

Cabinet Dryer FAQ's

Q: How should I mount the dryer?

A: The dryer should be mounted vertically on a surface near the enclosure. Use no. 8 hardware to securely fasten it to the surface.

Q: How do we maintain the NEMA type 4x rating of the enclosure?

A: Use the supplied strain relief bushing, properly installed by a qualified person to connect the dry air line from the dryer to the enclosure interior.

Q: What size tubing should I use?

A: ¼" OD tubing is recommended for use with the supplied strain relief bushing.

Q: What is the pressure coming out of the dryer?

A: As long as the line downstream of the dryer is open, the pressure will be near atmospheric.

Q: Won't pressure build up inside my cabinet?

A: No the cabinet is connected to electrical conduit which is open to atmosphere at the circuit box so there is no chance of pressure build up.

Q: I want to connect a drain line to the filter drain. What size fitting do I need?

A: The prefilter is supplied with a 1/8" barb fitting

Q: Do I need one dryer per cabinet?

A: Ideally each cabinet should have a dedicated dryer. If the cabinets are close to each other, a separate line may be run to each. Assure that the lines are approximately the same diameter and length to balance the flow. Also assure that the total volume of the cabinets matches the specified rating for the dryer. If the cabinet is greater than 36 cubic feet, multiple dryers may be used.

Q: Once inside the cabinet, what is the ideal location for the end of the tubing.

A: Position the tubing so the outlet is pointed down along the side or sideways along the bottom of the box. Do not direct the air directly toward electrical components.

Q: How often should I change the prefilter?

A: The prefilter should be replaced every six months to one year depending on the quality of the compressed air. The operation of the auto drain should be checked at that time.

Q: How do I check the operation of the drain?

A: During scheduled maintenance, unscrew the manual drain a few turns and assure that it is not clogged.

Q: My customer has air going to his cabinets to operate pneumatic valves and cylinders inside the cabinet. Can I use the cabinet dryer for operating the pneumatics?

A: The dryers have a built in flow control orifice. This orifice places a large restriction on the flow of air to the pneumatics. Contact David Connaughton if you have this need.

Q: We are really careful about use of compressed air in the plant. Won't this dryer waste a lot of air?

A: The cost of lost down time far exceeds the cost of compressed air. At \$0.07/kwh the CD0005 costs \$0.15/day, the CD0010 costs \$0.30/day and the CD0030 costs \$0.90/day. Compare that to the cost of an hour's worth of lost production.

Q: I've got a long thin cabinet. What is the best way to purge this cabinet?

A: The best way to purge a large or oddly shaped cabinet is to place the dryer so that the line enters the cabinet at the furthest point from the conduit where the air exits. Once the line is inside the cabinet, branches are possible from the incoming line. It is best to keep these branches of equal length to help balance the flow, even if one branch needs to be coiled up to accommodate its length.

Q: What are the specifications of the strain relief bushing?

A: We use a Hubbel strain relief bushing that is UL and CSA rated at IP66.

