

Aavik
ACOUSTICS

High-End Amplifiers





“As I turned the volume slowly upward, it wasn’t long before I was simply blown away”

Since the first Aavik U-300 Integrated Amplifier was introduced few years ago, some of the most recognised high-end magazines have had a hard time putting their experiences with the Aaviks into words. Think that is what new things that is beyond the ordinary does to you - challenge your beliefs. Creating the Aavik Amplifiers, it was never our intention to challenge peoples beliefs - on the contrary the Aaviks are created to fulfill our desires for musicality, to give you the ultimate musical experience! We have the deepest respect for the reviewers, we have trouble finding the words our selves.



Aavik 300 series

Starting out with creating the integrated U-300 amplifier, the 300 series has become a reference to everything we do. Though the amplifiers are technically classified most differently, there is few things that tie the models together as a family. Beside utilising what we have learned during the development process, most technologies we have invented come into action in all the Aavik 300 models. And perhaps most significantly, the simple and functional design which gives you the best cooling there is, and an elegantly designed user interface, making the models of the Aavik 300 series nice and easy to handle - less is more!



Aavik 150 series

Originally the idea with the Aavik 150 series was to offer a series of high-quality products in a more modest price range, offering a platform to start building a high-end system - with our “no-compromise” approach in development we cannot claim that we succeeded in doing this. Though the design is significantly different, in silk satin finish, horizontal cooling grills and a large led display on front, we utilize the experience and pretty much, the same technologies as we use with our 300 series. The Aavik 150 series products has become much better than the price tag claims.

U-300

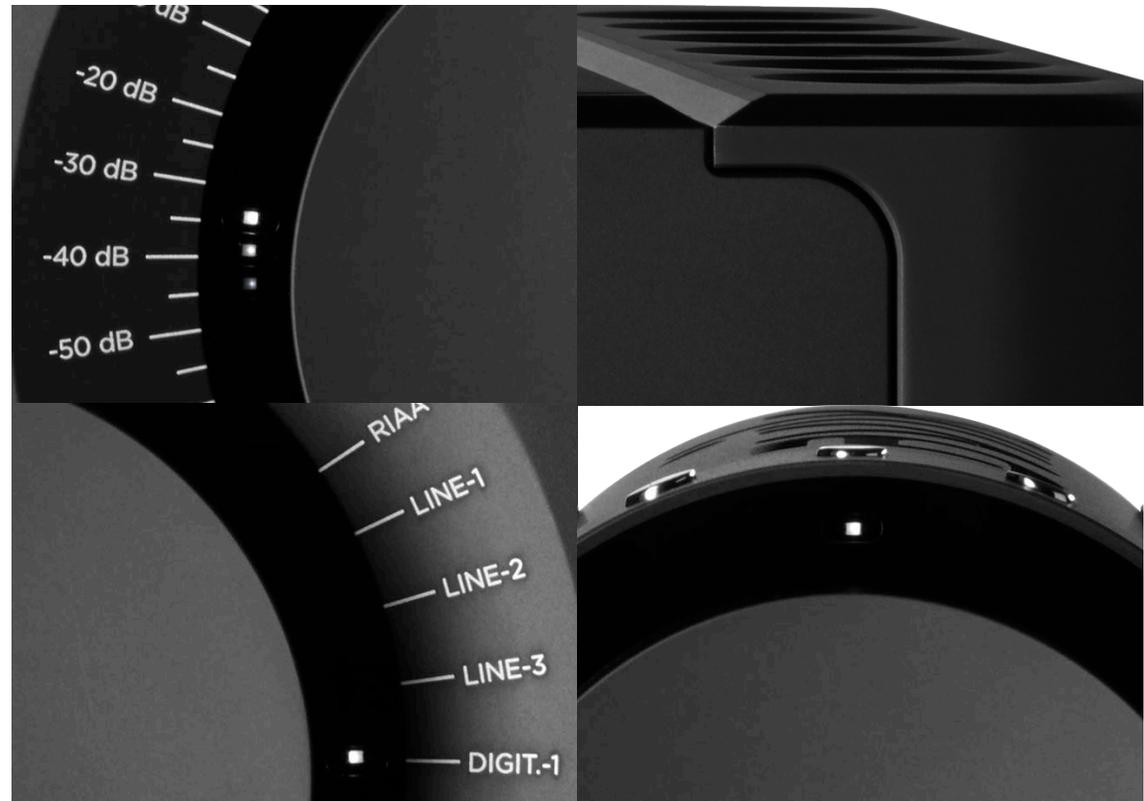
"It was almost too easy to set up the U-300. It weighs slightly less than 40 pounds, so I had no problem moving it around."



