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Congratulations on your purchase of your new *AcoustiLock* Noise Reduction Cabinet!

Your *AcoustiLock* cabinet incorporates the latest Noren Products heat removal and air flow technology. The result is a noise free environment, while keeping your equipment safe, clean, and cool. For use in the home, at the office, or in a studio, you will be amazed at the difference and quiet convenience the *AcoustiLock* cabinet adds to your workspace.

Please read this entire instruction packet before proceeding to the installation of your equipment.



Quick Setup

Remove all packaging and plastic protective wrapping and discarded in the proper manner. Take care not to throw away any essential instructions, parts or any accessories you may have purchased.

Open the package with the AcoustiLock Air Intake Filter, read the instructions and install the filter. The filter can be easily removed, vacuumed or rinsed clean of dust and dirt with warm water, then pressed between two towels to dry or air dry completely, then reinstalled.

We recommend you install any Noren Products' accessories before rack mounting your equipment.

Your *AcoustiLock* cabinet is now ready to go, just open the rear door, pull out the power cord(s) and plug in! Before mounting your equipment however please read both Watt Limits and Heat Removal 101 below.

Watt Limits

You need to know your watt limits. The watt limit or 'capacity' of this *AcoustiLock* cabinet is 1600 watts. This means the *waste heat*, rated in watts, of the electronics you install cannot exceed 1600 watts.

Know the waste heat in watts of your equipment before closing the door on your AcoustiLock cabinet otherwise your equipment may run too hot!

The *waste heat*, in watts, is the actual watt consumption of your equipment when running normally, and allows the equipment to run at maximum capacity as well. Overpowering your *AcoustiLock* cabinet with too much *waste heat* may cause the internal temperature to rise above manufacturer's specifications. Most equipment runs at an internal temperature between 110 -140°F (43.3 - 60°C). Temperatures of 20°F or more are not good for your electronics.

This AcoustiLock cabinet is rated at and will remove up to 1600 watts of waste heat.

Heat Removal 101 – Waste Heat:

Many customers confuse *waste heat wattage* and *maximum power consumption wattage*. Maximum total wattage capacity of your system is printed in manuals and on the equipment back panel, near your power supply. Your system will never run for long at this capacity; usually it will run at about 50% of that maximum rating. Example: If your power supply is rated at 600 watts, your average waste heat will be 300 to 500 watts with short peaks (10-20 seconds).

Caution: Do not exceed watt limitations of your AcoustiLock cabinet; it could result in damage to your equipment!

The *AcoustiLock* cabinet was designed with the space-conscious user in mind. You can back the cabinet up against a wall without a worry, as long as nothing is directly covering the underside rear intake or top side exhaust ports, air will flow easily. *Sufficient air flow is essential for proper heat removal.*

Installing Your Equipment

You may now rack mount all your electronic equipment. The rack rails are isolated from the cabinet to prevent 'vibration coupling', which eliminates transmission of your equipment noise and vibration to the outside of the cabinet, and then to your working environment.

You are free to rack mount equipment wherever is most convenient. For the best rack stability, place heavier equipment on the bottom.

Please Take Note.....

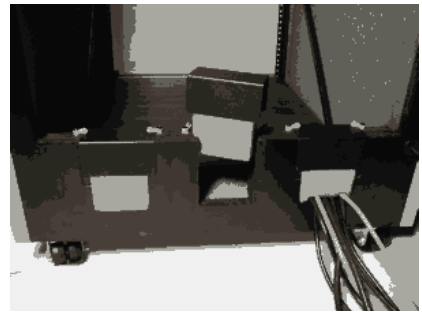
When mounting your rack mount equipment, fill all the rack spaces with either equipment or blank panels. After installing your equipment, fill the open rack spaces with cardboard, plastic rack panels, or blank face plates (available from Noren Products). **Leave no "rack u" spaces open.** This will insure your equipment receives cool ambient intake air.

You will also find two pre-installed 1u grills, one at the top and one at the bottom of the *AcoustiLock* rack. *Do not remove or block these; they are necessary for proper balance of air circulation within the cabinet.*

Remember: To insure proper air flow through your equipment, you must install blank panels to fill all open rack spaces. This is especially important if your equipment generates more than half the rated waste heat capacity for this cabinet.

Cabling

Running cables from your equipment, out of your *AcoustiLock* cabinet could not be easier! Open the rear door and see that your cables can be routed through our simple and effective Cable Ease channels. To open up a channel, simply turn the two gray tab-switches holding the channel insert down, pull up on the foam channel cap, to remove. You may now lay your cables into the channels as you work (see picture). Each channel will manage an estimated 2" bundle of cables. When one channel fills up, move on to the next one. Three channels are provided, allowing you to separate your power and data cords, or to organize anyway you wish!



