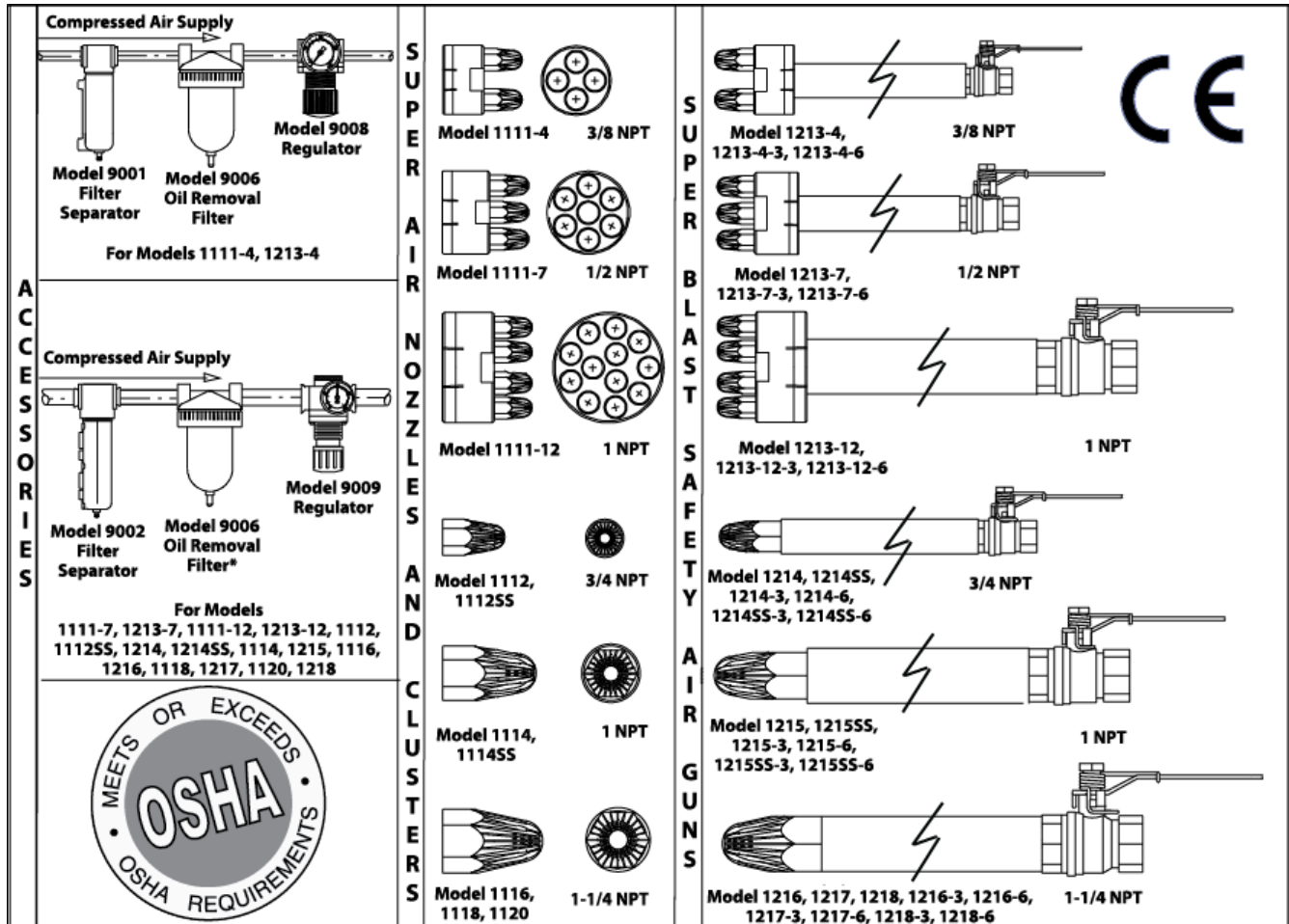


## SUPER AIR NOZZLE CLUSTER & SUPER BLAST SAFETY AIR GUN INSTALLATION & MAINTENANCE



\*No Oil Removal Filter Available for Model 1111-12, 1213-12, 1213-12-3, 1213-12-6, 1116, 1118, 1120, 1216, 1217, 1218, 1216-3, 1216-6, 1217-3, 1217-6, 1218-3, 1218-6. Consult Factory for Sizing Recommendation.

### COMPRESSED AIR REQUIREMENTS

For all products covered in this literature, EXAIR recommends the compressed air supply include pressure relieving regulators, filter separators and oil removal filters rated for a pressure of at least 250 PSIG (17.2 BAR, 1.72 MPa). In addition, filter separators used with nozzles should have a minimum of 25 micron filtration. Oil filters should have a minimum 0.03 micron filtration. For Model 1111-4 Super Air Nozzle Cluster or Super Blast Safety Air Guns using that model, use 3/8" pipe or 1/2" hose for runs up to 25' (7.6m) long. For runs up to 50' (15.2m), use 1/2" pipe or 3/4" hose and for runs over 50' (15.2m), use 3/4" pipe or larger. For the larger Models 1111-7 and 1111-12 Super Air Nozzle Clusters and Models 1112, 1112SS, 1114, 1114SS, 1116, 1118 and 1120 Super Air Nozzles or Super Blast Safety Air Guns using those models, use a supply pipe equal to or greater than the compressed air inlet. Do not use restrictive fittings that can "starve" the Super Air Nozzle Cluster or Super Blast Safety Air Gun by causing excessive line pressure drop. Information on certain air nozzles that are part of a Super Blast Safety Air Gun are shown above on this "Installation and Maintenance" sheet for your convenience.

