

Manual Supplement

Manual Title: VT650/VT900A Users
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This supplement contains information necessary to ensure the accuracy of the above manual.

Supplement Issue #	Summary of Changes
1	<ol style="list-style-type: none"><li data-bbox="542 258 1443 310">1. A note has been added recommending a warmup period of 1 hour for air flow measurement accuracy and stability.<li data-bbox="542 321 1308 352">2. Helium and Heliox accuracy specification has been removed.<li data-bbox="542 363 1141 386">3. CO2 accuracy specification has been removed

Change #1, TM-1007

On page 36, replace Table 10 with the following:

Gas Type	Description
Air	Standard room air.
N2	100 % Nitrogen
N2O	100 % Nitrous Oxide
CO2 ^[2]	100 % Carbon Dioxide
O2	100 % Oxygen
Ar	100 % Argon
Heliox ^[2]	21 % Oxygen, and 79% Helium
O2 bal N2O mix ^[1]	Measured Oxygen, balance Nitrous Oxide
O2 bal He mix ^{[1] [2]}	Measured Oxygen, balance Helium
O2 bal N2 mix ^[1]	Measured Oxygen, balance Nitrogen
^[1] For these gases, the oxygen concentration is measured using the oxygen sensor in the airflow channel. The balance is the other gas. These gases can only be measured in the airflow channel, not available in the ultra-low-flow channel of the VT900A. ^[2] Accuracy not specified.	

On page 48, replace Table 14 with:

Table 14. Airway Flow Range and Accuracy

Gas	Range	Specification
Main Airway Flow		
Air, Nitrogen (N2), Oxygen (O2)	0 to ± 200 slpm	± 2.0 % of rdg or 0.04 slpm ^[1]
	200 to 300 slpm -200 to -300 slpm	± 2.5 % of rdg
Argon, O2 bal N2	±300 slpm	3.0 % of rdg or 0.08 slpm, typical
Nitrous Oxide (N2O), O2 bal N2O	±150 slpm	3.0 % of rdg or 0.08 slpm, typical
Ultra-low Flow (VT900A)		
Air, Nitrogen (N2), Oxygen (O2)	±0.750 slpm	1.7 % of rdg or 0.01 slpm
Argon	±0.750 slpm	3.0 % of rdg or 0.02 slpm, typical
Nitrous Oxide (N2O)	±0.400 slpm	3.0 % of rdg or 0.02 slpm, typical

Notes:

- *Ultra-low flow that is over range can be detected as unstable. If this occurs, reduce flow.*
- *Flow specifications are with laminar flow input.*
- *A one-hour warm-up is recommended for maximum measurement accuracy and stability. Flow rate sensors are subject to offset drift during the warm-up period.*

^[1] ± 2.5% of rdg (-22 to -14 slpm, +7.5 to +9.5 slpm)

On Page 49, Replace the Gas Type section with the following:

Gas types

Air, Nitrogen (N₂), Nitrous Oxide (N₂O), Carbon Dioxide (CO₂)^[1],
Oxygen (O₂), Argon, Heliox^[1] (21 % O₂, 79 %He^[1]), Oxygen/
Nitrogen, Oxygen/Nitrous Oxide, Oxygen/Helium^[1]

^[1] Accuracy not specified.