BES-Line Condensing Units

PRODUCT DATA & SPECIFICATIONS

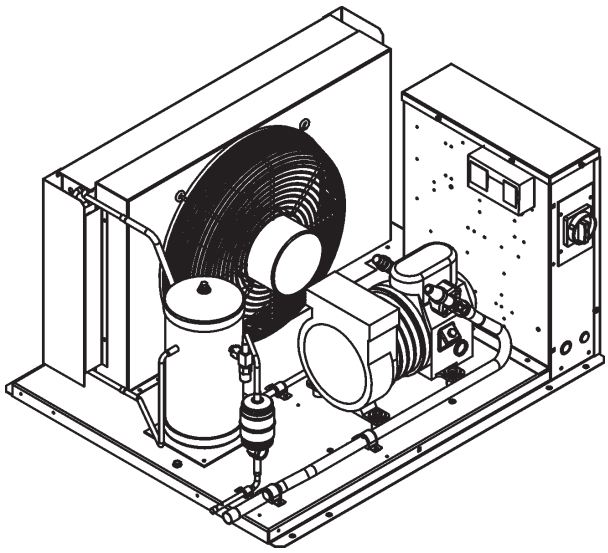
Bulletin B40-BES-PDS-50-1

1079407-50

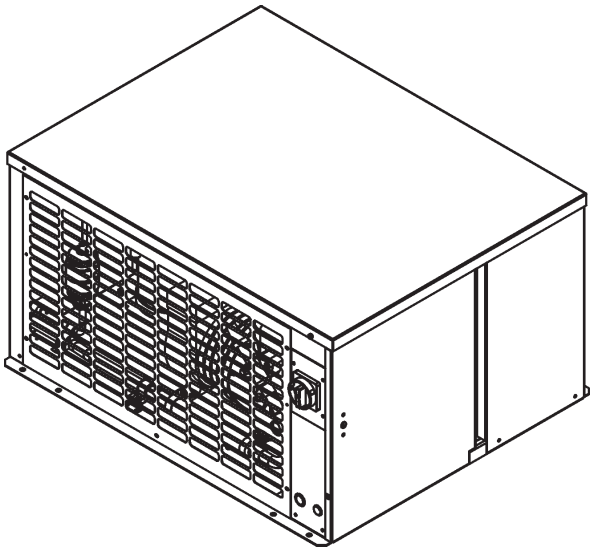
50 Hz

Indoor/Outdoor
Air-Cooled Semi-Hermetic
Condensing Units

1/2 to 7.5 HP -
High, Medium and Low
Temperature Refrigeration



Indoor Unit



Outdoor Unit

CONTENTS

NOMENCLATURE

B E S A 075 H 6 - H T4 A A

Model Name
B = Bally

Model Series
ES = Excel Semi-Hermetic Air Cooled Condensing Unit Line

Compressor Manufacturer
A = Copeland
B = Bitzer

Nominal HP
005 - 075 = 1/2 - 7.5 HP

Application Range
H = High and Med Temp
M = Med Temp
E = Extended Medium Temperature
L = Low Temp

Refrigerant*
2 = R22, 6 = R404A / R507

Enclosure
H = Outdoor
I = Indoor

Optional Feature Packages (Factory Mounted)
A = Standard Features (see below)
B = Standard Features (see below)
Plus Sealed Liquid Line Filter Drier and Sight Glass
C = Standard Features (see below)
Plus Sealed Liquid Line Filter Drier and Sight Glass
Plus Suction Accumulator
Plus Electric Defrost Kit
D = Standard Features (see below)
Plus Sealed Liquid Line Filter Drier and Sight Glass
Plus Heated and Insulated Receiver
E = Standard Features (see below)
Plus Sealed Liquid Line Filter Drier and Sight Glass
Plus Heated and Insulated Receiver
Plus Suction Accumulator
Plus Electric Defrost Kit
F = Standard Features (see below)
Plus Sealed liquid line filter drier and sight glass
Plus Electric Defrost Kit
G = Standard Features (see below)
Plus Sealed liquid line filter drier and sight glass
Plus Electric Defrost Kit
Plus Heated and insulated receiver

Series
A = Latest Catalog spec (1st generation)

Voltage*

S2 = 208/230-1-60	S3 = 230-1-60
S6 = 200/220-1-50	S7 = 200-1-50
T3 = 208/230-3-60	T4 = 460-3-60
T5 = 575-3-60	T7 = 200/220-3-50
T9 = 380/400-3-50	

* subject to compressor availability

STANDARD FEATURES

Indoor Unit:

- Weatherproof electrical control box with compressor contactor and fused control circuit
- Solid mounted accessible semi-hermetic compressor up to 2 HP models
- Spring mounted accessible semi-hermetic compressor with suction and discharge vibration eliminator on 3 HP and over models
- High efficiency enhanced tube and fin condenser design
- Energy efficient PSC condenser fan motor
- Receiver with fusible plug and liquid shut off valve
- Adjustable dual high / low pressure control
- Oil Failure Control (where applicable)
- Suction service valve
- Pre-formed copper tubing
- Unit leak tested and shipped with Helium holding charge

Outdoor Unit: All Standard Features of Indoor Unit, Plus:

- Outdoor weather-resistant housing with removable hood
- Flooded head pressure control (non adjustable)
- Crankcase heater

OPTIONAL FEATURE PACKAGES (Factory Mounted)

Package A:
- Standard Features (see pg. 2)

Package B:
- Standard Features (see pg. 2)
- *Plus* Sealed Liquid Line Filter Drier & Sight Glass

Package C:
- Standard Features (see pg. 2)
- *Plus* Sealed Liquid Line Filter Drier & Sight Glass
- *Plus* Suction Accumulator
- *Plus* Electric Defrost Kit

Package D:
- Standard Features (see pg. 2)
- *Plus* Sealed Liquid Line Filter Drier & Sight Glass
- *Plus* Heated and Insulated Receiver

Package E:
- Standard Features (see pg. 2)
- *Plus* Sealed Liquid Line Filter Drier & Sight Glass
- *Plus* Heated and Insulated Receiver
- *Plus* Suction Accumulator
- *Plus* Electric Defrost Kit

Package F:
- Standard Features (see pg. 2)
- *Plus* Sealed liquid line filter drier and sight glass
- *Plus* Electric Defrost Kit

Package G:
- Standard Features (see pg. 2)
- *Plus* Sealed liquid line filter drier and sight glass
- *Plus* Electric Defrost Kit
- *Plus* Heated and insulated receiver

OPTIONAL FEATURES (Factory Mounted)

- Spring mounted accessible compressor with suction and discharge vibration eliminator on up 2 HP
- Suction accumulator
- Suction accumulator with boil-out coil
- Discharge line Check valve
- Oil separator
- Oil separator c/w oil return filter & solenoid valve
- Adjustable head pressure control valves
- Receiver inlet ball valve
- Heated and Insulated receiver
- Over-sized receiver
- Sealed liquid line filter drier & sight-glass
- Ball valve - liquid line (shipped loose)
- Insulated suction lines
- Leg Kits
- Discharge air hood
- Sub cooling circuit on 5 and 7.5 HP models
- Flex hoses - for all pressure controls (Dual Pressure, Oil switch, etc..)
- Liquid line solenoid valve-(with standard 230 volt coil)-shipped loose
- Compressor Circuit breaker
- Current sensing relay - for use with Oil safety control (where applicable)
- Defrost heater contactor c/w fuse block
- Evaporator Fan contactor c/w fuse block
- Disconnect switch
- Disconnect Fusing
- Pump down toggle switch
- Lock out control circuit -Liquid solenoid valve with separate HP and LP controls
- Hoffmann Speed control for condenser fan (replaces flooded valve)
- Sentronic oil failure control (where applicable)
- Time delay relay for compressor
- Mechanical Time Clock -Paragon 8145
- Electronic Time Clock
- Electronic Defrost Kit
- Electronic Voltage/Phase Monitor

BESA COPELAND

R22 - HIGH/MEDIUM TEMPERATURE
CAPACITY WATTS

50Hz

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE ° C	AMBIENT TEMPERATURE ° C					
		29.4	32.2	35.0	37.8	40.6	43.3
BESA005H2 Compressor Model HAG2-0050	7.2	1881	1808	1738	1668	1599	1529
	4.4	1702	1635	1571	1507	1444	1382
	1.7	1532	1473	1413	1354	1300	1241
	-1.1	1377	1321	1266	1214	1163	1111
	-3.9	1228	1178	1133	1083	1037	990
	-6.7	1091	1047	1003	962	918	879
	-9.4	967	926	890	851	812	776
	-12.2	856	818	784	748	717	684
	-15	751	720	691	657	629	601
	-17.8	660	634	606	580	552	526
BESA008H2 Compressor Model KAN2-0075	7.2	2889	2785	2682	2566	2463	2360
	4.4	2630	2530	2430	2334	2239	2144
	1.7	2383	2293	2205	2117	2030	1942
	-1.1	2151	2069	1986	1909	1829	1751
	-3.9	1934	1859	1785	1712	1640	1568
	-6.7	1731	1661	1594	1527	1465	1398
	-9.4	1537	1478	1416	1357	1297	1238
	-12.2	1361	1308	1250	1199	1145	1089
	-15	1202	1150	1099	1052	1003	954
	-17.8	1055	1008	964	918	875	828
BESA010H2 Compressor Model KAR2-0100	7.2	3868	3740	3611	3456	3327	3198
	4.4	3560	3430	3301	3172	3043	2915
	1.7	3250	3120	3018	2889	2785	2657
	-1.1	2940	2837	2734	2630	2512	2406
	-3.9	2657	2558	2458	2360	2264	2164
	-6.7	2386	2295	2205	2115	2028	1937
	-9.4	2133	2050	1968	1885	1803	1720
	-12.2	1896	1823	1749	1671	1596	1522
	-15	1682	1612	1543	1475	1405	1336
	-17.8	1485	1421	1360	1297	1233	1169
BESA015H2 Compressor Model KAGB-0150	7.2	5029	4874	4694	4539	4384	4230
	4.4	4565	4411	4256	4101	3971	3817
	1.7	4153	3998	3843	3714	3560	3430
	-1.1	3740	3585	3456	3327	3198	3069
	-3.9	3327	3224	3095	2966	2837	2708
	-6.7	2966	2863	2734	2630	2515	2406
	-9.4	2630	2533	2424	2321	2220	2120
	-12.2	2331	2236	2141	2048	1955	1867
	-15	2064	1976	1890	1808	1728	1648
	-17.8	1829	1754	1679	1604	1532	1465
BESA020H2 Compressor Model KAKB-0200	7.2	6758	6525	6319	6112	5907	5674
	4.4	6164	5958	5777	5571	5364	5184
	1.7	5597	5416	5236	5055	4874	4694
	-1.1	5055	4901	4746	4591	4411	4256
	-3.9	4565	4436	4281	4126	3971	3817
	-6.7	4101	3971	3843	3714	3560	3430
	-9.4	3663	3560	3430	3301	3172	3043
	-12.2	3250	3147	3018	2915	2812	2682
	-15	2863	2760	2657	2548	2445	2336
	-17.8	2491	2391	2293	2195	2097	1998