Aavik U-300 Integrated Amplifier

In the high-end audio industry, the different audio components are commonly built as separate boxes: one box for the phono amplifier, another box for the digital to analog converter, a third box for the preamplifier section and one or more separate boxes for the output stage.

Therefore, one important concept behind the Aavik U-300 -"U" for Unity - was to unite state of the art functions and components into one single, compact, high performance unit. This new amplifier would allow you to enjoy high-end performance, without having to live with numerous, odd-sized boxes and a forever-growing cable snake pit. With the Aavik U-300, you get one unit that has it all. You do not just get an amplifier; you also get 3 analog line inputs, a truly unique performing phono RIAA section and a superb 24 bit/192 kHz DAC.



Another important reason why we chose "U" for "Unity" is because the Aavik U-300 is a joint project between the designer behind the the high performance cables of Anszu Acoustics, Michael Borresen, and some of the best analog and digital designers that the world has to offer. This ensures that the Aavik U-300 is an integrated amplifier, which is in the top of its league!



P-300

“The P-300, all the power your music need - and then some...”



Aavik P-300 Power amplifier

The Aavik P-300 features a unique 150 W efficient Class A, non-switching output section where the bipolar output devices never stop conducting current. This means that the amplifier circuitry never has to deal with residuals such as switching spikes and device latching.

The Aavik P-300 has an ultra short and simple signal circuit design, where all gain and feedback is performed by a single transistor pair. This short signal path gives the Aavik P-300 a unique gain structure with extremely low

distortion and a more than 90-degree phase margin for absolute amplifier stability.

The Aavik P-300 has four 600 W power factor corrected resonant mode power supplies. The in total 2400 W power supply combined with the extremely large electrolytic power banks allow the Aavik P-300 to deliver peak currents in excess of 80 A.

C-300

“The C-300, like the conductor in an orchestra”

Aavik C-300 Preamplifier

The C-300 is equipped with two built-in DACs (PCM and DSD) and a phono section. It also comes with three line inputs and RCA and XLR outputs.

The phono section of the Aavik C-300 will let you explore the amazing details and musical depths of your vinyl collection!

The Aavik C-300 comes with two DACs: one for PCM digital formats and one for DSD formats.

The USB input is galvanically isolated to avoid noise pollution from the host. This isolates the signal path from the potential GND noise and signal induced GND modulation.

The Aavik C-300 line stage uses a unique, inverted, virtual GND amplifier topology, which preserves the finest musical details on a dark, quiet, black background. The line stage has two inputs with 9 dB gain and one line input with 6 dB gain.

The volume control is realized with microprocessor-controlled resistor-ladder (R2R) circuit inside the feedback loop of a virtual GND amplification stage. The volume control regulates from -80 dB to 0 dB in approx. 1 dB steps.



Connections

The Aavik C-300 directs the signals for almost any unit in the music system, with overview and superiority.

Plug in interconnects, analogue or digital, with RCA, XLR or USB connectors - the C-300 will handle any challenge with ease.



