



Specialists in the Manufacture of
Refrigeration Coils & Components

CORRECTION FACTOR CHARTS

TABLE 3

ALTITUDE / AMBIENT CORRECTION FACTOR

		SEA LEVEL	ALTITUDE METERS								
			200	400	600	800	1000	1200	1400	1600	1800
AMBIENT TEMP. °C	26	1.008	1.000	0.991	0.983	0.974	0.966	0.958	0.949	0.941	0.933
	28	1.004	0.996	0.988	0.980	0.972	0.964	0.956	0.948	0.940	0.931
	30	1.002	0.994	0.986	0.978	0.969	0.961	0.953	0.945	0.937	0.929
	32	1.000	0.992	0.984	0.976	0.967	0.959	0.951	0.943	0.935	0.927
	34	0.998	0.990	0.982	0.974	0.965	0.957	0.949	0.941	0.933	0.925
	36	0.995	0.987	0.979	0.971	0.963	0.955	0.947	0.939	0.931	0.923
	38	0.993	0.985	0.977	0.969	0.961	0.953	0.945	0.937	0.929	0.921
	40	0.991	0.983	0.975	0.967	0.959	0.951	0.943	0.935	0.927	0.919

TABLE 4

COMPRESSOR CORRECTION FACTOR EVAPORATING / CONDENSING TEMPERATURE

		COND. TEMP. °C	EVAPORATOR TEMPERATURE °C									
			-40	-35	-30	-25	-20	-15	-10	-5	0	+5
OPEN	40	1.50	1.45	1.40	1.35	1.31	1.27	1.25	1.21	1.18	1.16	1.13
	45	1.62	1.50	1.45	1.40	1.35	1.31	1.27	1.24	1.21	1.18	1.15
	50	1.69	1.59	1.49	1.45	1.40	1.35	1.31	1.27	1.24	1.21	1.18
HERMETIC	40	1.75	1.66	1.58	1.48	1.43	1.38	1.34	1.30	1.25	1.24	1.21
	45	1.85	1.73	1.62	1.56	1.48	1.43	1.37	1.33	1.29	1.25	1.24
	50	2.03	1.83	1.70	1.59	1.54	1.47	1.42	1.37	1.31	1.27	1.25

TABLE 5

FIN MATERIAL CORRECTION FACTOR

- FOR ALUMINIUM FINS : USE CORRECTION FACTOR OF 1.0
- FOR COPPER FINS : USE CORRECTION FACTOR OF 1.04
- FOR EPOXY AL. FINS : USE CORRECTION FACTOR OF 0.97

ALL CALCULATIONS ARE BASED ON R22 REFRIGERANT



Specialists in the Manufacture of
Refrigeration Coils & Components

ALTITUDE / AMBIENT REFERENCE CHART

TABLE 6

LOCATION:	ALTITUDE METRES	DESIGN D.B.- °C
ALEXANDER BAY	0	32
ALIWAL NORTH	1337	35
BARBERTON	852	35
BATHURST	259	34
BEAUFORT WEST	863	35
BERLIN	1341	30
BETHLEHEM	1615	32
BLOEMFONTEIN	1371	34
BREMERSDORP	626	32
CAPE TOWN	0	32
CARLTONVILLE	1341	32
CAROLINA	1690	33
CERES	457	36
CLANWILLIAM	76	43
CRADDOCK	873	35
DE AAR	1243	35
DUNDEE	1250	32
DURBAN	0	32
EAST LONDON	0	32
ERMELO	1675	32
ESTCOURT	1181	34
ESHOWE	502	33
FAURESMITH	932	35
FORT BEAUFORT	457	39
FRANCISTOWN	1004	37
FRASERBURG	1280	35
GABERONE	1007	38
GEORGE	0	31
GERMISTON	1665	31
GRAAFF-REINETT	750	40
GRAHAMSTOWN	539	36
GROOTFONTEIN	1263	35
HANOVER	1337	34
HARRISMITH	1628	31
HOPE TOWN	1219	35
HOWICK	1052	35
JOHANNESBURG	1752	32
KEETMANSHOOP	1004	39
KIMBERLEY	1196	35
KING WILLIAMSTOWN	375	37
KLERKSORP	1324	34
KNYSNA	0	31

LOCATION:	ALTITUDE METRES	D.B.- °C
KROONSTAD	1348	32
KRUGERSDORP	1699	31
LADYSMITH	1000	32
LINDLEY	1540	33
LOUIS TRICHARDT	961	35
LYDENBURG	1470	33
MAFEKENG	1272	35
MASERU	1571	33
MBABANE	1163	32
MIDDELBURG (TVL)	1447	31
MONTAGU	223	34
MESSINA	548	35
MIDRAND	1510	33
NELSPRUIT	731	34
NEWCASTLE	1185	32
OUDTSHOORN	334	37
PHALABORWA	405	36
PIETERMARITZBURG	792	32
PIETERSBURG	1301	34
PIET RETIEF	1271	33
PORT ELIZABETH	0	32
PORT SHEPSTONE	0	30
POTSCHEFSTROOM	1352	33
POTGIETERSRUST	1176	34
PRETORIA	1371	34
QUEENSTOWN	1077	37
ROBERTSON	172	35
ROODEPLAAT	1066	35
RUSTENBURG	1234	35
THABAZIMBI	1028	37
UITENHAGE	110	37
UMTATA	701	34
UPPINGTON	804	38
VENTERSDORP	1484	32
VEREENIGING	1417	33
VICTORIA WEST	1269	35
VRYBURG	1186	36
WARMBAD	1115	35
WELKOM	1375	34
WEPENER	1439	32
WINDHOEK	1728	34
WORCHESTER	201	37