--- Outside Operating Range

BESA COPELAND

R22 - HIGH/MEDIUM TEMPERATURE (cont'd)

CAPACITY WATTS

50Hz

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE ° C	AMBIENT TEMPERATURE ° C					
		29.4	32.2	35.0	37.8	40.6	43.3
BESA030H2 Compressor Model ERF1-0310	7.2	11139	10750	10353	9948	---	---
	4.4	10168	9809	9443	9070	8691	---
	1.7	9245	8915	8577	8235	7887	7529
	-1.1	8371	8068	7758	7444	7124	6800
	-3.9	7547	7269	6985	6699	6406	6112
	-6.7	6774	6516	6259	5995	5733	5465
	-9.4	6050	5815	5578	5342	5101	4859
	-12.2	5378	5161	4945	4731	4514	4298
	-15.0	4754	4556	4360	4164	3971	3775
BESA040H2 Compressor Model NRB2-0400	7.2	15622	15016	14427	13857	13311	12786
	4.4	14218	13656	13116	12592	12089	11611
	1.7	12883	12368	11868	11389	10930	10495
	-1.1	11620	11144	10685	10248	9827	9430
	-3.9	10423	9984	9562	9160	8776	8415
	-6.7	9288	8884	8496	8124	7777	7447
	-9.4	8214	7841	7480	7139	6817	6516
	-12.2	7197	6846	6514	6197	5898	5620
	-15.0	6228	5900	5586	5290	5012	4751
BESA050H2 Compressor Model 2DC3-0500	7.2	18307	17704	17101	16498	15895	15293
	4.4	16665	16107	15545	14986	14429	13870
	1.7	15118	14599	14082	13563	13045	12530
	-1.1	13664	13182	12703	12223	11744	11265
	-3.9	12298	11853	11409	10964	10520	10077
	-6.7	11020	10606	10193	9781	9368	8959
	-9.4	9823	9438	9054	8671	8286	7905
	-12.2	8701	8343	7985	7627	7269	6913
	-15.0	7655	7318	6980	6645	6310	5975
BESA051H2 Compressor Model 2DD3-0500	7.2	20660	19985	19307	18634	17956	17281
	4.4	18861	18234	17611	16985	16362	15738
	1.7	17158	16581	16004	15426	14852	14274
	-1.1	15550	15016	14483	13952	13422	12894
	-3.9	14035	13543	13050	12561	12072	11584
	-6.7	12610	12156	11700	11247	10796	10348
	-9.4	11273	10850	10431	10010	9596	9178
	-12.2	10018	9624	9235	8846	8459	8075
	-15.0	8840	8474	8108	7746	7388	7029
BESA075H2 Compressor Model 2DL3-0750	7.2	24759	23968	23174	22376	21574	---
	4.4	22693	21963	21229	20492	19750	19008
	1.7	20732	20061	19384	18704	18021	17336
	-1.1	18877	18258	17634	17009	16382	15754
	-3.9	17117	16550	15978	15404	14826	14252
	-6.7	15452	14932	14406	13880	13352	12824
	-9.4	13875	13396	12914	12433	11950	11469
	-12.2	12378	11937	11497	11054	10613	10173
	-15.0	10953	10549	10145	9737	9332	8930
BESA076H2 Compressor Model 2DA3-0750	7.2	27116	26230	25341	24445	---	---
	4.4	24970	24156	23339	22512	21682	---
	1.7	22906	22159	21407	20647	19879	19108
	-1.1	20925	20237	19544	18843	18137	17418
	-3.9	19023	18389	17750	17104	16444	15777
	-6.7	17204	16617	16021	15418	14805	14182
	-9.4	15462	14916	14360	13793	13216	12625
	-12.2	13798	13283	12755	12219	11667	11106
	-15.0	12206	11711	11206	10688	10160	9618

--- Outside Operating Range

BESA
COPELAND

R22 - MEDIUM TEMPERATURE
CAPACITY WATTS

50Hz

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE ° C	AMBIENT TEMPERATURE ° C					
		29.4	32.2	35.0	37.8	40.6	43.3
BESA005M2 Compressor Model HAJ1-0050	-3.9	1361	1313	1258	1210	1155	1104
	-6.7	1222	1174	1127	1078	1034	986
	-9.4	1091	1047	1003	962	918	876
	-12.2	970	931	890	854	812	776
	-15	859	820	787	751	717	684
	-17.8	756	720	689	655	627	596
	-20.6	657	627	598	568	541	513
BESA008M2 Compressor Model KAE2-0075	-3.9	2100	2025	1950	1873	1795	1718
	-6.7	1883	1813	1743	1674	1604	1532
	-9.4	1687	1622	1560	1496	1429	1364
	-12.2	1509	1449	1393	1333	1274	1214
	-15	1344	1292	1238	1184	1133	1078
	-17.8	1186	1140	1091	1047	998	951
	-20.6	1039	995	954	913	872	828
BESA010M2 Compressor Model KAM2-0100	-3.9	3275	3147	3018	2915	2785	2657
	-6.7	2966	2837	2734	2605	2502	2394
	-9.4	2657	2551	2445	2339	2239	2138
	-12.2	2370	2275	2180	2084	1989	1898
	-15	2102	2014	1929	1842	1756	1674
	-17.8	1844	1770	1692	1612	1537	1465
	-20.6	1602	1535	1468	1398	1331	1264
BESA021M2 Compressor Model ERC1-0200	-3.9	5107	4901	4719	4514	4307	4126
	-6.7	4539	4359	4178	3998	3843	3663
	-9.4	3998	3843	3688	3533	3378	3224
	-12.2	3508	3378	3250	3095	2966	2837
	-15	3069	2966	2837	2708	2579	2468
	-17.8	2682	2579	2468	2360	2247	2138
	-20.6	2342	2244	2144	2042	1942	1842
BESA030M2 Compressor Model 3RA1-0310	-3.9	8593	8289	7985	7678	7366	7052
	-6.7	7797	7506	7214	6921	6622	6320
	-9.4	7029	6756	6480	6200	5916	5630
	-12.2	6297	6039	5780	5517	5248	4976
	-15	5594	5357	5115	4870	4620	4365
BESA050M2 Compressor Model NRM1-0500	-3.9	14491	13994	13502	13007	12507	12002
	-6.7	13050	12600	12149	11698	11242	10784
	-9.4	11719	11306	10894	10484	10072	9652
	-12.2	10487	10113	9740	9366	8993	8611
	-15	9358	9018	8680	8343	8003	7658

--- Outside Operating Range

BESA
COPELAND

R404A/R507 - HIGH / MEDIUM TEMPERATURE
CAPACITY WATTS

50Hz

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE ° C	AMBIENT TEMPERATURE ° C					
		29.4	32.2	35.0	37.8	40.6	43.3
BESA050H6 Compressor Model 2DC3-050E	4.4	17073	16251	15440	14633	13834	13045
	1.7	15617	14868	14122	13383	12654	11930
	-1.1	14223	13538	12860	12187	11523	10865
	-3.9	12894	12272	11656	11048	10446	9848
	-6.7	11634	11072	10518	9969	9423	8884
	-9.4	10443	9940	9441	8949	8462	7977
	-12.2	9330	8882	8436	7996	7557	7127
	-15.0	8294	7897	7500	7109	6720	6336
	-17.8	7344	6991	6640	6292	5947	5604
	-20.6	6475	6164	5856	5548	5243	4939
BESA051H6 Compressor Model 2DD3-050E	4.4	19631	18722	17807	16887	15965	15040
	1.7	18039	17204	16367	15524	14679	13832
	-1.1	16498	15735	14971	14205	13432	12659
	-3.9	15014	14321	13625	12932	12234	11533
	-6.7	13597	12969	12342	11714	11084	10454
	-9.4	12250	11685	11121	10556	9992	9428
	-12.2	10984	10476	9971	9469	8966	8464
	-15.0	9804	9351	8899	8454	8008	7565
	-17.8	8719	8315	7916	7521	7130	6741
	-20.6	7735	7377	7022	6674	6331	5994
BESA075H6 Compressor Model 2DL3-050E	4.4	22759	21703	20649	19598	18547	17498
	1.7	20987	20021	19055	18093	17129	16168
	-1.1	19273	18389	17514	16632	15756	14880
	-3.9	17625	16823	16024	15228	14432	13636
	-6.7	16045	15321	14599	13878	13159	12440
	-9.4	14546	13891	13241	12592	11948	11301
	-12.2	13125	12541	11956	11376	10796	10217
	-15.0	11798	11273	10750	10232	9712	9193
	-17.8	10564	10095	9629	9163	8699	8238
	-20.6	9433	9010	8593	8176	7761	7346
BESA076H6 Compressor Model 2DA3-050E	4.4	25055	23878	22708	21541	20379	19222
	1.7	23206	22126	21049	19974	18908	17846
	-1.1	21419	20430	19446	18464	17485	16514
	-3.9	19701	18802	17903	17009	16115	15226
	-6.7	18054	17240	16423	15607	14795	13986
	-9.4	16485	15748	15007	14269	13533	12795
	-12.2	14996	14329	13658	12991	12322	11654
	-15.0	13586	12986	12378	11773	11165	10559
	-17.8	12262	11716	11167	10615	10062	9508
	-20.6	11020	10523	10023	9518	9010	8500

