

Lampiran 5. Sistem Satuan

SISTEM SATUAN

MASSA

| | |
|---------------------|--------|
| 1 kg | 2,2046 |
| 1 lb | 0,4536 |
| 1 g/cm ³ | 62,428 |

VOLUME

| | |
|-------------------|--------------------------|
| 1 cm ³ | 0,061024 |
| 1 m ³ | 35,315 |
| 1 lt | 0,001 |
| 1 lt | 0,0353 |
| 1 in ³ | 16,387 |
| 1 ft ³ | 0,028317 |
| 1 gal | 0,13368 |
| 1 gal | 3,7854 .10 ⁻³ |

TEKANAN

| | | |
|-----------------------|--------------------------|---------------------|
| 1 N/m ² | 1,4504 .10 ⁻⁴ | lbf/in ² |
| 1 bar | 10 ⁵ | N/m ² |
| 1 lbf/in ² | 6894,8 | Pa |
| 1 lbf/in ² | 144 | lbf/ft ² |
| 1 kg/cm ² | 98066,5 | Pa |
| 1 kg/cm ² | 14,22 | psi |
| 1 kg/cm ² | 2048 | lbf/ft ² |
| 1 atm | 1,0332 | kg/cm ² |
| 1 atm | 10,332 | kg/m ² |
| 1 atm | 101325 | N/m ² |
| 1 atm | 14,696 | lbf/in ² |
| 1 atm | 10,332 | mka |
| 1 atm | 1,058 | ton/ft ² |
| 1 atm | 76 | cmHg |
| 1 atm | 33,9 | ft water |

DAYA

| | | |
|---------|--------|----------|
| 1 W | 1 | J/s |
| 1 W | 3,413 | BTU/h |
| 1 kW | 1,341 | hp |
| 1 BTU/h | 0,293 | W |
| 1 hp | 2545 | BTU/h |
| 1 hp | 550 | lbf.ft/s |
| 1 hp | 0,7457 | kW |

PANAS JENIS

| | | |
|-------------|----------|-----------|
| 1 kJ/kg.K | 0,238846 | BTU/lb.°R |
| 1 kcal/kg.K | 1 | BTU/lb.°R |
| 1 BTU/lb.°R | 4,1868 | kJ/kg.K |

PANJANG

| | | |
|------|--------|----|
| 1 m | 3,2808 | ft |
| 1 in | 0,0254 | m |
| 1 ft | 12 | in |

GAYA

| | | |
|-------|---------|----------------------|
| 1 N | 1 | kg m/s ² |
| 1 N | 0,22481 | lbf |
| 1 lbf | 32,174 | lb.ft/s ² |
| 1 lbf | 4,4482 | N |

ENERGI & NILAI KALOR

| | | |
|----------|-------------------------|---------|
| 1 J | 0,73756 | lbf.ft |
| 1 kJ | 737,56 | lbf.ft |
| 1 kJ | 0,9478 | BTU |
| 1 ft.lbf | 1,35582 | J |
| 1 BTU | 778,17 | lbf.ft |
| 1 BTU | 1,055 | kJ |
| 1 BTU | 2,298 .10 ⁻⁴ | kWh |
| 1 kJ/kg | 0,42992 | BTU/lb |
| 1 BTU/lb | 2,326 | kJ/kg |
| 1 BTU/lb | 0,5556 | kcal/kg |
| 1 kcal | 4,1868 | kJ |

TEMPERATUR

| | | |
|--------|-----------------|-------|
| T (°R) | 1,8 | T (K) |
| T (°C) | T (K) - 273,15 | |
| T (°F) | T (°R) - 459,67 | |
| 0 °C | 32 | F |
| 0 °C | 491,67 | R |
| 0 °C | 273,15 | K |
| 100 °C | 212 | F |
| 100 °C | 671,67 | R |
| 100 °C | 373,15 | K |

KONSTANTA GAS UNIVERSAL

| | | |
|-----------|-------|-----------------|
| \bar{R} | 8314 | J/kmol.K |
| \bar{R} | 1545 | lbf.ft/lbmol.°R |
| \bar{R} | 1,986 | BTU/lbmol.°R |