

2600 Raceway Cooler



Simplicity – Open architecture and pre-built modular style construction

Versatility – Dual infeed and outfeed capability for combination lines

Flexibility – Higher chain speeds with lower chain tensions to match varied production requirements

Performance – Endless conveyor design delivers gentle product handling with heavy duty construction and reduced transfer

The 2600 Cooler's raceway design uses ambient conditions to cool bread and bun products while cost effectively utilizing the open space above production equipment. Configurable design not only offers maximum flexibility to best match the challenging layout demands of today's bakeries, but also provides effective cooling and gentle product handling through open architecture and endless design.

Features and Benefits:

Installation and Commissioning

- Prebuilt construction of modular-type straights and towers offers reduced installation costs in the form of quick assembly and startup. The reasonably sized 10 ft. modules make for friendly transport, maneuvering and installation.

Process

- Endless conveyor design delivers gentle product handling with reduced transfers
- Open architecture promotes cooling air flow that exceeds external side-frame type design
- Drive and idler designs allow higher operating speeds with lower chain tensions to match high throughput requirements of today's bakery operations
- Multiple turning towers allow for maximized layout design flexibility coupled with optimized affordability
- Variable frequency drives for recipe controlled digital cooling time
- Dual infeed and/or outfeed capability offers additional design flexibility and cooling versatility for combination lines

Utilization

- Individually sprung take-up wheels for optimum chain tension per tier
- 72" tier wheels and sprockets offer optimized balance between side-by-side product handling around turns; modern production rates; and design-of-layout flexibility
- Double-track grid supports with integral heavy-duty low-friction wear strips provide maximum support with minimal power usage
- Robust hollow-pin chain (3/4" pitch, #60) assures long-life with reduced maintenance through extra-strength design
- Free-wheeling idler towers provide vast performance improvement and extended chain life over designs that drag the chain around fixed ends
- End-type drive tower provides 180 degree chain engagement rather than 2-point-only tangential engagement of center-type drives
- Segmented wheels and sprockets reduce maintenance costs and downtime
- Simplified operator interface screens based on clear-cut mode/state logic
- Automatic chain and grid oil mist lubrication
- Main Drive Safeload monitoring and trending (historical and real time)
- Chain tension safety

Sanitation

- Use of carefully shaped sections to shed crumbs and debris
- Open architecture promotes easy cleaning
- Stainless steel grid wires

New:

- Advanced engineering thermoplastic polyester wear strip design for improved wear and resistance to creep and warping
- Strengthened take-up frame for improved stability and smoother running
- Specialized fabrication ensures that tower frames remain true and stable during operation

Standard Options:

- Intermediate Load-On (combination line capable)
- Intermediate Load-Off (combination line capable)
- Grid washer and blower (surpasses the sanitary performance of cleaning brushes)
- Adjacent conveying systems and controls
- Floor or ceiling supported
- Platforms for inspection and maintenance

Standard Specifications:

- Power Usage: 14-45 kVA (based on cooler size)
- Air Usage: 30 CFH @ 60 PSI (per lubricator)
[0.3l/s @ 4.1 bar]
- Operating Speed: 120 FPM max.
[36.6 m/min]
- Grid Width: 24" [610 mm]
- Grid Wires: Stainless steel; 1/8" diameter [3.175 mm]
- Chain: Robust hollow-pin 3/4" pitch (#60)
- Tier Spacing: 9" [228.6 mm]
- Product Clearance: 5 1/2" [139.7 mm]
- PLC: A-B CompactLogix
- HMI: A-B PanelView Plus 6 1000
- Communications: Ethernet I/P



Double Loop Design Travel in Feet		Tower Distance "L"					
Tiers	98	108	118	128	138	148	
4	1694	1854	2014	2174	2335	2494	
5	2117	2317	2517	2717	2917	3117	
6	2541	2781	3021	3261	3501	3741	
7	2964	3244	3524	3804	4084	4364	
8	3388	3708	4028	4348	4668	4988	
9	3811	4171	4531	4891	5251	5611	
10	4235	4635	5035	5435	5835	6235	

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