

*WAVAC Audio Lab*



光  
を  
聴  
く  
…

In the pursuit of ultimate sonic purity,  
its delicate sound reproduction ability penetrates your mind,  
its bold sound reproduction ability vibrates your mind.

## Greetings

### *For All Music Lover*

*Welcome to World of WAVAC Audio Lab.*

*Please take a moment and let us tell you what's WAVAC is looking for music.*

*I have been involved with listening to live musical performances  
as a sound engineer for over 20 years. A live performance is similar to a living thing -  
we are never able to hear it again. However, I have been thinking  
how we could reproduce the real feeling  
and pure sound of live performance.*

*As digital technology continues developing and evolving these days,  
the music industry is no exception and is also changing. However,  
I cannot find the sound I'm seeking there. Humans are performing and singing...  
and humans are listening with their ears. When I look for comfortable musical sound,  
I can't find it in digital sound.*

*"I want to listen to self-indulgent sound.  
I want to pursue and recognize the sound I am seeking."*

*When I considered my concepts at the beginning of WAVAC,  
I went back to the starting point of analog sound as vacuum tubes.  
At that same time, I had a fateful meeting with the late Mr. Nobu Shishido  
who designed a new tube circuit. We developed new products by trial  
and error and but we were also blessed with wonderful chassis design  
and a supportive staff. Another blessing was many audiophiles  
all over the world have agreed with our concepts.*

*WAVAC Audio Lab will continue our policy of seeking self-indulgent sound.*

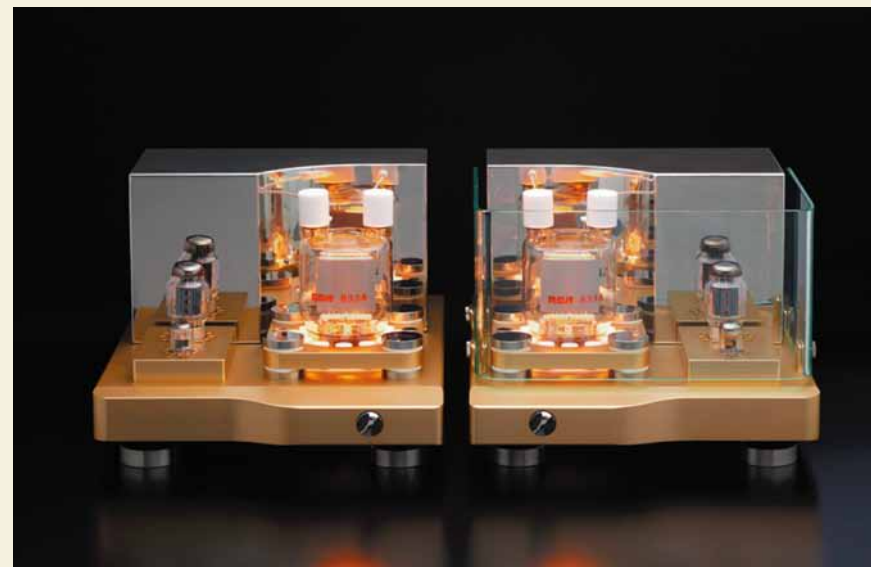
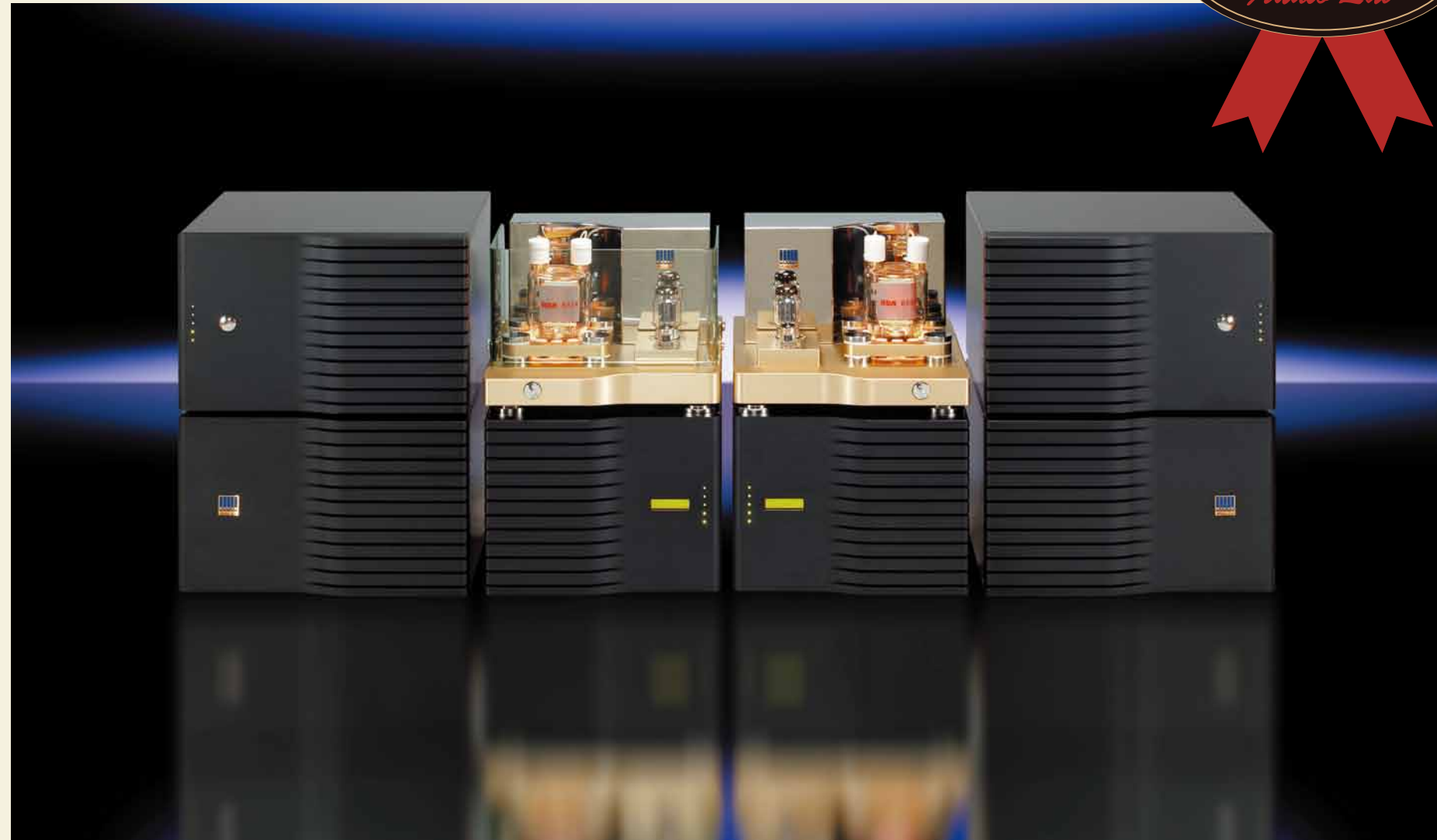
*WAVAC Audio Lab*

