

Refspecs Coolroom & Freezer Design Data

Heat Load Tables

2°C Coolrooms

Based on: -
28°C Ambient Temperature
100mm Polystyrene Panel, Concrete Floor

16 Hours/Day Compressor Operation
Design Usage Factor = Average 1.2, Heavy 2.0
Design Storage Humidity = 85% RH

External Dimensions - m				Heat Load - Watts					
Length	Width	Height	Internal Volume m³	Average Usage	Suggested Condensing Unit	Suggested Evaporator	Heavy Usage	Suggested Condensing Unit	Suggested Evaporator
1.8	1.2	2.4	3.52	883	RCU050M	HEJ - 2D	1186	RCU050M	HEJ - 2D
1.8	1.8	2.4	5.63	1089	RCU050M	HEJ - 2D	1460	RCU075M	HEJ - 3D
1.8	2.4	2.4	7.74	1277	RCU075M	HEJ - 3D	1700	RCU100M	HEJ - 3D
2.4	2.4	2.4	10.64	1493	RCU075M	HEJ - 3D	1979	RCU100M	HEJ - 4D
2.4	3.0	2.4	13.55	1695	RCU100M	HEJ - 3D	2232	RCU112M	HEA2502D
2.4	3.6	2.4	16.45	1888	RCU100M	HEJ - 4D	2474	RCU112M	HEA2502D
3.0	3.0	2.4	17.24	1923	RCU112M	HEA2502D	2520	RCU150M	HEA2503D
3.0	3.6	2.4	20.94	2141	RCU112M	HEA2502D	2792	RCU150M	HEA2503D
3.6	3.6	2.4	25.43	2384	RCU150M	HEA2503D	3090	RCU150M	HEA2503D
3.6	4.2	2.4	29.92	2618	RCU150M	HEA2503D	3375	RCU200M	HEA2503D
4.2	4.2	2.4	35.20	2874	RCU150M	HEA2503D	3687	RCU200M	HEA2503D

-18°C Freezers

Based on: -
28°C Ambient Temperature
150mm Polystyrene Panel, All Round

18 Hours/Day Compressor Operation
Design Usage Factor = Average 1.2, Heavy 2.0

External Dimensions - m				Heat Load - Watts					
Length	Width	Height	Internal Volume m³	Average Usage	Suggested Condensing Unit	Suggested Evaporator	Heavy Use	Suggested Condensing Unit	Suggested Evaporator
1.8	1.2	2.4	2.83	980			1314	RCU150L	HEJ - 3D
1.8	1.8	2.4	4.72	1206	RCU150L	HEJ - 3D	1621	RCU200L	HEJ - 4D
1.8	2.4	2.4	6.61	1406	RCU150L	HEJ - 4D	1885	RCU200L	HEA2502D
2.4	2.4	2.4	9.26	1637	RCU200L	HEJ - 4D	2189	RCU200L	HEA2503D
2.4	3.0	2.4	11.90	1848	RCU200L	HEA2502D	2464	RCU300L	HEA2503D
2.4	3.6	2.4	14.55	2048	RCU200L	HEA2502D	2720	RCU300L	HEA2503D
3.0	3.0	2.4	15.30	2087	RCU200L	HEA2503D	2770	RCU300L	HEA2504D
3.0	3.6	2.4	18.71	2309	RCU300L	HEA2503D	3056	RCUT400L	HEA2504D
3.6	3.6	2.4	22.86	2555	RCU300L	HEA2503D	3368	RCUT400L	HEA2504D
3.6	4.2	2.4	27.02	2792	RCU300L	HEA2504D	3666	RCUT400L	HEA3003D
4.2	4.2	2.4	31.94	3048	RCU300L	HEA2504D	3989	RCUT400L	HEA3003D

-20°C Freezers

Based on: -
28°C Ambient Temperature
150mm Polystyrene Panel, All Round

18 Hours/Day Compressor Operation
Design Usage Factor = Average 1.2, Heavy 2.0

External Dimensions - m				Heat Load - Watts					
Length	Width	Height	Internal Volume m³	Average Usage	Suggested Condensing Unit	Suggested Evaporator	Heavy Use	Suggested Condensing Unit	Suggested Evaporator
1.8	1.2	2.4	2.83	1018	RCU150L	HEJ - 3D	1362	RCU150L	HEJ - 3D
1.8	1.8	2.4	4.72	1253	RCU150L	HEJ - 3D	1684	RCU200L	HEJ - 4D
1.8	2.4	2.4	6.61	1463	RCU150L	HEJ - 4D	1957	RCU200L	HEA2502D
2.4	2.4	2.4	9.26	1700	RCU200L	HEJ - 4D	2272	RCU300L	HEA2502D
2.4	3.0	2.4	11.90	1920	RCU200L	HEA2502D	2557	RCU300L	HEA2503D
2.4	3.6	2.4	14.55	2130	RCU200L	HEA2502D	2826	RCU300L	HEA2503D
3.0	3.0	2.4	15.30	2166	RCU300L	HEA2502D	2875	RCUT400L	HEA2503D
3.0	3.6	2.4	18.71	2400	RCU300L	HEA2503D	3173	RCUT400L	HEA2503D
3.6	3.6	2.4	22.86	2656	RCU300L	HEA2503D	3499	RCUT400L	HEA2504D
3.6	4.2	2.4	27.02	2903	RCUT400L	HEA2503D	3806	RCUT400L	HEA2504D
4.2	4.2	2.4	31.94	3169	RCUT400L	HEA2504D	4141	RCUT500L	HEA3003D