When all of your cables have been routed, compress the foam channel caps back into the channel, and re-secure with the gray tab-switches. When you close the door you will see how this design dramatically eliminates noise, and prevents dirt and dust from entering the cabinet. For this reason we recommend that you keep the Cable Ease foam caps in their channels at all times.

Placement of your AcoustiLock cabinet

Place the *AcoustiLock* cabinet wherever free flowing air is available to the enclosure. Do not put your cabinet, with equipment running, inside a room that can not maintain the normal equipment operating temperature. The *AcoustiLock* keeps your equipment cool by using ambient room air.

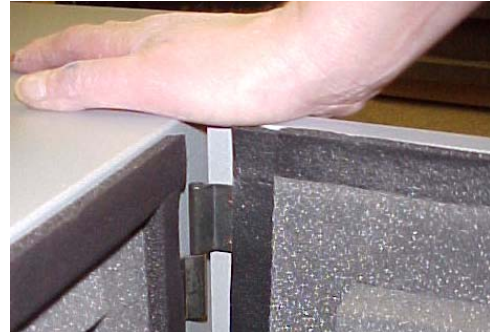
Be aware that this cabinet draws air in through a portal located on the underside of the cabinet and exhausts air through portals located at the front top on each side of the cabinet. **Do not block any of these portals. Air circulation is essential for proper heat removal from inside your cabinet.**

Place your *AcoustiLock* cabinet in the area of the room where you intend to use it, and plug the *AcoustiLock* cabinet power cord into any 115AV outlet. The internal circulation fans on the *AcoustiLock* cabinet draws only 80 watts.

Removing the Doors from your AcoustiLock cabinet

Sometimes it is easier to mount and work with your electronics, without the doors getting in the way and swinging back and forth. This is easily solved with the *AcoustiLock* cabinet because the doors just slip off! To remove a door, open it almost fully and lift directly up. If it sticks, a slight tap "up" should release it off the pins.

To reattach, begin with the door open enough so as not to damage the gasket, carefully align the hinge pins, top and bottom together, then press down firmly. The door should slip into the hinge receptacles. If the hinges stick, press the door firmly down into place. It may even be necessary to move the door back and forth a bit to allow the pins to slip down more smoothly. Refer to the following pictures.



Removing and Cleaning your Air Intake Filter

Each cabinet has an intake filter; located at the rear underside of the cabinet. To access it, go to the rear of the cabinet, reach down under the cabinet (below the Cable Ease channels) and at about 4 inches in, you will feel a square cut away with filter foam. The filter is attached with a bit of Velcro in each corner. To remove the filter foam, just pinch it and pull it out. Vacuum it, dust it off, or rinse it out and let dry, then replace by pressing it into its original opening.

Caution: Do Not

Do not put your *AcoustiLock* cabinet in a closet, or a closed room with no air circulation, the room temperature will eventually rise as *waste heat* is exhausted into it causing the internal cabinet temperature to rise. Depending on the room size this could take hours, days, or weeks but *think ahead*, it is best to be safe.

Do not block air circulation to the inside or outside air portals of the *AcoustiLock* cabinet; it breathes from these ports. *Air circulation is essential!!*

Do not place exposed heater elements on the foam, it is fire retardant but could cause smoke.*

*The materials used to manufacture the *AcoustiLock* cabinet are UL certified but you must still use common sense.

Do not stand on the *AcoustiLock* cabinet, it is sturdy but it is on wheels and may move at any time.

For vCab Cabinet Users: Do Not

Do not rack mount more than the recommended weight of 10lbs on the sliding 3u; such as an I/O panel. This small section of sliding rack may not be able to handle heavier weight.

Yes, Please Do!

Please do place monitors or a keyboard on top of the *AcoustiLock* cabinet. The external surface is resistant to scratches and chips, *but be careful*, a monitor may cause damage if dropped or dragged.

Daily Use

Once your *AcoustiLock* cabinet is properly set-up and plugged in, you can run it with the doors closed 24 hours a day if you wish. Opening or closing either front or rear door will have little to no effect on waste heat extraction, but will definitely allow the noise to escape. You can even remove the doors if you are in a cramped space and need frequent access to your equipment – refer to “Removing the Doors from your *AcoustiLock* cabinet” section on page 4 of this document.

Total dB reduction will vary depending on *how much* and *what type* of equipment you place in your *AcoustiLock* cabinet. You can expect noise reduction of between 30-33dB – that’s over 99%!

Now just sit back and enjoy the silence; *hear yourself think, different!!*

If you have any questions or comments, feel free to contact us at:

AcoustiLock Sales and Support: (650) 322-9500 or acoustilock@norenproducts.com

For more information visit us at:

www.norenproducts.com