--- Outside Operating Range

BESA COPELAND

R404A/R507 - MEDIUM TEMPERATURE
CAPACITY WATTS

50Hz

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE ° C	AMBIENT TEMPERATURE ° C					
		29.4	32.2	35.0	37.8	40.6	43.3
BESA005M6 Compressor Model HAJB-005E	-3.9	1457	1380	1300	1222	1148	1073
	-6.7	1313	1238	1163	1091	1024	954
	-9.4	1178	1111	1045	980	915	854
	-12.2	1060	998	939	879	820	766
	-15	951	895	839	787	735	684
	-17.8	848	797	745	699	653	609
	-20.6	740	699	655	614	570	532
BESA010M6 Compressor Model KARB-010E	-3.9	2657	2543	2414	2288	2159	2030
	-6.7	2458	2339	2223	2105	1984	1865
	-9.4	2239	2130	2022	1914	1803	1692
	-12.2	2022	1921	1823	1720	1620	1516
	-15	1808	1715	1624	1535	1441	1349
	-17.8	1610	1527	1444	1361	1280	1199
	-20.6	1432	1357	1287	1212	1140	1065
BESA020M6 Compressor Model KAKA-020E	-3.9	4411	4204	3971	3766	3533	3301
	-6.7	4049	3843	3636	3430	3224	3043
	-9.4	3663	3482	3301	3120	2940	2760
	-12.2	3275	3120	2940	2785	2630	2468
	-15	2915	2760	2630	2481	2336	2195
	-17.8	2605	2466	2334	2205	2073	1947
	-20.6	2331	2213	2094	1973	1857	1741
BESA021M6 Compressor Model ERCA-021E	-3.9	5571	5287	5004	4719	4411	4153
	-6.7	5055	4771	4514	4256	3998	3740
	-9.4	4565	4307	4075	3843	3611	3353
	-12.2	4126	3895	3663	3456	3224	3018
	-15	3688	3482	3275	3095	2889	2708
	-17.8	3275	3095	2915	2734	2556	2380
	-20.6	2863	2708	2543	2380	2220	2061
BESA030M6 Compressor Model ERFA-031E	-3.9	8072	7694	7308	6916	6524	6127
	-6.7	7320	6975	6622	6266	5908	5548
	-9.4	6617	6300	5980	5656	5331	5004
	-12.2	5959	5672	5380	5084	4787	4492
	-15	5347	5084	4818	4548	4277	4007
	-17.8	4772	4532	4287	4040	3793	3548
	-20.6	4236	4012	3788	3559	3332	3105
BESA035M6 Compressor Model 3RAA-031E	-3.9	10036	9493	8949	8410	7872	7338
	-6.7	9057	8560	8065	7572	7083	6596
	-9.4	8129	7676	7227	6781	6336	5895
	-12.2	7253	6844	6436	6032	5630	5233
	-15	6434	6063	5694	5328	4965	4604
	-17.8	5666	5331	4996	4667	4339	4015
	-20.6	4953	4648	4347	4045	3749	3458
BESA040M6 Compressor Model NRB2-040E	-3.9	11046	10461	9882	9304	8735	8171
	-6.7	9977	9443	8915	8392	7874	7361
	-9.4	8972	8485	8005	7532	7063	6599
	-12.2	8026	7586	7147	6717	6292	5875
	-15	7138	6736	6339	5947	5561	5181
	-17.8	6300	5931	5568	5212	4859	4517
	-20.6	5506	5166	4834	4504	4182	3868

--- Outside Operating Range

BESA COPELAND

R404A/R507 - LOW TEMPERATURE
CAPACITY WATTS

50Hz

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE ° C	AMBIENT TEMPERATURE ° C					
		29.4	32.2	35.0	37.8	40.6	43.3
BESA005L6 Compressor Model KANB-005E	-17.8	1083	1011	944	875	807	737
	-20.6	951	884	823	764	701	642
	-23.3	823	766	709	655	604	546
	-26.1	704	653	604	554	508	459
	-28.9	596	549	505	462	421	377
	-31.7	498	454	415	377	341	302
	-34.4	407	369	335	302	268	235
	-37.2	330	297	266	238	204	175
	-40.0	266	238	206	180	152	124
BESA008L6 Compressor Model KAMB-007E	-17.8	1661	1581	1501	1419	1336	1250
	-20.6	1485	1411	1338	1266	1192	1114
	-23.3	1313	1246	1181	1117	1050	978
	-26.1	1148	1089	1031	972	908	846
	-28.9	993	942	887	833	779	720
	-31.7	856	807	761	712	660	606
	-34.4	737	693	650	606	557	508
	-37.2	640	601	560	521	474	429
	-40.0	570	534	498	457	415	369
BESA010L6 Compressor Model KAJA-011E	-17.8	2097	1981	1870	1756	1640	1524
	-20.6	1878	1774	1671	1568	1465	1357
	-23.3	1674	1581	1485	1393	1297	1202
	-26.1	1483	1398	1313	1225	1140	1055
	-28.9	1305	1228	1150	1070	993	915
	-31.7	1137	1067	998	931	862	792
	-34.4	983	920	859	797	735	676
	-37.2	843	787	730	676	621	565
	-40.0	712	660	612	562	516	466
BESA015L6 Compressor Model KALB-015E	-17.8	3250	3095	2915	2760	2579	2416
	-20.6	2915	2760	2605	2453	2300	2148
	-23.3	2579	2450	2311	2174	2035	1896
	-26.1	2291	2161	2037	1911	1785	1661
	-28.9	2009	1896	1782	1668	1555	1439
	-31.7	1751	1648	1543	1441	1338	1236
	-34.4	1509	1416	1324	1230	1137	1045
	-37.2	1289	1205	1119	1037	951	867
	-40.0	1083	1006	931	854	776	696
BESA020L6 Compressor Model EADA-020E	-17.8	3766	3560	3327	3120	2915	2708
	-20.6	3353	3147	2940	2760	2563	2378
	-23.3	2966	2785	2605	2414	2239	2071
	-26.1	2605	2427	2264	2100	1942	1793
	-28.9	2259	2107	1958	1810	1671	1537
	-31.7	1950	1818	1682	1547	1426	1310
	-34.4	1674	1552	1432	1316	1207	1109
	-37.2	1426	1316	1210	1109	1014	934
	-40.0	1207	1109	1014	926	848	784
BESA021L6 Compressor Model EAVB-021E	-17.8	4101	3895	3663	3456	3250	3043
	-20.6	3688	3482	3301	3095	2915	2734
	-23.3	3275	3095	2940	2760	2605	2424
	-26.1	2889	2734	2579	2432	2280	2128
	-28.9	2533	2396	2262	2120	1978	1837
	-31.7	2205	2084	1955	1826	1692	1558
	-34.4	1909	1795	1676	1552	1421	1287
	-37.2	1648	1537	1421	1297	1166	1029
	-40.0	1421	1313	1192	1063	926	787

--- Outside Operating Range

BESA COPELAND

R404A/R507 - LOW TEMPERATURE (cont'd)
CAPACITY WATTS

50Hz

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE ° C	AMBIENT TEMPERATURE ° C					
		29.4	32.2	35.0	37.8	40.6	43.3
BESA030L6 Compressor Model LAHA-032E	-17.8	6867	6506	6150	5795	5434	5071
	-20.6	6120	5790	5460	5128	4795	4457
	-23.3	5408	5104	4800	4493	4187	3873
	-26.1	4731	4453	4174	3893	3612	3324
	-28.9	4089	3837	3587	3332	3074	2811
	-31.7	3491	3265	3035	2809	2574	2335
	-34.4	2932	2732	2530	2324	2116	1899
	-37.2	2422	2244	2069	1888	1703	1510
	-40.0	1958	1808	1654	1500	1338	1164
BESA031L6 Compressor Model NRD1-032E	-17.8	7588	7202	6816	6428	6050	5679
	-20.6	6792	6442	6091	5741	5398	5065
	-23.3	6063	5746	5426	5115	4806	4509
	-26.1	5390	5101	4815	4535	4262	3999
	-28.9	4764	4504	4246	3996	3754	3525
	-31.7	4171	3937	3705	3484	3270	3071
	-34.4	3597	3388	3182	2984	2798	2626
	-37.2	3032	2842	2659	2484	2321	2174
	-40.0	2460	2288	2123	1966	1824	1700
BESA035L6 Compressor Model 2DF3-030E	-17.8	8557	8137	7725	7318	6911	6508
	-20.6	7691	7315	6944	6581	6217	5851
	-23.3	6869	6534	6205	5878	5550	5223
	-26.1	6094	5795	5501	5207	4914	4620
	-28.9	5370	5104	4839	4576	4311	4040
	-31.7	4700	4457	4220	3981	3736	3489
	-34.4	4081	3862	3643	3421	3195	2963
	-37.2	3517	3313	3110	2901	2685	2463
	-40.0	3010	2813	2618	2416	2205	1986
BESA040L6 Compressor Model 2DL3-040E	-17.8	10435	9948	9464	8980	8498	8013
	-20.6	9384	8946	8508	8070	7632	7194
	-23.3	8394	8000	7604	7210	6813	6419
	-26.1	7464	7109	6753	6398	6039	5684
	-28.9	6596	6274	5955	5636	5313	4991
	-31.7	5784	5496	5210	4919	4631	4342
	-34.4	5034	4775	4514	4254	3991	3729
	-37.2	4342	4104	3868	3631	3391	3151
	-40.0	3705	3489	3270	3051	2832	2610
BESA060L6 Compressor Model 2DB3-060E	-17.8	12911	12337	11759	11183	10598	10007
	-20.6	11623	11103	10585	10065	9541	9013
	-23.3	10404	9935	9471	9005	8536	8065
	-26.1	9258	8838	8421	8003	7586	7166
	-28.9	8183	7805	7431	7058	6686	6316
	-31.7	7183	6838	6501	6169	5839	5509
	-34.4	6253	5939	5633	5334	5040	4746
	-37.2	5390	5101	4821	4550	4285	4025
	-40.0	4594	4326	4066	3818	3576	3340

