



YOUR ULTIMATE GUIDE
to Protecting Your Equipment
During the Winter Months

Prevent shutdown and expensive repairs

JHFOSTER

[John Henry Foster.com](http://JohnHenryFoster.com)

Automation • Robotics • Compressed Air • Service

Effects Winter Temps Have On Compressed Air Equipment:

- **Condensation Freeze -** Condensation freeze up can cause part wear-out and damage
- **Damaged system -** Worn out parts can cause a machine to malfunction or stop operating altogether. This leads to shutdown and the need for system repair.



How To Prevent These Effects

Check & Replace Condensate Drains Regularly

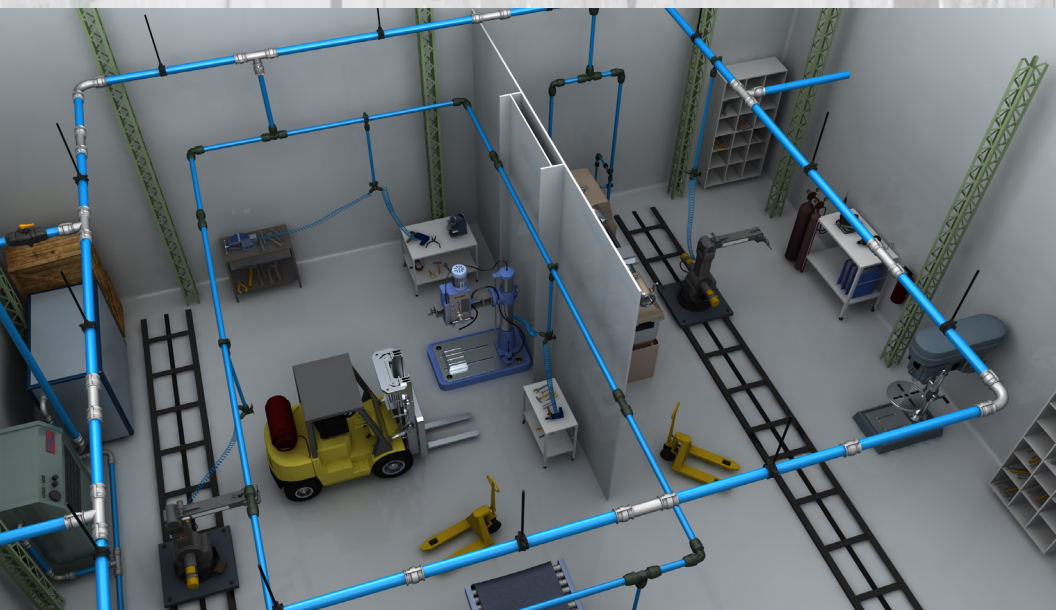
When condensate isn't collected correctly, the condensate can make its way to places that it doesn't belong. This means that it can freeze on or in equipment and cause cracking or malfunction. Ensure that your condensate drains are operating correctly. In fact, we recommend that you check the drains frequently if your compressed air system is exposed to temperatures below 40 degrees Fahrenheit.



How To Prevent These Effects

Heat Your Pipes

Just like the pipes in your house, pipes in your compressed air system may experience freezing if temperatures are too low. Pipes exposed to the cold will require a heating source to ensure that a freeze-up does not happen. If your compressed air is exposed to lower temperatures, you may also need a regenerative dryer to prevent freeze up of your air lines and any components down stream.



How To Prevent These Effects

Check Your Inlet Air Filter Regularly

If your compressor finds itself outside, snow or ice may find its way into your inlet air filter. If your unit is housed inside, but the temperature is cold, a similar event may take place.

