

TECH TIP

Metric Conversions

Many A/C systems today use the metric system to list refrigerant capacities and system specifications. Some air conditioning service equipment can convert from US standards to the metric system with the push of a button. However, a calculator and the correct formula will work just as well. Below are the most common conversions needed for A/C service.

- Temperature

Fahrenheit (°F) to Celsius (°C)	Celsius (°C) to Fahrenheit (°F)
$^{\circ}\text{F} - 32 \div 1.8 = ^{\circ}\text{C}$	$^{\circ}\text{C} \times 1.8 + 32 = ^{\circ}\text{F}$
ex: $150^{\circ}\text{F} - 32 \div 1.8 = 65.55^{\circ}\text{C}$	ex: $20^{\circ}\text{C} \times 1.8 + 32 = 68^{\circ}\text{F}$

- Volume

Fluid ounces (oz) to Cubic Centimeters (cc)	Cubic Centimeters (cc) to Fluid ounces (oz)
$\text{fl oz} \times 29.57 = \text{cc}$	$\text{cc} \div 29.57 = \text{fl oz}$
ex: $8 \text{ oz} \times 29.57 = 236.56 \text{ cc}$	ex: $60 \text{ cc} \div 29.57 = 2.02 \text{ oz}$

- Weight

Ounces (oz) to Kilograms (kg)	Kilograms (kg) to Ounces (oz)
$\text{oz} \div 35.27 = \text{kg}$	$\text{kg} \times 35.27 = \text{oz}$
ex: $32 \text{ oz} \div 35.27 = .907 \text{ kg}$	ex: $1.5 \text{ kg} \times 35.27 = 52.90 \text{ oz}$

- Pressure

Pounds/inch ² (psi) to Kilopascals (kPa)	Kilopascals (kPa) to Pounds/inch ² (psi)
$\text{psi} \times 6.895 = \text{kPa}$	$\text{kPa} \div 6.895 = \text{psi}$
ex: $30 \text{ psi} \times 6.895 = 206.85 \text{ kPa}$	ex: $1500 \text{ kPa} \div 6.895 = 217.54 \text{ psi}$