--- Outside Operating Range

BESA
COPELAND

R404A/R507 - LOW TEMPERATURE (cont'd)
CAPACITY WATTS

50Hz

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE ° C	AMBIENT TEMPERATURE ° C					
		29.4	32.2	35.0	37.8	40.6	43.3
BESA061L6 Compressor Model 3DA3A060E	-17.8	14076	13475	12881	12283	11680	11070
	-20.6	12692	12156	11623	11090	10546	9992
	-23.3	11381	10904	10431	9951	9464	8962
	-26.1	10146	9724	9302	8871	8430	7977
	-28.9	8993	8616	8240	7854	7457	7039
	-31.7	7924	7588	7250	6903	6537	6153
	-34.4	6941	6640	6333	6014	5676	5318
	-37.2	6047	5775	5491	5195	4878	4535
	-40.0	5246	4991	4723	4440	4133	3803
BESA075L6 Compressor Model 3DB3A075E	-17.8	16093	15401	14715	14038	13365	---
	-20.6	14546	13930	13319	12713	12113	---
	-23.3	13081	12538	11994	11456	10920	10384
	-26.1	11708	11224	10745	10263	9781	9299
	-28.9	10420	9992	9565	9134	8699	8263
	-31.7	9219	8838	8454	8065	7668	7269
	-34.4	8104	7761	7410	7052	6686	6313
	-37.2	7068	6753	6428	6094	5746	5390
	-40.0	6112	5813	5504	5179	4844	4493

--- Outside Operating Range

BESB
BITZER

R22 - HIGH / MEDIUM TEMPERATURE
CAPACITY WATTS

50Hz

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE ° C	AMBIENT TEMPERATURE ° C					
		29.4	32.2	35.0	37.8	40.6	43.3
BESB029H2 Compressor Model 2FC-3.2	7.2	9252	8936	8619	8305	7996	7686
	4.4	8464	8171	7880	7588	7300	7016
	1.7	7719	7449	7178	6911	6645	6385
	-1.1	7019	6769	6519	6274	6030	5790
	-3.9	6359	6130	5900	5676	5452	5231
	-6.7	5741	5529	5320	5115	4911	4707
	-9.4	5164	4970	4779	4589	4404	4218
	-12.2	4623	4448	4272	4099	3929	3762
	-15.0	4120	3960	3801	3643	3489	3334
BESB030H2 Compressor Model 2EC-3.2	7.2	10840	10464	10090	9719	9351	8985
	4.4	9912	9562	9214	8869	8524	8183
	1.7	9036	8712	8387	8065	7743	7425
	-1.1	8210	7908	7606	7308	7008	6712
	-3.9	7433	7153	6872	6594	6318	6042
	-6.7	6705	6444	6184	5926	5669	5411
	-9.4	6024	5782	5540	5300	5061	4821
	-12.2	5387	5164	4939	4715	4492	4270
	-15.0	4795	4587	4378	4169	3960	3754
BESB035H2 Compressor Model 2DC-3.2	7.2	13211	12752	12295	11845	11394	10948
	4.4	12069	11644	11219	10796	10376	9962
	1.7	10992	10598	10204	9809	9418	9031
	-1.1	9979	9613	9245	8879	8516	8158
	-3.9	9029	8688	8349	8008	7671	7336
	-6.7	8137	7820	7506	7189	6877	6566
	-9.4	7305	7011	6717	6426	6135	5844
	-12.2	6527	6256	5983	5712	5442	5171
	-15.0	5805	5553	5300	5048	4792	4543
BESB040H2 Compressor Model 2CC-4.2	7.2	15674	15104	14535	13974	13416	12867
	4.4	14375	13842	13314	12788	12267	11755
	1.7	13141	12646	12151	11662	11175	10696
	-1.1	11976	11512	11054	10598	10145	9696
	-3.9	10873	10446	10018	9593	9170	8752
	-6.7	9838	9441	9041	8647	8255	7866
	-9.4	8863	8496	8127	7758	7392	7032
	-12.2	7954	7611	7269	6926	6586	6248
	-15.0	7103	6784	6467	6148	5831	5514
BESB050H2 Compressor Model 4FC-5.2	7.2	18550	17931	17310	16689	16071	15452
	4.4	16942	16367	15792	15215	14641	14063
	1.7	15421	14888	14357	13821	13288	12755
	-1.1	13988	13497	13005	12509	12015	11520
	-3.9	12644	12187	11731	11275	10817	10358
	-6.7	11378	10959	10539	10116	9693	9271
	-9.4	10198	9809	9420	9031	8640	8250
	-12.2	9096	8738	8377	8016	7655	7294
	-15.0	8068	7738	7405	7070	6738	6403
BESB060H2 Compressor Model 4EC-6.2	7.2	21932	21169	20407	19642	18877	18111
	4.4	20095	19386	18678	17967	17256	16542
	1.7	18353	17697	17037	16377	15715	15052
	-1.1	16704	16093	15483	14869	14257	13641
	-3.9	15146	14582	14017	13447	12878	12306
	-6.7	13680	13159	12636	12108	11579	11051
	-9.4	12303	11822	11334	10848	10358	9866
	-12.2	11015	10567	10118	9665	9212	8752
	-15.0	9809	9397	8980	8560	8137	7712
BESB075H2 Compressor Model 4DC-7.2	7.2	25638	24746	23852	22960	22069	21175
	4.4	23548	22718	21886	21057	20227	19394
	1.7	21554	20783	20013	19239	18469	17697
	-1.1	19657	18944	18230	17514	16797	16081
	-3.9	17859	17196	16537	15872	15210	14547
	-6.7	16158	15548	14934	14321	13708	13092
	-9.4	14553	13986	13422	12855	12286	11716
	-12.2	13043	12522	11997	11473	10948	10420
	-15.0	11628	11147	10662	10175	9688	9199

--- Outside Operating Range

BESB
BITZER

R404A/R507 - HIGH / MEDIUM TEMPERATURE

CAPACITY WATTS

50Hz

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE ° C	AMBIENT TEMPERATURE ° C					
		29.4	32.2	35.0	37.8	40.6	43.3
BESB029H6 Compressor Model 2FC-3.2Y	4.4	8856	8413	7969	7532	7099	6666
	1.7	8144	7735	7328	6924	6524	6125
	-1.1	7467	7088	6714	6344	5975	5612
	-3.9	6820	6472	6130	5790	5455	5122
	-6.7	6208	5890	5576	5267	4960	4656
	-9.4	5628	5339	5053	4772	4493	4218
	-12.2	5078	4815	4558	4303	4051	3801
	-15.0	4563	4326	4092	3862	3635	3409
	-17.8	4081	3868	3656	3448	3241	3038
	-20.6	3631	3435	3244	3056	2873	2690
BESB030H6 Compressor Model 2EC-3.2Y	4.4	10539	10021	9505	8990	8477	7964
	1.7	9714	9232	8755	8282	7807	7336
	-1.1	8921	8480	8039	7604	7168	6736
	-3.9	8163	7758	7356	6955	6558	6161
	-6.7	7441	7073	6705	6339	5975	5612
	-9.4	6758	6421	6086	5751	5422	5092
	-12.2	6109	5803	5498	5195	4895	4594
	-15.0	5498	5220	4945	4669	4396	4125
	-17.8	4924	4671	4421	4171	3924	3679
	-20.6	4385	4156	3929	3703	3479	3257
BESB035H6 Compressor Model 2DC-3.2Y	4.4	12839	12223	11611	10997	10384	9776
	1.7	11811	11242	10678	10113	9549	8990
	-1.1	10827	10307	9786	9271	8752	8238
	-3.9	9892	9415	8941	8466	7993	7524
	-6.7	9005	8570	8137	7704	7274	6844
	-9.4	8166	7769	7374	6980	6589	6200
	-12.2	7372	7011	6653	6297	5942	5589
	-15.0	6625	6300	5975	5650	5331	5012
	-17.8	5923	5630	5336	5042	4754	4465
	-20.6	5269	5001	4736	4473	4207	3948
BESB040H6 Compressor Model 2CC-4.2Y	4.4	15274	14532	13790	13053	12311	11575
	1.7	14094	13411	12726	12045	11365	10685
	-1.1	12963	12331	11706	11079	10454	9830
	-3.9	11876	11301	10726	10152	9580	9010
	-6.7	10840	10312	9788	9266	8745	8224
	-9.4	9853	9371	8894	8421	7946	7475
	-12.2	8913	8480	8047	7614	7186	6756
	-15.0	8026	7632	7241	6852	6462	6076
	-17.8	7189	6831	6478	6125	5775	5426
	-20.6	6403	6078	5756	5439	5122	4808
BESB050H6 Compressor Model 4FC-5.2Y	4.4	17681	16862	16042	15226	14411	13597
	1.7	16269	15514	14762	14010	13262	12514
	-1.1	14921	14228	13538	12850	12164	11479
	-3.9	13638	13002	12373	11744	11118	10495
	-6.7	12417	11840	11265	10693	10124	9557
	-9.4	11260	10737	10214	9696	9180	8668
	-12.2	10168	9693	9222	8755	8289	7825
	-15.0	9140	8712	8286	7864	7444	7027
	-17.8	8173	7786	7405	7024	6645	6272
	-20.6	7271	6921	6575	6233	5892	5555

--- Outside Operating Range

BESB
BITZER

R404A/R507 - HIGH / MEDIUM TEMPERATURE (cont'd)

CAPACITY WATTS

50Hz

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE ° C	AMBIENT TEMPERATURE ° C					
		29.4	32.2	35.0	37.8	40.6	43.3
BESB060H6 Compressor Model 4EC-6.2Y	4.4	20530	19513	18506	17501	---	---
	1.7	18982	18042	17109	16184	15262	14347
	-1.1	17490	16627	15766	14916	14069	13228
	-3.9	16060	15269	14480	13700	12925	12154
	-6.7	14692	13968	13249	12538	11829	11128
	-9.4	13388	12726	12074	11428	10784	10146
	-12.2	12147	11548	10956	10368	9786	9209
	-15.0	10971	10428	9892	9361	8835	8315
	-17.8	9859	9368	8884	8405	7931	7462
	-20.6	8812	8369	7931	7500	7073	6650
BESB075H6 Compressor Model 4DC-7.2Y	4.4	24012	22860	---	---	---	---
	1.7	22260	21196	20129	---	---	---
	-1.1	20564	19580	18603	17625	---	---
	-3.9	18925	18026	17127	16232	15336	---
	-6.7	17351	16529	15707	14890	14074	13257
	-9.4	15841	15091	14344	13602	12860	12118
	-12.2	14396	13716	13041	12365	11693	11023
	-15.0	13022	12404	11793	11185	10577	9971
	-17.8	11714	11159	10606	10057	9510	8965
	-20.6	10479	9977	9477	8982	8490	8000

