BERG
CHILLING SYSTEMS

Custom Engineered Blown Film Cooling Systems

Expert thermal process energy management

Berg Blown Film Coolers

Blown film industry manufacturers gain competitive advantages with Berg energy efficient Blown Film Coolers (BFC). Berg BFCs increase product output and quality while reducing costs and downtime.

Every custom engineered Berg Blown Film Cooler (BFC) provides consistent all-season performance by precisely controlling the temperature, pressure, and quality of air supplied to the film bubble. Rugged Berg BFCs can be optimized for any blown film extrusion application, meeting or exceeding all industry requirements.

Our Blown Film Cooler systems provide consistent year-round performance and can supply a constant air temperature to the film bubble. Our systems can consist of one or more BFC featuring integrated supply blowers, line exhaust blowers, and packaged water/glycol chillers that can supply one or more blown film production lines.

Maintain Precise Temperature Control

In applications where air temperature is crucial to sustaining a stable bubble and a high-quality product, Berg BFCs can be equipped with precision control valves that will closely regulate the cooling water/glycol temperature.

Rugged Industrial Quality

Berg BFCs are factory built and tested. Each BFC is assembled, insulated, piped, and wired on a painted structural steel frame. Pressure blowers can be inverter duty or have variable frequency drives allowing complete pressure and airflow control. Blowers are selected based on industry standards or specific process airflow and pressure requirements. The resulting system is a single, integrated package, ready for air line connections.

Completely Controlled Air Quality

Berg BFCs can completely manage air quality. The standard package includes inlet air filters. Custom features can include mist elimination, condensate collection traps, blower inlet filters, and silencers. Ultra-pure HEPA filtration is also available.

Custom designed by our experts and yours

No one knows your systems like your own systems people. That's why we involve them in the design of your Berg Blown Film Cooling system, ensuring your custom engineered system precisely meets all your requirements and unique challenges.

System Highlights

Berg BFCs are available in standard models to meet the requirements of most blown film applications, and can be customized as required.

- Available in left and right-hand configurations
- Outlet air temperature can be as low as 5°C (41°F)
- Energy efficient coil design
- Rugged industrial design with few moving parts
- Limited maintenance required
- Enables exceptional blown film product quality
- Accepts both glycol and chilled water
- One year parts and labour warranty

Standard Features

Primary Blower

- Flanged or straight air inlet and outlet
- Top horizontal or vertical upblast air outlet
- NEMA premium efficiency
- 460/3/60 or 575/3/60 voltage

Coil Housing

- Heavy gauge stainless steel
- Filter access and drain fitting
- Fully insulated

Thermometers

- Each BFC comes equipped with three industrial analogue thermometers providing precise readings for outlet air and coolant supply and return

Coolant Piping

- Carbon steel construction
- Bronze inlet & outlet ball valves
- Fully insulated

Frame

- Painted structural steel base frame
- Blower mounted on anti-vibration pads bolted / welded to base

Options and Accessories

- 3-way electronic coolant control valve for precise air temperature control to ±1°C (1.8°F)
- Stainless steel piping
- Blower inlet filter / silencer
- Variable speed drives
- Mixing boxes
- Demisters
- Condensate drain trap
- Additional temperature gauges or sensing ports
- Exhaust blower

Labour warranty extended to Canada and Continental United States only.

Model		BFC 1000	BFC 1500	BFC 2000	BFC 2500	BFC 3000	BFC 3500	BFC 4000	BFC 5000
Design Air Flow	CFM	1000	1500	2000	2500	3000	3500	4000	5000
Heat Removal	BTU/hr	96,615	144,370	193,580	242,231	289,937	334,356	387,184	482,236
Designed Static Pressure	inches	28-38	28-38	28-38	28-38	28-38	28-38	28-38	28-38
Coolant Flow	USGPM	12	40	35	80	130	220	75	220
Fluid Connections [NPT]	inches	1 1/2	1 1/2	2	2	2 1/2	2 1/2	3	3
Air Connections [Dia.]	inches	12	12	12	12	14	14	20	20
Unit Dimensions	inches	79 x 50 x 64	81 x 56 x 65	82 x 58 x 66	86 x 58 x 67	94 x 65 x 69	94 x 65 x 69	104 x 73 x 80	104 x 73 x 80
Unit Weight (operating)	lbs	1200	1250	1400	1450	1550	1550	1750	1850

Blowers (28 - 38 Inches)								
CFM	1000	1500	2000	2500	3000	3000	4000	5000
Drive	Direct	Direct	Direct	Direct	Direct	Direct	Direct	Direct
S.P. [in]	35	39	38	37	33	33	38	32
H.P.	10	15	20	25	30	30	40	50

Notes: 1. Design air conditions based on 95°F (35°C) dry bulb, 78°F (25.6°C) wet bulb, entering temperature + 15°F (-9.4°C) sensible heat from fan, leaving air 50°F (10°C) saturated.
2. Design water conditions based on 45°F (7.2°C) entering water, 55°F (12.8°C) leaving water.
3. Condensate drain connection is 1 inch on all models; drains and P traps are not included.

Generate profit by decreasing costs, with Berg Chilling Systems

Learn how you can:

- Increase product output
- Maintain quality
- Decrease energy costs
- Reduce downtime
- Minimize environmental impact

Call or email us and we will respond promptly.

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