



# Your PDF Guides

You can read the recommendations in the user guide, the technical guide or the installation guide for NILFISK CFM 3156. You'll find the answers to all your questions on the NILFISK CFM 3156 in the user manual (information, specifications, safety advice, size, accessories, etc.). Detailed instructions for use are in the User's Guide.

**User manual NILFISK CFM 3156**  
**User guide NILFISK CFM 3156**  
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## Safe-Pak™ Installation Instructions: CFM 3156

Thank you for your purchase of the Safe-Pak for the CFM Model 3156 vacuum system. Please be sure to read these instructions thoroughly before operating the 3156 vacuum in conjunction with this Safe-Pak Kit.

**WARNING:** This Safe-Pak Kit is designed to be used for the collection of dangerous and potent materials. It is the responsibility of the end user to comply with all of the applicable procedures mandated for the specific material that is being handled. Proper disposal must also comply with local environmental and safety procedures.

### Checking Phase Rotation of the Vacuum:

The first and most important step in using the Safe-Pak is to make sure the rotation of the motor is correct so that the vacuum will draw air into the inlet rather than blowing air out.

**WARNING:** It is important to check this rotation prior to each use of the Safe-Pak. Any collected debris within the Safe-Pak could be blown out of the container if the rotation of the vacuum motor is incorrect.

To check the rotation simply wire the vacuum to the appropriate electrical source by either using a quick connect electrical plug, or by hard wiring the electrical cord to an electrical circuit. A licensed electrician must perform this operation.

Once this is complete, simply turn the vacuum unit on by turning the red radial switch (Photo 1) in the clockwise direction. The on (I) position of the switch is at 12 o'clock, while the off (O) position is at 9 o'clock. Once the machine has been turned on you will be able to tell if the vacuum is in the proper rotation by placing your hand over the exhaust tube (Photo 2). If your machine has a downstream HEPA filter, the air will exhaust from the area shown in Photo 3.

If you detect that air is blowing out from either of these two places, then the vacuum is in the proper rotation and is ready for further preparation for use. If you do not detect air exhausting from either location pictured in Photo 2 or 3, then the vacuum motor is rotating in the reverse direction and needs to be corrected.

This phase rotation problem only occurs when dealing with motors running on three-phase electrical power. If you have a vacuum system that is running on single-phase power the rotation problem should not occur. However if you detect that air is not exhausting properly from the locations pictured in Photo 2 or 3, please contact our Customer Service Department at 1-800-NILFISK.



Photo 1



Photo 2



Photo 3



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**Manual abstract:**

Please be sure to read these instructions thoroughly before operating the 3156 vacuum in conjunction with this Safe-Pak Kit. **WARNING:** This Safe-Pak Kit is designed to be used for the collection of dangerous and potent materials. To check the rotation simply wire the vacuum to the appropriate electrical source by either using a quick connect electrical plug, or by hard wiring the electrical cord to an electrical circuit. A licensed electrician must perform this operation. Once this is complete, simply turn the vacuum unit on by turning the red radial switch (Photo 1) in the clockwise direction. The on ( 'I' ) position of the switch is at 12 o'clock, while the off ( 'O' ) position is at 9 o'clock. Once the machine has been turned on you will be able to tell if the vacuum is in the proper rotation by placing your hand over the exhaust tube (Photo 2). If your machine has a downstream HEPA filter, the air will exhaust from the area shown in Photo 3. If you detect that air is blowing out from either of these two places, then the vacuum is in the proper rotation and is ready for further preparation for use. If you do not detect air exhausting from either location pictured in Photo 2 or 3, then the vacuum motor is rotating in the reverse direction and needs to be corrected.

This phase rotation problem only occurs when dealing with motors running on three-phase electrical power. If you have a vacuum system that is running on single-phase power the rotation problem should not occur. However if you detect that air is not exhausting properly from the locations pictured in Photo 2 or 3, please contact our Customer Service Department at 1-800-NILFISK. Photo 1 Photo 2 Photo 3 If your vacuum is powered by three-phase electricity, changing the rotation is fairly easy. You simply need to exchange the position of two of the leads from the electrical cord to where they are terminated, either in the electrical plug or the hard-wired electrical circuit.

You can exchange any of the two leads as long as one of them is not the ground connection. Your vacuum should be ready to be used with the Safe-Pak. These components are pictured in Photo 4. The bolt fastens the plate to the shaft underneath (Photo 7). The plate will need to be placed on top of these washers.

The Safe-Pak should be placed atop the plate once again and tested to see if the gaps and leaks are sufficiently closed. Photo 7 It may be possible that no washers are needed or that only one washer is needed instead of the two supplied with the kit. There are slight variances in the manufacturing of the vacuums, so we have supplied two washers to handle all possible scenarios. It may be necessary to test the Safe-Pak under all three scenarios (no washers, one washer, or two washers) and determine which will allow the tightest seal yet still allow the operator to easily rotate the lever to lock the Safe-Pak in place. Once you have determined what scenario works best, the machine should be permanently set up to be used with the Safe-Pak at any time and should not require further adjustment when a new Safe-Pak is purchased. The final step for installing the Safe-Pak is to mount the inlet plug to the machine. The inlet plug seals the original orifice of the 3156 vacuum, so that the air must come in by way of the inlet on the Safe-Pak itself. The inlet plug includes a lanyard that allows the plug to be permanently fastened to the vacuum, yet still allows the operator to remove it from the orifice when needed. The lanyard should be attached to the inlet using one of the screws that fastens the inlet to the housing of the vacuum, as shown in Photo 9. The plug itself is inserted into the orifice until it 'snaps' into place.

Your CFM Model 3156 vacuum is now ready to be used with a Safe-Pak. The inlet plug must be disconnected from its orifice. If you have any questions or concerns with the installation of a Safe-Pak, please feel free to contact our Customer Service Department at 1-800-NILFISK. Thank you for your continued interest in Nilfisk's line of industrial vacuums. .



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