

- Saves Time
- Saves Money
- Increases Installation Options

Product: MediTrac[®] Flexible Medical Gas Piping System

Location: Exceptional Dentistry, Dixon, IL

Project Overview:

MediTrac partnered with JPI MedGas of Batavia Illinois on the expansion and renovation of the Exceptional Dentistry project in Dixon IL. This was a multi phase project that would result in a completely new medical gas system in the expanded and renovated dental clinic.

Installation Overview:

Phase one of the project was running a new Nitrous Oxide and new Oxygen line in parallel from the lower level tank storage room and manifold up to the main level emergency shut off valve. The lines were then run from the emergency shut off valve back down to the lower level to feed the existing dental chairs remaining in operation. Extra lengths of MediTrac were left above the lower level ceiling to connect to the new chair piping in phase two.

Phase two of the project consisted of completing the short runs between the chairs with cleaned and capped copper and brazing. These lines were run short distances to create two connection points for each gas. The MediTrac was then disconnected from the piping to the old chairs that were to be removed, and reconnected to the piping for the 4 new chairs.

Most of the piping was required to be installed above a grid ceiling in the lower level with approximately 4" of space between the ceiling system and the wood floor structure. There were numerous existing utilities and obstructions further limiting the installation work space, and increasing the risk involved with hot work.

Summary of CMT Materials:

- 125' of 1/2" MediTrac CMT
- 2- 1/2" MediTrac Tees
- 10- 1/2" MediTrac straight fittings

Summary of copper materials saved:

- 125' 1/2" copper tube
- 30- 1/2" copper 90's/45's
- Consumables such as Nitrogen, brazing rod, fuel, prep materials

Labor:

The planned and typical installation time to do the complete project for one installer was 40 man hours. Using the MediTrac in conjunction with small portions of traditional copper allowed the project to be completed in 24 hours for a 16 man hour savings.

Summary:

The use of MediTrac allowed the project to be completed two days quicker and with less risk of hot work in the tight ceiling system. The project was completed in 40% less hours than allotted and reduced the joints in the system by 60%.

