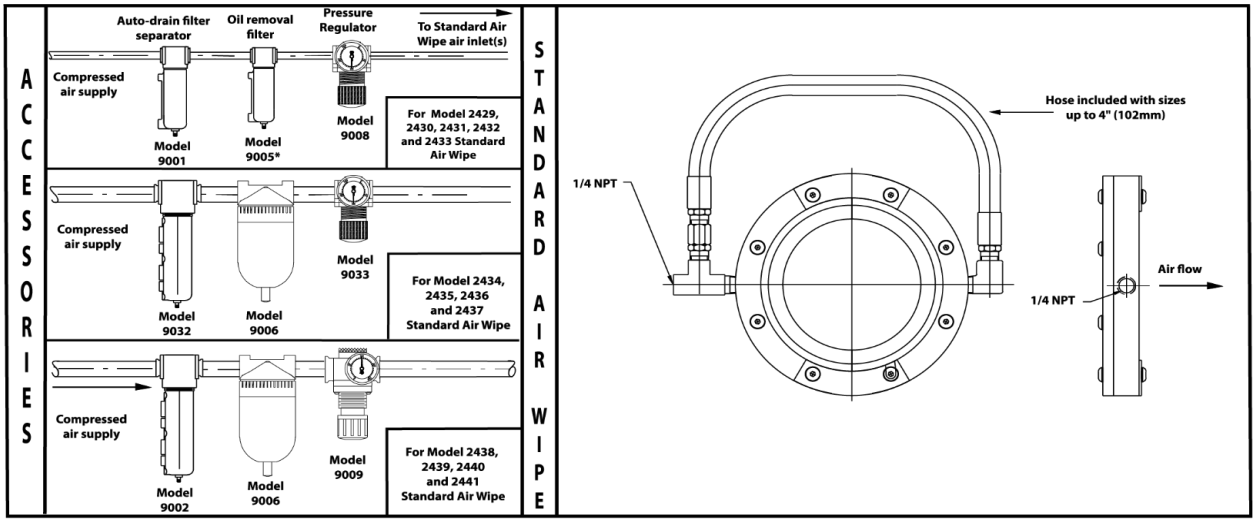
EXAIR® CE EXAIR TECHELP 1-800-903-9247

STANDARD AIR WIPE INSTALLATION & MAINTENANCE



* Use Model 9006 Oil Removal Filter for Standard Air Wipes that are 3" (76mm) and larger

COMPRESSED AIR LINE SIZES

Compressed air lines should be sized to hold pressure drops to a minimum. Do not use restrictive fittings or undersized lines that can starve the Standard Air Wipe by causing excessive line pressure drop.

STANDARD AIR WIPE RECOMMENDED INFEED SIZES

Infeed Pipe Size / Length of Run | **RECOMMENDED FILTERS AND REGULATORS**

Standard Air Wipe Size	Model Numbers	10' (3m)	50' (15.2m)	100' (30.5m)	Filter Separator Model #	Oil Removal Filter Model #	Pressure Regulator Model #
3/8" (10mm)	2429	1/4"	3/8"	1/2"	9001	9005	9008
1/2" (13mm)	2430	1/4"	3/8"	1/2"	9001	9005	9008
1" (25mm)	2431	1/4"	3/8"	1/2"	9001	9005	9008
2" (51mm)	2432	3/8"	1/2"	3/4"	9001	9005	9008
3" (76mm)	2433	3/8"	1/2"	3/4"	9001	9006	9008
4" (102mm)	2434	1/2"	3/4"	1"	9032	9006	9033
5" (127mm)	2435	1/2"	3/4"	1"	9032	9006	9033
6" (152mm)	2436	1/2"	3/4"	1"	9032	9006	9033
7" (178mm)	2437	1/2"	3/4"	1"	9032	9006	9033
8" (203mm)	2438	3/4"	1"	1-1/4"	9002	9006	9009
9" (229mm)	2439	3/4"	1"	1-1/4"	9002	9006	9009
10" (254mm)	2440	3/4"	1"	1-1/4"	9002	9006	9009
11" (279mm)	2441	3/4"	1"	1-1/4"	9002	9006	9009

If hose is used instead of pipe, use the next larger size for proper airflow (1/4 pipe = 3/8 hose).

See the chart above for proper filter and regulator recommendations for each Standard Air Wipe model.

COMPRESSED AIR SUPPLY

With proper filtration and separation of dirt, moisture and oil from the compressed air supply, the Standard Air Wipe will operate for years with no maintenance required. Use a 5 micron or smaller filter separator on the compressed air supply. To prevent problems associated with oil, use an oil removal filter. Use a 0.03 micron or smaller oil removal filter on the compressed air supply. The Oil Removal Filter should be used downstream from the Automatic Drain Filter Separator. Filters should be used close to each Standard Air Wipe, within 10' to 15' (3 to 4.6m) is best.

