

CleanAir™ and DAD-500 Air Piping Recommendations

INSTALLATION

The plumbing of your shop air lines is very important. Correct installation is necessary for the proper performance of your equipment - for an uncontaminated air supply and for sufficient pressure to your spray gun.

Correct air line piping is so important that this one factor alone can reduce contaminants in your air supply up to 75%. Reducing contaminants to the filter also reduces the frequency of filter replacement, maintenance, and of course reduces the risk of contaminants to the paint supply.

Even the size of the pipe is critical. Using pipe that is too small in diameter can cause a pressure drop.

Example: If an air compressor delivers 100 psi through a 100' pipe 1/2" in diameter, there's greater pressure drop than if a 3/4" diameter pipe were used. The chart on the back page provides recommended piping sizes.

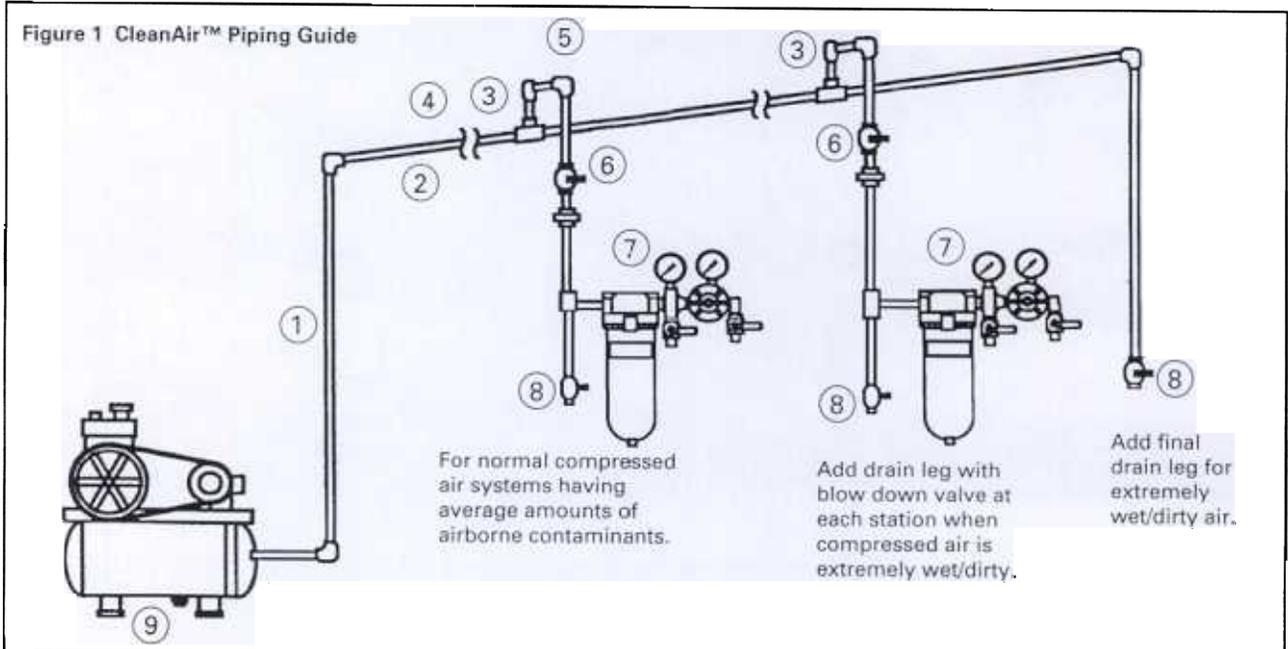
Minimum Pipe Size Recommendations Chart

Compressor Size	Compressor Capacity	Main Air Line	Min. Pipe Diameter
1-1/2 and 2 HP	6 to 9 CFM	Over 50 ft.	3/4"
3 and 5 HP	12 to 20 CFM	Up to 200 ft. Over 200 ft.	3/4" 1"
5 to 10 HP	20 to 40 CFM	Up to 100 ft. 100 to 200 ft. Over 200 ft.	3/4" 1" 1-1/4"
10 to 15 HP	40 to 60 CFM	Up to 100 ft. 100 to 200 ft. Over 200 ft.	1" 1-1/4" 1-1/2"

AIR LINE PLUMBING GUIDE

1. After leaving the air compressor, the air line should go straight up as high as possible. This helps prevent any water from leaving the compressor and travelling through the pipe.
2. Horizontal pipes should slope back towards the compressor at least 4" per 50'. As warm air leaves the compressor, it cools and thereby water vapor condenses as it travels through the pipe. This water, a problem in itself, also can cause scaling and rust inside the piping. The backward sloping of the pipe helps drain these contaminants back toward the compressor drain which should be drained daily.
3. A take-off should come from the top of the main air supply line at each air drop. This reduces the risk of water and other contaminants from traveling down the drop into the water separator.
4. Pipe diameter must be of sufficient size for the volume of air being passed as well as the length of pipe used. This will minimize pressure drop.
5. First air drop should be at least 25' from the compressor, although 50' is optimum. This allows the compressed air to cool so any condensation can occur before it gets to the air filter.
6. Shut-off valves are installed before the point of use filter. This allows air to be shut off for filter maintenance.
7. Point-of-use filter - Strongly recommended for eliminating any remaining contaminants. The CleanAir type air control units are most effective in providing a truly contaminant-free air supply.

