USER GUIDE

TYPHON-X



SHUNYATA RESEARCH

THANK YOU!

Congratulations on your purchase of the Shunyata Research Typhon-X power distributor. Shunyata Research power products are used by many of the finest recording studios, mastering engineers, recording artists and electronics manufacturers worldwide.

Chances are that some of the music you listen to and the equipment that you own was produced using the Shunyata Research products as part of the reference system or mastering system.

Thank you for choosing us to be a part of your system.

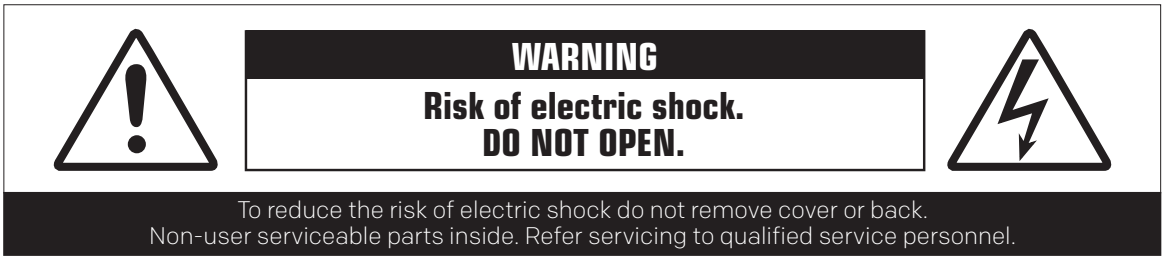
Caelin Gabriel

President

IMPORTANT SAFETY INFORMATION

WARNING: POTENTIALLY LETHAL VOLTAGES INSIDE!

THERE ARE NO USER-SERVICEABLE PARTS INSIDE. REFER ALL SERVICE TO SHUNYATA RESEARCH SERVICE DEPARTMENT (or an Authorized Distributor).



CHECK VOLTAGE RATING
Verify the maximum voltage rating listed on the side of the box and on the unit before applying power.

WATER
This unit is NOT water proof. DO NOT submerge unit in water or any other fluid. DO NOT operate unit in an environment of water condensation. DO NOT operate unit with standing water on the floor.

INPUT POWER REQUIREMENTS
This unit requires a properly installed AC Mains power connection. Ensure that the AC polarity is correct and that a safety ground is present. DO NOT operate this unit with a cable that has the ground pin disconnected. DO NOT operate this unit with a cheater plug that disables the safety ground connection. DO NOT operate this unit without a grounded outlet.

CONTACT ENHANCEMENT FLUIDS
Contact fluids, pastes, and gels are NOT recommended for use with this device. Many of these types of products leave a residue that can contaminate or damage the contact metals over a period of time. The products labeled as silver-bearing grease or silver-impregnated silicon are particularly harmful. Some of these are difficult or impossible to remove. Damage caused by these products will void your warranty! Never attempt to clean the contacts inside the outlets. If you wish to clean the external contacts, use CAIG DeoxIT® or DeoxIT® GOLD

CRYOGENIC TREATMENTS & BURN-IN DEVICES
This unit has been treated with KPIP v2™, a proprietary process developed by Shunyata Research. DO NOT connect this unit to a burn-in device, as doing so will degrade performance and sound quality.

DO NOT cryogenically treat Shunyata Research products. Cryogenic treatment will damage plastic connectors and degrade insulation, shortening the life of the product. CRYOGENIC TREATMENT WILL VOID YOUR WARRANTY.

READ ALL WARNINGS *and* INSTRUCTIONS BEFORE OPERATING THIS UNIT

UNPACKING

KEEP PACKING MATERIALS
Keep all the packing materials. If you need to ship the unit, you must use the original boxes and protective inserts. Shipping without the original materials will void the warranty and you may not be entitled to claim shipping insurance losses if the unit was improperly packed!

If your packing materials are missing or damaged contact Shunyata Research Customer Service for replacements.

DO NOT plug in the unit until you have read the complete instructions!

TECHNOLOGY AND FEATURES

The Typhon-X features patented technologies and proprietary components that are simply unavailable in other products. Typhon power distributors supply power to multiple components while reducing noise from the power line and intercepting *component-to-component* noise.

