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**DAVIS INDUSTRIAL FILTERS LTD**

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**Air Filters & Fan Belts since 1963**

## Conversion Factors

	To Convert from:-	To:-	Multiply by
<b>Flow Rate</b>	CFM	m3/sec	0.00047
	CFM	l/sec	0.472
	CFM	m3/hr	1.695
	m3/sec	CFM	2119
	l/sec	CFM	2.12
	m3/hr	CFM	0.59

	To Convert from:-	To:-	Multiply by
<b>Velocity</b>	ft/min	m/sec	0.0051
	m/s	ft/min	196.85
	MPH	KPH	1.6093
	KPH	MPH	0.625

	To Convert from:-	To:-	Multiply by
<b>Pressure</b>	Inches wg	Pascals (N)	249
	Inches wg	mm wg	25.4
	Inches wg	Kilopascals	0.249
	Pascals	Inches wg	0.004
	mm/wg	Inches wg	0.0393
	Kilopascals	Inches wg	4.016
	Inches of mercury	Inches wg	13.62
	Inches of mercury	Millibars	33.87

	To Convert from:-	To:-	Multiply by
<b>Length</b>	Inches	centimetres	2.54
	Inches	millimetres	25.4
	feet	metres	0.3048
	yards	metres	0.9144
	miles	kilometres	1.6093
	kilometres	miles	0.625

	To Convert from:-	To:-	Multiply by
<b>Volume</b>	Cubic feet (ft3)	Cubic metres (m3)	0.0283
	Cubic feet (ft3)		28.318
	Cubic metres (m3)	Cubic feet (ft3)	35.3134
	Cubic Yards	Cubic metres (m3)	0.7646

### Carbon Calculations

$$\text{Contact (Dwell) Time in seconds} = \frac{\text{Carbon Volume (m}^3\text{)}}{\text{Air Volume (m}^3\text{/sec)}}$$

$$\text{Air Volume (m}^3\text{/sec)} = \frac{\text{Carbon Volume (m}^3\text{)}}{\text{Contact time (seconds)}}$$

$$\text{Carbon Volume (m}^3\text{)} = \text{Air Volume (m}^3\text{/sec)} \times \text{Contact time (seconds)}$$

	To Convert from:-	To:-	Multiply by
<b>Energy</b>	Horsepower	Kilowatts	0.746
	Kilowatts	Horsepower	1.34

	To Convert from:-	To:-	Multiply by
<b>Area</b>	Square miles	Sq kilometres (km <sup>2</sup> )	2.59
	Square miles	hectares	258.99
	acres	Sq metres (m <sup>2</sup> )	4046.86
	acres	hectares	0.4047
	Sq metres (m <sup>2</sup> )	Square feet	10.7636
	Sq feet (ft <sup>2</sup> )	Sq metres (m <sup>2</sup> )	0.0929
	Sq feet (ft <sup>2</sup> )	Sq centimetres (cm <sup>2</sup> )	929.03
	Sq inches (ins <sup>2</sup> )	Sq millimetres (mm <sup>2</sup> )	645.16
Sq inches (ins <sup>2</sup> )	Sq centimetres (cm <sup>2</sup> )	6.4516	

	To Convert from:-	To:-	Multiply by
<b>Capacity</b>	gils	litres	0.1421
	pints	litres	0.5683
	quarts	litres	1.137
	US gallons	litres	3.785
	UK gallons	litres	4.546
	litres	UK gallons	0.22
	litres	pints	1.76
	US gallons	UK gallons	1.201

	To Convert from:-	To:-	Multiply by
<b>Fuel Consumption</b>	gallons/mile	litres/kilometre	2.825
	miles/gallon	kilometres/litre	0.354

	To Convert from:-	To:-	Multiply by
<b>Mass</b>	tons	kilograms	1016.05
	tons	tonnes	1.0161
	hundredweight (cwt)	kilograms	50.8023
	pounds (lb)	kilograms	0.4536
	ounces(oz)	grams (g)	28.3495
	grams (g)	ounces(oz)	0.035

	To Convert from:-	To:-	Multiply by
<b>Temperature</b>	Deg Centigrade	Deg Fahrenheit	x 1.8 +32
	Deg Fahrenheit	Deg Centigrade	-32 x 0.556

**Circles**

$$\text{Circumference} = \text{Pi (3.14159265)} \times \text{diameter}$$

$$\text{Diameter} = \frac{\text{Circumference}}{\text{Pi}} \times 0.3183$$

$$\text{Area of circle} = \text{Pi} \times \text{R}^2 \text{ (R=Radius)}$$

**Davis Industrial Filters your single source for Air Filters, Fan Belts, Duct Cleaning & Engineering**