



Supreme Air Products Corp. The next generation of compressed air products do more, and do it better.

Air Amplifier

Installation & Maintenance Guide

Supreme Air Products brings to you an air amplifier range that makes all your big air handling jobs a breeze. Using a small amount of compressed air, our amplifiers are economical solutions compared to other air amplifiers available in the market.



Version 1.0



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01 Recommended Hose Runs

LENGHT OF RUN	SIZE OF PIPE/HOSE
1 - 25ft	Use 1/4" pipe or 3/8" air hose
26 - 50ft	Use 3/8" pipe or 1/2" air hose
51ft and above	Use 1/2" pipe or larger

NOTE: For larger Supreme Air Products Adjustable Air Amplifier (Model AA004A / AA004S), use a supply pipe size equal or greater than the connection size on the amplifier.

02 Compressed Air Supply

With the proper filtration and separation of oil, dirt, and moisture from the compressed air supply, your Air Amplifier will operate maintenance free for many years.

**All filters should be installed within 10-15ft of the Air Conveyor. It's important to use supplied fittings to minimize possibility of air restriction.

Water removal

Minimum 10 micron filter, with an automatic (float type) drain.

Oil removal

Use an Oil filter installed downstream from the water filter if oil is a concern. Again this should be fitted with an automatic (float type) drain.

03 General Operation / Installation

In most cases, the Supreme Air Products Adjustable Air Amplifier will be supported by the compressed air supply piping or, by clamping to the unit. A hose can be attached to either or both ends of the Air Amplifier to remove smoke, fumes, or dust.

For optimal performance, keep the Air Amplifier within 12" of the target. The velocity/force begins to decrease after 12" away, although it may still be sufficient for most applications up to 24 away.

Adjusting the Air Amplifier

If vacuum or force is too low; the air gap can be opened. To increase the force, simply turn the lock ring counter clockwise and back out the inner sleeve. This will increase the velocity, mass flow, and force but also increase the compressed air consumption. A shim stock may be used to obtain a more accurate setting. Be sure the locking ring is tightened back in place to secure the inner sleeve!

04 Troubleshooting

05 Cleaning

04 Troubleshooting

With no moving parts, there is little that can go wrong with your Air Amplifier. However, there are many factors that can cause the reduction in Flow or Force. Undersized airlines, restrictive fittings, or clogged filter elements are common areas to check. If you suspect below average performance, install a pressure gage at the inlet of the Air Amplifier.

05 Cleaning

Simply disassemble the unit, and clean all surfaces using a mild solvent and rag. At times a buildup can occur on the throat of the Air Amplifier as a result of vapors in the atmosphere. Prior to reassembly it is recommended to apply an anti-seize compound on the threads.

