

# **TOOL COOLING SYSTEM**

## **INSTALLATION AND MAINTENANCE**

### **INSTALLATION GUIDELINES**

1. Maintain line pressure at 80 – 100 PSIG
2. Keep compressed air lines sized adequately to minimize pressure drop. Use at least 1/4" pipe or 3/8" hose for supply line runs up to 10 feet (3Mtrs. approx.), 3/8" pipe or 1/2" hose for runs up to 50 feet (15.2 Mtrs. approx.) and 1/2" pipe lines for longer runs. Do not use restrictive fittings or connections that could cause excessive pressure drop.
3. Use adequate filtration to keep airline free of moisture & dirt. All kits come supplied with a properly sized filter for water removal. Use an oil filter as well if there are oil problems in the airline

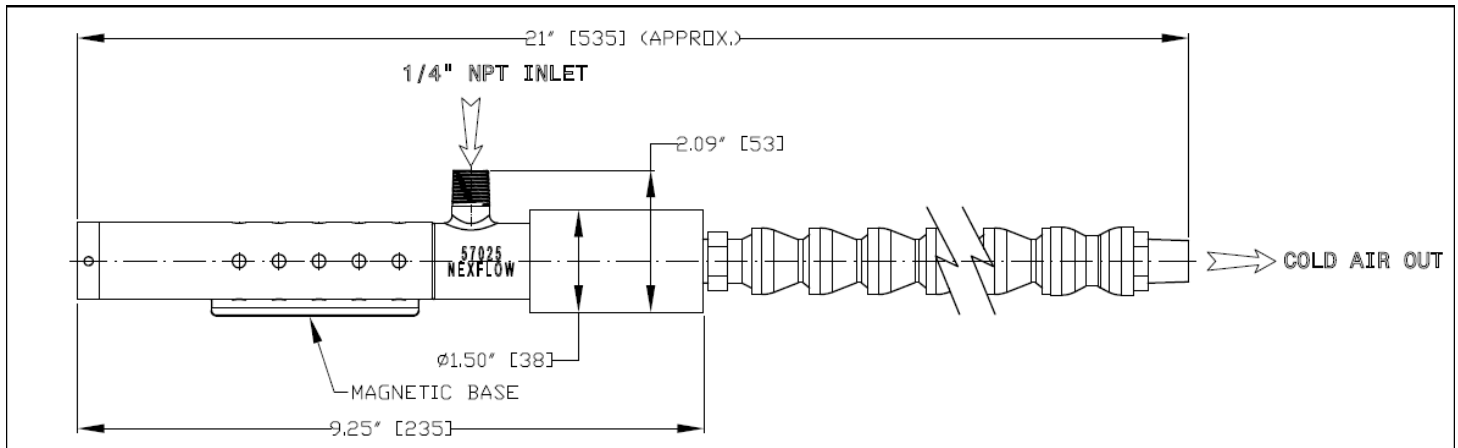
### **USE OF THE FRIGID-X™ TOOL COOLING SYSTEM**

1. Mount the unit where it is appropriate to be able to direct the cold air onto the part or spot to be cooled using the flexible hose provided in the kit.
2. Both, a fan nozzle & cone nozzle are provided with the unit. Install the unit such that the nozzle is as close to the area to be cooled as possible & try to be within 1/2" on the part.
3. The temperature can be reduced along with the air flow by using a regulator. Lower air flow will reduce overall air use should the maximum cooling effect be not required.

### **TROUBLESHOOTING AND MAINTENANCE OF THE UNIT**

1. **HIGH INLET TEMPERATURE:** If the compressed air supply lines are warm or hot due to compressed air being heated by running in hot areas like furnaces, in direct sunlight or across ceilings, then the unit will not refrigerate as well. Seek out alternative air supply.
2. **LOW IN LET PRESSURE:** Restrictions in the air supply line from restrictive fittings, small air lines etc. will create excessive pressure drop & lower performance. Remove restrictions & increase airline size.
3. **POOR OUTPUT PRESSURE DESPITE OF NORMAL INLET TEMPERATURE AND LINE PRESSURE:** Excessive back pressure at the cold outlet will reduce performance. Always use either the hose kit supplied & keep a minimum of 3/8" ID in any hose used to minimize back pressure. Sometimes the cold outlet will freeze if water is in the system. That can be corrected by blowing air with an air gun into the cold end muffler while the unit is turned off or, turn off the unit to thaw. To prevent freezing again, add a dryer to the compressed air supply line.

Maintenance is normally not required if the unit is properly filtered but if cleaning is necessary it can be easily dismantled, cleaned & re-assembled.



For Assistance please contact  
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