

DIGITAL IHS MACHINE CHECKLIST

AIMS:

- 1) To ensure that medical pipeline gas supplies are normal working range
- 2) To ensure the electrical supply is correctly attached.
- 3) To check the automatic cut-out of nitrous oxide flow
- 4) To check reservoir bag for leaks

NOTE: The Digital machine performs self-diagnosis at both start-up and during operation. When any errors are detected the unit displays EE on the % oxygen display and an error code on the L.P.M. flow display. If an error code appears, discontinue use immediately and contact R A Medical Services Ltd for further advice - quoting the error code displayed on the unit.

Summary Checks to be performed prior to equipment use

Failsafe Oxygen

- 1) With **both** oxygen and nitrous oxide medical gas supply connected. **Set machine at 50%** mixture with 6 L.P.M. flow. **Turn off oxygen supply** - either at the oxygen E size cylinder on the 4 cylinder stand or disconnect the oxygen probe from the gas specific wall terminal.
- 2) **Wait** for oxygen to drain from the system. Nitrous oxide flow should cease and the **oxygen failure alarm should sound.**

Failsafe Nitrous

- 1) **Turn oxygen supply back on** - either by opening the O2 cylinder or re-connecting the oxygen hose to the gas specific wall terminal.
- 2) **Turn off nitrous oxide supply** by turning off the cylinder or disconnecting the nitrous oxide probe from the gas specific wall outlet. Nitrous oxide should cease to flow and the nitrous oxide failure alarm should sound. **O2 should continue to flow.**

Oxygen Flush

- 1) With **both** oxygen & nitrous oxide supplies on, **press the oxygen flush button.**
- 2) **'Flush'** should be displayed and oxygen flow from the machine outlet

Inspiratory Valve & Bag Check

- 1) **Occlude common gas outlet** (using the palm of hand)
- 2) **Press oxygen flush** to inflate reservoir bag
- 3) Check that the bag holds pressure and no gas escapes from the inspiratory valve.

Machine ready for use

Turn over the page for mobile 4 cylinders stand checks - if applicable

Digital Head Mobile 4 Cylinder Stand Checklist

NOTE: 4 cylinder stands should be fit with four gas cylinders at all times - 2 of each oxygen and nitrous oxide. These should be identified as **FULL** and **IN-USE**. Only ever turn on one O2 or N2o cylinder at a time. This is to prevent cross draining.

High-Pressure Leak Test

- 1) **Turn off** the Digital flowmeter power at the source
- 2) Turn on both **IN-USE** Cylinders, check contents is ok
- 3) **Turn off IN-USE** cylinders
- 4) Turn on "**FULL**" oxygen and "**FULL**" nitrous oxide E size cylinder
- 5) Observe readings on stand yoke pressure gauges
- 6) **Turn off** both "**FULL**" oxygen and nitrous oxide cylinders **WAIT 30 seconds**
- 7) Needles on both gauges should remain constant without any immediate fall in pressure
- 8) Turn on **BOTH IN-USE** cylinders

Machine ready for use

Note: Ensure that a **bodox seal** is fitted to each gas cylinder point. It is advisable to retain a small stock of replacement seals (4) as these can be lost when the cylinders are changed. The nitrous oxide pressure gauge is not an indication of cylinder contents.

Recommended two side print

Issue 4 01-10-2023 R A Medical Services LTD T: **01535 652 444** - info@ramedical.com



ISO
9001 : 2015
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Cert No. 14132499

