

# REVERSIBLE AIR FLOW EVAPORATORS



## APPLICATION

**LOW TEMPERATURE BLAST FREEZING  
POST-HARVEST COOLING**

**BLAST CHILLING**

**CARCASS COOLING**

Colmac Coil has developed a line of Reversible Air Flow evaporator units to improve the performance of blast freezers/coolers. Traditional blast freezers blow cooling air in one direction across the product the entire time. The result is a longer freezing time and a variation in product quality based on its placement in the freezer. The product furthest from the air entrance takes much longer to freeze and results in lower quality.

Reversible Air Flow evaporators address this by changing the air flow direction during the freezing cycle. Switching the air flow direction places the coldest air on the product that was initially staged in the "back" of the freezer. This results in the batch being cooled evenly throughout, reducing freezing time and improving product quality.

### ADVANTAGES

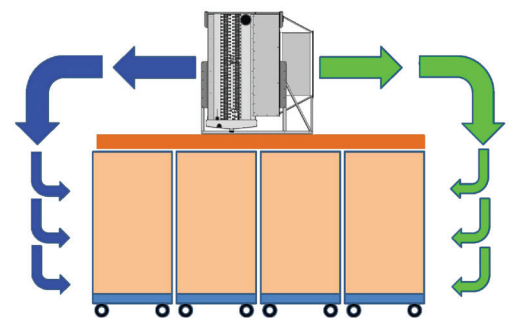
- Reduced freezing times by up to 20%
- Uniform product quality throughout batch
- Improved product moisture retention
- Fewer evaporator defrosts required

### FEATURES

- Fully reversible tube axial fans
- Coil core configured for reversible air flow
- VFD compatible fan motors
- Available for all refrigerants and system types (ammonia, CO2, freon, brine)

### OPTIONS

- Evaporator material options: SST, HDG, Al, Cu, CuNi
- Cabinet material options: SST, galvanized, Al
- Defrost: Hot gas, water, electric, interlaced glycol, air
- UL, CSA, CE listings
- ASME, CRN, PED certifications



**Diagram of Reversible Air Flow Freezer**  
Blue indicates blow-through air flow  
Green indicates draw-through air flow



## Other Quality Products From Colmac Coil



Heating and Cooling Coils



Heat Pipes for Heat Recovery



Dry Coolers for Glycol or Gas Cooling



Custom Evaporators & Baudelot Coolers



Air Cooled Condensers

CE(PED) Certification, ASME Sec. VIII, Canadian Registration Number, UL508, Canadian Standards Association



CRN



CSA

Visit [www.colmaccoil.com](http://www.colmaccoil.com) for more information and resources:

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Product Literature

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*"The Heat Transfer Experts"*