

Cape Backdraft Damper

The Ultimate One Way Air Flow Valve

The *Cape Backdraft Damper* is the ultimate one way air flow valve, designed to overcome the inefficiencies and limitations of traditional gravity or butterfly dampers. The *Cape Backdraft Damper* consists of a specially formulated fabric sleeve attached to an outer metal sleeve. The fabric sleeve will allow air to pass through in the desired direction of flow with miniscule reduction in airflow.

The *Cape Backdraft Damper* works well or better than other dampers at stopping undesired airflow. It is far superior in that it allows unrestricted airflow in the desired direction of flow without reducing system efficiency. The *Cape Backdraft Damper* is silent, produces no metal clanging sounds and can be installed in horizontal or vertical ductwork.

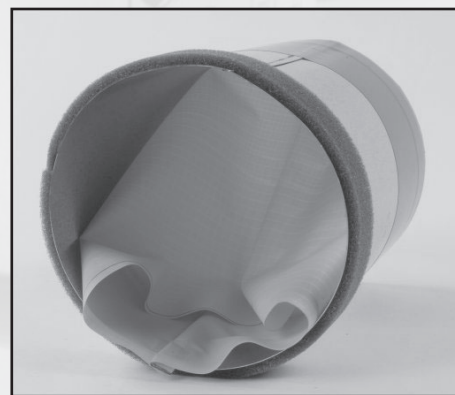


- **Silent**
- **Energy Efficient**
- **Easy Installation**
- **Economical**
- **Innovative Design**
- **Assembled in the USA**
- **No Mechanical Parts**
- **Rated for temperatures up to 160°F**

*Suitable Applications

- **Bathroom Exhaust Fans**
- **Combustion Air Supply**
- **Clothes Dryers**
- **ERV/HRV Systems**
- **Low Air Flow HVAC Systems**
- **Non-Commercial Air Handlers**
- **Water Heaters**

*Tested to ASTM E84, NFPA 255 and UL 723



“Ventilation for Life”



TM

Tamarack Technologies, Inc.

Cape Backdraft Damper

Specifications		
Nominal Duct Size (CBD Order Size)	Actual I.D.	Length
4"	3-7/8"	5-1/8"
5"	4-7/8"	6-1/2"
6"	5-7/8"	7-5/8"
7"	6-7/8"	9-1/2"
8"	7-7/8"	11"

What puts Tamaracks Cape Backdraft Damper above the rest?

Other dampers decrease system efficiency by adding static pressure in the direction of desired airflow. This relative loss will mean that the system will fail to operate as designed. For reverse airflow, airflow that should be stopped by a backdraft damper, the *Cape Backdraft Damper* gives a better seal at a lower pressure and holds the seal as the pressure increases. It is silent, has no mechanical parts and is maintenance free.

The Cape Backdraft Damper was tested against two other dampers at moderate airflow which is airflow typical for a residential ventilation application. The fan was run using open ductwork to set the desired air flow. Each type of damper was then inserted into the air stream. The airflow was measured. (*figure 1*) Because all of these dampers are reasonably effective at stopping air, the leakage rates at various pressures were recorded for comparison. (*figure 2*)

Figure 1: Resulting Airflow in CFM

Product	CFM
6" duct, 4' length	80
Butterfly Damper	17
Gravity Damper	30
<i>Cape Backdraft Damper</i>	77

Figure 2: Leakage in CFM @ Inches/wg

Product	-.10" w.g.	-.080" w.g.	-.052" w.g.	-.036" w.g.	-.018" w.g.
Butterfly Damper	1.6 CFM	2.0	1.6	1.2	1.0
Gravity Damper	3.0	4.0	5.0	5.0	5.0
<i>Cape Backdraft Damper</i>	0.4	2.0	2.0	2.0	2.0



P/N CBD.1



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