M-300

“Aavik M-300, impressive in looks and performance”

Aavik M-300 Mono power amplifier

The Aavik M-300 features a unique non-switching efficient Class A output section where the bipolar output devices never stop conducting current. This means that the short feedback loop in the amplifier circuitry never has to deal with switching spikes and device latching.

The Aavik M-300 has an ultra short and simple signal circuit design, where all gain and feedback is performed by a single transistor pair. This short signal path gives the Aavik M-300 a unique gain structure with more than 90-degree phase margin for absolute amplifier stability.





The M-300 has four 500W power factor corrected resonant mode power supplies. The 2000W total power supply combined with the extremely large electrolytic power banks, allow the Aavik M-300 to deliver peak currents in excess of 80A.





Aavik U-150 Integrated Amplifier

In standard configuration the Aavik U-150 amplifier have three line inputs. You have the option of adding a DAC section (PCM-DSD) and/or a MC-phono stage to the mix.

The Aavik U-150 includes a powerful 2x300W output section, making it a full featured High-End Audio system all in one box.



U-150

“The Aavik U-150, performing like much, much more...”



The Aavik 150 series is developed on all the experiences gained by the development and production of the highly praised Aavik 300 series and as thus, it carries most of the Sonic DNA from its famous larger siblings.

The sleek and sporty exterior design of both models gives you very simple and intuitive controls and a clear and easy to see dot-matrix display - everything straight forward to operate.

C-150

“When the C-150 takes control, things really get going...”

The Aavik C-150 is build with a lot of the same topology as our reference Preamp C-300. It too uses the special Aavik microprocessor controlled resistor-ladder, volume control and the inverted, virtual GND amplifier technique.

In comparison with the U-150 we have give the C-150 more and better separate power supplies, bringing the dynamics and details to a higher level. Naturally, we couldn't resist adding more Ansz Tesla Coils to create an even darker background to the music.

C-150 uses the same DAC and MC phono sections that are available for the integrated U-150 but with the better power supplies behind them, they to perform significantly better.





