



INSTALLATION AND MAINTNANCE OF NEX FLOW™ FRIGID-X™ BOX COOLER

Guidelines:

1. Insure that compressed air lines are properly sized to keep pressure drop to a minimum. Use at least ¼” pipe or 3/8” hose for supply line runs up to 10 feet, 3/8” pipe or ½” hose for runs up to 50 feet and ½” pipe lines for longer runs. Do not use restrictive fittings such as quick couplings which will reduce the effectiveness of the cooling systems.
2. All systems should utilize a minimum 10 micron water removal filter complete with a float type auto drain. Nex Flow provides such filters with 5 micron filtration complete with a float type auto drain. NEVER USE anything except an automatic float type auto drain to prevent any accidental water flow into the system. If oil is a problem in your air lines, use a properly sized oil removal filter with at least a 0.3 micron rating. Install all filters within 10 to 15 feet of the cooling unit.
3. The Frigid-X system is easy to install through a hole in the enclosure sized to take a ½” threaded pipe. I lock nut on the cooling unit will lock it in place. Contact the factory or your local distributor for correct sizing of the system that you will need.
4. A separate “breather cap” is supplied to vent pressure buildup from inside the box. It should be mounted on the top or side of the enclosure. It has a ½” NPS connection and requires a 0.88” (22 mm) mounting hole.
5. A optional cold air distribution hose kit directs the cold air to any hot spots as required. Holes may be cut or drilled in the tubing. Use at least 6 – 1/8” diameter holes in the tubing to minimize any back pressure on the cooling unit. The end is typically plugged and the kit is supplied with an extra muffler at the plugged end.



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6. Close off any vents or other openings that may draw in ambient air, especially in warm or hot high humidity environments. This entrained air can condense inside the control enclosure much like water that forms on the outside of an ice-filled drinking glass on a summer day.

7. Frigid-X™ Box Cooler may be either run constantly or, can use on-off control with a thermostat and solenoid valve package. The thermostat supplied by Nex Flow™ may be mounted through the enclosure wall or on a bracket inside the enclosure. It is not sensitive to its position for operation but should be mounted in a hot area of the enclosure. The thermostat is then connected to the hot line supplying the solenoid valve. It is normally open, and closed when actuated, when the temperature rises. The thermostat is preset at 95 degrees F. and will hold that setting within plus or minus 2 degrees inside the control enclosure. The thermostat can be reset following the instructions with the thermostat. The solenoid valve should be mounted between water removal filter and the cooling unit. The solenoid valve is controlled by the thermostat but may also be controlled by the machine it is used one. An electronic thermostat package is also available.

If you have any questions or problems, please contact:

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