

POWER MACHINES NS
FORMULA SHEET

1. $Q = W + \Delta U$

2. $\Delta U = mC_v\Delta T$

3. $Q = mC_v\Delta T$

4. $Q = mC_p\Delta T$

5. $Q = P_1V_1 \ln \frac{V_2}{V_1}$

6. $\Delta S = m \left(C_v \ln \frac{T_2}{T_1} + R \ln \frac{V_2}{V_1} \right)$

7. $W = P_1\Delta V$

8. $W = P_1V_1 \ln \frac{V_2}{V_1}$

9. $W = \frac{P_1V_1 - P_2V_2}{n-1}$

10. $W = \frac{P_1V_1 - P_2V_2}{\gamma-1}$

11. $R = C_p - C_v$

12. $\gamma = \frac{C_p}{C_v}$

13. $\frac{P_1V_1}{T_1} = \frac{P_2V_2}{T_2}$

14. $PV = mRT$

15. $P_1V_1 = P_2V_2$

16. $P_1V_1^n = P_2V_2^n$

17. $\frac{T_2}{T_1} = \left(\frac{P_2}{P_1} \right)^{\frac{n-1}{n}} = \left(\frac{V_1}{V_2} \right)^{n-1}$

18. $\frac{T_2}{T_1} = \left(\frac{P_2}{P_1} \right)^{\frac{\gamma-1}{\gamma}} = \left(\frac{V_1}{V_2} \right)^{\gamma-1}$

19. $h = h_f + xh_{fg}$

20. $h = h_g + C_p\Delta T$

21. $h = h_f + h_{fg} - h_g$

22. $V_{sup} = \frac{n-1}{n} \left(\frac{h_{sup} - 1941}{P} \right)$

23. $x = \frac{V_m}{V_g}$

24. $x = \frac{M}{M+m}$

25. $U = H - PV$

26. $gZ_1 + U_1 + P_1V_1 + \frac{1}{2}C_1^2 + Q =$

$gZ_2 + U_2 + P_2V_2 + \frac{1}{2}C_2^2 + W$

27. $\eta = \frac{\dot{m}_e(h_2 - h_3)}{\dot{m}_f CV}$

28. $EE = \frac{\dot{m}_e(h_2 - h_3)}{\dot{m}_f 2257}$

29. $p = (B_m \pm M_m) \frac{101.325}{760}$

Electrotechnics N5 Formula Sheet

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