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Subject: Pumping box and analyser progress  
To: Mark Hickox <mark.hickox@thermosealgroup.com>  
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Hi Mark and Nigel,

I will be away on leave for 2 weeks until Wednesday 6th June, so I am just checking in with you to advise you of the progress being made.

- The model name for the analyser has been decided upon: "NM-Argon". With a single label change we can make these as NM-Krypton and NM-Xenon if required.
- The custom Thermoseal label design for the analyser has been decided upon and approved by Nigel and Samantha.
- Production has been started on 50 analysers with Thermoseal logos. These are being manufactured as variants of our existing analyser design but with displays reversed to read the absence of oxygen, the Thermoseal logo on the top of the LCD itself, and the LCD bezel to read "% NON-OXYGEN GASES".
- Production will start on 20 pumping boxes the week of 21st May. Steve Nixon, Commercial & Technical Director, is overseeing this in my absence, if you have any queries regarding the design, or if you need to make changes, please advise Steve as soon as possible.
- The pump on/off switch will be mid-grey, situated on the left hand side of the pump box, 40mm from the top of the box, allowing left or right handed use.
- Bumper feet will be added.
- Probe storage will be achieved by a hole in the top of the pump box and an internal channel to stow the probe needle inside the pump box itself.
- A simple label (identical to the one on the back of the NM-Argon) will be applied to the bottom edge of the pump box housing. Thermoseal will create its own part number/serial number label to go on the bottom.
- Viamed will supply with 60cm of tubing as standard on each unit, additional tubing can be provided if required. Tests that I performed using 2.4mm bore tubing revealed a flow rate of 2m/sec through the tubing, the analyser performed well with a 5m length of tubing, taking just 2.5secs to register a change of reading after activating the pump.
- We have not yet been able to incorporate a rechargeable battery pack, to keep production time to a minimum we feel the best option is to use standard AA batteries and investigate this for future orders. Calculations indicate the pump will theoretically run for 30 hours, which if the pump is activated for 10 seconds at a time, equates to over 10,000 samples. Even if the sample takes as long as 30 seconds, we are still looking at 3,600 samples, or roughly 10 per day, every day of the year. So, unless the unit is in extremely heavy use, changing the batteries annually should be adequate.
- We have not yet developed low battery indicator circuitry and suggest that we look at that for a future revision in order to speed up production.

I will catch up with my colleagues upon my return to work and hopefully we will be close to being able to ship some finished units to you. If you have any queries in the meantime, please contact Steve Nixon on 01535 634542 or [steve.nixon@viamed.co.uk](mailto:steve.nixon@viamed.co.uk)

Regards,

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