



**ADDEX**

## HIGHEST-PERFORMANCE BLOWN FILM COOLING

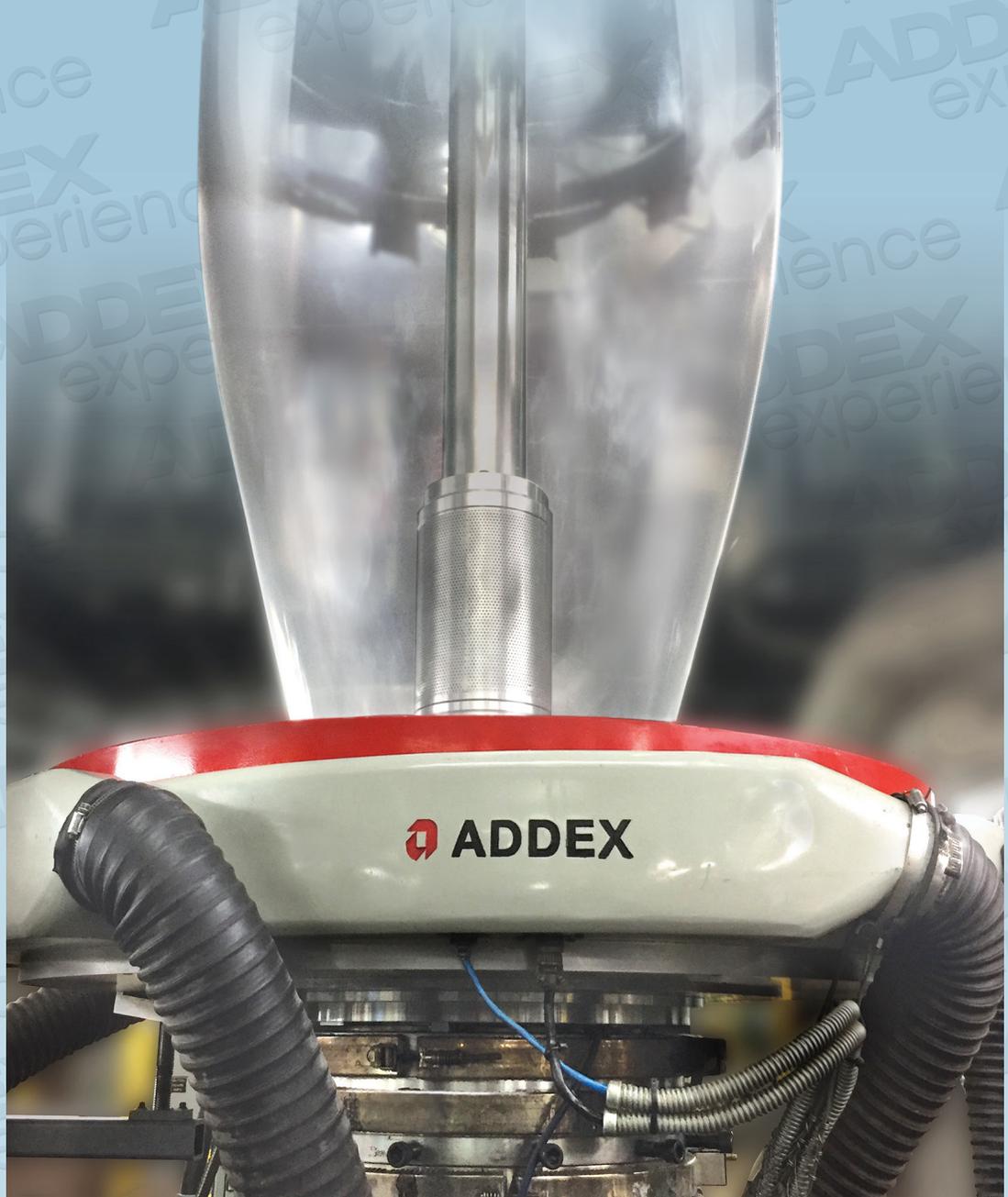
**ic** INTENSIVE COOLING

### INTENSIVE COOLING PRODUCTS

- **icEGC**  
Intensive Cooling  
External Gauge Control
- **icLFR**  
Intensive Cooling Laminar  
Flow Ring
- **Multi-Inlet**  
or  
**Single Inlet Plenum**  
(SIP—patent pending)