伊藤 譲

YUZURU ITO

# SH-833

*Directly-heated Triode Single Ended Monaural Power Amplifier*



## Features

- ◆ This highly specified amplifier is designed with all our technique as WAVAC Audio Lab special 10th anniversary model.
- ◆ This is a Hi-Fi monoblock amp which has achieved world first Class A150W single ended. This model has the most powerful output in the world as a Class A directly heated triode single ended amplifier.
- ◆ Highly powerful single ended monoblock amp which takes advantage of directly heated triode 833 used for communication.
- ◆ The power circuit was newly developed, based on the concept of "pure power is needed to make the best sound", which can supply enough power for the power amp, recreate more powerful sound and especially improves bass sound quality.
- ◆ The power circuit can supply pure power by cutting bilateral noise to the amp part by having different chassis of isolation part, transformer part and stabilized power supply part. This isolation part of the power circuit reduces noise by using excellent noise-cut transformers made of DENKENSEIKI Laboratory Co..
- ◆ The power supply transformer has 5 different transformers for each power circuit to prevent bilateral effect and supply enough power to the amp part.
- ◆ Stabilized power supply part rectifies by Silicon-diode which can rectify well without grid to have perfect regulation.
- ◆ The amp part uses silver wires for all the wires and gold plated phosphor bronze for the terminal to eliminate signal deterioration and improve sound quality.
- ◆ Clear and full bass sound can be reproduced by IITC (Inverted Interstate Transformer Coupling) circuit.
- ◆ The signal circuit is directly connected with transformers without a condenser and composes direct circuit to have a dynamic range.
- ◆ All the tube heaters are rectified by Silicon-diode and  $\pi$  filter is DC ignited by a large volumetric condenser to reduce hum noise.
- ◆ Chassis employs pin pointed base and  $\beta$  GEL as a vibration absorber and all the tube sockets are also designed to prevent vibration effect by  $\beta$  GEL.
- ◆ The input tube employs brilliant WE437 triode tubes with low rp. The driver tube acquires enough power and linearity by triode-connected of KT-88.
- ◆ The amp chassis used as a main chassis is NC processed from 60mm solid aluminum and alumite processed with beautiful gold champagne.
- ◆ High quality tube sockets are machined from Teflon and use gold plated round pin made of phosphor bronze as a contact which improves insulation performance to eliminate signal deterioration.
- ◆ Excellent 833 modern amp reproduces real an beautiful music with light of Thorium-Tungsten inside the laboratory glass case.



