



ADDEX

HIGHEST-PERFORMANCE BLOWN FILM COOLING

PATENTS PENDING

ic INTENSIVE COOLING

Output Increase
10-50%

**Intensive
Cooling**
TECHNOLOGY

INTENSIVE COOLING PRODUCTS

- **icEGC**
Intensive Cooling
External Gauge Control
- **icMGC**
Intensive Cooling
Manual Gauge Control
- **icLFR**
Intensive Cooling
Laminar Flow Ring

ADDEX INC.

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ADVANCING STATE-OF-THE-ART COOLING TECHNOLOGY


INTENSIVE COOLING AIR RINGS

PATENTS PENDING



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
- Replaces the standard lower lip with a single Intensive Cooling element
- Lower lip is transformed into a high-velocity air stream, creating two primary locking points instead of just one, to significantly improve bubble stability
- Also includes all secondary air collar locking points found with the original air ring design
- No negative impact on film properties
- Units are simple and operator-friendly
- Allows a broad range of processes, blow-up ratios, thicknesses and materials, with minimal adjustments
- Sealed & insulated to top of die for minimal heat transfer

SPECS				
Die Size icEGC	Die Size icLFR / icMGC		Number of Air Inlets x ϕ	Number of Control Zones**
n/a	3"-6" * 75-150mm*	36" 915mm	6 x 3"/76mm	96
4"-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 x4"/102mm	224-304

* this size for non-IBC systems only

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



TWIN-STACK INTENSIVE COOLING

- Enclosed, two-level, stacked Intensive Cooling System
- Low-melt strength output gains 15-20%
- 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
- Optional "Height-Adjustable" Twin Stack (HATS)
- HATS extends cooling zone up to 16" while the line is running!
- Sufficient extruder and second blower required to support tremendous output gains of Twin-Stack Intensive Cooling

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

AIR REQUIREMENTS

Additional air required to support Intensive Cooling Air Rings

	US	METRIC
ic AIR RING	(D"+2) x180 = CFM	(Dmm+50) x10 = m ³ /h
ic TWIN-STACK	D" x 90 = CFM	Dmm x 6 = m ³ /h
	@ 80°F & 30" H ₂ O	@ 27°C & 6.2 kPa

LEGEND

D" = Die diameter in inches
CFM = Cubic feet per minute
F = Degrees Fahrenheit
H₂O = Inches water pressure unit

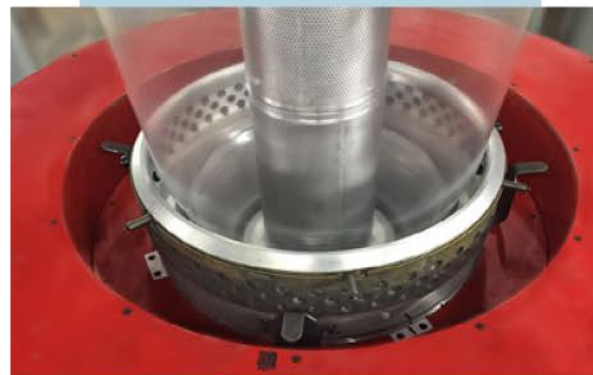
D mm = Die diameter in mm
m³/h = Cubic meters per hour
C = Degrees Celsius
kPa = Kilopascal pressure unit

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

IBC improves efficiency when used in combination with Intensive Cooling. Compatible IBC hardware is available and required for any existing IBC system.

Intensive Cooling is compatible with all Addex products:

- **EGC**
Automatic Profile External Gauge Control
- **MGC**
Manual Gauge Control
- **LFR**
Laminar Flow Ring
- **DIBC**
Digital Internal Bubble Cooling



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