The Aavik DAC

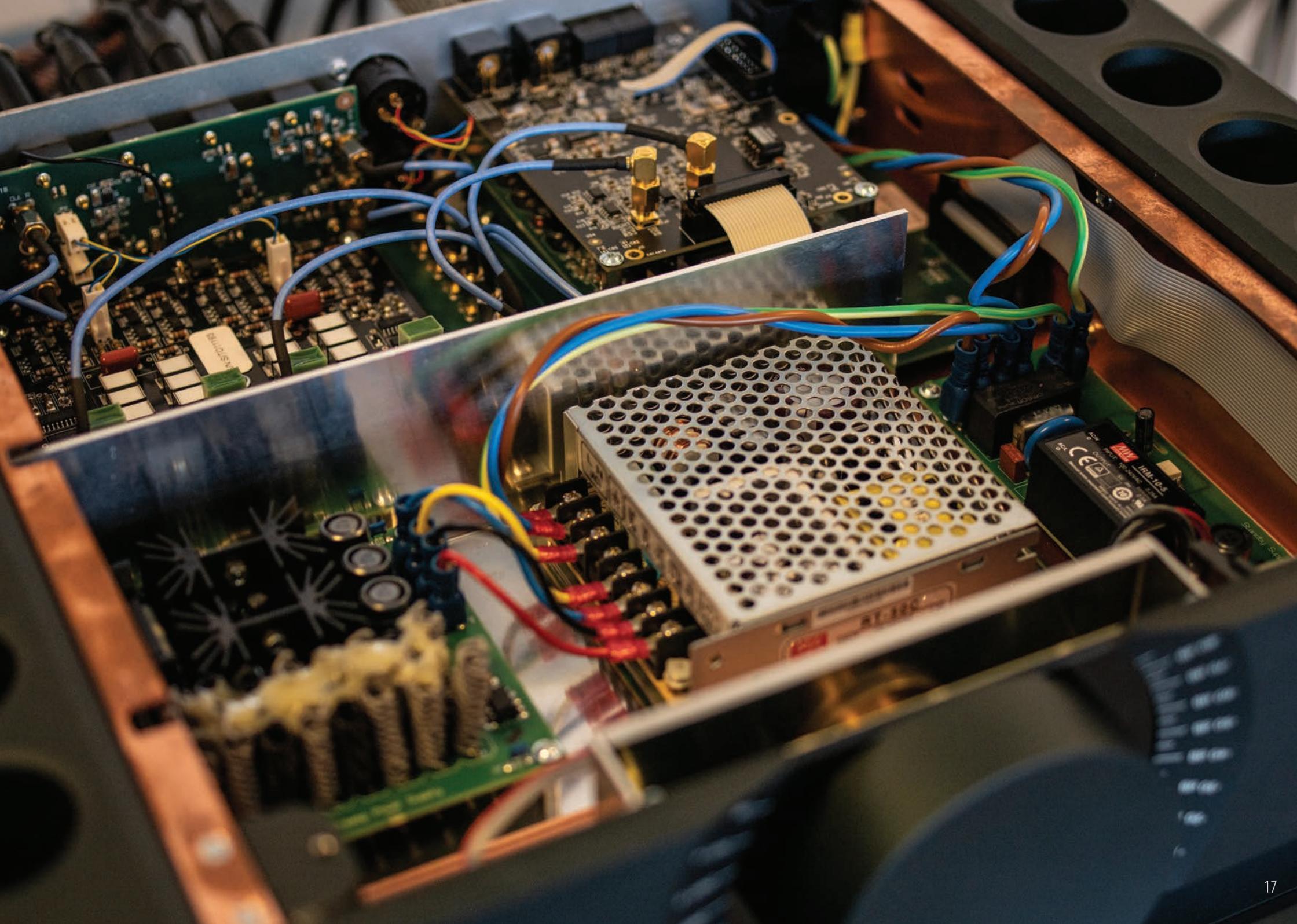
The Aavik DAC section is designed around 5 digital inputs, which all excel in performance. The DAC performs without any digital signature, which makes any music sound “analog”. The digital circuits are created with the best high frequency skills tools available and great care was embedded in the PCB design. We made a lot of effort to ensure we have a 100% equal treatment of the differential signals, with time-aligned, ultra-short, 4-layer PCB traces. The DAC’s circuits are fitted with ultra-low jitter onboard clocks in order to minimize timing errors in the digital-to-analog conversion. In the Aavik U-300 all DAC circuits are isolated with 13 onboard, separate low-noise, high-PSSR voltage regulators each feeding only one stage of the signal handling.

The USB input is galvanic isolated to avoid noise pollution from the host. The digital signals from the 5 digital inputs are routed to an ASRC, where they are resampled and re-clocked to 200 kHz/24 bit PCM, feeding current output DAC chips. The current-to-voltage conversion is performed with a differential floating topology with virtual GND. This isolates the signal path from the potential GND noise and signal induced GND modulation.

The Aavik RIAA / Phonostage

The Aavik RIAA section is based on a discreet, floating, balanced, ultra-low noise, bipolar input circuit. By nature, the topology of a moving coil cartridge is a floating, balanced signal generator. We have kept this floating, balanced circuit topology throughout the phono stage. The floating input circuitry allows us to use ultra-low noise, bipolar transistors. By paralleling several transistor pairs, we have created a dead-quiet input section. The phono stage has a 62 dB gain, and the cartridge loading is adjustable from 50 ohm to 5 kOhm.

The Aavik phono section will let you explore the amazing details and musical depths of your vinyl collection!





P-150

“The Aavik P-150 power amplifier performs much more powerfull that it looks”



The internal wiring is top of the line Ansuz cable technology. That, together with a large number of active Tesla Coils truly makes the P-150 “the Dark Prince of music”.

Aavik P-150 Power amplifier

We really do love the 300W Class D power module designed for the reviewer praised U-300. Then we couldn't live without it in the downscaled U-150, even though we would have preferred something less costly.

