

Accumulator Formulas

FORMULA FOR:	WORD FORMULA:	LETTER FORMULA:
PRESSURE OR VOLUME With Constant T (Temperature)	Original Pressure x Original Volume = Final Pressure x Final Volume	$P_1V_1 = P_2V_2$ Isothermic
PRESSURE OR TEMPERATURE With Constant V (Volume)	Original Pressure x Final Temp. = Final Pressure x Original Temp.	$P_1T_2 = P_2T_1$ Isochoric
VOLUME OR TEMPERATURE With Constant P (Pressure)	Original Volume x Final Temp. = Final Volume x Original Temp.	$V_1T_2 = V_2T_1$ Isobaric
PRESSURE OR VOLUME With Temp. Change Due to Heat of Compression	Original Press. x Original Volume ⁿ = Final Press. x Final Volume ⁿ	$P_1V_1^n = P_2V_2^n$
	Final Temp./Orig. Temp. = (Orig. Vol./Final Vol.) ⁿ⁻¹ = (Final Press./Orig. Press.) ^{(n-1)/n}	$T_2/T_1 = (V_1/V_2)^{n-1} = (P_2/P_1)^{(n-1)/n}$