



BLOWER FILTER, SILENCER, BAFFLE



Hauck Filter-Silencer mounted on a Hauck Blower.

The Hauck Filter-Silencer Series is engineered for use with any conventionally designed blower having an 8, 10, 12, 14, or 18 inch inlet diameter. The models in this series provide both inlet air filtration and noise level attenuation while imposing minimal pressure drops on the blower system. The silencer design provides effective sound attenuation in the 50Hz to 10,000Hz frequency range. A studded flange is provided for proper attachment to the inlet flange of Hauck blowers. An optional 125 lb. flange pattern is also available.

INSTALLATION:

1. Remove the blower air inlet guard, if present.
2. Ensure that the stud pattern on the end of the filter/silencer (F/S) matches the pattern on the blower air inlet. F/S patterns are available for Hauck blowers and in the standard 125 lb. flange pattern. In some cases, four additional holes must be drilled in the blower inlet flange to accommodate the F/S accessory. **When drilling, ensure that the blower casing is not damaged.** The gasket supplied with the unit may be used as a template if necessary.

These instructions are intended to serve as guidelines covering the installation, operation, and maintenance of Hauck equipment. While every attempt has been made to ensure completeness, unforeseen or unspecified applications, details, and variations may preclude covering every possible contingency. **WARNING: TO PREVENT THE POSSIBILITY OF SERIOUS BODILY INJURY, DO NOT USE OR OPERATE ANY EQUIPMENT OR COMPONENT WITH ANY PARTS REMOVED OR ANY PARTS NOT APPROVED BY THE MANUFACTURER.** Should further information be required or desired or should particular problems arise which are not covered sufficiently for the purchaser's purpose, contact Hauck Mfg. Co.

3. Bolt the F/S accessory to the inlet flange of the blower. Ensure that the gasket is properly positioned to provide a tight seal. To facilitate the installation of filters and filter-silencers, remove the filter element and end cover before attaching the unit to the inlet flange. To remove these elements, accomplish the following:

- A. Unscrew and remove the threaded knob located at the center of the end cover.
- B. Remove the washer and end cover.
- C. Remove the filter element.

CAUTION

Be careful not to damage the gasket material on the end cover and on the steel shell.

4. Properly position the accessory's supporting leg (Hauck supplied if required). The length of this leg must be adjusted to bear most of the weight of the silencer. **Do not allow the entire weight of the F/S accessory to be supported by the flange of the blower casing. Do not cantilever the accessory from the blower inlet flange.**

5. Reinstall the filter element and the end cover. For maximum effectiveness, it is recommended that the following procedures be used.

- A. Dip the new filter in oil and allow it to drain thoroughly. Use SAE 10-30 oil when ambient temperatures are below 70°F and SAE 30-50 oil when temperatures are above 70°F.

CAUTION

Make sure all excess oil has drained from the element before reinstalling it on the blower. Combustible vapors drawn into a blower supplying air for combustion can cause serious explosions.

- B. Install the filter.
- C. Ensure that the piece of galvanized pipe embedded in the polyurethane foam liner of the end cover is in place. This element prevents damage to the end cover caused by over-tightening.
- D. Install the end cover, washer, and threaded knob.

6. Turn the impeller BY HAND to ensure that the mounting accessory has not caused the blower case to contact the impeller.

OPERATION:

The filter element serves as an inlet guard. Operating the blower without the filter element in place is not recommended. If operation without the filter is necessary, an inlet guard should be installed to protect personnel and prevent foreign objects (rags, paper, etc.) from being drawn into the air system.

MAINTENANCE:

As the filter element becomes coated with dirt it does not significantly impede the air flow, but it does begin to lose its filtering efficiency. Cleaning of the filter element is dependent upon the specific application, but it is recommended that the filter element be cleaned on a regular basis per a plant-established preventive maintenance schedule.

Periodically clean all filters by accomplishing the following:

- A. Remove the filter element and end cover by unscrewing and removing the threaded knob and washer.

CAUTION

Be careful not to damage the gasket material on the end cover and on the steel shell.

- B. Clean the filter with a commercial solvent and hot water by spraying the element with cleaning solution or by immersing the element in a tank of cleaning solution.
- C. **Allow the filter to dry thoroughly.**
- D. Dip the filter in oil and allow it to drain thoroughly. While the filter element will function effectively without an oil coating, an oil coating will increase the element's filtering efficiency. Use SAE 10-30 oil when ambient temperatures are below 70°F and SAE 30-50 oil when temperatures are above 70°F.

CAUTION

If flammable solvents are used to clean a filter element for a blower supplying air for combustion, be sure the element is completely dry before oiling. Make sure all excess oil has drained from the element before reinstalling it on the blower. **Combustible air vapors drawn into this type of air system can cause serious explosions.**

- E. Install the filter.
- F. Ensure that the piece of galvanized pipe embedded in the polyurethane foam liner of the end cover is in place. This element prevents damage to the end cover caused by over-tightening.
- G. Install the end cover, washer, and threaded knob.

Heavy dirt build-up on the perforated inner surfaces of the silencers will cause the silencer to lose effectiveness. Periodically clean the silencer by accomplishing the following.

- A. If equipped with a filter; remove the filter element and end cover by unscrewing and removing the threaded knob and washer. Be careful not to damage the gasket material.
- B. Using an industrial vacuum cleaner or a **dry** rag, remove any accumulations of dirt on the perforated metal surface of the silencer.

CAUTION

Do not wet the inside of the silencer with solvent or oil. The liquid will pass through the perforated inner shell and penetrate the sound absorbing filter material; thus reducing the effectiveness of the silencer.

- C. If equipped with a filter, reinstall it.
- D. Ensure that the piece of galvanized pipe embedded in the polyurethane foam liner of the end cover is in place. This element prevents damage to the end cover caused by over-tightening.
- E. Install the end cover, washer, and threaded knob.

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