



POLYPROPYLENE DRAINPANS



BACKGROUND

Refrigeration air coolers located in spaces where food is being processed must be designed to be easily cleaned and sanitized while preventing condensed moisture from leaving the unit. During normal cooling operation, cold air leaving the coil passes over the interior surfaces of the drainpan. If the temperature of the exterior surface of the drainpan falls below the dewpoint of the room air, then condensation will form and potentially drip onto workers and food products below. The USDA prohibits any condensed moisture from cooled surfaces contacting food products so condensation on exterior surfaces of the drainpan must be prevented.

Colmac has developed a full coverage drainpan specifically designed to address the challenges of corrosion and condensation in food processing rooms. This new feature can be added as an option to any Colmac A+Series™ cooler.

FEATURES AND BENEFITS

Full coverage design

Low thermal conductivity prevents condensation on exterior surfaces

Interior and exterior surfaces are smooth and cleanable

Material is FDA approved for direct contact with food

Corrosion resistant

Two drain connections for secondary overflow

Low cost seal welded option



POLYPROPYLENE DRAINPAN FEATURES

FULL COVERAGE DESIGN

- The drainpan is designed to capture condensed moisture from any and all surfaces of the air cooler. No condensation can reach the floor.
- Two drain connections for primary and secondary drainage during defrost.

LOW CONDUCTIVITY OF POLYPROPYLENE PREVENTS CONDENSATION

- Thermal conductivity is 99% lower for poly material at 0.12 BTU/(hr·ft·°F) compared to 9.6 BTU/(hr·ft·°F) for 304 stainless steel.
- Exterior (bottom) surface of the pan remains at room temperature (above dew point) during normal cooling operation.

SMOOTH AND CLEANABLE

- Material fabricated from natural co-polypolypropylene material.
- Easily and quickly cleaned and sanitized.
- Triple-pitch design prevents pooling of water.
- Drains water away quickly and completely.

FDA APPROVED MATERIAL

- Complies with FDA regulation 21, Chapter 1, part 177.2510 for direct contact with food.

CORROSION RESISTANT

- The Polypropylene material used is extremely corrosion resistant. It has excellent resistance to high concentrations of alkaline cleaners such as Potassium Hydroxide as well as chlorinated sanitizers like Sodium Hypochlorite solutions.

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"The Heat Transfer Experts"

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