

FLIP DUCT®: A Truly Unique, Easy-To-Use Calf Barn Ventilation System



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Proper calf barn ventilation is more than just having fans in the barn. Crystal Creek® has the equipment and expertise to bring creative, effective calf barn ventilation solutions to any calf raising operation.

No two Crystal Creek® designs are the same...that's because each calf barn is unique and every calf raiser has goals specific to their operation. We listen and work with you to develop a complete ventilation plan that meets your specifications. Every calf barn design is customized to the individual producer's needs. We take the time to understand the goals of each calf raiser and design a system that will deliver results.

Exploring options and providing solutions that our customers are comfortable with is our job. Every design we create comes with a complete Ventilation Proposal which details how to install the system, how the system will function and an overall project budget.

On the next few pages we will be exploring the revolutionary new ventilation design called FLIP DUCT®. FLIP DUCT® is the biggest innovation to hit calf barn ventilation in the last 10 years. FLIP DUCT® is a single duct system that works in ALL SEASONS! The key difference between conventional systems and FLIP DUCT® can be seen in the manufacturing process. Learn why this patent pending technology is so amazing and learn how it can work on your farm. (See pages 2-5).

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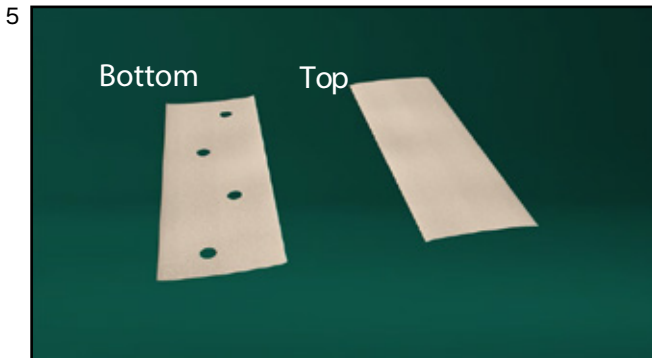
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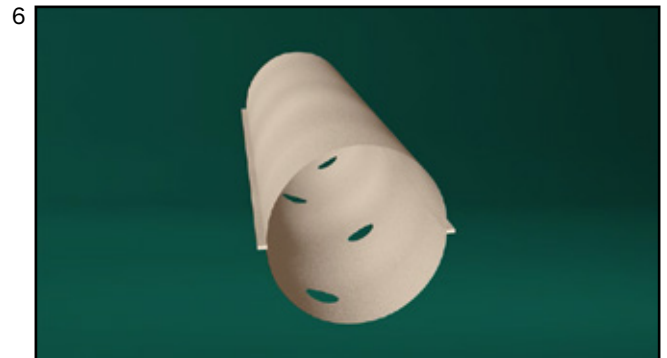
Currently, every calf barn ventilation system on the market has a key limitation: single season use.



Many of these systems use low-output fans connected to small diameter ducts to deliver low volume, slow air for winter ventilation. They work well for winter but lack the ventilation power needed for warmer weather conditions.



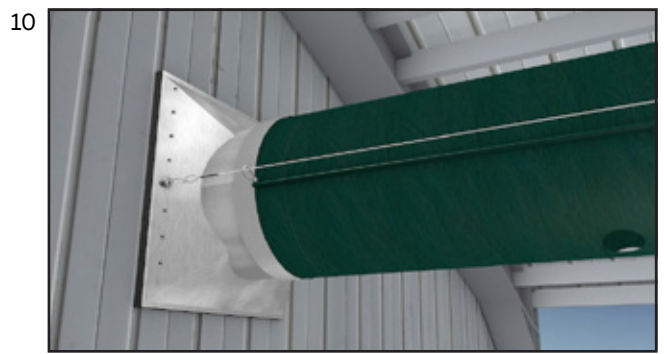
Conventional fabric ducts are made by sewing together two flexible fabric sheets.



The bottom sheet contains holes, allowing air to be discharged onto calves once the duct is inflated.



This single-duct system combines a cold-weather duct with a warm-weather duct, providing proper calf barn ventilation all year round.



Let's look at how easy it is to install FLIP DUCT® and then see it in action. Two horizontal cables span the length of the barn and attach to eye bolts at each end. FLIP DUCT's lightweight, inflatable material easily slips over the barn's ventilation fan shroud. A clamp secures it to the fan.



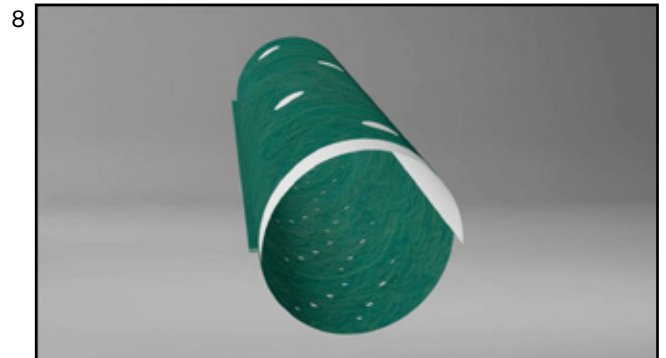
Some farms are now adding high-output fans connected to large ducts to deliver more ventilation power during warm weather. These systems work well, yet require more fans, ducts, controllers, and electricity - resulting in increased costs for a system used only 3 to 4 months each year.