Figure 1 CleanAir™ Piping Guide



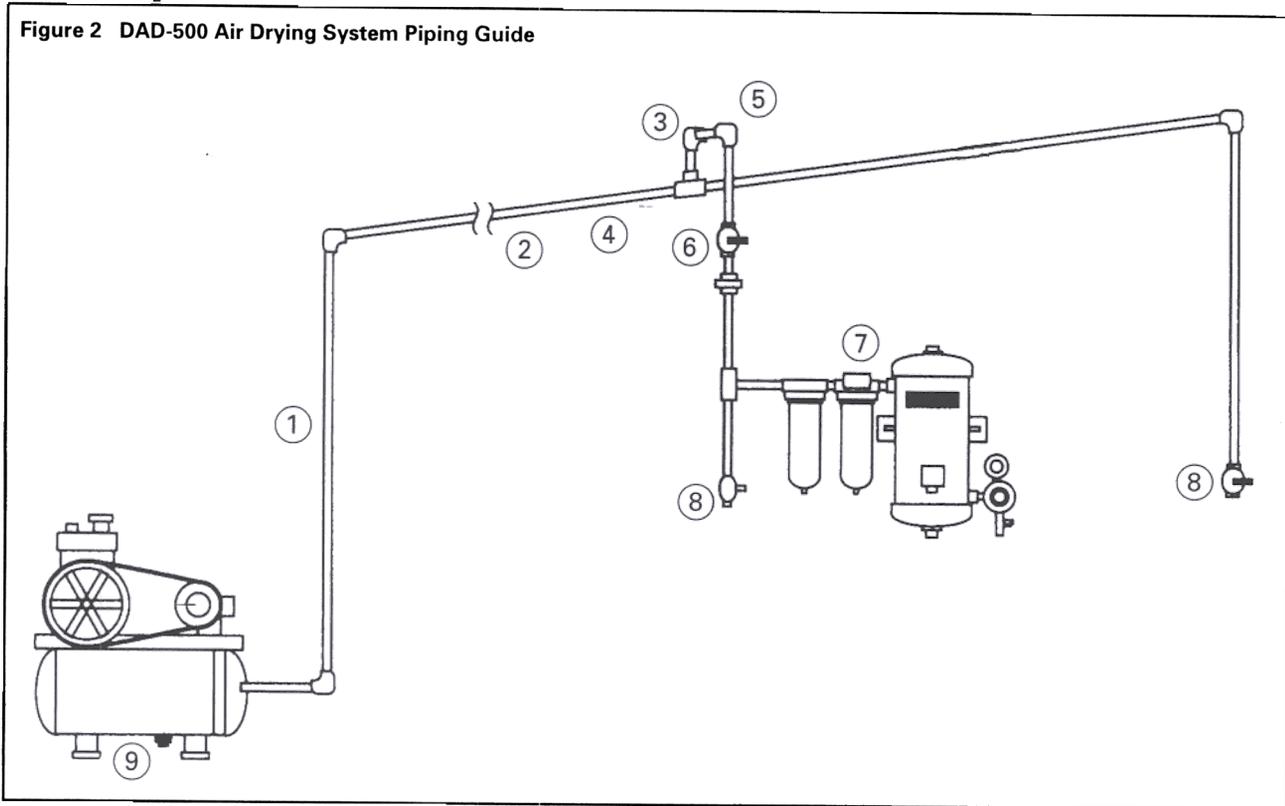
8. Drain valve – The daily draining of the system at each outlet disposes of the contaminants that build up in the air supply.
9. Drain the compressor trap daily if equipped with a manual drain.

Proper maintenance of the air compressor can reduce airborne contaminants such as particles and oils, and reduce heat and operating cost. Check air filters, oil level and perform regular maintenance per operators manuals.

Guidelines to Piping Your Shop:

- Pipe slopes upward – recommend 4" rise in 50 ft.
- Minimum 25 ft. to first outlet (50 ft. optimum)
- Pipe size (see chart)
- Shut off valve before filter
- Drain daily

Figure 2 DAD-500 Air Drying System Piping Guide



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