## **Formulas and Conversions**

#### Formulas

Media Velocity (fpm or m/s) = Airflow (cfm or m3/s)

Effective Media Area (ft² or m²)

Energy Consumption(E) in KWh = QPT

where Q is Air flow ( m3/s)

Average pressure loss (Pa)

Τ Operation time (hours)

Efficiency of fan n

### Conversions

1 m/s = 196.8 fpm1 Pa = 1.450 x 10<sup>-4</sup> psi

1 Pa =  $4.015 \times 10^{-3}$  in. H<sub>2</sub>O  $1 \text{ m}^3/\text{s} = 2,119 \text{ cfm}$ 

 $1m^2 = 10.76 \text{ ft}^2$ 1 KW = 3.413 Btu/hr

#### **Media Conversions**

Linear Yards = Lineal Feet Linear Yards = Square Yards

3

Square Yards = Square Feet Square Yards = Linear Feet x Width in inches

108

Linear Feet = Square Feet Square Yards = Linear Yards x Width in inches

Width in feet

Linear Yards = Square Feet/Width in feet Linear Yards = Square Yards x 36 3

Width in inches

Width in inches/36

Linear Feet = Square Yards x 3 Linear Yards = Square Yards x 108

Width in yards Width in inches Pounds =  $\frac{\text{Square Yards}}{1000}$  x (Basis Weight in OSY x 62.5)

Grams per Square Meter = Ounces per Square Yard x 33.91

Ounces per Square Yard =  $\frac{Grams per Square Meter}{33.91}$ 

Square Yards = Square Meters x 1.196

Square Meters = Square Yards

1.196

Centimeters = Inches x 2.54

 $\frac{\text{Inches} = \frac{\text{Centimeters}}{2.54}$ 

# **Media Pricing Conversions**

Square Yard Price = Linear Yard Price x 36 Square Me

Square Meter Price = Square Yard Price x 1.196

Width in inches

Linear Yard Price = Square Yard Price x Width in inches Square Yard Price = Square Meter Price

1.196