



## Major Dental Equipment Utility Specifications

### Oxygen/Nitrous Oxide

IMPORTANT –ensure all plumbing is installed in accordance with AS2896-1998  
“Medical gas systems - Installation and testing of non-flammable medical gas pipeline systems”

NOTE. Oxygen and Nitrous Oxide gas lines are specified in differing diameters to provide CROSS PROTECTION; designed to prevent misconnection of Oxygen and Nitrous Oxide Piping. Both gas lines piping diameters specified provide more than adequate gas flow for a dental surgery environment.

1. O2 OXYGEN Supply 1/2" (12mm) dia copper pipe –refrigerated grade grade from central tank location with branch to each operatory as required.  
MARK MEDICAL OXYGEN PIPING WITH CORRECT LABELLING
  - Finish within operatory as required for connection to 34060 gas outlet plate (refer manufacturer’s instruction for outlet)
  - Finish within central gas tank location for connection to gas connection manifold gas outlet plate (refer manufacturer’s instruction for manifold)
  
2. N2O NITROUS OXIDE Supply 3/8" (10mm) dia copper pipe –refrigerated grade grade from central tank location with branch to each operatory as required.  
MARK MEDICAL NITROUS OXIDE PIPING WITH CORRECT LABELLING
  - Finish within operatory as required for connection to 34060 gas outlet plate (refer manufacturer’s instruction for outlet)
  - Finish within central gas tank location for connection to gas connection manifold gas outlet plate (refer manufacturer’s instruction for manifold)
  
3. V VACUUM SUPPLY 1/2" 12mm dia line from central vacuum line for connection to 34060 gas outlet plate (refer manufacturer’s instruction)  
  
*Can be reduced to 1/2" from main central vacuum line at appropriate location. Note that care should be made that liquids with suction line cannot "run back " and reach outlet station.*

#### OPTIONAL

4. Vs Switching Wire Supply 2 core switching wire from dental vacuum location for RA unit cupboard

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