# HE-833 MK-II

*Directly-heated Triode Single Ended Monaural Power Amplifier*



## Features

- ◆ The HE-833 MK-II is a highly specified model and created with our leading state-of-the-art design techniques as a WAVAC Audio Lab special 10th anniversary model.
- ◆ The power supply which uses technology from the SH-833 is a slightly compact version found in the top model, SH-833. By isolating the amplifier and the power supply sections, affects of induction and magnetic field coming from the power supply and the transformers are prevented and pure power is supplied to the amplifier.
- ◆ The signal circuit eliminates a condenser and solidifies the dynamic range by using direct coupled circuitry and transformer-coupled.
- ◆ All the tube heaters are rectified by Silicon-diode. The  $\pi$  filter choke transformers are DC ignited by a large volumetric condenser to minimize hum noise.
- ◆ Silver wiring is used for the amplifier signal path. Gold-plated phosphor bronze terminals are connected to prevent signal deterioration and improve sound quality.
- ◆ All the tube sockets are machined from Teflon and use high quality gold plated round pins made of phosphor bronze to improve sound quality by reducing contact and resistor between the tubes and the sockets.
- ◆ CNC processed 60mm aluminum board with beautiful champagne gold aluminum finish is used for the main amplifier chassis.
- ◆ Chassis employs pin pointed base and  $\beta$  GEL as a vibration absorber. Vibration control machinery by  $\beta$  GEL is also used for all the tube sockets to eliminate affects of vibration.

## Specification

- Amplifier : HE-833MK- II
 

Power tube.....	833
Effective power.....	150 w/ch
Frequency range.....	20Hz~100KHz
Input sensitivity.....	1V
Input impedance.....	100K $\Omega$
S/N ratio.....	>95dB
Power consumption.....	800W(each)
Power supply.....	100,110,120,220,230,240VAC
.....	50-60Hz(selected when shipped)
Load Impedance.....	4 $\Omega$ & 8 $\Omega$ (16 $\Omega$ option)
External dimensions.....	410W $\times$ 550D $\times$ 302H(mm)
Weight.....	50kg(each)
- Power Supply : PS-833MK- II
 

Power supply.....	100,110,120,220,230,240VAC
.....	50-60Hz(selected when shipped)
External dimens.....	410W $\times$ 550D $\times$ 320H(mm)
Weight.....	65kg(each)

## Option



Gold circuit board !





# HE-833 ver 1.3

*Directly-heated Triode Single Ended Monaural Power Amplifier*



## Features

- ◆ HE-833 ver1.3 is upgraded to 150W as a WAVAC Audio Lab special 10th anniversary model.
- ◆ First and only audiophile amplifier to feature the remarkable 833A transmitting triode, designed by RCA for critical high-power commercial applications, with output more than capable of driving any modern loudspeaker.
- ◆ Special adaptation of IITC circuit using a triode-wired KT-88 power drive delivers tremendous authority across the entire audible bandwidth with all the subtle flavor of the best single-ended triode amps.
- ◆ Direct-coupled circuitry featuring the superb WE437A input tube preserve the full dynamic life of music without compression or tonal coloration.
- ◆ AC mains input filter and well-filtered DC filament supplies minimize hum and noise.  
Chassis is precision machined from a 60mm thick solid block of aerospace-grade aluminum and detailed with a handsome and durable champagne-gold finish.
- ◆ Custom gold-plated tube socket contacts are machined from phosphor bronze bar stock and set in milled Teflon supports. Damping using high-tech Beta-gel technology eliminates effects of environmental vibrations.
- ◆ A sculptural lab glass canopy supported by elastomeric suspension is available for protection of the tubes.

## Specification

Power tube.....	833
Effective power.....	150 w/ch
Frequency range.....	20Hz~100KHz
Input sensitivity.....	1V
Input impedance.....	100K $\Omega$
S/N ratio.....	>90dB
Power consumption.....	500W
Power supply.....	100,110,120,220,230,240VAC
.....	50-60Hz(selected when shipped)
Load Impedan.....	4 $\Omega$ & 8 $\Omega$ (16 $\Omega$ option)
External dimensions.....	410W $\times$ 525D $\times$ 305H(mm)
Weight.....	50kg(each)

# HE-805

## *Directly-heated Triode Single Ended Stereo Power Amplifier*



### Features

- ◆ The extraordinary IITC circuit utilizes the 805 transmitting tube to its ultimate sonic potential.
- ◆ Direct coupled circuitry eliminates coupling capacitors for outstanding dynamic range and uncolored sound.
- ◆ The chassis is milled out of 60mm thick block of aerospace-grade aluminum and finished in a lustrous champagne-gold.
- ◆ The specially-designed transformers used in HE-805 amplifiers are custom-wound to the highest standards by TANGO, the most renowned transformer manufacturer in Japan.
- ◆ All tube sockets are machined out of solid Teflon stock and assembled with heavy gold plated phosphor bronze contacts. Elastomeric anti-vibration mounting arrangements is provide isolation the tube from environmental vibrations.
- ◆ Gold-plated speaker jacks which will accommodate heavy audiophile speaker cables are mounted on the top of the amplifier for easy access.
- ◆ Reduction of noise caused by electric power supply is reduced by power line input filter.
- ◆ All elegant laboratory glass canopy is fitted to the chassis with elastomeric supports for protection of the tubes.
- ◆ The input tube is the Western Electric 437A, an outstanding low-noise triode designed in the 1950s for critical telecommunication applications.
- ◆ A 6L6GC triode driver stage allows high power and linearity.

