

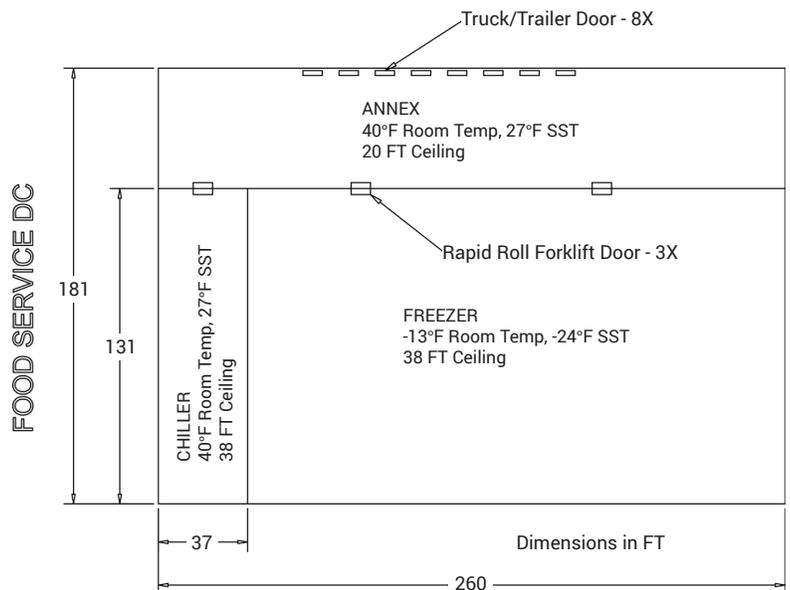


REFRIGERATION LOAD SIMULATOR

BREAKTHROUGH TECHNOLOGY

Colmac Coil announces a new way to make refrigeration load calculations. The online Refrigeration Load Simulator Program offers the following features and benefits:

- Allows user to create complete facility layout
- Performs heat and mass balance for entire facility
- Predicts sensible and latent loads and room RH
- Based on state-of-the-art equations
- Define custom shaped rooms
- Vary door operations and climate conditions to observe effects
- Works with A+Pro software to select air coolers



Create complete facility layouts, including custom shaped rooms

Access to the Refrigeration Load Simulator is available to authorized Colmac Coil representatives and qualified customers.



REFRIGERATION LOAD SIMULATOR

Location/Climate			
Location	CHICAGO/MIDWAY, Illinois, Percentile USA		0.4 %
Design Outdoor Dry Bulb	97.4 °F	Mean Coincident Wet Bulb	78.4 °F
Ground Temperature	51.633 °F	Elevation	617 ft
Summary			
	Annex	Chiller	Freezer
Room Temp [°F]	40.0	40.0	-13.0
Evap Temp [°F]	27.0	33.0	-24.0
Leaving Air Temp [°F]	34.4	36.7	-19.0
Room RH [%]	94	82	98
Air Flow [CFM]	78583	18388	47507
Air Changes / HR	18	6	3
Latent Load [TR]	30.0	0.2	2.6
Sensible Load [TR]	41.0	5.7	29.9
Total Load [TR]	71.1	5.9	32.5
Sensible Heat Ratio	0.58	0.97	0.92
Moisture Removal [gal/day]	766.6	5.2	67.0
Floor Area/Load [ft ² /TR]	183	827	900
Active Heating [MBH]	0.0	0.0	0.0
Time Cycle Factor [hrs/day]	16.9	24	19.8
Recommended Time Between Defrosts [hrs]	4.2	-	22.6
Adjusted Cooler Capacity [TR]	100.8	5.86	39.4

An example report from the refrigeration load simulator

www.colmaccoil.com

"The Heat Transfer Experts"

North American Headquarters

Colmac Coil Manufacturing, Inc.
370 N. Lincoln St. | P.O. Box 571
Colville, WA 99114 | USA
+1.509.684.2595 | +1.800.845.6778

Midwest US Manufacturing

Colmac Coil Midwest
350 Baltimore Dr. | Paxton, IL 60957 | USA



CRN



CSA

ASME Sec. VIII,
Canadian Registration Number, UL508, Canadian Standards Association