--- Outside Operating Range

BESB
BITZER

R404A/R507 - LOW TEMPERATURE
CAPACITY WATTS

50Hz

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE ° C	AMBIENT TEMPERATURE ° C					
		29.4	32.2	35.0	37.8	40.6	43.3
BESB030L6 Compressor Model 2CC-3.2Y	-17.8	6880	6519	6164	5811	5460	5117
	-20.6	6150	5823	5501	5181	4867	4556
	-23.3	5460	5166	4875	4587	4303	4022
	-26.1	4811	4545	4282	4025	3770	3517
	-28.9	4203	3965	3729	3496	3265	3038
	-31.7	3635	3421	3208	2999	2790	2587
	-34.4	3110	2916	2726	2535	2347	2165
	-37.2	2626	2451	2275	2102	1932	1763
	-40.0	2182	2020	1858	1700	1544	1389
BESB031L6 Compressor Model 4FC-3.2Y	-17.8	7498	7127	6758	6395	6032	5673
	-20.6	6714	6377	6045	5715	5387	5065
	-23.3	5973	5669	5370	5071	4778	4486
	-26.1	5275	4998	4728	4462	4200	3940
	-28.9	4617	4370	4128	3888	3654	3421
	-31.7	4004	3782	3563	3349	3141	2932
	-34.4	3432	3231	3038	2845	2657	2474
	-37.2	2899	2721	2546	2373	2203	2038
	-40.0	2409	2247	2087	1930	1780	1631
BESB039L6 Compressor Model 4EC-4.2Y	-17.8	9368	8890	8415	7949	7488	7034
	-20.6	8408	7972	7544	7122	6705	6292
	-23.3	7498	7103	6717	6336	5962	5592
	-26.1	6640	6287	5936	5597	5259	4926
	-28.9	5836	5519	5205	4898	4597	4301
	-31.7	5084	4798	4517	4243	3973	3707
	-34.4	4383	4128	3876	3628	3385	3149
	-37.2	3734	3502	3274	3054	2837	2626
	-40.0	3131	2922	2718	2518	2321	2129
BESB050L6 Compressor Model 4DC-5.2Y	-17.8	11651	11084	10526	9969	9420	8874
	-20.6	10423	9912	9405	8905	8408	7918
	-23.3	9266	8807	8351	7900	7454	7014
	-26.1	8180	7766	7359	6955	6558	6164
	-28.9	7166	6794	6428	6068	5712	5362
	-31.7	6220	5887	5561	5239	4921	4612
	-34.4	5342	5042	4751	4462	4182	3906
	-37.2	4529	4262	3999	3741	3489	3244
	-40.0	3780	3538	3301	3069	2842	2621
BESB060L6 Compressor Model 4CC-6.2Y	-17.8	13571	12878	12195	11523	10863	10214
	-20.6	12208	11579	10964	10356	9760	9176
	-23.3	10912	10345	9791	9248	8712	8188
	-26.1	9688	9178	8680	8194	7714	7248
	-28.9	8532	8078	7632	7197	6772	6354
	-31.7	7449	7042	6645	6256	5880	5509
	-34.4	6436	6073	5717	5372	5037	4710
	-37.2	5493	5169	4849	4543	4243	3953
	-40.0	4617	4326	4040	3765	3496	3234

--- Outside Operating Range

BESA COPELAND

ELECTRICAL DATA
COPELAND MODELS

50Hz

CONDENSING UNIT MODEL		COMPRESSOR MODEL NO.	POWER SUPPLY	COMPRESSOR		CONDENSER FAN MOTOR		MCA	MOP
				RLA	LRA	QTY	FLA		
BESA005H2- *	S6A	HAG2-0050-CAV	200-220/1/50	4.0	22	1	0.5	5.5	15
	T7A	HAG1-0050-TAC	200-220/3/50	2.4	13	1	0.5	3.5	15
BESA008H2- *	S6A	KAN2-0075-CAV	200-220/1/50	6.1	36	1	0.5	8.1	15
	T7A	KAN1-0075-TAC	200-220/3/50	3.5	19.9	1	0.5	4.9	15
BESA010H2- *	S6A	KAR2-0100-CAV	200-220/1/50	7.4	40	1	0.5	9.8	15
	T7A	KAR1-0100-TAC	200-220/3/50	4.3	27	1	0.5	5.9	15
BESA015H2- *	S6A	KAGB-0150-CAV	200-220/1/50	9.6	55	1	1.1	13.1	20
	T7A	KAGA-0150-TAC	200-220/3/50	5.5	35.5	1	1.1	8.0	15
	T9A	KAGA-0150-TAD	380-460/3/50	2.5	18.2	1	0.6	3.7	15
BESA020H2- *	S6A	KAKB-0200-CAV	200-220/1/50	10.6	55	1	1.1	14.4	25
	T7A	KAKA-0200-TAC	200-220/3/50	6.8	50	1	1.1	9.6	15
	T9A	KAKA-0200-TAD	380-460/3/50	3.0	25	1	0.6	4.4	15
BESA030H2- *	HT7	ERF1-0310-TAC	200-220/3/50	11.7	82	1	2.1	15.7	25
	HT9	ERF1-0310-TAD	380-460/3/50	6.4	41	1	0.9	8.9	15
BESA040H2- *	HT7	NRB2-0400-TFC	200-220/3/50	21.8	141	1	2.1	28.4	50
	HT9	NRB2-0400-TFD	380-460/3/50	11.3	63	1	0.9	15.0	25
BESA050H2- *	HT7	2DC3-0500-TFC	200-220/3/50	22.3	120	1	2.1	30.0	50
	HT9	2DC3-0500-TFD	380-460/3/50	10.4	60	1	1.1	14.1	20
BESA051H2- *	HT7	2DD3-0500-TFC	200-220/3/50	22.3	120	1	2.1	30.0	50
	HT9	2DD3-0500-TFD	380-460/3/50	10.5	60	1	1.1	14.2	20
BESA075H2- *	HT7	2DL3-0750-TFC	200-220/3/50	31.6	169	1	2.1	41.6	70
	HT9	2DL3-0750-TFD	380-460/3/50	13.8	85	1	1.1	18.4	30
BESA076H2- *	HT7	2DA3-0750-TFC	200-220/3/50	32.0	169	1	2.1	42.1	70
	HT9	2DA3-0750-TFD	380-460/3/50	14.1	85	1	1.1	18.7	30
BESA005M2- *	S6A	HAJ2-0050-CAV	200-220/1/50	3.7	22	1	0.5	5.1	15
	T7A	HAJ1-0050-TAC	200-220/3/50	2.2	13	1	0.5	3.3	15
BESA008M2- *	S6A	KAE2-0075-CAV	200-220/1/50	5.4	36	1	0.5	7.3	15
	T7A	KAE1-0075-TAC	200-220/3/50	3.4	19.9	1	0.5	4.8	15
BESA010M2- *	S6A	KAM2-0100-CAV	200-220/1/50	7.5	40	1	0.5	9.9	15
	T7A	KAM1-0100-TAC	200-220/3/50	4.5	27	1	0.5	6.1	15
BESA021M2- *	T7A	ERC1-0200-TAC	200-220/3/50	6.8	46	1	1.1	9.6	15
	T9A	ERC1-0200-TAD	380-460/3/50	3.6	23	1	0.6	5.1	15
BESA030M2- *	HT7	3RA1-0310-TAC	200-220/3/50	13.1	82	1	2.1	18.5	30
	HT9	3RA1-0310-TAD	380-460/3/50	6.6	41	1	1.1	9.4	15
BESA050M2- *	HT7	NRM1-0500-TFC	200-220/3/50	24.3	141	1	2.1	32.5	50
	HT9	NRM1-0500-TFD	380-460/3/50	12.1	63	1	1.1	16.2	25

* I = Indoor, H = Outdoor. Above listed RLA value is based on UL rating method and may differ from published compressor RLA data.

BESA
COPELAND

ELECTRICAL DATA
COPELAND MODELS (cont'd)

50Hz

CONDENSING UNIT MODEL		COMPRESSOR MODEL NO.	POWER SUPPLY	COMPRESSOR		CONDENSER FAN MOTOR		MCA	MOP
				RLA	LRA	QTY	FLA		
BESA050H6- *	HT7	2DC3-050E-TFC	200-220/3/50	26.3	161	1	2.1	35.0	60
	HT9	2DC3-050E-TFD	380-460/3/50	10.2	60	1	1.1	13.9	20
BESA051H6- *	HT7	2DD3-050E-TFC	200-220/3/50	28.2	161	1	2.1	37.4	60
	HT9	2DD3-050E-TFD	380-460/3/50	13.3	80	1	1.1	17.7	30
BESA075H6- *	HT7	2DL3-050E-TFC	200-220/3/50	30.3	150	1	2.1	40.0	70
	HT9	2DL3-050E-TFD	380-460/3/50	13.7	77	1	1.1	18.2	30
BESA076H6- *	HT7	2DA3-050E-TFC	200-220/3/50	31.5	161	1	2.1	41.5	70
	HT9	2DA3-050E-TFD	380-460/3/50	16.1	83	1	1.1	21.2	35
BESA005M6- *	S6A	HAJB-005E-CAV	200-220/1/50	3.7	22	1	0.5	5.1	15
BESA010M6- *	S6A	KARB-010E-CAV	200-220/1/50	7.4	40	1	0.5	9.8	15
	T7A	KARA-010E-TAC	200-220/3/50	4.3	27	1	0.5	5.9	15
BESA020M6- *	S6A	KAKB-021E-CAV	200-220/1/50	10.6	55	1	1.1	14.4	25
	T7A	KAKA-020E-TAC	200-220/3/50	6.8	50	1	1.1	9.6	15
	T9A	KAKA-022E-TAD	380-460/3/50	3.0	25	1	0.6	4.4	15
BESA021M6- *	T7A	ERCA-021E-TAC	200-220/3/50	8.8	46	1	1.1	12.1	20
	T9A	ERCA-020E-TAD	380-460/3/50	3.5	23	1	1.1	5.5	15
BESA030M6- *	HT7	ERFA-031E-TAC	200-220/3/50	3.5	23	1	1.1	5.5	15
	HT9	ERFA-031E-TAD	380-460/3/50	3.1	20	1	0.6	4.5	15
BESA035M6- *	HT7	3RAA-031E-TAC	200-220/3/50	3.5	23	1	1.1	5.5	15
	HT9	3RAA-031E-TAD	380-460/3/50	3.1	20	1	0.6	4.5	15
BESA040M6- *	HT7	NRB2-040E-TFC	200-220/3/50	3.5	23	1	1.1	5.5	15
	HT9	NRB2-040E-TFD	380-460/3/50	3.1	20	1	0.6	4.5	15

* I = Indoor, H = Outdoor. Above listed RLA value is based on UL rating method and may differ from published compressor RLA data.

