
Backdraft Damper for Air Handlers with FANWALL TECHNOLOGY®

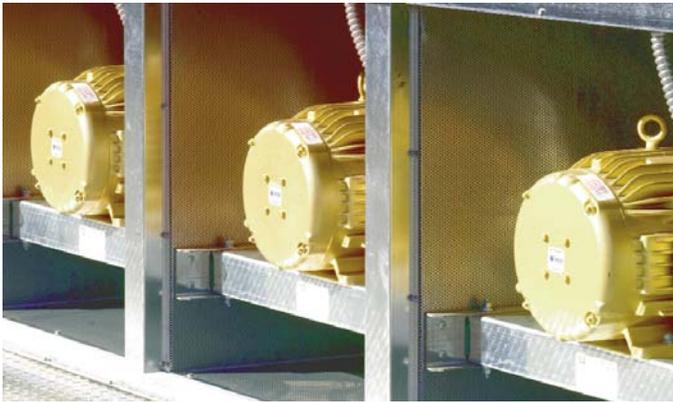
Model FBD



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Delivering Quality One Unit at a Time

New Backdraft Control Device



Why Temtrol

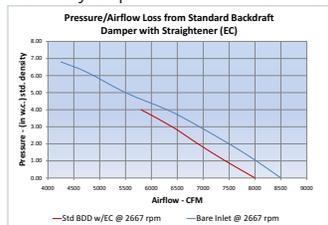
Since 1955, Temtrol, LLC. has earned a reputation for the manufacturing of innovative custom air handling equipment of the highest quality for commercial, institutional, and industrial applications. When you seek a manufacturer with flexibility in construction, products designed for long life, and one that delivers performance without compromise, specify Temtrol®.

Revolutionary Backflow Control Device

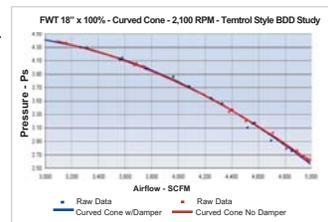
Air handlers are critical components in a building's air conditioning system. The redundancy of fan components in a multi-fan array adds to an air-handling unit's reliability. If you were to disable a fan or fans in a FANWALL® system during operation, how would you handle the backflow of air that would occur? The answer is the new patent pending model FBD backdraft damper.

The model FBD backdraft damper has a revolutionary new blade profile that laminarizes incoming air and actually improves flow characteristics. To illustrate this advantage, Graph 1 shows the significant system effect penalty associated with the addition of typical backdraft dampers (blue top line represents without damper, red bottom line represents with damper).

In striking contrast, Graph 2 illustrates the model FBD backdraft damper, which amazingly imposes near ZERO net effect on the system. The resulting performance of this remarkable new innovation is truly nothing short of revolutionary!



Graph 1 - Traditional backdraft damper system effect impact shown in red line.

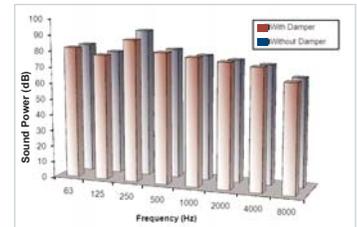


Graph 2 - Model FBD backdraft damper performance showing near zero system effect impact.

Acoustical Benefits

This laminarizing effect has a significant impact on the acoustical performance of the system as well.

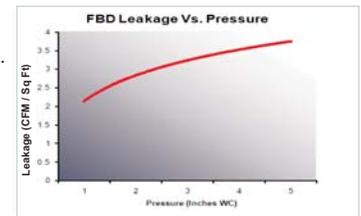
Graph 3 shows the acoustical comparison between a FANWALL cube using a FBD backdraft damper and again with a conventional backdraft damper. The acoustical performance is either essentially identical or significantly improved in every band.



Graph 3 - Sound comparison, by octave band, of FANWALL cube with model FBD backdraft damper (red front bars) and without backdraft damper (blue back bars).

Low Leakage Performance

The new model FBD backdraft damper has a "world class" low leakage rate of only two cfm/sq. ft. at one-inch of static pressure. This far exceeds requirements for a 1A class rating for control dampers. It is also nearly **nine times** less than the industry standard backdraft damper, which has a reported leakage of 17.5 cfm/sq. ft. at the same static pressure!



Graph 4 - Model FBD leakage rate test showing low leakage.

Important Features

- Non-corrosive extruded aluminum frame and blades
- Santoprene blade seals
- Low friction sealed metal ball bearings for long life and continuous operation

Three Sizes Cover Every Application



Model	Wheel / Cone Size							O.D.	I.D.	MAX TSP
	10"	12"	14"	16"	18"	20"	22"			
FBD-4	X							14.75	12"	12"
FBD-6		X	X	X				20.75	18"	12"
FBD-8					X	X	X	26.75	24"	12"

Contact your local CES Group Representative to learn more about the model FBD backdraft damper.

Patent pending. FANWALL® and FANWALL TECHNOLOGY® are registered trademarks of HUNTAIR, Inc. Temtrol, LLC has a policy of continuous product improvement and reserves the right to change design and specifications without notice.



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