### Specification

Power tube.....	805
Effective power.....	45w/ch
Frequency range.....	20Hz~60KHz
Input sensitivity.....	1V
Input impedance:.....	100K $\Omega$
S/N ratio.....	>80dB
Power consumption:.....	550W
Power supply.....	100,110,120,220,230,240 VAC
.....	50-60Hz(selected when shipped)
Load Impedance.....	8 $\Omega$ (4 $\Omega$ & 16 $\Omega$ option)
External dimensions.....	540W $\times$ 410D $\times$ 290H(mm)
Weight.....	60kg



# HE-4304

*Directly-heated Triode Single Ended Stereo Power Amplifier*



## Features

- ◆ IITC(Inverted Interstage transformer Coupling) circuit with special DC magnetization cancellation technique provide excellent performance in lower register.
- ◆ All direct-coupled circuitry. We avoid coupling capacitors to ensure maximum purity of reproduction.
- ◆ The ITT 4304 filaments are supplied from a well filtered DC source to minimize hum and noise.
- ◆ The chassis is milled out 40mm thick block of aerospace-grade aluminum and finished in a lustrous champagne-gold.
- ◆ The specially-designed transformer used in HE-4304 are custom-would to the highest standards by TANGO, the most renowned transformer manufacturer in Japan.
- ◆ All tube sockets are machined out of solid Teflon stock and assembled with heavy gold plated phosphor bronze contacts. Elastomeric anti-vibration mounting arrangement is provided to isolate the tubes from environmental vibrations.
- ◆ The input tube is the Western Electric 437A an outstanding low-noise triode designed in the 1950s for critical telecommunication applications.
- ◆ A 6L6GC triode driver stage allows high power and linearity.

## Specification

Power tube.....	4304
Effective power.....	15w/ch+15W
Frequency range.....	40Hz~50KHz
Input sensitivity.....	1V
Input impedance.....	100K $\Omega$
S/N ratio.....	>80dB
Power consumption.....	360W
Power supply.....	100,110,120,220,230,240 VAC
.....	50~60Hz(selected when shipped)
Load impedance.....	8 $\Omega$ (4&16 option)
External dimensions.....	450W $\times$ 360D $\times$ 260H(mm)
Weight.....	30kg

# EC-838

## *Directly-heated Triode Single Ended Stereo Power Amplifier*



### Features

- ◆ IITC circuitry with DC magnetic cancellation performs outstanding low frequency and rich musicality.
- ◆ Uncompromising direct coupling circuitry in all stages. Coupling capacitors are totally eliminated to ensure the pure reproduction of the sound without coloration.
- ◆ Filaments of tube are supplied by well-filtered DC currents. In order to get clean plate current, EC-838 employs special Silicon-diode rectifiers which minimize noise.
- ◆ Chassis is precision machined from a 10mm thick solid block of aluminum and detailed with a handsome and durable champagne-gold finish.
- ◆ Custom gold plated tube socket contacts are machined from phosphor bronze bar stock and set in milled Teflon supports. Damping using high-tech Beta-gel technology eliminates effects of environmental vibrations.
- ◆ Power supply noise is considerably reduced by advanced supply filters.

### Specification

Power tube.....	838
Effective power.....	35 w/ch
Frequency range.....	20Hz~50KHz
Input sensitivity.....	1V
Input impedance.....	100K $\Omega$
S/N ratio.....	>75dB
Power consumption.....	550W
Power supply.....	100,110,120,220,230,240 VAC
.....	50-60Hz(selected when shipped)
Load Impedance.....	4 $\Omega$ & 8 $\Omega$ (16 $\Omega$ option)
External dimensions.....	550W $\times$ 430D $\times$ 225H(mm)
Weight.....	40kg



# EC-300B

## *Directly-heated Triode Single Ended Stereo Power Amplifier*



### Features

- ◆ An Adaptation of IITC circuit concept featuring a unique configuration which cancels DC magnetization in the interstage transformer for outstanding bass performance and rich musical reproduction.
- ◆ All direct-coupled circuitry. We avoid coupling capacitors to ensure maximum purity of reproduction.
- ◆ The 300B heaters are supplied from a well filtered DC source to minimize hum and noise.
- ◆ The 10mm thick chassis is NC machined from solid aluminum and finished in a satiny champagne-gold finish.
- ◆ The specially-designed transformers used in EC-300B amplifiers are custom-wound to the highest standards by TANGO, the most renowned transformer manufacture in Japan.
- ◆ All tube sockets are machined out of solid Teflon, fitted with gold plated phosphor bronze contacts and mounted on elastomeric vibration insulators.
- ◆ Gold-plated speaker jacks which will accommodate heavy audiophile speaker cables are mounted on the top of the amplifier for easy access.
- ◆ The input tube is a triode-wired Western Electric 435A, a superb small-signal device designed to meet the highest standards of performance and reliability in vital telecommunication applications.

