Film Cooling and
Automatic Gauge System

Conair's Vento is a profile gauge control system for blown film that includes an automatic air ring with triple flow, a thickness gauge, and an easy-to-use control. The Vento is available for die diameters from 5.9 to 35.4 inches {150mm-900mm}.

The Vento features a triple airflow ring, which uses a venturi effect. This allows a higher volume of air for cooling the bubble, without causing instability. It also produces a homogeneous film with a precise gauged thickness.

Vento is also available without the automatic thickness control, ideal for processes where only cooling of the film is required. The double air flow allows you to maximize cooling efficiency while ensuring maximum bubble stability. Should production requirements change, it is possible to switch to the fully automatic version at any time by installing a simple upgrade kit.

Model VO24

Automatic adjustment with a triple flow air ring

The automatic cooling ring of the Vento creates three separate air flow areas inside the unit:

1-a regulation air flow, 2-a primary air flow, 3-a secondary air flow

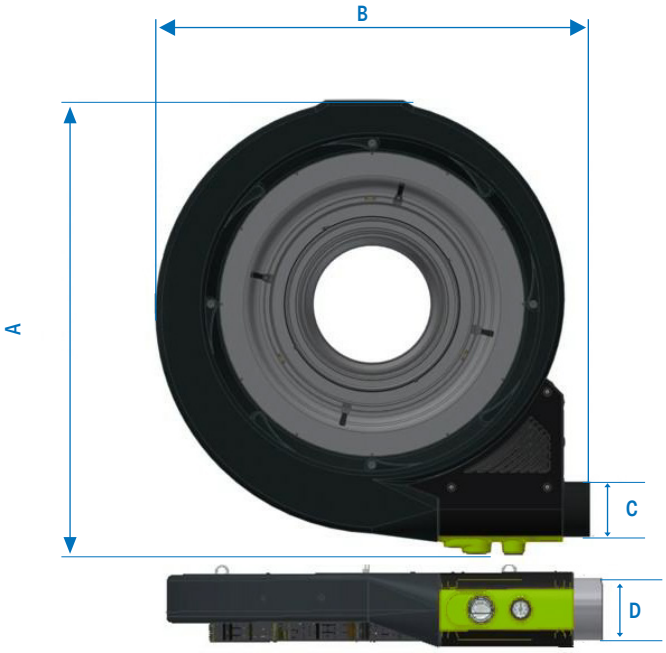
Initially, the molten mass meets the regulation air, which acts by drawing air from the chamber and dividing it into several radial flows, distributed in sectors around the ring – which act on the molten mass as it exits the die.

The film then meets the primary flow, which pre-cools it and forms an air cushion between the bubble and the middle lip – stabilizing it during this preliminary cooling stage.

The secondary flow then continues cooling the bubble.

- **Easy installation and reduced space and costs**
  A single inlet means that no air distributor is needed, reducing installation costs while reducing space. The design of the ring requires less pressure generated by the fan to deliver the required airflow, with a consequent reduction in energy consumption.
- **Energy savings with reduced pressure drops and turbulence**
  The Vento design with the single input, drastically reduces pressure drops and turbulence, providing homogeneous cooling and greater energy efficiency.
- **Triple airflow system and faster start-up**
  Three airflows optimized for triple-action control, stability, and cooling. During the line start-up, it is possible to increase the speed with which the measurements are made, reducing the waste of start—up material.
- **Automatic modulations and corrections**
  The air for profile corrections is automatically managed by servo motor controlled valves equipped with encoders, which don't require any calibration or reset. These valves ensure rapid and precise variations in the localized airflow, significantly reducing the time required to correct the thickness. High responsiveness for improved output quality. Thanks to the historical data, it is possible to monitor the performance of the line over time and obtain useful information for quality control analysis – complete traceability.

Specifications



Blender		VO16				VO24		V035
Chamber		C1				C2		Contact Conair
Diameter of die		6 {150}	6.88-7.87 {175-200}	8.85-11.81 {225-300}	12.79-15.75 {325-400}	15.75-19.68 {400-500}	20.66 - 23.62 {525-600}	
Number of zones		24	30	36	48	54	60	
Dimensions								
A- overall height	inches {mm}	72.44 {1,840}				82.67 {2100}		Contact Conair
B- overall width	inches {mm}	73.03 {1855}				78.54 {1995}		
C- outside diameter	inches {mm}	9.84 {250}				9.84 {250}		
D- overall depth	inches {mm}	11.81 {300}				12.20 {310}		
Approximate Weight								
Standard Vento Installed	lbs {kg}	882 {400}				1102 {500}		Contact Conair

Specification Notes

Specifications may change without notice. Consult with a Conair representative for the most current information.