

Blood Gases

Alpha-Stat

Don't tell the lab that the patient is cold
You will adjust ventilation to achieve a PaCO₂ of 40
This is equivalent to a corrected PaCO₂ of ~32

pH-Stat

You tell the lab what the patient's actual temp is
You will then adjust ventilation to achieve a PaCO₂ of 40
This is equivalent to a corrected PaCO₂ of 40
Many folks believe that this is too high for the enzymatic reactions while the patient is cold

May be best to split the difference and aim for

PaCO₂ of 44 for Alpha-Stat and 36 for pH-Stat

Oxygen

If using Alpha-Stat, you must correct the PaO₂ by Subtracting 5 for every degree below 37 of patients actual core temp