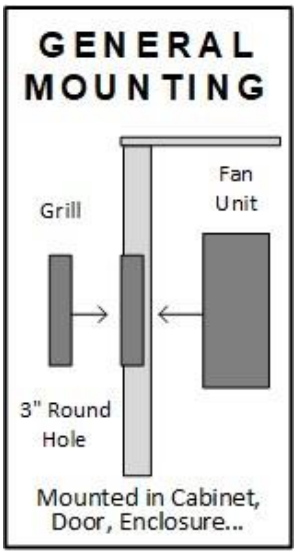
HiFlo & HiFlo Lite Pro (VS-HF/HFL-PRO) Installation Instructions

These are multi-purpose unit used for either venting or for spot cooling. The units are self-contained and the fan unit can be configured to pull air in either direction depending on the application. It can also be used as a set top cooler as well and the fans can be easily reversed for changing the direction of the airflow. For venting most often want to exhaust air, for spot cooling, air should be blown away from the component, not into.



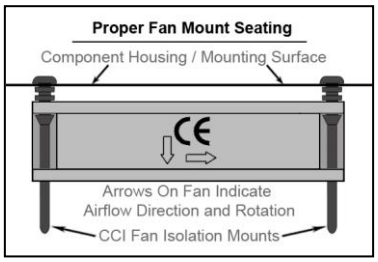
Installation Planning

- **Determine the Application for the Unit.** Will it be used for venting or for set top cooling? If used for set top cooling, the installation is very simple, attach the supplied rubber feet in the mounting holes, trim the tabs on the feet once installed, and place on a component. We always recommend pulling air off and away from a component instead of blowing into a component so you may have to reverse the airflow which is done by removing the fan, flipping it over, and re-installing it (there is an arrow on the side of the fan indicating direction of airflow). If the unit will be used for venting, continue with the instructions below. When venting the unit by default is configured to exhaust air.
- **General Consideration.** Consider when using the unit for ventilation that the unit will be installed on the inside of the cabinet, or if using in a door, the back of the door. The grill is mounted to the face of the cabinet or door. This makes the installation incredibly easy because alignment is simply based on your desired location and then ensuring the fan unit is installed over the opening for the grill.
- **Determine Appropriate Position and Mounting Option.** For cabinets it is normally recommended to exhaust air rather than to draw air into the cabinet. For best results the unit should be located high in the cabinet and clear of any obstructions from equipment, wires, etc. For installation in doors or other surfaces, also consider how you will run the power wire. (Refer to step #4 below for mounting options)

Installation Procedure for Cabinetry

1) **Mark Hole for Cutout.** Based on your planning and desired aesthetic, mark the center point where the hole for the grill will be and using a piece of tape may make it easier. If it is not critical and you know the general area to install the unit, move onto the next step.
2) **Cut the Hole.** For HiFlo Lite, use a 3" round hole saw and for HiFlo (2 fan unit) use a 4" saw. Cut the hole starting from the outside (most critical area aesthetically) and best practice is to cut the hole about halfway from one side and then finish cutting it from the other, this will prevent excess chipping. Real damage to the wood will likely occur if drill from the inside and push through to the outside so start from the outside first!

   NOTE: The opening does not have to match the profile of the fan, in other words, more than enough air can move through a 3" hole for the HiFlo Lite and 4" hole for the HiFlo.

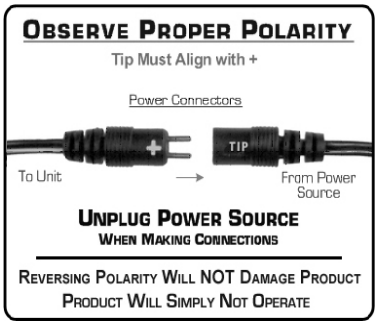


3) **Fan Direction.** By default the unit is configured to exhaust air so if wish to pull air into the cabinet, you will need to reverse the airflow which is accomplished by simply removing the fan, flipping it over, and re-securing the fan mounts using the diagram for proper fan mount orientation. It is best when removing the fan to start with one corner and when reassembling needle nose pliers may help as well.
4) **Installing Unit (Fan Assembly & Grill).** The fan unit is mounted in the inside of the cabinet using the 4 screws provided. Mount the unit over the hole and secure with the screws. Once the fan unit is installed, if using the round insert/recessed grills, simply insert the grill into the hole and

if it is a little loose, a small amount of silicone can be used to secure it. If using the rectangular grills, simply screw it in place ensuring the grill is level and fully covers the opening.

5) **Run Power Wire.** Determine the path for the power wire to ensure it will not get caught on any obstructions and also so it is neat and out of the way. Use the items in the included wire management package for nicely routing and securing the power wire.
6) **Connect Power Wires.** While running the power wires simply connect the fan unit to the power supply wire ensuring to follow polarity by matching with + (See Diagram - Observe Proper Polarity).
7) **Power the Units.** On the power supply and if using a variable voltage power supply, turn the voltage up to 7 or 9 volts using the adjustment on the power supply and then plug it into a power source. Some power supplies have an indicator light indicating that it is powered up. Once plugged in, the fan unit should now be running.

   NOTE: If the unit does not run once plugged in, ensure the power output is not set below 5V and that polarity is correct



8) **Adjust Airflow & Noise.** At this point you want to adjust the voltage so the unit is quiet but still effectively cooling. This setting will normally be 7 or 9 volts. The unit can be run at 5 volts but is not intended to run at 12 volts unless noise is not a consideration.
9) **Options.** These units can also be used with all Cool Components Inc. low voltage temperature controllers or can be switched on and off using a switched outlet on the equipment. The controllers plug inline between the power supply and fan assembly. This unit is compatible with the TC-ALT (on/off/variable speed), TC-ASC (all the bells & whistles) and the TC-BSC units (on/off only). When using the TC-ALT controller, set the power supply to 12v but with the BSC units you can still set the power supply to the desired fan speed for when the fan is running.
10) **Maintenance.** This unit has been designed to be a 'lifetime' product. This means the housing can be used indefinitely and with minimal care and maintenance, the product should truly last a lifetime. The fans can be easily replaced and are designed to last 5 or more years depending upon use. Once the life of the fans has expired, replacement fans can be purchased and easily installed. The unit should be cleaned and cleared of dust at least once a year.

Unit Not Working?

If need to troubleshoot issues during installation please call 813-322-3814 or email support@coolcomponents.com

Do not Return Damaged or Defective Products to Point of Purchase. If the unit arrived non-functional or damaged, we will resolve the issue quickly and hassle-free. Proof of Purchase may be required. Contact us on the web at: www.coolcomponents.com/warranty

Warranty Information

This unit is guaranteed to be free of defects for a period of three years from the date of purchase. This warranty excludes damage caused by misuse or for applications other than the intended use of the products. The power supply is warranted for 1 year.

Feedback

We truly value feedback on this and all of our products. We strive to provide the best products possible so it is important that we learn from our customers. If you have any ideas or suggestions that could improve this or any of our other products, please let us know. Thank you in advance for sharing your experience. Please send feedback to *feedback@coolcomponents.com*