BESA
COPELAND

ELECTRICAL DATA
COPELAND MODELS (cont'd)

50Hz

CONDENSING UNIT MODEL		COMPRESSOR MODEL NO.	POWER SUPPLY	COMPRESSOR		CONDENSER FAN MOTOR		MCA	MOP
				RLA	LRA	QTY	FLA		
BESA005L6- *	S6A	KANB-005E-CAV	200-220/1/50	3.6	24	1	0.5	5.0	15
	T7A	KANA-006E-TAC	200-220/3/50	2.2	13.2	1	0.5	3.3	15
BESA008L6- *	S6A	KAMB-007E-CAV	200-220/1/50	5.6	36	1	0.5	7.5	15
	T7A	KAMA-007E-TAC	200-220/3/50	3.2	19.9	1	0.5	4.5	15
BESA010L6- *	T7A	KAJA-011E-TAC	200-220/3/50	4.6	27	1	0.5	6.3	15
BESA015L6- *	S6A	KALB-015E-CAV	200-220/1/50	9.9	55	1	1.1	13.5	20
	T7A	KALA-016E-TAC	200-220/3/50	6.6	50	1	1.1	9.4	15
	T9A	KALA-016E-TAD	380-460/3/50	3.4	25	1	0.6	4.9	15
BESA020L6- *	T7A	EADA-020E-TAC	200-220/3/50	6.8	46	1	1.1	9.6	15
BESA021L6- *	S6A	EAVB-021E-CAV	200-220/1/50	14.7	102	1	1.1	19.5	30
	T7A	EAVA-021E-TAC	200-220/3/50	7.4	50	1	1.1	10.4	15
	T9A	EAVA-021E-TAD	380-460/3/50	3.9	26.6	1	0.6	5.5	15
BESA030L6- *	HT7	LAHA-032E-TAC	200-220/3/50	12.8	112	1	2.1	18.1	30
	HT9	LAHA-032E-TAD	380-460/3/50	6.0	56.0	1	1.1	8.6	15
BESA031L6- *	HT7	NRD1-032E-TFC	200-220/3/50	16.3	82	1	2.1	22.5	35
	HT9	NRD1-032E-TFD	380-460/3/50	8.4	41.0	1	1.1	11.6	20
BESA035L6- *	HT7	2DF3-030E-TFC	200-220/3/50	16.8	102	1	2.1	23.1	35
	HT9	2DF3-030E-TFD	380-460/3/50	8.1	52	1	1.1	11.2	15
BESA040L6- *	HT7	2DL3-040E-TFC	200-220/3/50	26.3	161	1	2.1	35.0	60
	HT9	2DL3-040E-TFD	380-460/3/50	10.2	60	1	1.1	13.9	20
BESA060L6- *	HT7	2DB3-060E-TFC	200-220/3/50	28.2	161	1	2.1	37.4	60
	HT9	2DB3-060E-TFD	380-460/3/50	13.3	80	1	1.1	17.7	30
BESA061L6- *	HT7	3DA3A060E-TFC	200-220/3/50	30.3	150	1	2.1	40.0	70
	HT9	3DA3A060E-TFD	380-460/3/50	13.7	77	1	1.1	18.2	30
BESA075L6- *	HT7	3DB3A075E-TFC	200-220/3/50	31.5	161	1	2.1	41.5	70
	HT9	3DB3A075E-TFD	380-460/3/50	16.1	83	1	1.1	21.2	35

* I = Indoor, H = Outdoor. Above listed RLA value is based on UL rating method and may differ from published compressor RLA data.

BESB BITZER

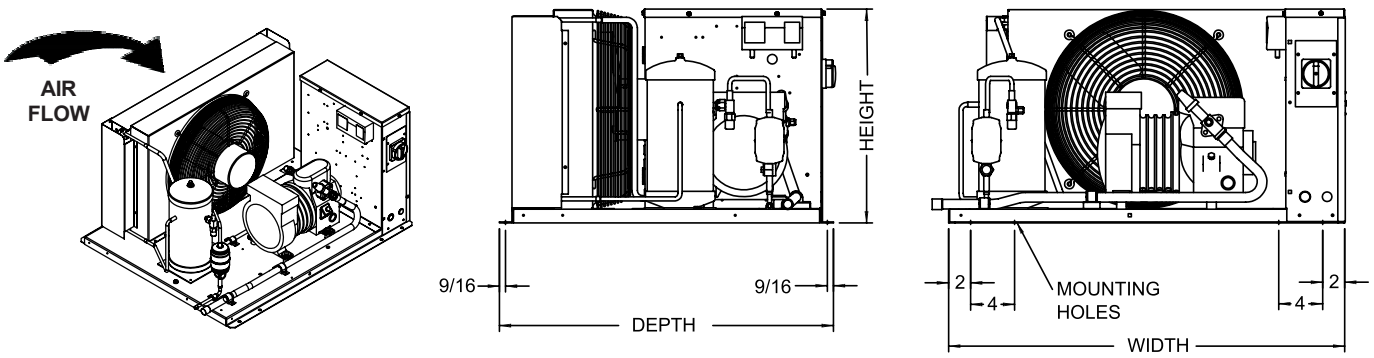
ELECTRICAL DATA
BITZER MODELS

50Hz

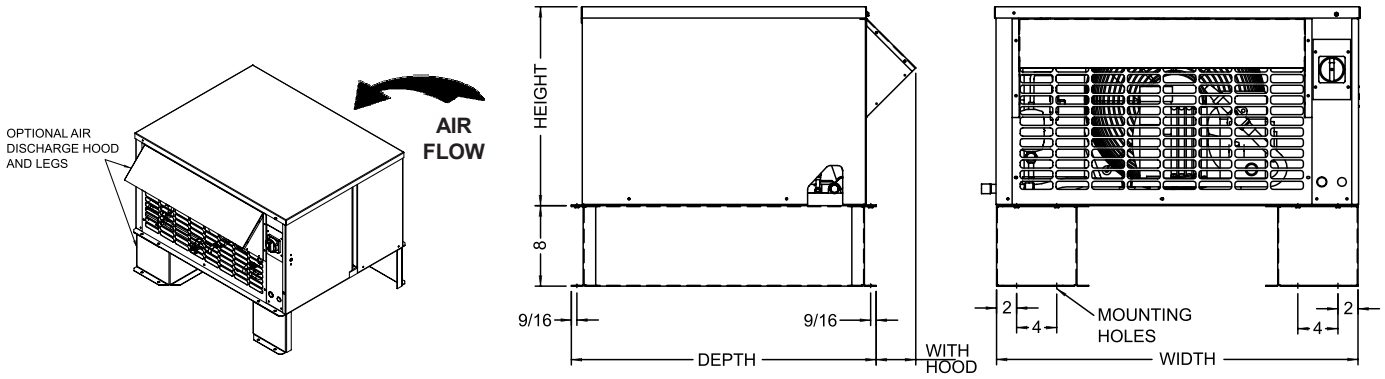
CONDENSING UNIT MODEL		COMPRESSOR MODEL NO.	POWER SUPPLY	COMPRESSOR		CONDENSER FAN MOTOR		MCA	MOP
				RLA	LRA	QTY	FLA		
BESB029H2-*	HT7	2FC-3.2	200-220/3/50	10.1	44.2	1	2.1	14.7	20
	HT9		380-400/3/50	5.8	25.5	1	1.1	8.4	15
BESB030H2-*	HT7	2EC-3.2	200-220/3/50	12.0	60.6	1	2.1	17.1	25
	HT9		380-400/3/50	6.4	37.0	1	1.1	9.1	15
BESB035H2-*	HT7	2DC-3.2	200-220/3/50	13.5	64.0	1	2.1	19.0	30
	HT9		380-400/3/50	7.8	37.0	1	1.1	10.9	15
BESB040H2-*	HT7	2CC-4.2	200-220/3/50	16.4	76.6	1	2.1	22.6	35
	HT9		380-400/3/50	9.4	44.2	1	1.1	12.9	20
BESB050H2-*	HT7	4FC-5.2	200-220/3/50	18.7	107.7	1	2.1	25.5	40
	HT9		380-400/3/50	10.8	62.2	1	1.1	14.6	25
BESB060H2-*	HT7	4EC-6.2	200-220/3/50	22.9	107.7	1	2.1	30.7	50
	HT9		380-400/3/50	13.2	62.2	1	1.1	17.6	30
BESB075H2-*	HT7	4DC-7.2	200-220/3/50	27.5	142.8	1	2.1	36.5	60
	HT9		380-400/3/50	15.9	82.4	1	1.1	21.0	35
BESB029H6-*	HT7	2FC-3.2Y	200-220/3/50	10.1	44.2	1	2.1	14.7	20
	HT9		380-400/3/50	5.8	25.5	1	1.1	8.4	15
BESB030H6-*	HT7	2EC-3.2Y	200-220/3/50	12.0	60.6	1	2.1	17.1	25
	HT9		380-400/3/50	6.4	37.0	1	1.1	9.1	15
BESB035H6-*	HT7	2DC-3.2Y	200-220/3/50	13.5	64.0	1	2.1	19.0	30
	HT9		380-400/3/50	7.8	37.0	1	1.1	10.9	15
BESB040H6-*	HT7	2CC-4.2Y	200-220/3/50	16.4	76.6	1	2.1	22.6	35
	HT9		380-400/3/50	9.4	44.2	1	1.1	12.9	20
BESB050H6-*	HT7	4FC-5.2Y	200-220/3/50	18.7	107.7	1	2.1	25.5	40
	HT9		380-400/3/50	10.8	62.2	1	1.1	14.6	25
BESB060H6-*	HT7	4EC-6.2Y	200-220/3/50	22.9	107.7	1	2.1	30.7	50
	HT9		380-400/3/50	13.2	62.2	1	1.1	17.6	30
BESB075H6-*	HT7	4DC-7.2Y	200-220/3/50	27.5	142.8	1	2.1	36.5	60
	HT9		380-400/3/50	15.9	82.4	1	1.1	21.0	35
BESB030L6-*	HT7	2CC-3.2Y	200-220/3/50	14.8	64.0	1	2.1	20.6	35
	HT9		380-400/3/50	8.5	37.0	1	1.1	11.7	20
BESB031L6-*	HT7	4FC-3.2Y	200-220/3/50	15.9	76.6	1	2.1	22.0	35
	HT9		380-400/3/50	9.2	44.2	1	1.1	12.6	20
BESB039L6-*	HT7	4EC-4.2Y	200-220/3/50	18.5	92.7	1	2.1	25.2	40
	HT9		380-400/3/50	10.7	53.5	1	1.1	14.5	25
BESB050L6-*	HT7	4DC-5.2Y	200-220/3/50	27.5	142.8	1	2.1	36.5	60
	HT9		380-400/3/50	15.9	82.4	1	1.1	21.0	35
BESB060L6-*	HT7	4CC-6.2Y	200-220/3/50	27.5	107.7	1	2.1	36.5	60
	HT9		380-400/3/50	15.9	62.2	1	1.1	21.0	35

* I = Indoor, H = Outdoor. Above listed RLA value is based on UL rating method and may differ from published compressor RLA data.