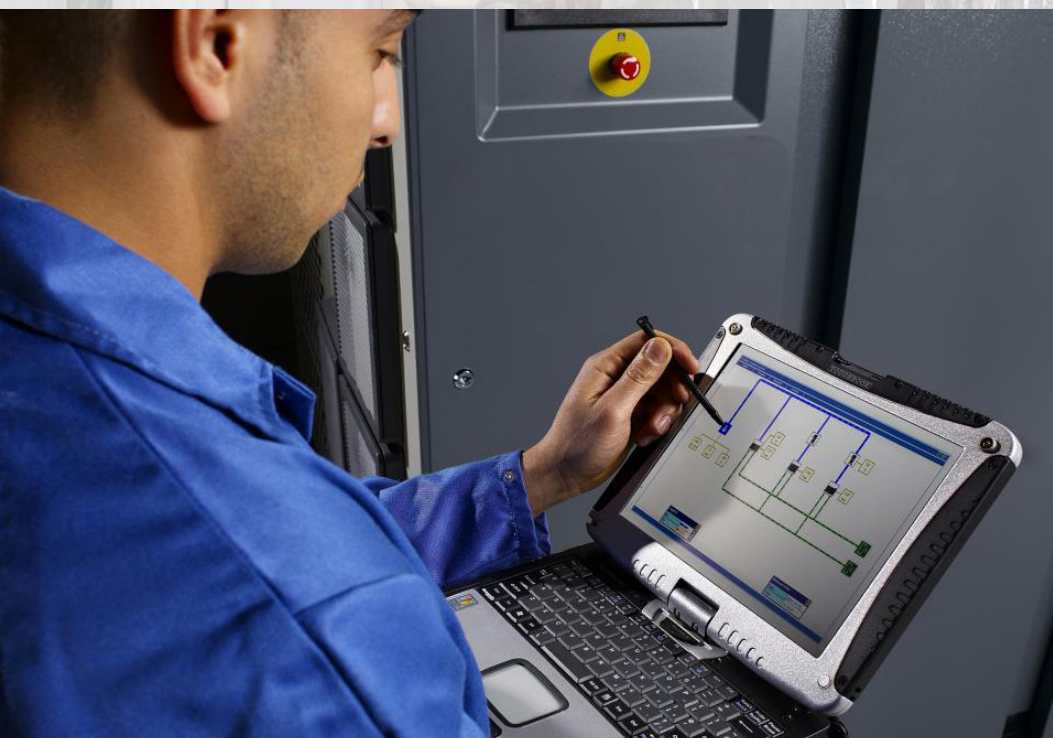
It is important to check your filter frequently if either scenario is the case to ensure that the filter is free of snow or ice.



How To Prevent These Effects

Check For Leaks

Leaking compressed air systems can be a sign of damage done to the system by cold environments. If you notice a leak, take quick action to fix the leak and to prevent one from happening in the future. Leaking systems cause energy loss which leads to a higher energy bill.



How To Prevent These Effects

Check Your Oil Temperature

Compressor oil needs to be up to a “normal” temperature before starting your system otherwise the motor will labor. This causes a hard starting condition which can result in a motor overload trip. This may require a heated compressor room.

How To Prevent These Effects

Service Your Machine Regularly

Servicing your machine regularly not only helps you keep your machine running efficiently, but it also allows you to notice when damage is done from cold temperatures.



How To Prevent These Effects

Insulate or Add Heat To The Compressor

Compressed air systems do not like temperatures below 40 degrees Fahrenheit. We recommend housing your compressor in a location that is above this temperature. However, if this is not possible, heat lamps or other heat sources can be used to keep your compressor from cooling down too much.



What We Do

JHFoster offers system evaluations and engineers solutions fit for your specific company. In addition, we install projects, integrate systems, and provide customer service for your projects. We manage the entire process from start to finish for you. We are a one-stop-solution shop and service provider for automation, robotics, and compressed air systems.

Choosing a full-service solution over individual ones makes the process much easier and simpler for your team to manage. As a result, you get greater consistency, quality and a lower cost of ownership.



Automation



Robotics



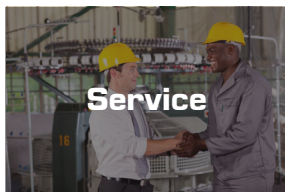
Compressed Air



Service

Our Process

A full-service solution makes maintaining a compressed air, robotics, or automation system much easier. You also get increased efficiency, consistency, and quality.



Our Locations

HEADQUARTERS

Eagan, MN

3103 Mike Collins Dr
Eagan, MN 55121
651.452.8452

ROBOT LAB

Eagan, MN

980 Lone Oak Rd
Eagan, MN 55121
651.452.8452

REGIONAL

West Fargo, ND

1016 5th Ave, Suite 3
West Fargo, ND 58078
651.452.8452

REGIONAL

Cedar Rapids, IA

935 Metzger Drive
Hiawatha, IA 52233
319.200.1316

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Don't Have a Team to Service Your Compressor or Need Support?

Feel free to contact us with any questions about shutdown prevention practices or to schedule service from our service technicians. Email us at solutions@jhfoster.com or call us at 800.582.5162.

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