Request for Refrigeration Budget Quote

Please fill out form and email: ***Support@FEcompany.com*** **Main: 206.800.1903**

Project Information			
Your Name: _____	**Box Application:**	(Food Storage)	Warm Food Cooling
The Project Name: _____	Wine Bottle Storage	Floral Cooler	Prep / Cutting Room
Project City/State: _____	Wine Barrel Storage	Morgue	Ice Cream Hardening

Box Information			
Refrigerated Box Dimensions	**Wall / Ceiling Thickness**	**Floor Thickness:**	**Installation Type:**
Box Length: _____	3.5"	3.5"	R-Value _____
Box Width: _____	(4.0")	(4.0")	(Polyurethane)
Box Height: _____	5.0"	5.0"	Concrete

Door Air Load Information			
Refrigerated Box Door Dimensions	**ASHRAE Calculation**	**Manual Calculation**	**Glass Doors**
Qty of Doors: _____	**Normal (2x's)	(Use ASHRAE)	(NO)
Door Width: _____	**Heavy (3x's)	Minutes Open Per Hour	If yes, how many?
Door Height: _____	Strip Curtains: Y / N	_____	_____

Product Load			
Will You Be Cooling Any Warm Food in the Box:	(NO)	** Product will arrive off a Refrigerated Truck	
(If YES), please enter product load information:	Weight _____Lbs./Hr.	Entering Temp _____°F	Cooling Time _____Hrs.

Miscellaneous Load		
Are there any Forklift(s) being used:	(NO)	(Manual Calculation) _____ Min/Hr.
People inside box, minutes per hour:	**(ASHRAE Calculation)	(Manual Calculation) _____ Min/Hr.

Mechanical Equipment Selection Information				
Type of System:	(Air Cooled)	Water Cooled	Self-Contained	Pre-Charged QC's
Type of Controls:	(Mechanical)	intelliGen	QRC	Other_____
Evaporator Type:	(Low Profile)	Center Mount	Low Velocity	Other_____
Evap. Voltage:	(Recommended)	230V	460V	115V
Cond. Unit Voltage:	(230V)	460V	(Single Phase)	Three Phase
Temperature of the Air surrounding the Compressor / Condensing Unit:			(95°F)	Other _____ °F

(IMPORTANT)	If a selction or value has not been provided, the grey highlighted boxes will be considered as the default values used to determine the refrigeration system's target cooling capacity. Note: The resulting quote is an over simplified sizing guide to help the quoting agent better understand the application with limited job information to generate a budget quote only. The corresponding boxload and equipment quote should be carefully reviewed in-depth with the end-user to ensure accuracy of the information provided prior to order placement. Also, the selected voltage and phase could increase based on size of equipment selected.

** All load calculations are derived from American Society of Heating, Refrigeration and Airconditioning Engineers (ASHRAE) research and recommendations. All loads are calculated using Heatcraft developed box load calculation and selection software.

Door Air Load Default: ASHRAE deveoped a simple method for calculating air infiltration amounts based on many yhears of research in the 1950's concerning commercial walk-in coolers and freezers. The data was used to generate 'average' rates of air chnages within coolers and freezers based on their room volumes. This method is called the air chnage method and is very popular to establish a base-line when clear, accurate intiltration values are not present.

Product Load Default: General mix of products entering at 2 pounds per ft^3 with product entering temperature 10°F above room temperature for freezers and 5°F for coolers.

Motor Load Default: For coolers default is set to 1HP per 16,000 ft^3 of room volume and freezers 1HP per 12,500 ft^3 of room volume. These will not be sufficient for heavily used areas (i.e., loading docks, blast cooler or freezers, distribution warehouses or processing rooms).

Forklift Load Default: Zero is default as "Motor Loads" include allowance for forklift operation in basic storage applications.

People Inside Box Default: One person per 25,000 ft^3 of room volume.

Lighting Default: 1 watt/ft^2 of floor area