



# oCab

## **Congratulations on purchase of your new oCab acoustic enclosure!**

Your oCab incorporates the latest Noren Products heat removal and air flow technology. The result is a noise free working 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 oCab 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.

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

## Watt Limits

You need to know your watt limits. The watt limit or 'capacity' of this oCab is 2000 watts. This means the *waste heat*, rated in watts, of the electronics you install cannot exceed 2000 watts.

*Know the waste heat in watts of your equipment before closing the door on your oCab 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 for it to run at maximum capacity as well. Overpowering your oCab with too much *waste heat* may cause the internal temperature to rise above manufacturer's specifications. Although most equipment runs at an internal temperature between 110 -140°F (43.3 - 60°C) temperatures of 20°F or more is not good for your electronics.

*The oCab is rated at and will remove up to 2000 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. If your power supply is rated at 600 watts, your average waste heat will be 300 watts with short peaks (10-20 seconds) to 500 watts.

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

## 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.....***

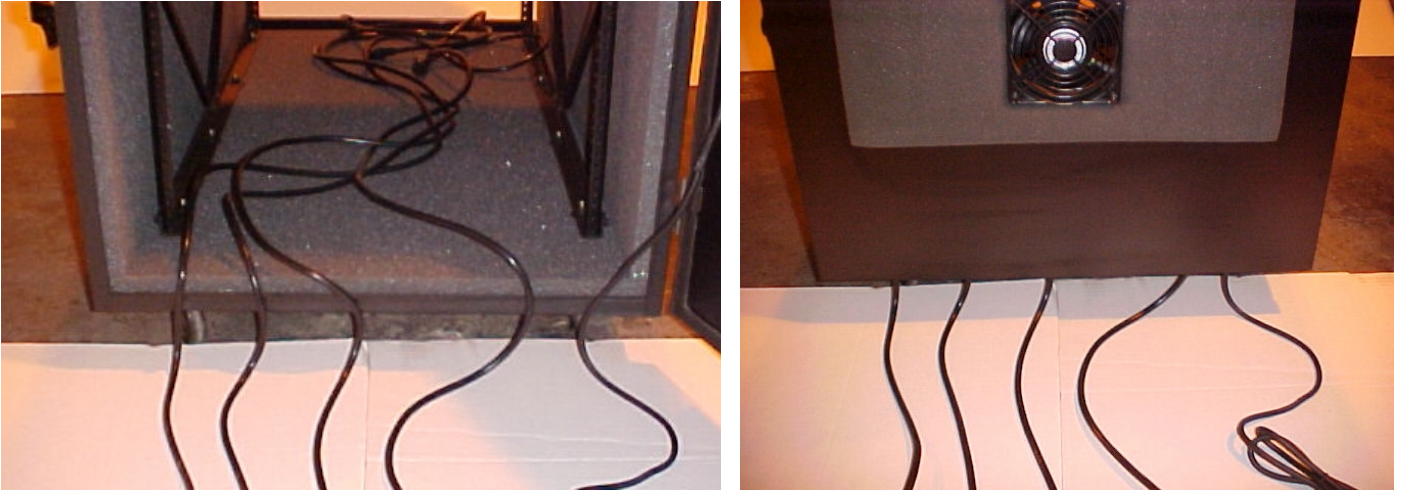
When mounting your rack mount equipment, fill all the rack spaces with either equipment or blank panels. After installing your equipment, fill the open rack spaces with cardboard, plastic rack panels, or blank face plates (available from Noren Products). **Leave no "rack u" spaces open.** This will insure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

*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

Once your equipment is installed in the oCab, hang the cables out the rear door opening. Use the Velcro strips provided to hold your cables in place from inside to outside as they pass across the bottom rear door gasket. Refer to the pictures below.



Unwind the power cord from inside the rear door, and plug the oCab into the wall before closing the doors for the last time, then let your oCab do the rest!

## Placement of your oCab

Place the oCab anywhere free flowing air is available to the enclosure. Do not put an oCab, with equipment running in it, inside a room that can not maintain the normal equipment operating temperature. The oCab keeps your equipment cool by using ambient room air.

Place your oCab in the area of the room where you intend to use it and plug the power cord into any 115AV outlet. The oCab internal circulation fan draws only 20-40 watts.

## Fan Speed Adjustment

Once plugged in the fans on your oCab will run at a pre-set, medium-speed. This can be adjusted to high-speed, and your electronics may run cooler but the fans will be much louder. The fans may also be adjusted to low-speed and your fans will run much slower and your equipment inside may run hotter.

**Caution: Do not make fan speed changes unless absolutely necessary. Switching to a slower speed may cause damage to equipment due to overheating inside the cabinet.**

**You are completely responsible for the running temperature of your equipment should you choose to adjust the fan speed.**

The fans are set at medium speed at the factory. To speed them up follow these procedures, do *not* set them slower. Grab the knob, turn it counterclockwise (left) you will feel one 'click' or 'notch', and you will hear the fans speed up to full speed. To slow the fans back down to the standard medium setting you follow the same procedure, in reverse, one 'click' to the right.

## Removing the Doors from your oCab

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 oCab 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. Keep in mind that the air exhaust happens only when the rear door is attached, therefore, you do not want to run your equipment in the oCab without the rear door secured in place and locked.

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 the Air Intake Filter

The oCab enclosure has one filter; located inside the front of the cabinet. 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 oCab in a closet, or a closed room with no air circulation; the room temperature will eventually rise as *waste heat* is exhausted into it, then the internal cabinet temperature will 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 on the inside or outside ports. *Air circulation is essential!*

Do not block the air from coming in or exhausting out of the bottom of the oCab, it breathes from the bottom. If you look underneath you will see these ports with their removable and washable filters.

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

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

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

### Yes, Please Do!

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

Please do stack a second oCab on top when you expand. Use the optional Stacking Kit.

## Daily Use

Once your oCab is properly set-up and plugged in, you can run it with the doors closed 24 hours a day if you wish. Occasional opening or closing of the front door will have little to no effect on waste heat extraction, but will definitely allow the noise to escape. **You will need to keep the rear door closed though to ensure heat removal.**

Total dB reduction will vary depending on how much, and of what type of equipment, you place in your oCab. You can expect the noise reduction to be between 16-20dB – that's over 88%!

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:

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