### Specification

Power tube.....	300B
Effective power.....	10 w/ch
Frequency range.....	20Hz~100KHz
Input sensitivity.....	1V
Input impedance.....	100K $\Omega$
S/N ratio.....	>80dB
Power consumption.....	260W
Power supply.....	100,110,120,220,230,240VAC
.....	50-60Hz(selected when shipped)
Load Impedance.....	8 $\Omega$ (4 $\Omega$ & 16 $\Omega$ option)
External dimensions.....	485W $\times$ 350D $\times$ 220H(mm)
Weight.....	27kg

*Listening to the light...*



## SH-833

*Power- Supply*

- ◆ Specification
  - Power tube.....833
  - Effective power.....150 w/ch
  - Frequency range.....20Hz~100KHz
  - Input sensitivity.....1V
  - Input impedance.....100K  $\Omega$
  - S/N ratio.....>100dB
  - Power consumption.....800W(each)
  - Power supply.....100,110,120,220,230,240VAC
  - .....50-60Hz(selected when shipped)
  - Load Impedance.....4  $\Omega$  & 8  $\Omega$  (16  $\Omega$  option)
  - External dimensions.....410W×525D×275H(mm)
  - Weight.....50kg(each)

## PS-833

*Power Amplifier*

- ◆ Specification
  - External dimensions.....410W×525D×311H(mm)
  - Weight.....65kg(each)

## TB-833

*Power Transformer*

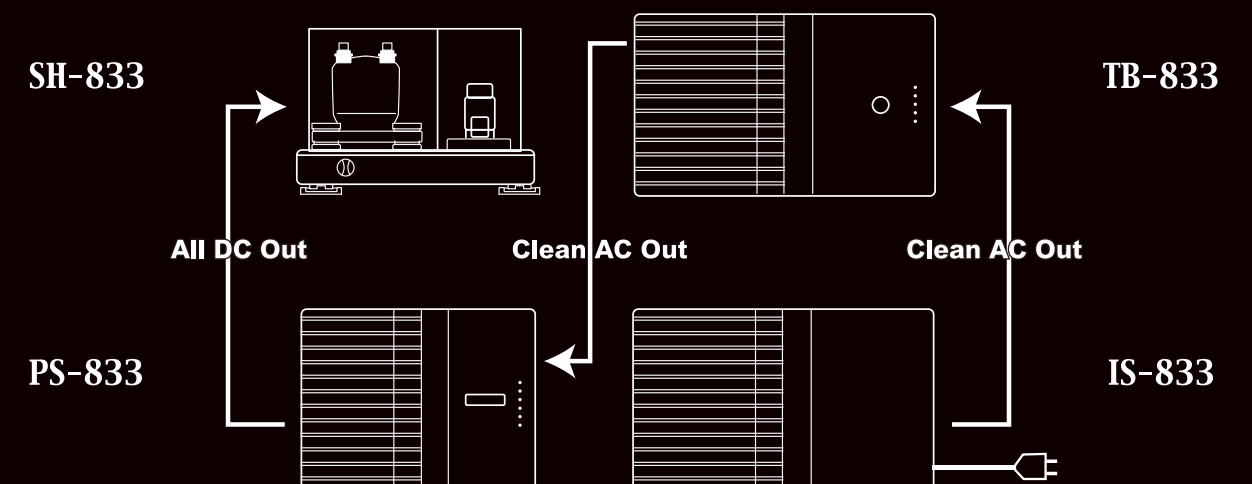
- ◆ Specification
  - External dimensions.....510W×525D×311H(mm)
  - Weight.....61kg(each)

## IS-833

*AC Conditioner Amplifier*

- ◆ Specification
  - External dimensions.....510W×525D×311H(mm)
  - Weight.....72kg(each)

## System





# MD-805MK-II

*Directly-heated Triode Single Ended Monaural Power Amplifier*



## Features

- ◆ The MD-805MK-II is a special designed version of the critically acclaimed MD-805m. The MD-805MK-II was created with our leading state-of-the-art design techniques as part of the WAVAC Audio Lab special 10th anniversary model series that includes the SH-833 and HE-833MK-II.
- ◆ The MD-805MK-II power transformer is isolated in a separate chassis from the main unit. By isolating the power transformer, the MD-805MK-II can supply a more pure and clean electric current to the main unit for optimal sonic quality.
- ◆ WAVAC uses a special double chock transformer for B power circuit to reduce hum.
- ◆ All the tube heaters are rectified by Silicon-diode for the clearest and purest sound possible. The  $\pi$  filter choke transformers are DC ignited by a large volumetric condenser to minimize hum noise.
- ◆ The signal circuit eliminates the coupling capacitor by using a direct coupled circuit and transformer-coupling to provide rock- solid dynamics.
- ◆ The MD-805MK-II uses a high current output transformer to provide sufficient current and a wide frequency response untypical of single-ended triode amplifiers.
- ◆ The main chassis isolates the transformers from vibration using advanced Alfurgel to further increase the sonic purity.
- ◆ All transformers are separated to further reduce the sonic effects of current, guide and magnetics.