These limitations were the inspiration for FLIP DUCT®, the only single-duct ventilation system engineered for both warm and cold weather seasons. The key difference between FLIP DUCT® and conventional systems can be seen in the manufacturing process.



FLIP DUCT® is manufactured with a patent-pending internal membrane sewn into the middle of the duct. The membrane allows a cold weather hole pattern to be placed on one side of the duct and a warm weather hole pattern on the opposite side.



Duct rotation enables you to position the seasonally appropriate hole pattern downward, to discharge fresh air toward the calves.

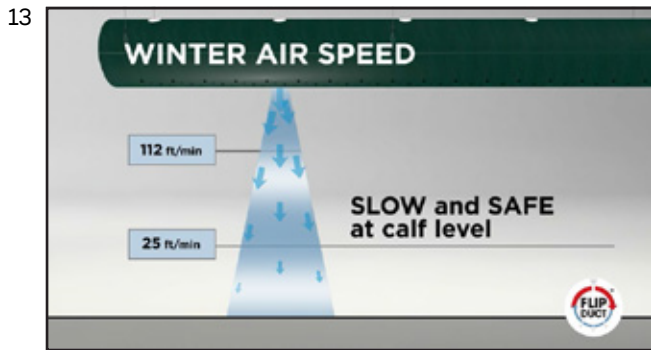


Metal snaps securely sewn into the sides of FLIP DUCT® attach to the cables at 3 and 9 o'clock. Vertical cables suspended from the barn roof attach to the horizontal cables, preventing sag. FLIP DUCT® can be designed to perform at any height or location in the barn.

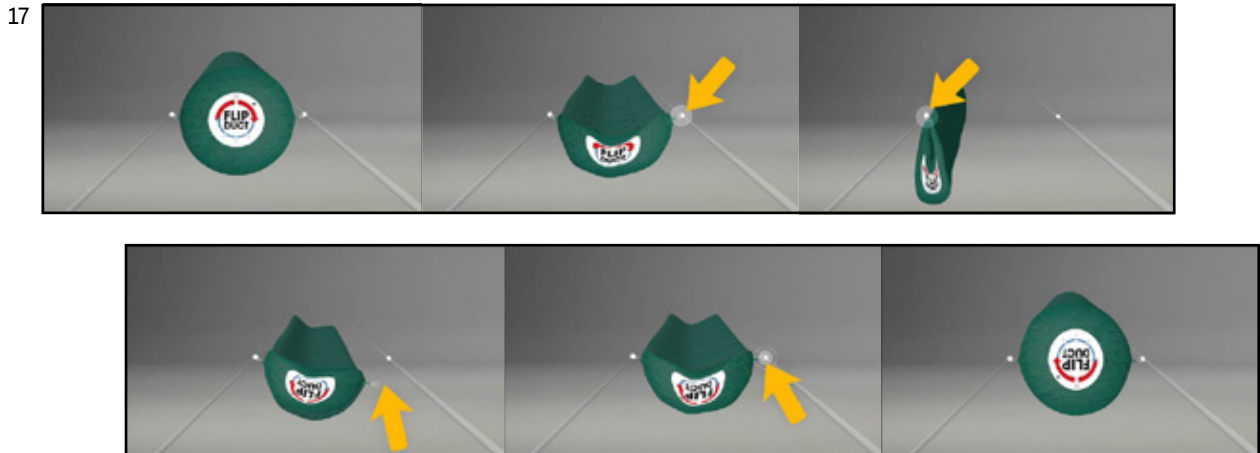


Hole patterns are customized to each barn's unique pen layout.

