

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 throw-away 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 psi 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

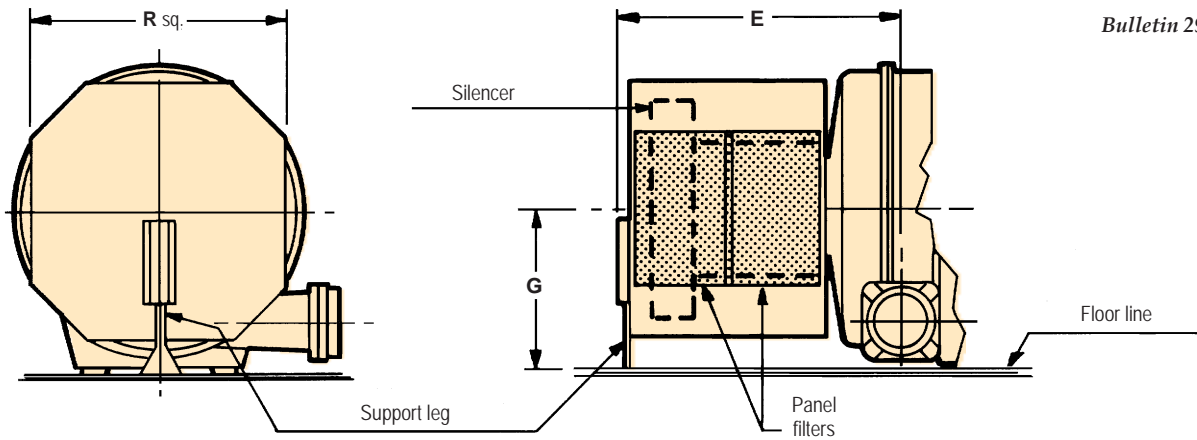
2941: filter and silencer
 14: 14" pipe connection (female)
 02: two sections long
 8: eight panel filters
 33: case
 W: washable type

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.