### ADDEX INC.

251 Murray Street  
Newark, NY 14513, USA  
Tel: (+1) 315.331.7700  
Email: [addex@addexinc.com](mailto:addex@addexinc.com)  
[www.addexinc.com](http://www.addexinc.com)



**Intensive  
Cooling**  
TECHNOLOGY

# INTENSIVE COOLING AIR RINGS

PATENT: [www.addexinc.com/patents](http://www.addexinc.com/patents)



## UNIQUE FEATURES

- Intensive Cooling Air Rings deliver a guaranteed **10%-15% increase in output and better bubble stability**—over and beyond Addex's already high-performance, industry-standard dual-flow air ring design
- Lower lip is transformed into a high-velocity air stream, adding additional locking point for significant increase in bubble stability
- Also includes all secondary air collar locking points found with the original air ring design
- No negative impact on film properties
- Allows broader range of processes, blow-up ratios, thicknesses and materials, with minimal adjustments compared to conventional air rings
- Sealed & insulated to top of die for minimal heat transfer

SPECS				
Die Size icEGC	Die Size icLFR		Number of Air Inlets x $\phi$	Number of Control Zones**
n/a	4"-6" * 100-150mm*	36" 915mm	6 x 3"/76mm	96
6"-8" 100-200mm	6"-12" 150-315mm	48" 1220mm	6 x 4"/102mm	90-132
8"-16" 200-400mm	13"-20" 325-500mm	56" 1423mm	6 x 4"/102mm	120-168
16"-24" 400-600mm	21" - 28" 525-700mm	64" 1626mm	8 x 4"/102mm	168-216
24"-36" 600-900mm	29" -40" 725-1000mm	76" 1931mm	10 x 4"/102mm	224-304

\* this size for non-IBC systems only

\*\* number of control zones varies with application  
Larger sizes available upon request

## SHORT-STACK INTENSIVE COOLING

- Enclosed, two-level, stacked Intensive Cooling System
- Low-melt strength output gains 20-30%
- High-melt strength output gains up to 50%!
- Rock-solid bubble stability
- Air ring is 2-4" oversized above the die, depending on application
- Runs with IBC for die sizes 12" and greater
- Sufficient extruder and blower capacity required to support tremendous output gains of Short-Stack Intensive Cooling

## INTENSIVE COOLING REQUIREMENTS

Compatible IBC hardware is available and required for any existing IBC system that is within 1"/25mm of the die lip.

	US	METRIC
ic AIR RING	$(D''+2) \times 200 = \text{CFM}$	$(D \text{ mm}+50) \times 13.3 = \text{m}^3/\text{h}$
ic SHORT-STACK	$(D''+6) \times 250 = \text{CFM}$	$(D \text{ mm}+150) \times 16.7 = \text{m}^3/\text{h}$
	@ 80°F & 30" H <sub>2</sub> O	@ 27°C & 6.2 kPa

**LEGEND** D'' = Die diameter in inches  
CFM = Cubic feet per minute  
F = Degrees Fahrenheit  
H<sub>2</sub>O = Inches water pressure unit

D mm = Die diameter in mm  
m<sup>3</sup>/h = Cubic meters per hour  
C = Degrees Celsius  
kPa = Kilopascal pressure unit

Note: Precision blower and die profile information required at time of order.



Short-Stack for even more cooling...because two is better than one!

## AIR RING FEATURES

- EGC/LFR available with Intensive Cooling to boost output an additional 10-15% & improve stability
- Proven, state-of-the-art dual lip air ring
- LFR suitable with rotating, oscillating, or stationary dies. EGC suitable with oscillating or stationary dies
- Low turbulence, low pressure, high-volume air flow
- Adjustability allows air distribution between lower lip & secondary lip
- Differential pressure gauge & bimetallic thermometer
- Standard BUR air collar (Low BUR/Big BUR collars available)
- Standard teflon groove seals/bearings

Single Inlet Plenum (SIP—patent pending) available



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