



# Gas consumption in the Hypoxystation is lower than other hypoxia workstations... by far!



The Whitley Hypoxystation creates physiological cell culture conditions with regard to temperature, humidity and gas atmosphere. The uniquely low gas consumption ( $N_2$  and  $CO_2$ ) of a Hypoxystation is significant because:

- Minimal gas flow means a stable, continuous low oxygen atmosphere
- Low daily gas consumption decreases the running costs for the hypoxia workstation
- Lower gas usage signifies less maintenance in changing gas bottles.

Don Whitley Scientific evaluated nitrogen and carbon dioxide consumption for a H35 Hypoxystation "at rest", over a 48 hour period with the oxygen level set to 0.1% and  $CO_2$  set to 5%. (These parameters, including the extremely low oxygen concentration, more typical for many of our Hypoxystation users.) The gas conditions had stabilised at the desired levels before the test commenced, and the workstation was not accessed during this time. The gas consumption for the Hypoxystation is shown below in a comparison with published data for comparable workstations by other manufacturers.

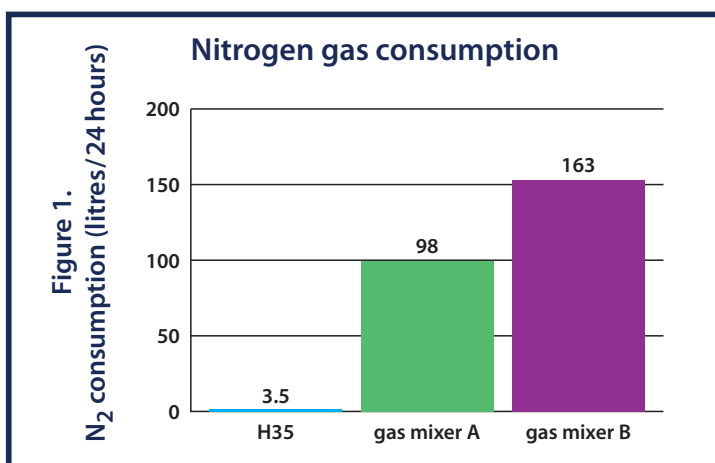


Figure 1. Shows that the Hypoxystation uses only approx.3.5 litres of  $N_2$ /24 hour period, a factor of up to 46 times less than competitors' hypoxia workstations.

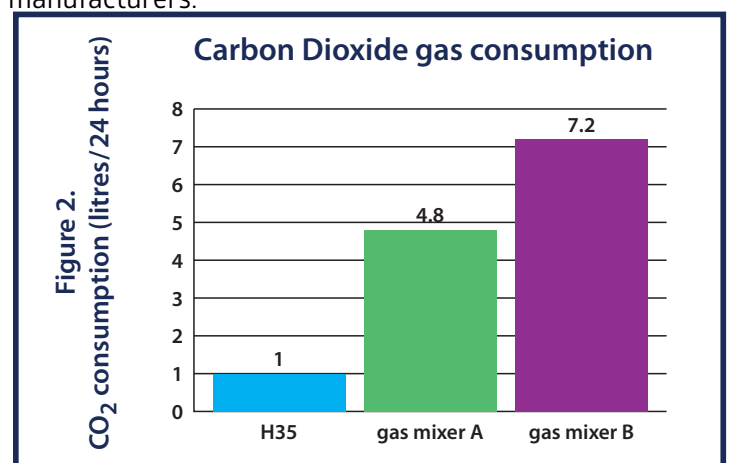


Figure 2. Shows that the Hypoxystation uses only approximately 1 litre of  $CO_2$ /24 hour period, which is up to 7 times less than competitors' hypoxia workstations.

Evaluating the "at rest" gas usage data provides a very good overview of probable gas requirements and allows a helpful comparison of different workstations with the very low gas consumption achieved by the Hypoxystation. The Hypoxystation achieves the lowest nitrogen and carbon dioxide consumption rates of any comparable system on the market.