DTCD® DESIGNED *(Dynamic Transient Current Delivery)*
The Typhon-X was designed using the DTCD® analyzer. DTCD® Analysis is a technique that measures instantaneous current through low impedance electrical conductors and contacts. Shunyata Research uses it to optimize the design, specification and construction of parts and materials to ensure maximum current delivery performance.

CCI™ NOISE REDUCTION
Traditional power conditioners are designed to block incoming noise from outside the home but do not address the noise that is generated by the electronic components themselves. In fact, most conditioners reflect noise back into other components connected to the power conditioner. CCI™ (*Component-to-Component Interference*) is one of the most significant but often overlooked aspects to power system performance. The CCI™ filter consists of a proprietary multi-stage filter that reduces electrical noise and power supply generated interference.

QR/BB™ AND NIC™ NOISE REDUCTION
The NIC™ (*Noise Isolation Chamber*) is a patented technology that reduces high frequency power line noise. NICs™ use a non-reactive *ferroelectric* substance that actually absorbs high frequency noise. This allows Typhon power distributors to reduce noise without any of the negatives associated with conventional power conditioner designs. Patented QR/BB™ technology dramatically reduces the sense of dynamic compression often heard when an amplifier is connected to a conventional power conditioner. Dynamics are actually improved when an amplifier is connected to the Typhon even when compared to a direct connection to the wall outlet. *[US Patents: 10,031,536 B2 and 8,658,892]*

ZONES OF ISOLATION

Typhon-X features three dedicated zones of isolation that significantly reduce CCI™ (Component-to-Component Interference), allowing digital and analog components to operate with minimal cross-contamination. This intelligent layout supports a wide variety of system configurations, preserving sonic and visual fidelity by isolating the noise profile of each component group.

TAPc

TAPc (Transverse Axial Polarizer) is a patent-pending technology that couples to the electromagnetic field surrounding the electrical conductors. It acts as a polarizer, passively reducing electromagnetic distortion that presents as a glare in sound or images. The sonic impact of TAPc is unmistakable: a profound drop in perceived noise floor, effortlessly portrayed dynamics, and an exceptional rendering of timing and coherency. These improvements are unique to TAPc and remain unmatched by any competing technologies. Even casual listeners often recognize the effect immediately, and results are consistently repeatable across a wide range of components and systems. Essentially, the TAPc modules act as force multipliers, elevating the listening experience to levels many would not have thought possible.

CGS CHASSIS GROUND NOISE REDUCTION

The Typhon-X includes a Chassis Grounding System (CGS) terminal that serves as a centralized grounding point for electronic components in the system. Connecting component chassis to this common ground can eliminate system hum caused by ground loops. The CGS terminal also provides the optimal connection point when tying grounds between multiple power distributors or integrating an Altaira grounding hub into the system.

HIGH CURRENT CAPABILITY

The Typhon-X power distributor has a 30-amp continuous rating, ensuring unfettered power delivery to entire systems, including high-powered amplifiers. Advanced electromagnetic breakers combined with massive 6-gauge VTX-Ag™ wiring maximize dynamic contrast and bass impact.

HYDRAULIC ELECTROMAGNETIC BREAKER

Common power conditioners use fuses or thermal breakers for over-current protection. When heavily loaded, those devices cause voltage drops, increased contact impedance, thermal noise, excessive heat generation, and current-limiting effects. The Typhon-X uses a more advanced solution called a *hydraulic electromagnetic breaker* that can operate right up to the maximum current rating without the limitations of fuses or thermal breakers.

CopperCONN® OUTLETS

All commercial grade connectors and virtually all audiophile grade connectors are made from a brass or bronze base metal. Some audiophile grade connectors may get a plating of nickel, silver, gold or rhodium which is only a few millionths of an inch thick. The Shunyata Research CopperCONN® is constructed using s*olid, high purity, oxygen-free copper* as the base metal with a flash coating to protect the copper from oxidation. The CopperCONN® (US & AS models) outlets and connectors are designed to provide superior grip strength and contact integrity. This contributes to a measurable improvement in DTCD® performance and a correspondingly obvious difference in audible performance.

AMPHENOL INLET AND OUTLET

The Typhon-X employs military-grade custom Amphenol connectors for its power inlet and dedicated high-current output. Precision-made to Shunyata Research's exacting specifications, these robust 30-amp-rated connectors enhance instantaneous current delivery through ultra-low-resistance terminal junctions.