Blower designation	Filter designation †	Filter-Silencer designation †	dimensions in inches			Filter approximate weight lb	Filter-Silencer approximate weight lb
			E	G	R		
2308-44/1- --- 20	2921-1602-6/44	2941-1602-6/44	49 ⁷ / ₈	31 ¹ / ₂	43	310	390
2308-44/1- --- 25	2921-1602-8/44	2941-1602-8/44	49 ⁷ / ₈	31 ¹ / ₂	43	330	410
2308-44/1- --- 30	2921-1602-8/44	2941-1602-8/44	49 ⁷ / ₈	31 ¹ / ₂	43	330	410
2308-47/1- --- 40	2921-2403-12/47	2941-2403-12/47	63 ⁷ / ₈	35	60	530	750
2308-47/1- --- 50	2921-2403-12/47	2941-2403-12/47	63 ⁷ / ₈	35	60	530	750
2408-G- --- 20	2921-2003-6/G	2941-2003-6/G	60 ¹ / ₄	39	50 ¹ / ₄	430	570
2408-G- --- 25	2921-2003-9/G	2941-2003-9/G	60 ¹ / ₄	39	50 ¹ / ₄	460	600
2408-G- --- 30	2921-2003-9/G	2941-2003-9/G	60 ¹ / ₄	39	50 ¹ / ₄	460	600
2408-G- --- 40	2921-2003-9/G	2941-2003-9/G	60 ¹ / ₄	39	50 ¹ / ₄	460	600
2408-G- --- 50	2921-2003-12/G	2941-2003-12/G	60 ¹ / ₄	39	50 ¹ / ₄	490	630
2408-H- --- 50	2921-2003-12/H	2941-2003-12/H	63 ⁵ / ₈	39	50 ¹ / ₄	490	630
2310-47/1- --- 40	2921-2403-12/47	2941-2403-12/47	63 ⁷ / ₈	35	60	530	750
2310-47/1- --- 50	2921-2403-12/47	2941-2403-12/47	63 ⁷ / ₈	35	60	530	750
2312-41/1- --- 30	2921-1602-6/41	2941-1602-6/41	50 ³ / ₄	38	43	310	390
2312-41/1- --- 40	2921-1602-8/41	2941-1602-8/41	50 ³ / ₄	38	43	330	410
2312-47/1- --- 40	2921-2403-12/47	2941-2403-12/47	63 ⁷ / ₈	35	60	530	750
2312-47/1- --- 50	2921-2403-12/47	2941-2403-12/47	63 ⁷ / ₈	35	60	530	750
2412-G- --- 25	2921-2003-6/G	2941-2003-6/G	60 ¹ / ₄	39	50 ¹ / ₄	430	570
2412-G- --- 30	2921-2003-9/G	2941-2003-9/G	60 ¹ / ₄	39	50 ¹ / ₄	460	600
2412-G- --- 40	2921-2003-9/G	2941-2003-9/G	60 ¹ / ₄	39	50 ¹ / ₄	460	600
2412-G- --- 50	2921-2003-12/G	2941-2003-12/G	60 ¹ / ₄	39	50 ¹ / ₄	490	630
2412-G- --- 60	2921-2003-12/G	2941-2003-12/G	60 ¹ / ₄	39	50 ¹ / ₄	490	630
2316-41/1- --- 40	2921-1602-6/41	2941-1602-6/41	50 ³ / ₄	38	43	310	390
2316-41/1- --- 50	2921-1602-8/41	2941-1602-8/41	50 ³ / ₄	38	43	330	410
2316-47/1- --- 75	2921-2403-12/47	2941-2403-12/47	63 ⁷ / ₈	38	60	530	750
2416-G- --- 30	2921-2003-6/G	2941-2003-6/G	60 ¹ / ₄	39	50 ¹ / ₄	430	570
2416-G- --- 40	2921-2003-9/G	2941-2003-9/G	60 ¹ / ₄	39	50 ¹ / ₄	460	600
2416-G- --- 50	2921-2003-9/G	2941-2003-9/G	60 ¹ / ₄	39	50 ¹ / ₄	460	600
2320-33/1- --- 50	2921-1202-6/33	2941-1202-6/33	39 ⁷ / ₈	34 ¹ / ₂	43	270	320
2320-41/1- --- 50	2921-1602-6/41	2941-1602-6/41	50 ³ / ₄	38	43	310	390
2320-41/1- --- 60	2921-1602-8/41	2941-1602-8/41	50 ³ / ₄	38	43	330	410
2324-33/1- --- 50	2921-1402-6/33	2941-1402-6/33	41 ⁵ / ₈	34 ¹ / ₂	43	270	340
2324-41/1- --- 60	2921-1602-8/41	2941-1602-8/41	50 ³ / ₄	38	43	330	410
2324-33/1- --- 60	2921-1402-8/33	2941-1402-8/33	41 ⁵ / ₈	34 ¹ / ₂	43	290	360
2324-41/1- --- 75	2921-1602-8/41	2941-1602-8/41	50 ³ / ₄	38	43	330	410
2332-41/2- --- 100	2921-1602-8/41	2941-1602-8/41	61 ¹ / ₂	38	43	330	410
2332-41/2- --- 125	2921-1602-8/41	2941-1602-8/41	61 ¹ / ₂	38	43	330	410
2338-41/2- --- 100	2921-1602-6/41	2941-1602-6/41	61 ¹ / ₂	38	43	310	390

50 hertz Direct Drive Blower

23085-41/1- --- 25	2921-1602-6/41	2941-1602-6/41	50 ³ / ₄	38	43	310	390
--------------------	----------------	----------------	--------------------------------	----	----	-----	-----

† Complete designation by adding T for throwaway type panel filters, W for washable type.

WARNING: Situations dangerous to personnel and property may exist with the operation and maintenance of a combustion equipment. The presence of fuels, oxidants, hot and cold combustion products, hot surfaces, electrical power in control and ignition circuits, etc., are inherent with any combustion application. Parts of this product may exceed 160F in operation and present a contact hazard. Fives North American urges compliance with National Safety Standards and insurance Underwriters recommendations, and care in operation.

Fives North American Combustion, Inc., 4455 East 71st Street, Cleveland, OH 44105 USA, Phone 216.271.6000
Fax 216.641.7852 email: fna.sales@fivesgroup.com • www.fivesgroup.com/fivesna