

# 風量換算表

壓力範圍(Pv)						
inchH <sub>2</sub> O	=	mBAR	=	mmAQ	=	PA
0.04	=	0.1	=	1	=	10
0.1	=	0.25	=	2.5	=	25
0.2	=	0.5	=	5	=	50
0.3	=	0.75	=	7.5	=	75
0.4	=	1	=	10	=	100
1.2	=	3	=	30	=	300
2	=	5	=	50	=	500
4	=	10	=	100	=	1000
6.4	=	16	=	160	=	1600
10	=	25	=	250	=	2500
20	=	50	=	500	=	5000

$$V = 4.03 \sqrt{Pv} \text{ M/S}$$

$$V = 240 \sqrt{Pv} \text{ M/min}$$

圓管:  $S = \pi r^2$   
 方管:  $S = A * B$   
 $F = S * (V * 3600)$

V=風速  
 Pv=動壓  
 π=圓周率  
 S=截面積  
 r=半徑(M)  
 F=風量(m<sup>3</sup>/h)  
 A=長(M)  
 B=寬(M)

風速範圍(V)					
(呎)ft/min	=	(米)m/min	=	(公尺)M/S	
792	=	240	=	4	
1252.262	=	379.4733	=	6.324555	
1770.966	=	536.6563	=	8.944272	
2168.981	=	657.2671	=	10.95445	
2504.524	=	758.9466	=	12.64911	
4337.963	=	1314.534	=	21.9089	
5600.286	=	1697.056	=	28.28427	
7920	=	2400	=	40	
10018.1	=	3035.787	=	50.59644	
12522.62	=	3794.733	=	63.24555	
17709.66	=	5366.563	=	89.44272	

以上計算公式忽略傳送器安裝時的安裝角度、深度、壓損問題