

**Assessment of Clinical Skills/  
Évaluation des habiletés cliniques**

**Handpiece Connections/  
Connections pour pièces  
à main**



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Revised **May 2019**

**Dalhousie University ..... 2**  
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## Console Image

Air Pressure 42-45 PSI



Lowspeed



- **Standard 4-hole configuration**
- **Non-lighted**
- **No coolant spray**

Highspeed



- **6-hole configuration**
- **Bulb located in the handpiece tubing**
- **Voltage output at the handpiece is a fixed 5.5Vdc**

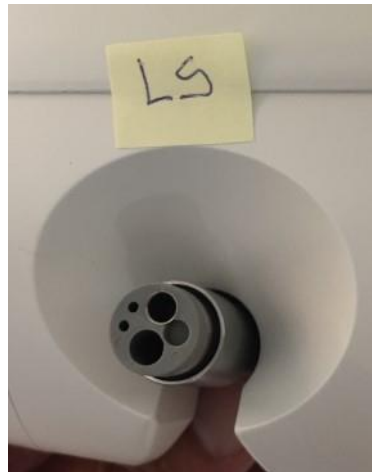
Although use of fiber optics is recommended, a 4-hole handpiece will function on the 6-hole connection.

**Console Image**

Air Pressure 45 PSI

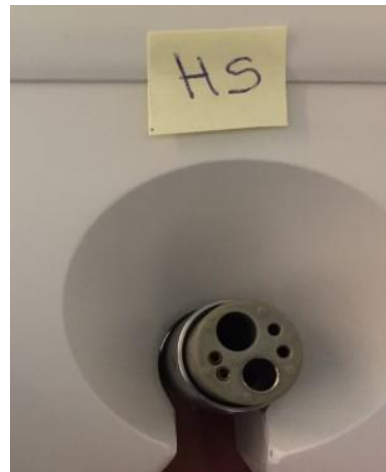


Lowspeed



**6-hole connecting tubing to be used with Fiber Optic High Speed**

Highspeed



**4-hole connecting tubing for use with Low Speed**

Although use of fibre optics is recommended, a 4-hole (non-bayonet style) handpiece will function on the 6-hole connection. Without any handpieces attached to them, the basic air pressure is set at 45 PSI (for both the high and low speed). When attaching the handpieces to them, the pressure will vary depending on the brand of handpieces used.

**Image de la console/Console Image**

Pression d'air/ Air Pressure 40



Les connections pour la pièce-à-main à haute vitesse (turbine) et la pièce-à-main à basse vitesse (tour lent) ont la même configuration. Il s'agit d'un coupleur à fibre optique de 6 trous (6-pins fibre optic coupler).

The highspeed handpiece and low speed handpiece have the same connector. It is a 6-pin fibre optic coupler.

## Console Image

Air Pressure 44-55 PSI



This clinic has been designed to primarily support electric handpieces but does have one 6-hole tubing for air turbine handpieces. It is not equipped with 2 air turbine tubings and, therefore, cannot have both slow speed and high speed air turbine handpieces attached at the same time. In order to change between a slow speed and a high speed air turbine handpiece, it is necessary to physically detach the first handpiece and install the second handpiece.

It is recommended that all participants use electric handpieces that have an 'e' style connection. Arrangements can be made with the University of Alberta to use 2 electric handpieces. No rental fee will be charged but the University of Alberta will require a deposit.

**Console Image**  
Air Pressure 40 PSI



Lowspeed



Highspeed



**Console Image**  
Air Pressure 40-42 PSI



Lowspeed



Highspeed



Although use of fibre optics is recommended, a 4-hole (non-bayonet style) handpiece will function on the 6-hole connection.



## Console Image

Air Pressure 40-42 PSI



University of Toronto has Kavo Environment and Belmont dental units. Each unit has two high-speed (HS) fiber optic 6-hole handpiece connections and one slow-speed (SS) non-fiber optic Midwest style handpiece connection.

The slow-speed handpiece connection has no water and cannot be used with a high-speed handpiece.

Although use of fibre optics is recommended, a 4-hole (non-bayonet style) handpiece will function on the 6-hole connection.

**Console Image**  
Air Pressure 42 PSI



Universal connector of the handpiece hose from our Planmeca dental unit. Two piece hoses that can connect to highspeed and slowspeed handpieces, one at each chair.

Either 4-pin slowspeed or 6-pin highspeed handpiece can be connected to the hose. Most 4-hole hand pieces will connect to the 6-hole connector.



Highspeed: typical 4-pin gasket

Lowspeed: typical 6-pin gasket