### COMPRESSED AIR SUPPLY

With proper filtration and separation of dirt, moisture and oil from the compressed air supply, the Super Air Nozzle Cluster or Super Blast Safety Air Gun will operate for years with no maintenance required.

Use a 25 micron or smaller filter separator on the compressed air supply, Model 9001 Automatic Drain Filter Separator for Model 1111-4 or Super Blast Safety Air Guns using that model, Model 9002 Automatic Drain Filter Separator for all other models.

To prevent problems associated with oil, use a Model 9006 Oil Removal Filter for all models except those using Model 1111-12, 1112, 1112SS, 1114, 1114SS, 1116, 1118 and 1120. The oil removal filter should be used downstream from the automatic drain filter separator. Filters should be located close to each Super Air Nozzle Cluster or Super Blast Safety Air Gun, within 10 to 15' (3 to 4.6m) is best.

Super Air Nozzle Clusters and Super Blast Safety Air Guns are 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. Use Model 9008 Pressure Regulator for Model 1111-4 or Super Blast Safety Air Guns using that cluster. Use Model 9009 Pressure Regulator for all other models.

### **USING SUPER AIR NOZZLE CLUSTERS OR SUPER BLAST SAFETY AIR GUNS**

In most cases, the Super Air Nozzle Cluster will be supported by the compressed air supply pipe. Be sure to have a firm grip on the hand-held Super Blast Safety Air Gun before you turn it on. The blast of air should be aimed at the target surface. The spring-loaded manual valve shuts off automatically if the Super Blast Safety Air Gun is dropped.

All Safety Air Guns and Super Blast Safety Air Guns meet or exceed OSHA requirements by using EXAIR engineered air nozzles and jets. All are safe to be supplied with higher pressure compressed air and meet the OSHA standard CFR 1910.242(b) for dead ended pressures. The sound level of some Super Blast Air Guns exceeds 90 dBA. OSHA allows 3 hours of exposure per day without hearing protection for models utilizing the 1112 and 1112SS; 2 hours for models utilizing the 1114 and 1114SS; 1 hour for models utilizing the 1116 and 1/2 hour for models utilizing the 1118 and 1120. Detailed information on the specific Air Nozzle can be found in the EXAIR Catalog and at [www.exair.com](http://www.exair.com).

### **SAFE OPERATING PRACTICES**

The following is a safety checklist to encourage proper use of Super Air Nozzle Clusters or Super Blast Safety Air Guns.

1. Inspect all of the components used in the compressed air system to make sure that all connections (fittings) are tightened properly.
2. Inspect the Super Air Nozzle Cluster or Super Blast Safety Air Gun to make sure there is nothing attached to the end that might become a flying projectile.
3. Always wear safety glasses with side shields when working in close proximity of the blowoff operation.
4. Always consider the direction you will blow the compressed air in to make sure the debris flies in a safe direction.
5. Always depressurize a compressed air line before attaching a Super Air Nozzle Cluster or Super Blast Safety Air Gun. Repressurize the line once connected.
6. Never use compressed air to clean your clothing or dislodge particles. These particles can be embedded in your skin. High pressure air can also penetrate the skin and reach the bloodstream which can produce a serious or fatal injury.
7. Never engage in horseplay or point a Super Air Nozzle Cluster or Super Blast Safety Air Gun at someone.

### **TROUBLESHOOTING & MAINTENANCE**

**If there is a reduction in flow or force from the Super Air Nozzle Cluster or the Super Blast Safety Air Gun**, check the pressure by installing a gauge at the compressed air inlet of the Super Air Nozzle Cluster or Super Blast Safety Air Gun. 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](mailto:techhelp@exair.com). Call (513) 671-3322 for outside the US and Canada.**

### **CLEANING**

If contaminants have clogged the Super Air Nozzle Cluster or the Super Blast Safety Air Gun, inspect the unit by disassembling. Position the flat surfaces of the cylindrical flat body securely between the soft jaws of a vise. Use a pin-style spanner wrench to unscrew the cap (counter-clockwise) from the body. Inspect each part for dirt contamination and a possible oil film in the area of the slotted nozzle. Clean each part and reassemble.

Occasionally, there is a build up which occurs on the surfaces a result of vapors in the atmosphere. Clean the surface with a solvent and a clean rag. To prevent contaminants from getting pushed back into the recessed holes and grooves, perform this procedure with a small amount of compressed air passing through the Super Air Nozzle Cluster or Super Blast Safety Air Gun.

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

Toll Free: 1-800-903-9247 (U.S. & Canada)  
 Telephone: 513 671-3322 outside of U.S. & Canada  
 Toll Free Fax: 866-329-3924 (U.S. & Canada)  
 FAX: 513 671-3363 outside of U.S. & Canada  
 E-mail: [techhelp@exair.com](mailto:techhelp@exair.com)  
 Website: [www.exair.com](http://www.exair.com)

For more information about this product, visit  
 "Frequently Asked Questions" at [www.exair.com](http://www.exair.com)  
**FAQ at [www.EXAIR.com](http://www.EXAIR.com)**