
Frequency response	-3 dB	**2Hz – 200kHz**
Input impedance	balanced	**22kOhm**
	unbalanced	**22kOhm**

PLEASE NOTE: The dimensions do not include the length of binding posts and the space needed for plugs of interconnect cables.

The technical data and design of this product are subject to change without notice.