## Specification

Powertube.....	805
Effective power.....	60 w/ch
Frequency range.....	20Hz~75KHz
Input sensitivity.....	1V
Input impedance.....	10K $\Omega$
S/Nratio.....	>95dB
Power consumption.....	300W
Power supply.....	100,120,220,230,240VAC
.....	50-60Hz(selected when shipped)
Load Impedance.....	4 $\Omega$ & 8 $\Omega$ (16 $\Omega$ option)
Externaldimensions	
Main unit.....	260W × 460D × 270H(mm)
.....	25kg
Powersupply.....	260W × 460D × 290H(mm)
Weight.....	40kg

# MD-805m

*Directly-headed Triode Single Ended Monaural Power Amplifier*



## Features

- ◆ This is a high output and high efficiency single ended mono power amplifier with 805 tubes.
- ◆ Chassis features a 10mm aluminum top plate for aesthetics and a thick, massive foundation for attaching components to optimize sound. The design offers the luxury aesthetics similar to the EC/HE series.
- ◆ This unit can give you aggressive sound by using our original IITC circuit.
- ◆ S/N ratio is improved by DC ignition of filament, eliminating capacitor from signal circuit. Real sound can be played by a composition of direct circuit and coupled transformers.

## Specification

Power tube.....	805
Effective power.....	55 w/ch
Frequency range.....	20Hz~55KHz
Input sensitivity.....	1V
Input impedance.....	10K $\Omega$
S/N ratio.....	>83dB
Power consumption.....	300W(each)
Power supply.....	100,120,220,230,240 VAC
.....	50-60Hz (selected when shipped)
Load Impedance.....	4 $\Omega$ & 8 $\Omega$ (16 $\Omega$ option)
External dimensions.....	260W $\times$ 460D $\times$ 270H(mm)
Weight.....	19kg(each)



# MD-300B<sub>m</sub>

*Directly-heated Triode Single Ended Monaural Power Amplifier*



## Features

- ◆ The monoblock design improves S/N ratio (Signal/Noiseratio), reduces cross-talk characteristic and improves channel separation.
- ◆ The large power transformer provides a generous power supply to each stage allowing the MD-300Bm to achieve a high quality sonic sound with a strong, stable image.
- ◆ The MD-300Bm implements a larger, higher quality output transformer compared to the stereo MD-300B to further improve the frequency response and offer a very wide, flat bandwidth for ultra high quality sonic purity and power.
- ◆ The MD-300Bm incorporates a very convenient switch on rear panel to lift the ground and reduce noise.
- ◆ The MD-300Bm AC connector is placed on the rear panel to reduce stress on high-grade, aftermarket power cables.
- ◆ The MD-300Bm uses a 10mm champagne gold chassis to provide high-quality sound as well as luxur.

## Specification

Power tube.....	300B
Effective power.....	10 w/ch
Frequency range.....	30Hz~60KHz
Input sensitivity.....	1V
Input impedance.....	100K $\Omega$
S/N ratio.....	>85dB
Power consumption.....	260W
Power supply.....	100,120,220,230,240VAC
.....	50-60Hz(selected when shipped)
Load Impedance.....	4 $\Omega$ & 8 $\Omega$ (16 $\Omega$ option)
External dimensions	
Main unit.....	260W $\times$ 460D $\times$ 270H(mm)
Power supply.....	260W $\times$ 460D $\times$ 290H(mm)
Weight.....	19kg(each)

# MD-300B

*Directly-heated Triode Single Ended Stereo Power Amplifier*



## Features

- ◆MD-300B is designed in pursuing of higher performance and new recognition of single-ended amplifier by employing 300B tube well known for its original capability of reproducing natural sound with full of musicality.
- ◆This amplifier reproduces pure sound field and clear image which is only possible by single-ended amplifier.
- ◆Direct coupling circuitry between the first and second stage without capacitor in order to keep maximum purity of sound quality.
- ◆6Y6 are employed in the second stage as triode operation.
- ◆Oriented-Highbee-core material are used in all transformers to ensure quality sound reproduction.
- ◆Filaments of tubes are supplied by well filtered DC current. In order to get clean plate current, MD-300B employs special Silicon-diode rectifiers which minimize noise.
- ◆Anti-vibration construction is incorporated in MD-300B.
- ◆We proudly present this new amplifier to the music lovers to meet their listening satisfaction for many years.

