

# Product Overview | Panel Filters/Silencers

Panel filter assembly mounted on a blower. With two panels removed, a 2936 Silencer can be seen mounted to the inlet of the blower. This is the 2941 Filter-Silencer assembly. Without the Silencer, the assembly number is 2921. Filters shown are washable type, designated "W". Throwaway type is designated "T". (Support leg is furnished as part of the assembly.)

Inlet filters remove 95-99% of airborne dirt to help keep blowers and combustion systems clean and operating efficiently.

Two types of panels are available:

Washable (W) filters (cost more initially, but can be cleaned and reused).

Throwaway (T) filter panels.

Washable panel filters remove 99% of airborne dirt; the throwaway type is 95% effective filtering particles 5 microns and larger. Pressure loss in clean filters is minimal.

A 2921 Filter Assembly can be added to a blower with an existing 2936 Silencer; or a Silencer can be added to an existing panel filter assembly.

## BENEFITS OF CLEAN AIR

Today's precision burner orifices require clean combustion air.

Some dirt tends to collect on blower impellers, imbalancing them and causing blower damage, noise, and inefficiency.

Costs of filter and maintaining it are small compared to costs associated with dirt build-up in combustion air piping and manifolds, as well as in the burners themselves:

Burner capacity may be reduced.

Burner efficiency--particularly air/fuel ratio--is likely to be affected adversely.

Dismantling large pipe is expensive and time-consuming (especially harmful if it necessitates unscheduled furnace shutdown), but it may be necessary to remove accumulated dirt.

## INSPECTION AND MAINTENANCE

To maintain its low pressure loss rating--less than 0.25 osi at maximum flow--filters should be inspected regularly, as frequently as ambient conditions dictate. When dirty, "W" panels are cleaned as described below. Do not attempt to clean any filter while it is mounted on blower.

Keeping spare panels on hand is recommended, even the washable (W) type, to avoid running blower without filter while element is being cleaned.

To clean washable filters, remove them from the assembly and wash in kerosene or any commercial cleaning solution, such as Oakite and water. Allow to dry thoroughly, then immerse in engine oil, SAE30 to 50 viscosity. Drain off excess oil and reassemble unit.

**WARNING: Do not clean filters in gasoline--doing so could cause an explosion in air piping.**

2921 and 2941 Assembly designations are descriptive:

example: 2941-1402-8/33W

example: 2921-2003-9/GT

2941: filter and silencer

14: 14" pipe connection (female)

02: two sections long

8: eight panel filters

33: case

W: washable type

2921: filter only

20: 20" pipe connection

03: three sections long

9: nine panels

G: case

T: throwaway type

Each section has provision for four panel filters. When less than four are required, metal blanks are supplied (these could be replaced with panels later if additional capacity is required).

All Panels are 16" x 25" x 2". Washable filters (1-2873-2) are interchangeable with throwaway (1-2873-1).

**NOTE:** Panel filters are not oiled as shipped.