VTX-AG™ CONDUCTORS

Shunyata's VTX-Ag™ conductors are uniquely constructed with both an inner, center conductor made of pure silver and an outer concentric ring conductor made of pure copper. It's made using the finest fluorocarbon insulation to minimize dielectric absorption and re-radiation which translates to an improvement in resolution and clarity. VTX-Ag™ delivers the speed and clarity of silver and the midrange warmth and three dimensional power in the lower octaves of copper without imparting any of the negatives associated with either metal. ~ *The best qualities of silver and copper combined.*

VIBRATION MANAGEMENT

Mechanical vibration can be very destructive to system performance. The Typhon-X was designed from its inception to include advanced forms of vibration control that improve the recovery of subtle musical detail and nuance. All chassis panels and internal structures are treated with vibration dampening panels. Each outlet is isolated from the chassis with a vibration-dampening gasket (US only) that reduces vibration conducted through the AC cables. All internal modules, filters, and electronics are encapsulated in a vibration-absorbent compound.

SSF-38 SHUNYATA FOOTER

The Typhon-X includes Shunyata Research's SSF-38 isolation footers specifically designed to reduce vibration from the supporting platform. Power distributors react very similarly to amplifiers in relationship to floor borne vibration. After researching multiple forms of energy dissipation methods, Shunyata Research developed the SSF-38 to provide the performance characteristics of an expensive after market isolator but at a fraction of the cost.

KPIP v2™ PROCESSOR

Each Typhon-X is treated with Shunyata Research's proprietary Kinetic Phase Inversion Process (KPIP v2™). Four-days of continuous KPIP v2™ processing dramatically reduces the sonic ups and downs associated with burn-in, delivering a relaxed and natural presentation.

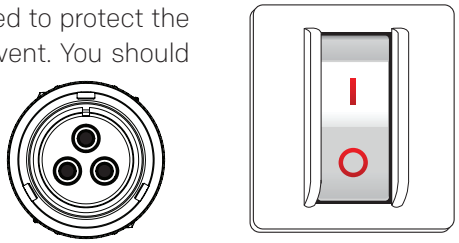
CRYOGENIC TREATMENT

Many of the electrical components in the Typhon-X are treated in Shunyata Research's own advanced computer-controlled cryogenics lab. Further cryogenic treatment of the unit is strongly discouraged, and will void your warranty.

CONNECTIONS AND POWER UP

THE ELECTROMAGNETIC BREAKER

This is NOT a master ON/OFF switch. The breaker is designed to protect the unit and the components in the event of an over-current event. You should NOT use it to turn your system ON and OFF.



OFF POSITION

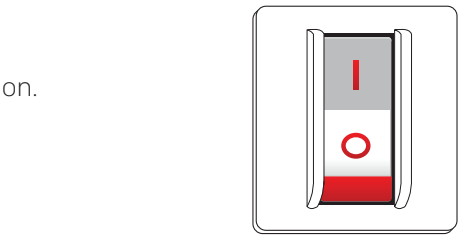
AMPHENOL

THE POWER CORD

This device requires our amphenol terminated power cord (T30 or T30-X power cord).

POWER UP SEQUENCE

1. Put the breaker in the OFF position.
2. Plug the amphenol power cord into the unit's inlet.
3. Ensure all electronic components are in the OFF position.
4. Plug each component into an available outlet.
5. Put the breaker in the ON position.
6. Turn each of the components on.



ON POSITION

POWER DOWN AND DISCONNECTION

WARNING: DO NOT PULL THE PLUG

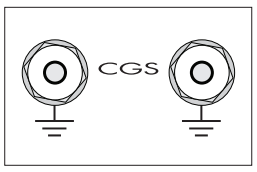
DO NOT ever pull the unit's power cord from the wall outlet while the system is operating. This unit carries very high currents and pulling the cord may cause a large arc that may damage the power cord contacts, the wall outlet and potentially the unit's inlet connector.

To remove the unit from the system, reverse the previous procedure.