## Specification

Power tube.....	300B
Effective power.....	10 w/ch
Frequency range.....	40Hz~50KHz
Input sensitivity.....	1V
Input impedance.....	100K $\Omega$
S/N ratio.....	>80dB
Power consumption.....	250W
Power supply.....	100,110,120,220,230,240 VAC
.....	50-60Hz(selected when shipped)
Load Impedance.....	8 $\Omega$ (4 $\Omega$ & 16 $\Omega$ option)
External dimensions.....	265W $\times$ 420D $\times$ 200H(mm)
Weight.....	17kg

# PR-T1

## Linestage Preamplifier



### Features

- ◆ PR-T1 is a tube preamplifier which gives you enjoyment of music and luxurious feeling of controls.
- ◆ PR-T1 uses low-noise and highly reliable "JAN5814" tubes to achieve better quality and high efficiency.
- ◆ For better sound, sound signal circuit is made as two-step amplification circuit which is connected directly without a capacitor or a resistor.
- ◆ Separate power supply ensures the least magnetic noise from a power transformer. As a heater employs DC ignition system which prevents hum noise from the heater.
- ◆ Gold coated shield case for tubes reduces the noises from outside.
- ◆ Main chassis is precision machined from a 70 mm thick solid block of aircraft aluminum and detailed with an aesthetic champagne-gold finish.

### Specification

Frequency response.....	20Hz-100KHz ( $\pm 0$ dB)
Signal/Noise.....	85dB Over (with 0dB)
Output.....	1RCA 1XLR (Option: 2RCA Output OK)
Input.....	3RCA 2XLR (Option: 5RCA Input OK)
Output Impedance.....	RCA: 600 $\Omega$ XLR: 600 $\Omega$
Input Impedance.....	RCA: 600 $\Omega$ XLR: 600 $\Omega$
Distortion rate.....	under 0.5% / 5V Output
Power consumption.....	60W
Dimension.....	380W $\times$ 390D $\times$ 86H (mm)
Weight.....	15kg



Model : PS-X2(T)  
**Power supply**



Model : TR-B1  
**Power transformer box**



# PR-Z1

## Linestage Preamplifier



### Features

- ◆ Following the success of the WAVAC Audio Lab control amplifier PR-T1, the new PR-Z1 control amplifier continues in the pursuit of natural sound.
- ◆ PR-Z1 is a tube preamplifier which gives you enjoyment of music and luxurious feeling of controls.
- ◆ PR-Z1 uses low-noise and highly reliable tubes to achieve better quality and high efficiency.
- ◆ Separate power supply ensures the least magnetic noise from a power transformer. As a heater employs DC ignition system, which prevents hum noise from the heater.
- ◆ Gold coated shield case for tubes reduces the noises from outside.

### Specification

Frequency response	10Hz-80KHz(±0dB)
Signal/Noise	>95dB
Gain	0dB: 10V(Output Gain)
Output	1RCA 1XLR
Input	3RCA 2XLR
Output Impedance	RCA: 10KΩ XLR: 10KΩ
Input Impedance	RCA: 75kΩ XLR: 75KΩ
Remaining noise	under 0.3m (with no signal)
Distortion rate	under 0.5% / 5VOutput
Power consumption	60W
Power supply	100,110,120,220,230,240V
AV	50~60Hz(selected when shipped)
Dimension	W460xD483xH95(mm)
Weight	17kg



Model : TR-B1(Z)  
**Power transformer box**

### Specification

Power supply	100,110,120,220,230,240 VAC 50-60Hz (Selected when shipped)
Dimension	W144xD240xH142(mm)
Weight	5kg

# PR-X2

## Linestage Preamplifier



### Features

- ◆ The PR-X2 is a tube pre-amplifier with excellent operability and control functions.
- ◆ Cosmetically, the PR-X2 retains the slim body and stately wood front to appeal to the eye of the end-user. The champagne gold volume knob is large and easy to operate from the human engineering point of view.
- ◆ The input selector provides a very short signal path, with high quality gold contacts.
- ◆ For the convenience of the user, it has remote control selection of six inputs, volume control, plus on-off power of PR-X2.  
(The remote does not work for balance controls)
- ◆ PR-X2 has a separate power supply so that the main body is kept very thin. Only DC voltages are fed to the PR-X2 from the separated power supply, and the analog and digital power supplies are kept separate to reduce hum and noise.
- ◆ Even the CPU has been covered by a gold plated case for shielding to reduce noise from digital parts.
- ◆ Likewise, the tubes are also covered by gold plated shields which reduce induced noise and enhance the value of the pre-amp.

### Specification

Input terminal.....	Digital level × 3ch(unbalanced)
.....	Analogue level × 3ch(unbalanced)
Input sensitivity.....	Digital level input 2V/Analogue level input.....
.....	500mV
Input impedance.....	Digital/Analogue level input 100KΩ
Output terminal.....	Pre-out × 1ch(unbalanced)
.....	Pre out × 1ch(unbalanced)
Output level.....	Pre-out max 20V
.....	Pre-out 200mV
Output Impedance.....	Pre-out 10K Ω /Rec-out 47K Ω
Frequency range.....	20Hz~50KHz
S/N ratio.....	95dB
Power consumption.....	100W
External dimensions.....	420W × 400D × 85H(mm)
Weight.....	3kg(excluding separate power supply)
Additional feature.....	Remort control

Power supply.....	100,110,120,220,230,240 VAC
.....	50~60Hz(selected when shipped)
External dimensions.....	120W × 280D × 110H(mm)
Weight.....	7kg



Model : PS-X1  
**Power supply**

# LCR-X2

## Phono Equalizer Amplifier



### Features

- ◆ Phono Equalizer Amplifier, LCR-X2, basically designed by late Nobu Shishido uses the LCR element.
- ◆  $\mu$  follower circuit generates low output impedance (140  $\Omega$ ) which prevent inductive noises.
- ◆ Separate power supply ensures the least magnetic noise from power transformer. As heater employs DC ignition system which prevents hum noise from the heater.
- ◆ Gold coated shield case for tubes reduce the noises from outside.
- ◆ Phono Equalizer Amplifier, LCR-X2, has enough gain of 38dB. It is possible to use a passive attenuator.
- ◆ Main chassis is precision machined from a 70mm thick solid block of aircraft aluminum and detailed with an aesthetic champagne-gold finish.

