

The Eliminator Air Ring



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We invented the technology and we continue to improve it. The UNI-FLO Eliminator Air Ring allows processors to achieve targets for gauge uniformity, output and physical properties of blown film.

The Eliminator Air Ring has proven to demonstrate

- improved cooling efficiency
- ease of operation
- better lock-in over a wider range of operating conditions which resulted in significant improvement in gauge consistency (30-50%)
- higher output rates (as much as 35%)
- improved clarity
- better roll geometry
- lower blower speeds for quieter operation and less energy consumption.

Method of Operation

The Eliminator Air Ring gives maximum flexibility and optimum performance while maintaining ease of operation. Four adjustments including blower speed optimize the air ring performance for a wide range of polymer structures, thicknesses and blow up ratios. Significant process changes are possible with little or no adjustment made to the air ring.

The Eliminator delivers two air streams from a common chamber to the exterior of a blown film bubble. The primary orifice air flow provides pre-cooling of the fragile melt and stabilizes the bubble as it is drawn upwards along the forming cone. Adjustments to the primary orifice can suit a wide range of material melt strengths. The secondary orifice provides a high volume and high velocity air stream which has a dual function. The secondary air stream creates a powerful Venturi effect that draws the partially cooled bubble radially outwards to the tip of the forming cone. This will thin the melt to improve the thermal conductivity as well as provide the main cooling effect by means of its high velocity.

The Eliminator's collar provides additional bubble support and increases the cooling efficiency. By simply adjusting the three rows of holes and the collar height, the operator can fine tune and lock-in the bubble shape.

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Quality: Brampton Engineering Inc. worldwide headquarters continues to meet the ISO 9001:2000 standard which covers design, manufacture, assembly, installation and service of our products.

Distinguishing Features

- adjustable primary orifice
- collar with independently adjustable vents for maximum flexibility in controlling bubble stability and improving the cooling rate.

Options

- insulation to reduce condensation when using chilling air.

Applications

- all materials including LDPE, LLDPE, mLLDPE, PP, PVC and all coextrusion structures containing PA and EVOH.

The Guarantee

We supply superior bubble cooling equipment with the highest design technology and craftsmanship. If for any reason we fail to satisfy our customers' requirements, we will accept the return of the equipment with full refund.

Model No.	Size Range		Chamber outside dimension		Number outlets	Hose size	
	mm	(in)	mm	(in)		mm	(in)
UF08E	75-150	3-6	1030	40.5	4	90	3.5
UF12E	125-250	5-10	1155	45.5	4	100	4.0
UF18E	200-400	8-16	1340	52.7	6	100	4.0
UF24E	350-600	14-24	1630	64.2	6	100	4.0
UF30E	500-750	20-30	1785	74.2	8	100	4.0
UF40E	650-1000	26-40	2083	82.0	8	125	5.0
UF55E	900-1350	36-54	2475	97.4	8	125	5.0
UF65E	1250-1625	50-64	2745	108.0	8	125	5.0