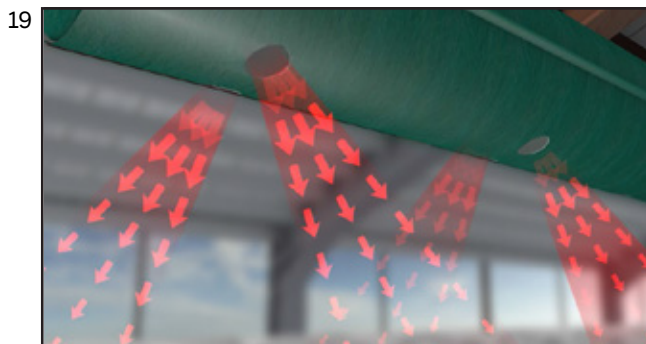
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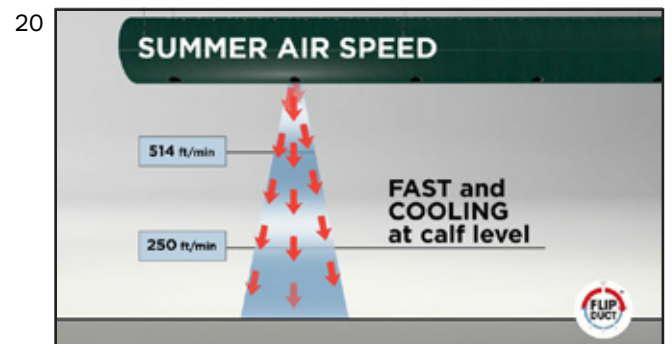
In cold weather, a variable-speed fan set to low pushes air through the series of small diameter holes at the bottom of the duct, gently delivering slow, non-drafty fresh air to calves. When warm weather arrives, simply rotate FLIP DUCT®.



Next, unclip the series of metal snaps, securely sewn into the tube, from the cable at 3 o'clock, and re-clip them to the cable at 9 o'clock. Unclip the snaps originally at 9 o'clock, and re-clip them to the cable at 3 o'clock.



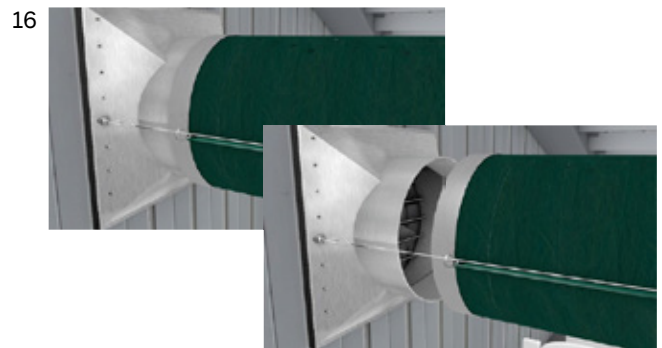
In this position, air flows only through the series of large-diameter holes at the bottom, allowing high-speed air to shower calves with cooling comfort,



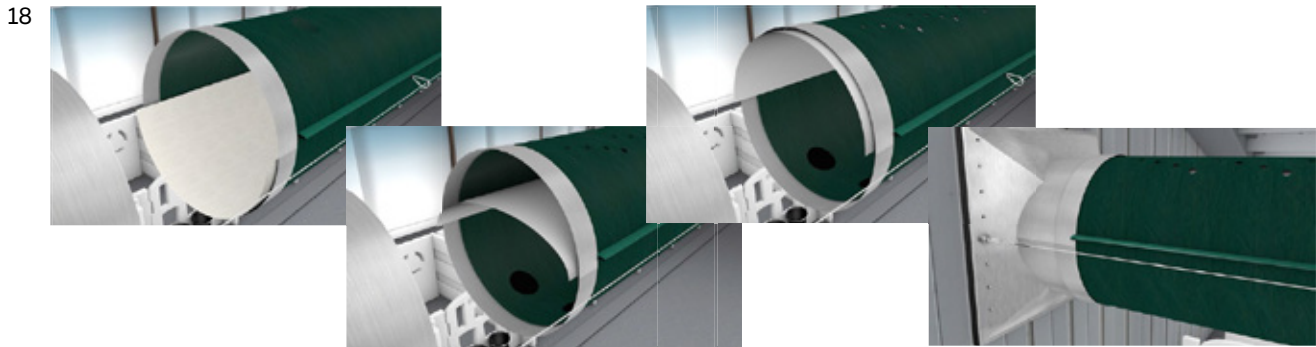
while simultaneously blowing away annoying flies and helping to keep bedding dry.



One person can flip a 100-foot length of tube in approximately 10 minutes. Here's how.



First, detach FLIP DUCT® from the wall-mounted ventilation fan, freeing the tube to rotate.



Reach inside the end of FLIP DUCT®, where it attaches to the ventilation fan. Lift the internal, lightweight membrane and place it over the top of the fan shroud. Turn on the fan. Set the variable speed controller to the high-speed setting, increasing air flow. Air from the fan pressurizes the tube, forcing the membrane to the top of FLIP DUCT® and inflating the entire run. The cold-weather hole pattern, now located at the top, is blocked.



The simple steps for rotating FLIP DUCT® are performed only twice per year, once in the spring - in anticipation of warm weather, and once in fall - in anticipation of cold weather.

FLIP DUCT®. A truly unique and simple-to-install innovation for calf barn ventilation.

For more information, contact us at Crystal Creek®. We'd be happy to discuss how FLIP DUCT® can work in your calf barn. Visit our "CALF BARN VENTILATION" page on our website to view a number of educational videos on FLIP DUCT® and other ventilation solutions