Now the same modules has become the heart of this new P-150 power amplifier.

Now, with better and stronger power supplies, it clearly shows its full potential.



THE SKY

In Denmark we have a saying: "There is no such thing as bad weather, if you wear the right clothes" Sun, Rain, Snow, Wind, the Danish climate has it all. The Sky changes through the year from different shades of grey to black to different shades of blue.

THE SEA

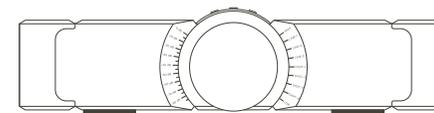
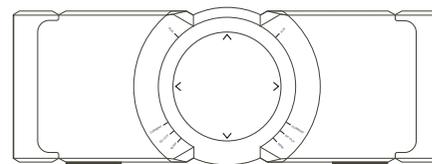
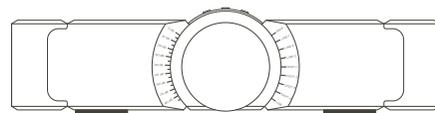
Denmark is surrounded by sea with only mainland border to Germany, more than 8000 km of seashores has made people want to explore the world by sailing out to sea. The strong forces of the sea has taken its toll of our forfather seamen.

THE LAND

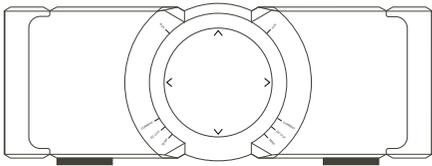
Of course the many Kilometers of sealine and the seasons change of climate makes people close to nature wherever they go in Denmark. The tranquil experience found in nature serves as an inspiring contrast to our modern and busy living in the cities - all senses are put in play when we stand up to the wind, seeking shelter for the rain, adapt and invent.







	U-300 Integrated amplifier	P-300 Power amplifier	C-300 Preamplifier
Output	2 x 300 W/8 ohm, 2 x 600 W/4 ohm Distortion: <0.005% (THD+N: 1-100 W / 8Ω) IMD<0.0008% TIM<0.002% (10W, 8Ω)	1 set copper binding posts	1 set gold-plated RCA - Output impedance: 50Ω 1 set XLR balanced - Output impedance: 100Ω
Inputs		2 XLR, 2 RCA	
Input impedance		11kΩ (XLR), 12kΩ (RCA)	
Power rating		Power rating 8Ω: 150W, 0.01% THD Power rating 4Ω: 300W, 0.01% THD	
Frequency response	+/-0.15dB (20-20 kHz)	0.1 Hz to 150 kHz	+/-0.15 dB (20-20 kHz)
Gain	62 dB	28 dB	Gain 70 dB @ 1 kHz
Distortion		<0.005% 10W, 1kHz, 8Ω	
Output impedance		<0.001Ω	Output impedance: 50Ω
Damping factor		>8000	
Phono	Floating RCA (1 set) Load-impedance adjustable from 50 ohm to 5 kΩm; Noise < -100dB re @ 2V out Distortion < 0.01% (20-20 kHz) RIAA correction curve		Floating RCA (1 set) Load-impedance adjustable from 50Ω to 5KΩ Noise Distortion <0.01% (20-20 kHz) RIAA correction curve
Line	Line 1, Line 2, Line 3 Gain adjustable in 3 steps (0, 6, 12 dB) Input impedance: 10 kΩm		Gain (line 1-2): 9 dB, maximum input: 2.5V RMS Gain (line 3): 3 dB, maximum input: 5V RMS Input impedance: 10KΩ
Digital	2 x RCA SPDIF (32 – 192 k-samples, 24 bit) 2 x TOSLINK optical (32 – 96 k-samples, 24 bit) 1 x USB fully isolated, UAC 2, asynchronous (PCM 32 – 192 k-samples, 24 bit)		2 x RCA SPDIF (32 – 192 k-samples, 24-bit) 2 x TOSLINK optical (32 – 96 k-samples, 24-bit) USB fully isolated, UAC 2, asynchronous USB: PCM 32 - 192 k-samples, 24-bit, DSD 64 - DSD 128
Volume control	Volume adjustable from -100 dB to 0 dB in 80 1 dB steps		Volume adjustable from -80 dB to 0 dB in 80 one dB steps
Power consumption	Standby = 0,5W Idle = less than 100W	Standby = 0,5W Idle = less than 100W	
Dimensions (WxDxH)	440 x 370 x 100 mm	440 x 480 x 133 mm	440 x 370 x 100 mm
Weight (kg)	16,5	35,0	16,5



