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## CASE STUDY

**PRODUCT:** COLMAC ICL INDUSTRIAL AIR COOLER

**APPLICATION:** HIGH TEMPERATURE (45°F) LOADING DOCK

**FACILITY:** LOADING DOCK FOR FOOD PROCESSING FACILITY

**(QTY) X MODEL:** (6) X ICL11-438L-G-24-3/4-DXA-A-B

**SPECIFICATIONS:** 13.8 Tons Capacity (each), 45F Room, 12F TD  
Direct Expansion Ammonia, Air Defrost  
18,339 CFM Airflow  
5/8" x 0.049 Aluminum Tubes, 8 Rows Deep  
0.010" Aluminum Fins, 4 per Inch  
3 x 3/4 Hp, 1140 rpm, 3 x 24" Dia. Aluminum Fans  
33.75 sq ft Face Area, 2,683 sq ft Total Surface Area  
1,240 lbs Operating Weight  
Overall Dimensions: 40" H x 39" W x 181" L

### DESCRIPTION:

Colmac ICL Industrial Air Coolers are available for a **wide range** of applications, for a variety of **refrigerants, and defrost** configurations. These air coolers can be applied to **high, medium, and low temperatures**, with **air, hot gas, water, or electric defrost**. Refrigerants may be **ammonia, or halocarbon**, set up for direct expansion, liquid overfeed (pump recirculated), or gravity flooded operation. Circuiting for **glycol or brine** is also available. **Colmac's** unique **"hot plate"** hot gas defrost **drainpan** design insures **fast, complete defrosting**, even at freezer temperatures.

Colmac engineering literature, including **"Coldware"** selection software, includes **english and metric** units, along with ratings for both **50 and 60 Hz** supply voltage. "Coldware" software for Windows is available at no charge through your local **Colmac** sales representative.

Colmac was selected to supply all of the **air coolers** for a large **french fry processing** facility constructed in the **Midwestern United States**. The facility includes a high temperature **loading dock** where the finished frozen product is loaded into trucks for shipment all around the U.S. **Colmac ICL** coolers were selected for operation with **direct expansion ammonia** and air defrost. The **low air velocity** and **low noise** levels along with direct expansion operation are ideal for **trouble-free** operation in the high traffic loading dock area.

Remember - **"When You Want to Specify Quality, Specify Colmac"**.

