

B.O.B.

METHOD OF ASCERTAINING WIND REQUIRED FOR ORGANS IN C.F.M.

UNIT ORGAN

Rank of 61 pipes count as 1 stop.	(One)
Rank of 73 pipes count as $2\frac{1}{2}$ stops	(Two and a half)
Rank of 85 pipes count as $3\frac{1}{4}$ stops	(Three and a quarter)
Rank of 97 pipes count as $3\frac{3}{4}$ stops	(Three and three-quarters)

STRAIGHT ORGAN

Rank of 16' pitch count as $1\frac{1}{2}$ stops	(One and a half)
Rank of 8' pitch count as 1 stop	(One)
Rank of 4' pitch count as $\frac{3}{4}$ stop	(Three-quarters)
Rank of 2' pitch count as $\frac{1}{2}$ stop	(Half)

SUB-COUPLER counts as two thirds of the total value in stops of the rank on which it works.

SUPER-COUPLER counts as one third of the total value in stops of the rank on which it works.

WIND REQUIRED

After ascertaining the value, in stops, of the rank of pipes, the total c.f.m. required by the organ is found as follows:

TRACKER ACTION	Multiply number of stops by 25
PNEUMATIC ACTION	Multiply number of stops by 30
ELECTRIC ACTION	Multiply number of stops by 25

EXAMPLE

STRAIGHT ORGAN

Swell - 10 Ranks	Swell, Sub and Super Couplers (playable in full organ), usual Inter-manual Couplers. Pneumatic Action.		
Great - 10 Ranks			
Pedal - 2 Ranks			
Swell	1 x 16' counting as $1\frac{1}{2}$ stops		
	5 x 8' counting as 5 stops		
	2 x 4' counting as $1\frac{1}{2}$ stops		
	2 x 2' counting as 1 stop	9 stops
Great	10 x 8' counting as 10 stops	10 stops
Pedal	2 x 16' counting as 3 stops	3 stops
Swell	Sub-Coupler counting as 6 stops		
	Super-Coupler counting as 3 stops	9 stops
		Total	31 stops

Wind required - $31 \times 30 = 930$ c.f.m. (For Tracker Action the wind required would be $31 \times 25 = 775$ c.f.m.)

IMPORTANT

Due allowance should be made for excessive wind leakage, small reservoir sprung reservoir, small windways and large scaling.

Blower Selection Chart see over