## Temperature Conversion

To convert between degrees Fahrenheit $\left({ }^{\circ} \mathrm{F}\right)$ and Celsius $\left({ }^{\circ} \mathrm{C}\right)$ :
$T_{c}=\frac{5}{9} \times\left(T_{f}-32\right)$
$T_{f}=\frac{9}{5} \times T_{c}+32$
where: $\quad T_{c}$ is temperature in Celsius $T_{f}$ is temperature in Fahrenheit

To convert between Fahrenheit $\left({ }^{\circ} F\right)$ and Kelvin $(K)$ :
$T_{f}=\frac{9}{5} \times\left(T_{K}-273.15\right)+32$
$T_{K}=\left(\frac{5}{9} \times\left(T_{f}-32\right)\right)-273.15$
where: $\quad T_{f}$ is temperature in Fahrenheit $T_{K}$ is temperature in Kelvin

To convert between degrees Fahrenheit $\left({ }^{\circ} F\right)$ to Rankine $(R)$ :
$T_{f}=T_{R}-459.69$
$T_{R}=T_{f}+459.69$
where: $\quad T_{f}$ is temperature in Fahrenheit
$T_{R}$ is temperature in Rankine

To convert between degrees Celsius $\left({ }^{\circ} C\right)$ to Kelvin $(K)$ :
$T_{c}=T_{K}+273.15$
$T_{K}=T_{c}-273.15$
where: $\quad T_{c}$ is temperature in Celsius
$T_{K}$ is temperature in Kelvin

To convert between degrees Celsius ( ${ }^{\circ} \mathrm{C}$ ) to Rankine (R):
$T_{c}=\frac{5}{9} \times\left(T_{R}-491.69\right)$
$T_{R}=\frac{9}{5} \times T_{c}+491.69$
where: $\quad T_{c}$ is temperature in Celsius
$T_{R}$ is temperature in Rankine
To convert between Kelvin ( $K$ ) and Rankine ( $R$ ):
$T_{K}=\frac{5}{9} \times\left(T_{R}-764.84\right)$
$T_{R}=\frac{9}{5} \times T_{K}+764.84$
where: $\quad T_{K}$ is temperature in Kelvin $T_{R}$ is temperature in Rankine