### Specification

Vacuum tube .....	6DJ8 $\times$ 4
Input sensitivity/impedance.....	MM 2.5mV/47K $\Omega$
.....	MC-1 (high): 40 $\Omega$ (20-80 $\Omega$ )
.....	MC-2 (mid): 10 $\Omega$ (5-20 $\Omega$ )
.....	MC-3 (low): 2.5 $\Omega$ (1.25-5 $\Omega$ )
S/N ration.....	MM 80dB over MC 70dB over
Output impedance/level.....	140 $\Omega$ /1.6V(unbalanced)
Distortion rate.....	under 0.065 %/1V output(MM)
.....	under 0.1 %/1V output(MC)
Power consumption.....	40W
Dimension.....	380W $\times$ 390D $\times$ 86H(mm)
Weight.....	12kg



Model : PS-X2(L)  
**Power supply**



Model : TR-B1  
**Power transformer box**



# AC-2

## AC - Conditioner



### Specification

External dimensions.....	260W×460D×290H(mm)
Maximum capacity.....	500VA
Weight.....	30kg
Outlets.....	4 Outlets(includes ground lift switch)

### Features

We received great response for the performance of the AC-1. We have received many requests for a smaller AC conditioner for Pre amplifier and CD player, and so, the new AC-2 was developed.

WAVAC Audio Lab's 10th anniversary SH-833 Single-Ended Triode amplifier was developed based on advanced concepts including pure clear sound requires generous and pure AC source. As implemented in the reference level SH-833 amplifiers, the AC-1 conditioner is able to remove a wide range of noise to allow the true sonics of the music to be heard!

The WAVAC Audio Lab AC-1's Noise-Cut transformer was manufactured by DENKENSEIKI Laboratory Co. will remove noise that other noise-filters,

Isolation transformers and shield transformers are unable to eliminate. Typical noise-filter designs are not effective unless impedance balancing is taken between filter and power supply; and they always require ground connection.

Similar to the remarkable AC-1, the new, smaller WAVAC AC-2 utilizes a very high quality transformer that is custom designed to WAVAC's specifications to remove noise at the source. The AC-2's Noise-Cut transformer and Isolation transformer are completely isolated from the main power circuit and not affected by AC source noise. It's effective to over a 1Mhz in Normal mode noise and 0hz~100Mhz in common mode noise. As an added technical achievement to insure a pure, noise free operation, the AC-2 does not require to be grounded.

#### Construction Characteristics

Chassis: 10mm aircraft grade aluminum for a strong, rigid foundation, effective heat dissipation and low vibration to minimize transformer noise.

Outlets: 4 Duplex of user's choice. Standard duplex outlet is high quality Furutech.

# AC-1

## AC - Conditioner

### Specification

External dimensions.....	410W×430D×410H (mm)
Maximum capacity.....	2KVA(1400W)
Outlets.....	8 outlets
	(It's also include ground lift switch)
Weight.....	50kg



# ATT-S & ATT-Q

## Attenuator



### Specification

Inputs.....	5ch(unbalanced)	Frequency range.....	20Hz~100KHz
Input voltage limit.....	5V	Attenuation.....	65dB max
Input/Output impedance.....	10K $\Omega$	External dimensions.....	250W $\times$ 275D $\times$ 80H(mm)
Output.....	1ch(unbalanced)	Weight.....	5.7kg

### Features

- ◆ATT series passive attenuator consist of a high-quality molded wafer switch with gold contacts serving as the source selector and a precision attenuator for volume control.
- ◆H pad attenuator circuit offers a constant source and load impedance of 10k ohms for solid input/output termination .



### Specification

Input terminal.....	5ch(unbalanced)	Frequency range.....	20Hz~100KHz
Input voltage limit.....	5V	Attenuation.....	65dB max
Input/Output impedance.....	10K $\Omega$	External dimension.....	265W $\times$ 275D $\times$ 80H(mm)
Output.....	1ch(unbalanced)	Weight.....	4.97kg

光  
と  
聴  
く



*WAVAC Audio Lab CO.,LTD.*

1404-26 NAKADA-MACHI YONEZAWA-SHI  
YAMAGATA 992-0011 JAPAN  
TEL.+81-238-37-6800 FAX.+81-238-37-6801

URL <http://www.wavac-audio.jp/>