



# Universal Anaesthesia Machine

## PRE-OPERATIVE CHECKLIST

### I. Perform at the **START** of every **OPERATING** session

#### INSPECT & TEST

1. Check stability: casters OK, brakes function
2. Connect and check available gas sources: correct pressure, no leaks, tug test on pipelines
3. Check bellows OK: move up and down and observe balloon moves freely
4. Check breathing system: use bellows to inflate 2-litre bag or dummy lung. Check action of balloon while bag inflates/deflates. (If no dummy lung is available, proceed to 5)
5. Check resistance by pushing bellows with patient Y piece blocked (maximum pressure should be 55 cms water)
6. Check the water trap and empty if necessary
7. Check the gas scavenging is configured correctly, if available

#### VAPORISER

1. Check the volatile agent level in the vaporiser and fill as necessary
2. Check operation of the vaporiser selector wheel (press silver button to unlock)

#### POWER

1. Switch on green mains isolator switch on the UAM back (there will be a delay while the system inspects the quality of the electrical power)
2. Press and hold 'On/Off' button next to the oxygen monitor screen until it lights up

#### OXYGEN MONITOR

1. Using 100% cylinder/pipeline oxygen, set oxygen flowmeter to 6 L/minute and wait for maximum reading on monitor
2. Press 'CAL', then 'O2', then 'GO'. When the calibration is finished, press 'EXIT' two times.
3. Turn off the oxygen. Draw room air through the system with the bellows until the reading reaches its lowest setting
4. Press 'CAL', then 'AIR', then 'GO'. When the calibration is finished, press 'EXIT' two times.

#### OXYGEN SUPPLY

1. Turn on the oxygen concentrator by using the switch on the front of the machine
2. Set oxygen flow to 8 L/minute, wait 1-3 minutes. Oxygen % should be greater than 90%

#### NITROUS OXIDE

1. Set oxygen flow to 6 litres per minute
2. Set Nitrous Oxide flow to 4 litres per minute
3. Gradually turn down the oxygen flow to reduce FiO<sub>2</sub> to 25% and lower-- nitrous oxide flow should cut off when oxygen concentration is <25%

OVER 

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## PRE-OPERATIVE CHECKLIST

### II. Perform BEFORE each case

1. Check the level of volatile agent in the vaporiser
2. Ensure you have the correct breathing circuit

### III. Perform at the END of each case

1. Turn off the vaporiser
2. Replace the bacterial filter
3. Clean any surfaces that may have been contaminated or soiled

### IV. Perform at the END of every OPERATING session

1. Turn off the vaporiser
2. Operate bellows six times to purge volatile agent from the breathing circuit
3. Turn off flowmeters and cylinders. Disconnect or turn off pipeline supplies.
4. Turn off the oxygen concentrator
5. Turn off the oxygen monitor: press and hold On/Off button next to the screen
6. Turn off the patient vital signs monitor if one is plugged into the UAM
7. Turn off the main power switch on the back of the machine (*Exception*: if the battery in the oxygen monitor or the patient vital signs monitor is depleted, leave the main power switch on to trickle charge these batteries)
8. Wipe down the machine with a cloth dampened with a mild detergent (the stainless steel tray may be removed for sterilization if necessary)

For service issues, please contact **Gradian Health Systems** at [service@gradianhealth.org](mailto:service@gradianhealth.org)