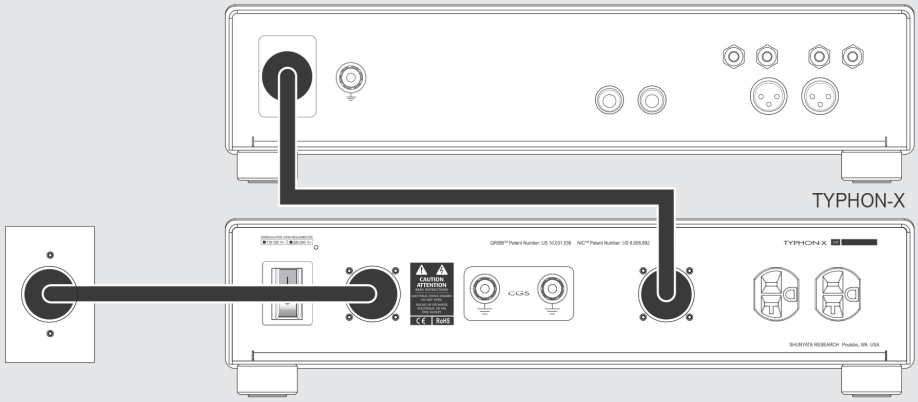
- Turn OFF each connected component.
- Turn the unit's electromagnetic breaker to the OFF position.
- Unplug each of the power cords attached to the unit.
- Unplug the unit's power cord from the wall outlet.

CHASSIS GROUNDING SYSTEM

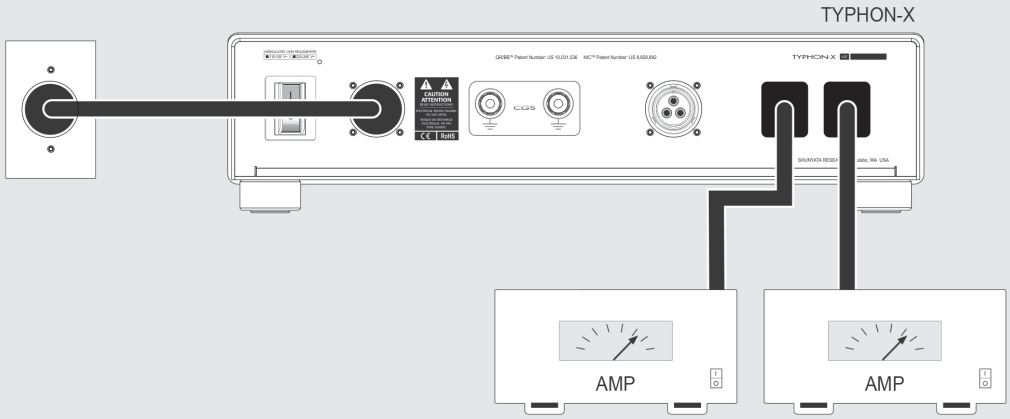
The Typhon-X includes two Chassis Grounding System (CGS terminals that serve as centralized grounding points for electronic components in the system. Connecting component chassis to this common ground can eliminate system hum caused by ground loops. The CGS terminals also provides the optimal connection point when tying grounds between multiple power distributors or integrating an Altaira grounding hub into the system.



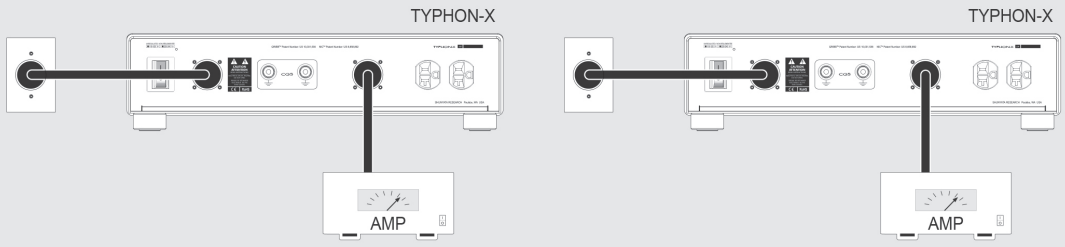
HIGH-POWERED AMP, RECORDING CONSOLE, POWERED MONITOR OR GUITAR AMP



WITH MONOBLOCKS



WITH MONOBLOCKS ON SEPARATE DEDICATED LINES



APPLICATIONS

The Typhon-X supercharges the performance of high-current amplifiers or other power hungry components. The more demanding the current draw, the greater the difference Typhon-X makes in perceived slam, dynamics and the sheer visceral sense of raw power. The Typhon-X can also be used as a stand-alone, three-component power distributor. Two standard outlets, on the back of the Typhon-X, can power two source components or a preamplifier while the proprietary Amphenol outlet delivers high-current power to an amplifier, recording console, powered monitor or guitar amp.

