

REFRIGERATION LOAD SIMULATOR

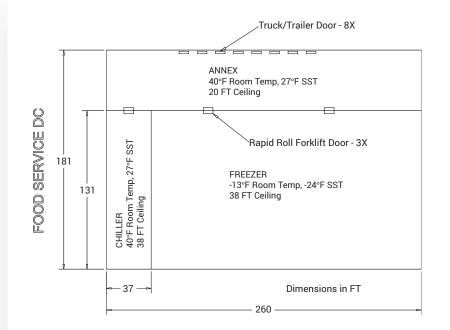


BREAKTHROUGH TECHNOLOGY

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

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



Create complete facility layouts, including custom shaped rooms



REFRIGERATION LOAD SIMULATOR

Location/Climate					
Location		CHICAGO/MIDWAY, Illinois, USA	Percentile		0.4 %
Design Outdoor Dry Bulb Ground Temperature		97.4 °F 51.633 °F	Mean Coincident Wet Bu Elevation	llb	78.4 °F 617 ft
Summary					
	Annex	Chill	er	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	1838	38	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 [ft²/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

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

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