

OPTI-FLOW

COOLING TUNNEL



Food Process Automation introduces the new FPA Opti-Flow Cooling Tunnel. The Opti-Flow is the most advanced chilled air cooling tunnel available in the baking industry today for cooling biscuits or chocolate/confectionery. It is the culmination of many years of intensive research and field-testing.

FPA
FOOD PROCESS AUTOMATION

FPA's state of the art cooling tunnel design addresses the key concerns of today's modern bakery:

Sanitation

Given the intense focus on allergens in bakeries today, FPA's primary goal was to design a cooling tunnel that was significantly easier to clean, inside and out, than any commercially available tunnel in the market place.

Modularity

The Opti-Flow tunnel comes in five (5) foot sections, each containing its own evaporator coil and fans, maximizing the amount of chilled air applied to baked or coated products traveling through the tunnel while minimizing the overall length required.

Value

Because each module has its own evaporator coil and fans, we are able to offer a cooling tunnel that delivers the overall results in less linear space than competitive models, saving valuable manufacturing floor space and cost. Due to its modularity, installation time and expense are kept to a minimum.

Efficiency

The chilled air is applied directly to the product, reducing losses to the outside while maximizing the heat removal process. Each module is self contained recirculating its own internal air.



Specifications

- Available in 1 meter and 1.2 meter widths
- Modules are 5' in length
- Unique clam-shell design for superior sanitation
- High Impact Insulated Fiberglass hoods (3 per module)
- Carrying Surface Options: Poly-belt, Plastic, Mesh
- Belt Tracking System
- Controls: Standard or PLC Controls
- Cooling System:
 - Evaporator Coil—1 per module
 - Nozzle Plate for directed airflow—1 per module
 - Chilled Bed Option available
- 5' Infeed Section
- 5' Discharge Section

Cooling Tunnel Test Module

To support our customers, FPA has developed a portable cooling tunnel test module that can be taken to a customer site where a variety of tests can be performed to determine the cooling profile of customer products. It is a self-contained unit with an on board cooling system, stainless steel mesh, temperature probes, data logging, and electrical control system.



This test module software enables us to capture time and temperature information at the source (oven discharge, packaging, etc.) in your plant. Thermocouples are used to collect temperature readings from multiple locations and generate key data information. This complete cooling analysis is then expressed both numerically and graphically.

We're taking the uncertainty out of determining how much cooling is necessary for the range of products you make in your facility today. Ask us to schedule a cooling analysis in your plant today.

CONTACT

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