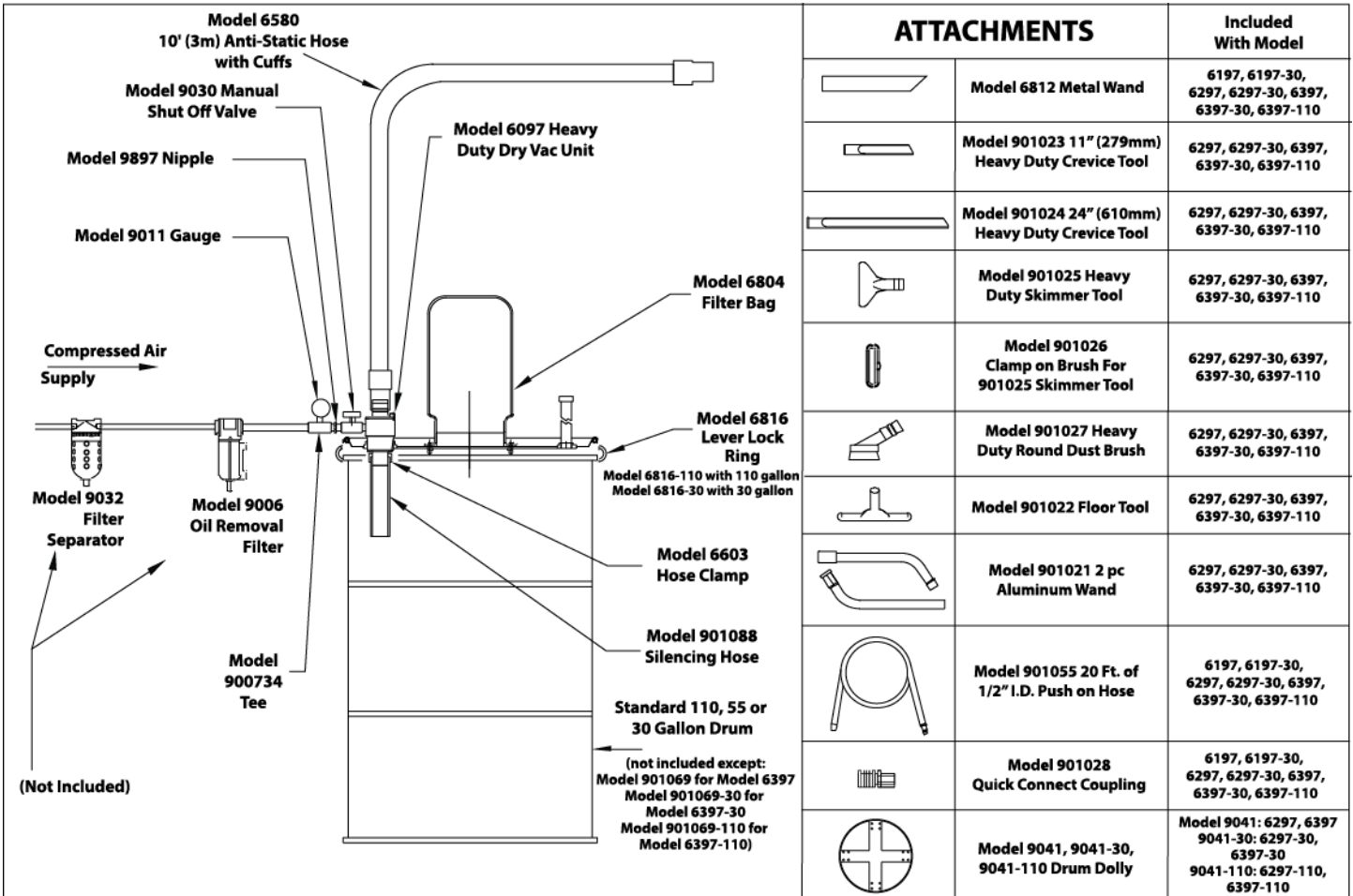




## HEAVY DUTY DRY VAC™ INSTALLATION & MAINTENANCE



### COMPRESSED AIR LINE SIZES

Compressed air lines should be sized to hold pressure drops to a minimum. When installing supply lines, use 3/8" pipe up to 25' (7.6m) long, 1/2" up to 50' (15.2m) long. If additional compressed air hose is required, it should be 3/4" I.D. up to 25' (7.6m). Use only the supplied quick connect fittings which have been sized appropriately. Do not use restrictive fittings such as additional quick connects or reducers that can "starve" the Heavy Duty Dry Vac by causing excessive line pressure drop.