DIMENSIONAL DATA (Models 005 to 021)



INDOOR DIMENSIONS



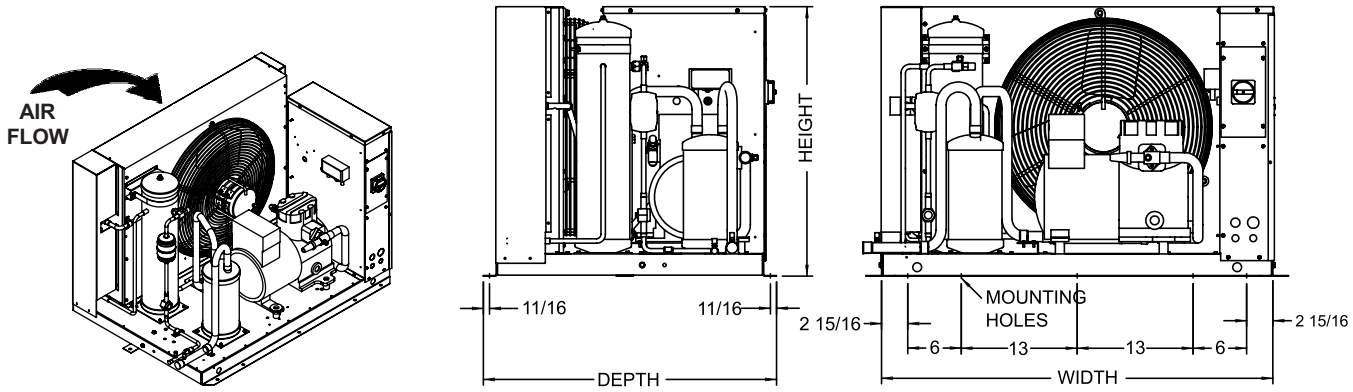
OUTDOOR DIMENSIONS

CONDENSING UNIT MODEL	WIDTH		DEPTH				HEIGHT*	
			Base		*With Hood*			
	Inches	*mm*	Inches	*mm*	Inches	*mm*	Inches	*mm*
BES A 005	24 7/8	*632*	30 3/8	*772*	34 3/8	*873*	16 7/8	*429*
BES A 008	24 7/8	*632*	30 3/8	*772*	34 3/8	*873*	16 7/8	*429*
BES A 010	24 7/8	*632*	30 3/8	*772*	34 3/8	*873*	16 7/8	*429*
BES A 015	36 3/8	*924*	30 3/8	*772*	34 3/8	*873*	19 7/8	*505*
BES A 020	36 3/8	*924*	30 3/8	*772*	34 3/8	*873*	19 7/8	*505*
BES A 021	36 3/8	*924*	30 3/8	*772*	34 3/8	*873*	19 7/8	*505*

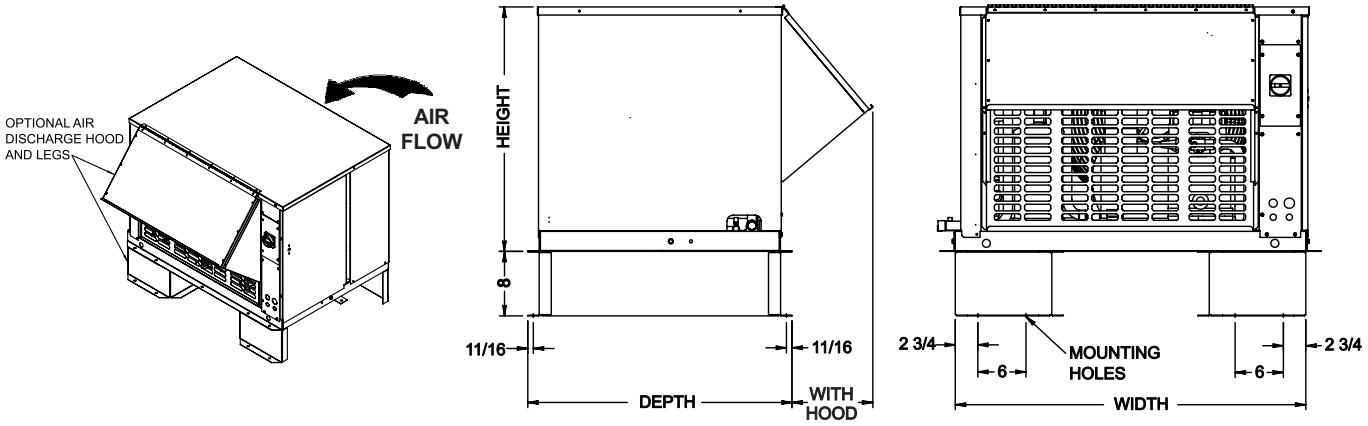
***Note: Dimensions for indoor models may be smaller by up to 3/8" (10 mm)**

NOTE: Discharge hood and legs are optional components

DIMENSIONAL DATA (Models 029 to 075)



INDOOR DIMENSIONS



OUTDOOR DIMENSIONS

CONDENSING UNIT MODEL	WIDTH		DEPTH				HEIGHT*	
			Base		*With Hood*			
	Inches	*mm*	Inches	*mm*	Inches	*mm*	Inches	*mm*
BES B 029	47 3/8	*1203*	32 7/8	*835*	43	*1092*	30 3/8	*772*
BES A/B 030	47 3/8	*1203*	32 7/8	*835*	43	*1092*	30 3/8	*772*
BES B 031	47 3/8	*1203*	32 7/8	*835*	43	*1092*	30 3/8	*772*
BES A 032	47 3/8	*1203*	32 7/8	*835*	43	*1092*	30 3/8	*772*
BES A/B 035	47 3/8	*1203*	32 7/8	*835*	43	*1092*	30 3/8	*772*
BES B 039	47 3/8	*1203*	32 7/8	*835*	43	*1092*	30 3/8	*772*
BES A/B 040	47 3/8	*1203*	32 7/8	*835*	43	*1092*	30 3/8	*772*
BES A/B 050	55 5/8	*1413*	35 7/8	*911*	50	*1270*	41 7/8	*1064*
BES A 051	55 5/8	*1413*	35 7/8	*911*	50	*1270*	41 7/8	*1064*
BES A/B 060	55 5/8	*1413*	35 7/8	*911*	50	*1270*	41 7/8	*1064*
BES A 061	55 5/8	*1413*	35 7/8	*911*	50	*1270*	41 7/8	*1064*
BES A/B 075	55 5/8	*1413*	35 7/8	*911*	50	*1270*	41 7/8	*1064*
BES A 076	55 5/8	*1413*	35 7/8	*911*	50	*1270*	41 7/8	*1064*