M-300 Mono power amplifier	U-150 Integrated amplifier	P-150 Power amplifier	C-150 Preamplifier
1 set copper binding posts	2 x 300W 8 ohm, 2 x 600W 4 ohm Distortion (THD+N): <0.006% (1-100W, 1kHz, 8 ohm) IMD: <0.002% (1-100W, 4 ohm) TIM: <0.008% (1-100W, 4 ohm)	1 set copper binding posts 2 x 300W 8 ohm, 2 x 600W 4 ohm Distortion (THD+N): <0.006% (1-100W, 1kHz, 8 ohm) IMD: <0.002% (1-100W, 4 ohm) TIM: <0.008% (1-100W, 4 ohm)	2 pairs of RCA outputs Max output: 7.5Vrms Distortion, line stage: <0.005% (THD at 1kHz, 1V input) Output impedance: 50 ohms
1 XLR, 1 RCA Input sensitivity: 1.45V RMS		2 XLR, 2 RCA	
11kΩ (XLR), 12kΩ (RCA)		20kΩ (XLR), 10kΩ (RCA)	
8Ω: 290W, 0.01% THD 580W, 0.01% THD			
0.1Hz to 150kHz	+/-0.5dB (20Hz-20kHz)		+/-0.5dB (20Hz-20kHz)
30dB	60dB (adjustable to 70 dB in 5 x 2 dB steps)	26 or 32 dB	65-75dB adjustable in 2dB steps
<0.005% 10W, 1kHz, 8Ω			
<0.001Ω			
>8000			
	Floating RCA input (1 set) Load resistance adjustable from 50 ohm to 10 kohm Noise -90dB re 2V out Distortion <0.02% (20Hz-20kHz) RIAA correction curve		Floating RCA input (1 set) Load resistance adjustable from 50 ohm to 10 kohm Noise -90dB re 2V out Distortion <0.02% (20Hz-20kHz) RIAA correction curve
	3 inputs Input impedance: 10kOhm Gain adjustable in 5 2dB steps		3 inputs Input impedance: 10kOhm Default gain: 9dB Gain (input 1 and 2): 5-15dB adjustable in 2dB steps Gain (input 3): 1-11dB adjustable in 2dB steps
	2 RCA S/P-DIF inputs (32-192kHz, 24 bits) 2 TOSLINK S/P-DIF inputs (32-96kHz, 24 bits) USB galvanically isolated, UAC2, asynchronous (PCM 32-196kHz, 24 bits, DSD64 and DSD128)		2 RCA S/P-DIF inputs (32-192kHz, 24 bits) 2 TOSLINK S/P-DIF inputs (32-96kHz, 24 bits) USB galvanically isolated, UAC2, asynchronous (PCM 32-196kHz, 24 bits, DSD64 and DSD128)
	80 1dB steps		80 1dB steps
	Standby: <0.5W Idle: <50W	Standby: < 0.5W Idle: <30W	Standby: <0.5W On: <20W
440 x 480 x 133 mm	440 x 370 x 88 mm	440 x 370 x 88 mm	440 x 370 x 88 mm
35,0	15,0	15,0	14,0

