



Healthcare Portfolio

Dental Office Medical Gas System Installation

About Us

Since 1985, High Purity Systems has provided precision welding, quality piping installation and fabrication solutions to the industrial sector. High Purity Systems delivers value and responsiveness to meet the ever-changing needs of our clients. Expertise includes Class 100 Clean Room orbital welding, onsite piping installations from stainless steel to carbon steel, piping fabrication shipped nationally and custom prototyping.

Contact Us

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The Challenge

A design build firm specializing in medical office build outs and remodels was working on a new dental office in the same complex where HPS was installing a medical gas system for another client. The company's owner happened to walk by our work area noticed our team's work. Instantly recognizing our high quality and attention to detail, the owner approached the HPS project manager to ask if our team could also install medical gas piping for his new dental office nearby. The owner stated that it is difficult to find contractors who have the attention to detail he requires, as well as the certifications and knowledge to properly and safely install medical gas systems. He had been through an unpleasant experience in the past where a medical gas system was not properly installed and there was potential for litigation. He knew how critical it is that medical gas systems be installed properly and to code.

The Strategy

To install the medical gas system, HPS used CFOS (Cleaned for Oxygen Service) copper pipe and fittings, which are clean, bagged and hydro carbon free, to deliver oxygen to patients in a medical office.

In addition to stringent healthcare standards, this particular job had strict time constraints requiring flexibility from HPS. From an immediate mobilization and commencement of work, we needed to adapt our process in order to work in an occupied space with other construction trades, and the building firm owner was under a tight deadline to get the new dental office up and running. By adjusting our installation schedule to minimize disruptions for other occupants of the office building and keep noise levels at a minimum during early mornings and late nights, we finished the installation in just over a week.

Once complete, our installation underwent six rigorous tests including an initial system blowdown, primary pressure test, cross connection test, piping purge, 24 hour standing pressure testing, and third party analysis and verification to ensure that it met the current NFPA 99 Health Care Facilities Code — our system passed every test.



The Result

It is a testament to our commitment to excellence on every project that a client so dedicated to quality installations took notice of our work and approached us with an inquiry. The firm was pleased with our open communication and willingness to adapt to their schedule, which led to continued collaboration on several projects since the initial installation.

