

Repairing without draining isn't a pipe dream.



N-Two, an innovative new company in the area is reducing your costs and preserving the environment with an innovative freezing technique that allows them to repair your pipes quickly and efficiently.



“It's time we moved into the 21st century and stop draining and start freezing piping systems in order to make repairs.”

- Wayne Chuck - Owner of N-Two Cryogenic Inc.

Many contractors, building managers and property owners have been faced with the same terrible situation. An immediate repair is required and you can't afford to shut down and drain the buildings water supply, heating or cooling system. What are your options?

N-Two Cryogenic Inc. uses Liquid Nitrogen to rapidly freeze virtually any diameter pipe and fluids such as water, glycol and some oils. Unlike other companies who use Carbon Dioxide, Liquid Nitrogen is colder and freezes faster. Most importantly, freezing pipes is a far faster process and better for the environment.

“Pipe freezing offers huge benefits and savings versus draining piping systems and freezing can avoid problems that can arise from opening, draining and allowing air into a system. When you add up the amount of time spent draining, refilling, purging trapped air from a system freezing is the logical answer,” says Wayne Chuck, owner of N-Two. “Plus there's the increased corrosion arising when you open a system and disturb the sludge and sediment along with the noise that occurs in pipes after refilling and of course the cost of replacing chemicals to the system, freezing is the method that makes the most sense providing you know what your doing and can stop the flow in the pipe,” Mr. Chuck points out. This method allows contractors to not only make repairs, but also easily add valves, meters, tie in new lines and much more.

From a green perspective, this method offers two fantastic benefits. N-Two conserves energy by not draining systems because there is no need to refill and reheat or recool the contents. As well, freezing means not using any chemicals to create the plug,

and thus means no harmful chemicals are being dumped when the job is done. “Liquid Nitrogen is safe - 80% of the air we breathe is Nitrogen,” says Mr. Chuck.

Just one of many examples of their expertise includes a job done at Lester B. Pearson Airport's terminal 3. Shutting down the cooling system to relocate a 6" line was not an option. Secure freeze plugs were formed in 2 separate areas of the line, which held 30% glycol. This allowed them to weld in four new joints. Moreover, it eliminated the need to displace thousands of gallons of glycol.



Hot Tapping plug.

Alternatively, N-Two specializes in Hot Tapping, which allows for addition of new branches without disruption of flow or leakage.” Our machines can handle a variety of pipe diameters and high pressure systems. After a fitting and valve are installed on the line, a hot tapping device drills into the pipe. The compartment fills, air is released and the valve is closed off,” Mr. Chuck explains.

N-Two originated in Concord Ontario, and was founded by Mr. Chuck, who has over 18 years of experience in this business. “I started working for someone else, but noticed ways that the process could be improved. So I decided to start my own company with my improvements and things have just advanced from there.” The growth of the company had a surprising catalyst. “The I.T. sector actually helped us in a big way,” Mr. Chuck recalls. “As companies depended more on computers and servers, they dedicated entire rooms to them. Computers generate a lot of heat, so the rooms required cooling systems, typically water pipes. When repairs were necessary, the cool water couldn't be drained or they'd risk overheating of their computers, so our solution was the best by far.” As the I.T. sector has grown, so has N-Two.

With so much success in Concord serving the G.T.A., expansion to Ottawa made perfect sense. “We have been serving many clients in the Ottawa area for years,” explains Mr. Chuck. “We saw the potential growth opportunity in the area and we received great feedback from our customers here. We're thrilled to join and service the community.”



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