TYPHON-X POWER CABLES

The Typhon-X requires a purpose-built, Amphenol-terminated power cable to provide AC from the wall outlet or to connect high-current components to its specialized Amphenol output. Two models are available: the T30 and T30-X. Both use Shunyata Research's reference-grade 6-gauge VTX-Ag™ conductors and feature a flexible construction that allows for easy routing and a wide range of AC termination options. These cables can also be custom-terminated with specialized connectors for 30-amp wall service or for high-current amplifiers from manufacturers such as D'Agostino and Boulder.

The T30-X cable adds Shunyata Research's proprietary TAPc (Transverse Axial Polarizer) technology, housed within a carbon-fiber module at the connectors. TAPc reduces electromagnetic distortion, lowering the perceived noise floor while improving timing, dynamics, clarity and resolution.

PERFORMANCE OPTIMIZATION

SETTLING TIME

The Typhon-X is constructed using massive wiring and heavy-duty contacts throughout. It was treated with Shunyata Research's exclusive KPIP v2™ process. This significantly reduces the amount of time required for burn-in. However, the unit will improve in performance over a period of time. Allow several days of settling time while the unit is continuously powered and under load to achieve best performance. We recommend using 100-watt lamps or small fans during the settling period.

MOUNTING PLATFORMS

Ideally the Typhon-X should be placed on a proper shelf, amp stand or solid platform. A heavy plank of hardwood or a granite slab also works well.

AC WALL SOCKETS

It is strongly recommended that you replace the wall outlet with a high quality commercial grade unit. A standard wall outlet is usually not ideal for high current applications. There are many audiophile-grade outlets that are plated with a variety of metals including silver, gold, rhodium and others. Our experience is that these do not provide significant improvement over a quality commercial grade outlet for US models. (We recommend the Hubbell model 5362 outlet for better performance. *Recommended 30A wall outlet: L5-30 30A 125V.)*

AC SERVICE REQUIREMENTS

This product is designed for high-current applications which require a dedicated AC power outlet capable of providing 16-30 amps of continuous current. For the US we recommend a 120VAC 20A or 30A dedicated line to the breaker. In the EU a high-capacity power line should be installed for use with the Typhon-X.

OTHER POWER COMPONENTS

Use of Shunyata Research power distributors in conjunction with other manufacturers' power distributors, conditioners, or regenerators is strongly discouraged. Conditioners and regenerators can be highly reactive and may degrade the performance advantages built into the Typhon-X.

SPECIFICATIONS

TRANSIENT SUPPRESSION
- Maximum transient protection: 40,000 A @ 8/50 µs

OVER-CURRENT PROTECTION
- Hydraulic electromagnetic breaker

WIRING SYSTEM
- 6 gauge ArNi® VTX buss system
- Ratings: 600 V 105° C

NOISE SUPPRESSION
- Input to Output (100 kHz - 30 MHz): > 50 dB reduction
- Zone to Zone (100 kHz - 30 MHz): > 40 dB reduction

TECHNOLOGY
- TAPc
- QR/BB™
- KPIP v2™ Processing: 4-days
- NIC

AMPHENOL OUTLET
- 30A @ 125 VAC
- 20A @ 240 VAC

ISOLATION ZONES
- 3 zones

VIBRATION CONTROL
- Vibration dampening panels (internal)
- AC outlet dampening gaskets (US only)
- Shunyata isolation SSF-38 footer

CONSTRUCTION
- All aluminum chassis
- Anodized, brushed aluminum faceplate

DIMENSIONS
Width: 17 inches (43.2 cm)
Depth: 10 inches (25.4 cm)
Height: 4.4 inches (11.2 cm)
Weight: 17.5 lbs (7.95 kg)

	US/AS	EU	UK
MAXIMUM VOLTAGE	90-125 VAC (US) 220-240 VAC (AS)	220-240 VAC	220-240 VAC
INPUT CURRENT RATINGS	Max. continuous current: 30A	Max. continuous current: 16A	Max. continuous current: 16A
OUTPUT CURRENT RATINGS	NEMA 2-20 outlets: 20A	CEE7/3 socket: 16A	BS 1363 socket: 13A
CONNECTORS	Two NEMA 5-20R	Two CEE7/3	Two BS 1363 (3 Pin)

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