### COMPRESSED AIR SUPPLY

The Heavy Duty Dry Vac uses normal shop air supplies up to 100 PSIG (6.9 BAR, 689 kPa). With proper filtration and separation of dirt, moisture and oil from the compressed air supply, the Heavy Duty Dry Vac will run for years with no maintenance required. Use a 10 micron or smaller filter separator on the compressed air supply (Model 9032 Automatic Drain Filter Separator not included). To prevent problems associated with oil, use an oil removal filter (Model 9006 Oil Removal Filter not included). The oil removal filter should be used downstream from the automatic drain filter separator. Filters should be used close to the Heavy Duty Dry Vac, within 10 to 15' (3 to 4.6m) is best. Maximum pressure is 250 PSIG (17.2 BAR, 1.72 MPa).

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). Flow should be minimum 80 SCFM (2265 SLPM).
- **AUTO DRAIN FILTER SEPARATORS** – Must be rated for a supply pressure of 250 PSIG (17.2 BAR, 1.72 MPa) and have 25 micron filtration. Flow should be minimum 80 SCFM (2265 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. Flow should be minimum 80 SCFM (2265 SLPM).

### **USING THE HEAVY DUTY DRY VAC**

Use a steel, fiber or plastic open top 55 (45 imperial gallon) or 30 gallon drum that is in good condition (ANSI Standard #MH2-2004). To prevent material contamination, poly drum liners can be used with the Heavy Duty Dry Vac. A 55 gallon drum is included with Model 6397, a 30 gallon with the Model 6397-30 and a 110 gallon with the Model 6397-110 Premium Heavy Duty Dry Vac Systems.

The Model 6097 Heavy Duty Dry Vac unit mounts into the large 2 NPT threaded hole of the drum lid. Using the provided small band clamp, attach the muffling hose to the straight section of the Heavy Duty Dry Vac on the bottom of the lid. A threaded pipe to be used as a hose hanger mounts into the small 3/4 NPT threaded hole of the drum lid.

Secure the filter bag to the flange in the middle of the drum lid with the large band clamp provided. Place the drum lid with assembled components on top of the drum and secure with lever lock ring.

A packet of pipe sealant is included with the Heavy Duty Dry Vac. Use the sealant on all threaded compressed air fittings. Connect the male thread of the Model 9030 3/8 NPT Manual Valve to the compressed air inlet of the Heavy Duty Dry Vac unit (turn clockwise). Install the Model 9897 Nipple into the manual valve. Install the Model 900734 Tee onto the nipple. Install the Model 9011 Pressure Gauge in the center 1/4 NPT female inlet of the pipe tee (turn clockwise). Connect the Model 901055 Hose Assembly to the tee. Slide the vacuum hose onto the barbed inlet of the Heavy Duty Dry Vac unit. Insert a tool that best suits the application at the other end of the vacuum hose.

When compressed air is supplied and with valve open, the filter bag will inflate and Heavy Duty Dry Vac is ready for use. Turn compressed air off when moving the drum lid from drum to drum.

### **VACUUMING FINE AND DUSTY MATERIALS**

The filter bag will trap lightweight contaminants that become suspended in the airstream. Dusty materials such as absorbents are trapped by the filter bag to keep the surrounding air clean.

### **TROUBLESHOOTING & MAINTENANCE**

The Heavy Duty Dry Vac has no moving parts. Maintenance is not normally required provided the compressed air filter is used properly.

Large pressure drops are possible across compressed air filter separators if the element is clogged with dirt. Pressure drops are considered excessive when the lower pressure affects the performance (reduced suction) in the application.

**For replacement or repair filter and regulator parts, contact MOWOTAS Thailand at +66 (0)90 124 8875 or contact-mowotasthailand@mowotas.com.**

### **CLEANING**

A dirty filter bag can put back pressure on the Heavy Duty Dry Vac, resulting in reduced suction. The reusable bag should be removed and shaken over a waste container to remove bulk particulate. The filter bag can be washed in a manner suitable for delicate fabrics.

If contaminants have clogged the Heavy Duty Dry Vac unit, disconnect the compressed air supply and remove all screws to disassemble the unit. Inspect each part for dirt contamination and a possible oil film on the flow generator. Clean each part and reassemble. The Heavy Duty Dry Vac unit consists of a body, a flow generator, two O-rings and a barbed cap that holds the flow generator in place. The screws that hold the assembly together are on the intake side of the unit. When reassembling, the small holes of the flow generator should point to the exhaust end.

Occasionally, there is a buildup which occurs in the throat of the Heavy Duty Dry Vac unit as 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 generator holes, perform this procedure with a small amount of compressed air passing through the Heavy Duty Dry Vac.

Always clean the vacuum hose and attachments after every use.

If routine cleaning does not solve your performance problems, please contact:

#### **MOWOTAS (Thailand) Co. Ltd.**

228, Muhti 11  
Nongprue, Banglamung  
Chonburi, 20150 Thailand

Phone: +66 (0)90 124 8875  
Email: contact-mowotasthailand@mowotas.com  
Website: www.mowotas.co.th