The Standard Air Wipe is designed to use normal shop air supplies up to 100 PSIG (6.9 BAR, 689 kPa). For infinite control of flow and force, pressure may be regulated. Air Wipes are designed for 250 PSIG (17.2 BAR, 1.72 MPa) Max.

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If air preparation units other than EXAIR models are being used, please note the following:

- PRESSURE REGULATORS – Must be pressure relieving and rated for a supply pressure of 250 PSIG (17.2 BAR, 1.72 MPa). Suggested operating pressure is 5-125 PSIG (0.3-8.6 BAR, 34-862 kPa). For models 3" (76mm) and under, flow should be minimum 50 SCFM (1416 SLPM). For models 4" – 7" (102 – 178mm), flow should be minimum 90 SCFM (2549 SLPM). For models 8" (203mm) or larger, flow should be minimum 185 SCFM (5239 SLPM).
- AUTO DRAIN FILTER SEPARATORS – Must be rated for a supply pressure of 250 PSIG (17.2 BAR, 1.72 MPa) and have 5 micron filtration. For models 3" (76mm) and under, flow should be minimum 50 SCFM (1416 SLPM). For models 4" – 7" (102 – 178mm), flow should be minimum 90 SCFM (2549 SLPM). For models 8" (203mm) or larger, flow should be minimum 185 SCFM (5239 SLPM).
- OIL REMOVAL FILTERS – Must be rated for a supply pressure of 250 PSIG (17.2 BAR, 1.72 MPa) and have 0.03 micron filtration. For models 2" (51mm) and under, flow should be minimum 37 SCFM (1048 SLPM). For models 3" (76mm) and over, flow should be minimum 185 SCFM (5239 SLPM).

USING THE STANDARD AIR WIPE

The Standard Air Wipe is supplied with coupling brackets for each half. One bracket is designed to remain stationary while the other has a notch for latching the two halves together.

For units up to and including 4" (102mm) the compressed air is supplied at the 1/4 NPT inlet of the pipe tee. A compressed air hose coupled to that tee brings air to the other half of the Standard Air Wipe.

For units larger than 4" (102mm) it is important to supply both halves with a hose large enough in diameter to not restrict airflow and starve the Standard Air Wipe. See the table "Recommended Infeed Pipe Sizes" on the front of this sheet.

The air flows from the side with the screw heads to the opposite side. It is best to position the Standard Air Wipe so the material running through the center is evenly spaced from all surfaces.

For mounting, there are tapped holes on the back of the Standard Air Wipe. It can also be held in place with rigid pipe.

The Standard Air Wipe is supplied with a .002" (.05mm) thick shim in each half. If additional hard-hitting force is required, additional shims are available.

Note: Sharp edges might be present on any of these products. Please take appropriate precautions when handling.

STANDARD AIR WIPE SHIM SET

Force and flow from the Standard Air Wipe may be easily increased by adding shims to open the air gap. The Standard Air Wipe is supplied with a .002" (.05mm) thick shim installed. It sets the air slot to a .002" (.05mm) opening. To increase the air gap, use a shim set (included with the Standard Air Wipe Kit). The shim set includes shims of .001" (.03mm), .003" (.08mm) and .004" (.1mm) thickness shims. By changing and stacking them, gaps may be set from .001" to .010" (.03mm to .25mm). Individual shims are available.

To change shims, remove the assembly bolts. Inspect the Standard Air Wipe and shim(s) to assure no dust, dirt or chips are on the mating surfaces or in the plenum chamber. Replace or add a shim(s), and retighten bolts to 7.5 ft. lbs. Note that mating parts (body and cap) do not align flush. The air opening cannot be dead ended, which meets OSHA requirements.

TROUBLESHOOTING AND MAINTENANCE

If There Is A Reduction In Flow Or Force From The Standard Air Wipe, check the pressure by installing a gauge at the compressed air inlet. Large pressure drops are possible due to undersized lines, restrictive fittings and clogged filter elements.

For replacement or repair filter and regulator parts, contact EXAIR at 1-800-903-9247 or techelp@exair.com. Call (513) 671-3322 for outside the US and Canada.

CLEANING

If contaminants have clogged the Standard Air Wipe, inspect the unit by disassembling. The Standard Air Wipe consists of two component parts and between them is a shim that sets the gap the compressed air exhausts through. This shim is usually .002" (.05mm) thick, although thicker shims can be used. Inspect each part for dust or dirt contamination and a possible oil film in the area of the slotted nozzle. Clean each part and retighten bolts.

Occasionally there is a buildup which occurs on the face of the Standard Air Wipe as a result of vapors in the atmosphere. Clean this surface with solvent and a clean rag. To prevent contaminants from getting pushed back into the slot, perform this procedure with a small amount of compressed air passing though the Standard Air Wipe.

If you have any questions or problems, please contact an EXAIR Application Engineer at:

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