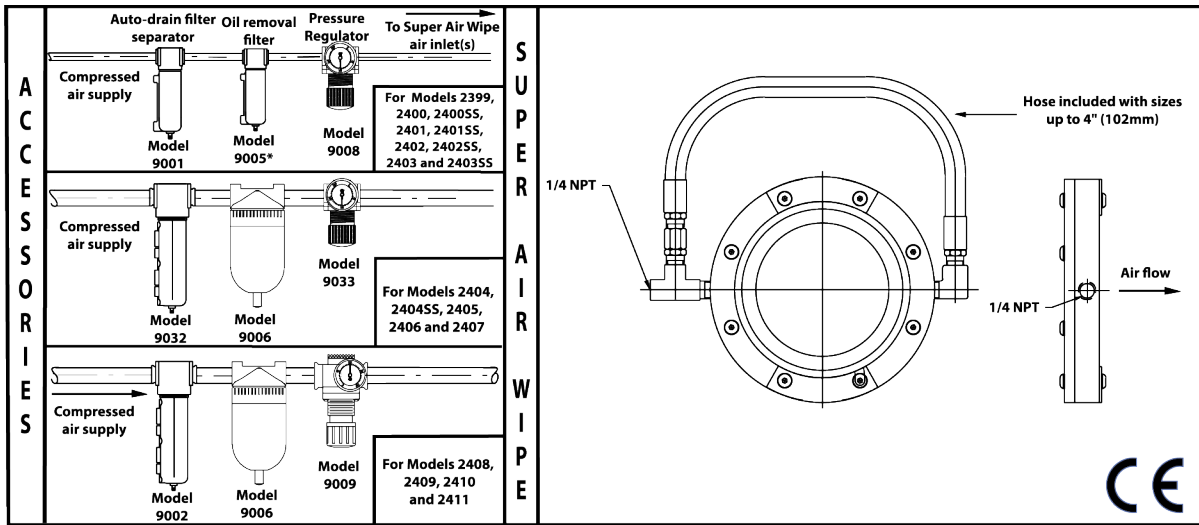


## SUPER AIR WIPE INSTALLATION & MAINTENANCE



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

### COMPRESSED AIR LINE SIZES

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

### SUPER AIR WIPE RECOMMENDED INFEED SIZES

### RECOMMENDED FILTERS AND REGULATORS

#### Infeed Pipe Size / Length of Run

Super 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)	2399	1/4"	3/8"	1/2"	9001	9005	9008
1/2" (13mm)	2400, 2400SS	1/4"	3/8"	1/2"	9001	9005	9008
1" (25mm)	2401, 2401SS	1/4"	3/8"	1/2"	9001	9005	9008
2" (51mm)	2402, 2402SS	3/8"	1/2"	3/4"	9001	9005	9008
3" (76mm)	2403, 2403SS	3/8"	1/2"	3/4"	9001	9006	9008
4" (102mm)	2404, 2404SS	1/2"	3/4"	1"	9032	9006	9033
5" (127mm)	2405	1/2"	3/4"	1"	9032	9006	9033
6" (152mm)	2406	1/2"	3/4"	1"	9032	9006	9033
7" (178mm)	2407	1/2"	3/4"	1"	9032	9006	9033
8" (203mm)	2408	3/4"	1"	1-1/4"	9002	9006	9009
9" (229mm)	2409	3/4"	1"	1-1/4"	9002	9006	9009
10" (254mm)	2410	3/4"	1"	1-1/4"	9002	9006	9009
11" (279mm)	2411	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 Super Air Wipe model.

### COMPRESSED AIR SUPPLY

With proper filtration and separation of dirt, moisture and oil from the compressed air supply, the Super 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 Super Air Wipe, within 10' to 15' (3 to 4.6m) is best.

The Super Air Wipe uses 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.

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 SUPER AIR WIPE**

The Super 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.

All models include stainless steel screws and shims. There is a 1/4 NPT female inlet on each half of the Super Air Wipe on sizes up to 7" (178mm). Larger sizes include two 1/4 NPT female inlets on each half in order to maintain proper air volume and performance. Aluminum Super Air Wipes up to 4" (102mm) include a brass tee that supplies one half directly and a stainless steel wire braided coupling hose rated at 400°F (204°C) to supply the other half. Stainless steel Super Air Wipes up to 4" (102mm) include a stainless steel tee and a stainless steel wire braided coupling hose rated at 800°F (427°C).

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 Super 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 Super Air Wipe. It can also be held in place with rigid pipe.

The Super 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.

### **SUPER AIR WIPE SHIM SET**

Force and flow from the Super Air Wipe may be easily increased by adding shims to open the air gap. The Super 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 Super Air Wipe Kit). The shim set includes (2) .002" (.05mm) thick stainless steel shims. By changing and stacking them, gaps may be set from .002" to .004" (.05mm to .10mm). Individual shims are available.

To change shims, remove the assembly bolts. Inspect the Super 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 Super 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 techhelp@exair.com. Call (513) 671-3322 for outside the US and Canada.**

### **CLEANING**

If contaminants have clogged the Super Air Wipe, inspect the unit by disassembling. The Super Air Wipe consists of two component parts and between them is a shim that sets the gap the compressed air exhausts through. 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 Super 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 through the Super Air Wipe.

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

**Toll Free: 1-800-903-9247 (US & Canada)**  
**Toll Free Fax: 866-329-3924 (US & Canada)**  
**E-mail: techhelp@exair.com**

**Telephone: 513 671-3322 outside of US & Canada**  
**Fax: 513 671-3363 outside of US & Canada**  
**Website: www.exair.com**