

The 686q Modular Fan

A SPECIFIC PURPOSE PLENUM FAN

BEST IN CLASS EFFICIENCY

Peak static efficiency up to 74% (AMCA Certified)

Motor efficiency up to 94.1% (NEMA Premium)



ENGINEERED FLOW PATH

a centrifugal fan wheel

patented diffuser technology

reduced low frequency sound

applied like conventional plenum fans

RELIABILITY

a larger wheel means lower wheel speed

a larger wheel means fewer fans (bearings)

quantity x speed = bearing revolutions

bottom line ... increased system reliability



VIBRATION MANAGEMENT and CONTROL

Spring isolation has been standard practice for 50 years.

Some suggest that a "better" balance eliminates the need for spring isolation. ASHRAE still recommends high deflection vibration isolation.

AMCA 204 - Page 9 "with time, it is expected that fan vibration will increase due to wear"

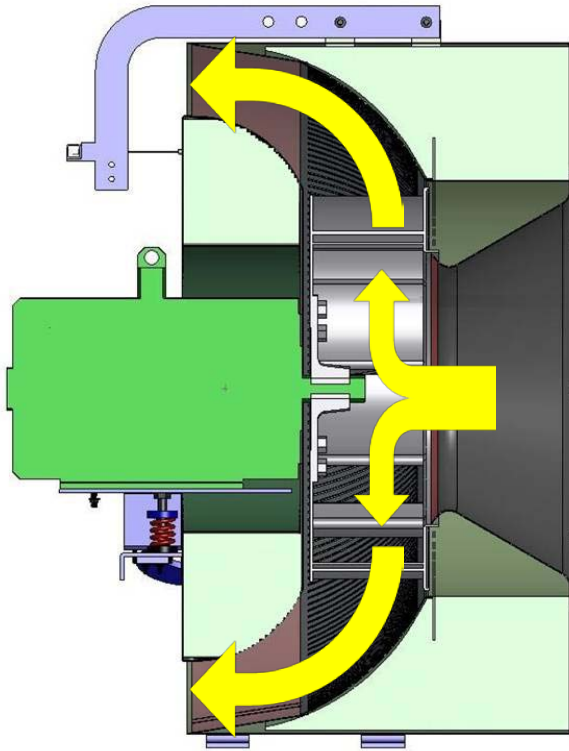
Springs offer *flexibility* - as vibration increases, springs offer the same benefit they always have - isolate a vibratory force from the building structure.

AcoustiFLO

small fan acoustics

..... large fan efficiency

Our secret to reduced low frequency sound



An engineered flow path



- * Minimize turbulence (the diffusers)
... less turbulence = less low freq.
- * Maximize sound absorption
(12 inches of acoustic fill)
... 10 to 20 dB quieter in critical bands

It is no small task for a larger diameter wheel to deliver small wheel acoustics

- in a **reduced length air tunnel**

US Patents 7,001,140 and 7,357,621

Flexibility ... AHU or site erect



A low/wide aspect ratio
63,000 CFM at 8" SP



Tall/narrow aspect ratio
78,500 CFM at 6" SP

AcoustiFLO
*Technologically Advanced
Air Handling Systems*