***Note: Dimensions for indoor models may be smaller by up to 3/8" (10 mm)**

NOTE: Discharge hood and legs are optional components

BESA
COPELAND

SPECIFICATIONS
COPELAND MODELS

CONDENSING UNIT MODEL	COMPRESSOR*	UNIT CONNECTIONS				RECEIVER CAPACITY 90% FULL		SHIPPING WEIGHT			
		SUCTION (OD)		LIQUID (OD)				OUTDOOR		INDOOR	
		Inches	*mm*	Inches	*mm*	Lbs.	*Kgs*	Lbs.	*Kgs*	Lbs.	*Kgs*
BESA005H2	HAG-0050	1/2	*13*	3/8	*10*	6	*2.7*	215	*98*	204	*93*
BESA008H2	KAN-0075	1/2	*13*	3/8	*10*	6	*2.7*	240	*109*	230	*104*
BESA010H2	KAR-0100	5/8	*16*	3/8	*10*	6	*2.7*	270	*122*	260	*118*
BESA015H2	KAG-0150	7/8	*22*	3/8	*10*	16	*7.3*	310	*141*	295	*134*
BESA020H2	KAKB-0200	7/8	*22*	1/2	*13*	16	*7.3*	320	*145*	305	*138*
BESA030H2	ERF1-0310	1 1/8	*29*	1/2	*13*	25	*11*	477	*217*	432	*195*
BESA040H2	NRB2-0400	1 1/8	*29*	1/2	*13*	25	*11*	542	*246*	497	*225*
BESA050H2	2DC3-0500	1 3/8	*35*	5/8	*16*	35	*16*	766	*348*	721	*326*
BESA051H2	2DD3-0500	1 3/8	*35*	5/8	*16*	35	*16*	769	*350*	724	*328*
BESA075H2	2DL3-0750	1 3/8	*35*	5/8	*16*	35	*16*	780	*355*	735	*333*
BESA076H2	2DA3-0750	1 3/8	*35*	5/8	*16*	35	*16*	780	*355*	735	*333*
BESA005M2	HAJ-0050	1/2	*13*	3/8	*10*	6	*2.7*	215	*98*	205	*93*
BESA008M2	KAE-0075	5/8	*16*	3/8	*10*	6	*2.7*	240	*109*	230	*104*
BESA010M2	KAM-0100	5/8	*16*	3/8	*10*	6	*2.7*	270	*122*	260	*118*
BESA021M2	ERC-0200	7/8	*22*	1/2	*13*	16	*7.3*	390	*177*	370	*168*
BESA030M2	3RA1-0310	1 1/8	*29*	1/2	*13*	25	*11*	486	*221*	441	*200*
BESA050M2	NRM1-0500	1 1/8	*29*	1/2	*13*	35	*16*	738	*335*	693	*314*
BESA050H6	2DC3-050E	1 1/8	*29*	5/8	*16*	31	*14*	766	*348*	721	*326*
BESA051H6	2DD3-050E	1 1/8	*29*	5/8	*16*	31	*14*	769	*350*	724	*328*
BESA075H6	2DL3-050E	1 3/8	*35*	5/8	*16*	31	*14*	780	*355*	735	*333*
BESA076H6	2DA3-050E	1 3/8	*35*	5/8	*16*	31	*14*	780	*355*	735	*333*
BESA005M6	HAJ-005E	1/2	*13*	3/8	*10*	5.2	*2.4*	215	*98*	205	*93*
BESA010M6	KAR-011E	5/8	*16*	3/8	*10*	5.2	*2.4*	270	*122*	260	*118*
BESA020M6	KAK-020E	7/8	*22*	1/2	*13*	14	*6.4*	320	*145*	305	*138*
BESA021M6	ERC-021E	7/8	*22*	1/2	*13*	14	*6.3*	390	*177*	370	*168*
BESA030M6	ERFA-031E	7/8	*22*	1/2	*13*	22	*10*	477	*217*	432	*195*
BESA035M6	3RAA-031E	1 1/8	*29*	5/8	*16*	22	*10*	487	*221*	442	*200*
BESA040M6	NRB2-040E	1 1/8	*29*	5/8	*16*	22	*10*	542	*246*	497	*225*
BESA005L6	KAN-005E	1/2	*13*	3/8	*10*	5.2	*2.4*	240	*109*	230	*104*
BESA008L6	KAM-007E	5/8	*16*	3/8	*10*	5.2	*2.4*	270	*122*	260	*118*
BESA010L6	KAJ-011E	7/8	*22*	3/8	*10*	5.2	*2.4*	290	*132*	275	*125*
BESA015L6	KAL-015E	7/8	*22*	3/8	*10*	14	*6.4*	315	*143*	300	*136*
BESA020L6	EAD-020E	7/8	*22*	3/8	*10*	14	*6.4*	385	*175*	370	*168*
BESA021L6	EAV-021E	7/8	*22*	1/2	*13*	14	*6.4*	390	*177*	375	*170*
BESA030L6	LAHA-032E	1 1/8	*29*	1/2	*13*	22	*10*	493	*224*	448	*203*
BESA031L6	NRD1-032E	1 1/8	*29*	1/2	*13*	22	*10*	562	*255*	517	*234*
BESA035L6	2DF3-030E	1 1/8	*29*	1/2	*13*	22	*10*	588	*267*	543	*246*
BESA040L6	2DL3-040E	1 1/8	*29*	1/2	*13*	22	*10*	618	*281*	573	*259*
BESA060L6	2DB3-060E	1 3/8	*35*	5/8	*16*	31	*14*	781	*355*	736	*333*
BESA061L6	3DA3A060E	1 3/8	*35*	5/8	*16*	31	*14*	819	*372*	774	*350*
BESA075L6	3DB3A075E	1 3/8	*35*	5/8	*16*	31	*14*	827	*376*	782	*354*

BESB
BITZER

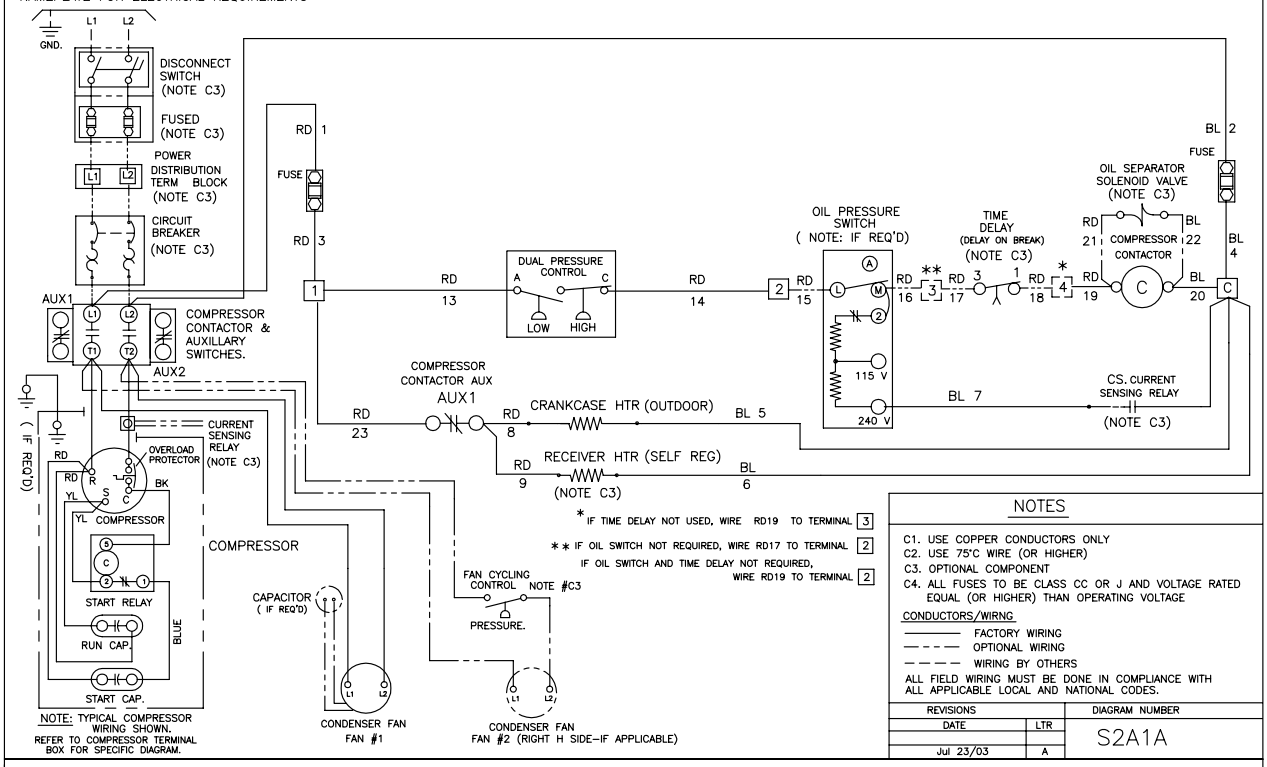
SPECIFICATIONS
BITZER MODELS

CONDENSING UNIT MODEL	COMPRESSOR*	UNIT CONNECTIONS				RECEIVER CAPACITY 90% FULL		SHIPPING WEIGHT			
		SUCTION (OD)		LIQUID (OD)				OUTDOOR		INDOOR	
		Inches	*mm*	Inches	*mm*	Lbs.	*Kgs*	Lbs.	*Kgs*	Lbs.	*Kgs*
BESB029H2	2FC-3.2	1 1/8	*29*	1/2	*13*	25	*11*	386	*175*	361	*163*
BESB030H2	2EC-3.2	1 1/8	*29*	1/2	*13*	25	*11*	437	*199*	392	*177*
BESB035H2	2DC-3.2	1 1/8	*29*	1/2	*13*	25	*11*	449	*204*	404	*183*
BESB040H2	2CC-4.2	1 1/8	*29*	1/2	*13*	25	*11*	452	*205*	407	*184*
BESB050H2	4FC-5.2	1 3/8	*35*	5/8	*16*	35	*16*	648	*295*	603	*273*
BESB060H2	4EC-6.2	1 3/8	*35*	5/8	*16*	35	*16*	652	*296*	607	*275*
BESB075H2	4DC-7.2	1 3/8	*35*	5/8	*16*	35	*16*	655	*298*	610	*276*
BESB029H6	2FC-3.2Y	1 1/8	*29*	5/8	*16*	22	*10*	386	*175*	361	*163*
BESB030H6	2EC-3.2Y	1 1/8	*29*	5/8	*16*	22	*10*	437	*199*	392	*177*
BESB035H6	2DC-3.2Y	1 1/8	*29*	5/8	*16*	22	*10*	449	*204*	404	*183*
BESB040H6	2CC-4.2Y	1 1/8	*29*	5/8	*16*	22	*10*	452	*205*	407	*184*
BESB050H6	4FC-5.2Y	1 1/8	*29*	5/8	*16*	31	*14*	648	*295*	603	*273*
BESB060H6	4EC-6.2Y	1 3/8	*35*	5/8	*16*	31	*14*	652	*296*	607	*275*
BESB075H6	4DC-7.2Y	1 3/8	*35*	5/8	*16*	31	*14*	655	*298*	610	*276*
BESB030L6	2CC-3.2Y	1 1/8	*29*	1/2	*13*	22	*10*	436	*198*	391	*177*
BESB031L6	4FC-3.2Y	1 1/8	*29*	1/2	*13*	22	*10*	463	*210*	418	*189*
BESB039L6	4EC-4.2Y	1 1/8	*29*	1/2	*13*	22	*10*	479	*218*	434	*196*
BESB050L6	4DC-5.2Y	1 3/8	*35*	5/8	*16*	31	*14*	647	*294*	602	*272*
BESB060L6	4CC-6.2Y	1 3/8	*35*	5/8	*16*	31	*14*	658	*299*	613	*277*

TYPICAL SYSTEM WIRING DIAGRAM
200-220/1/50

CONDENSING UNIT WIRING DIAGRAM

- 208/230V–1–60 or 200/220V–1–50 Hz
- INHERENT LINE BREAK MOTOR PROTECTION
- STANDARD CONTROL CIRCUIT



NOTES

C1. USE COPPER CONDUCTORS ONLY
C2. USE 75°C WIRE (OR HIGHER)
C3. OPTIONAL COMPONENT
C4. ALL FUSES TO BE CLASS CC OR J AND VOLTAGE RATED EQUAL (OR HIGHER) THAN OPERATING VOLTAGE

CONDUCTORS/WIRNG

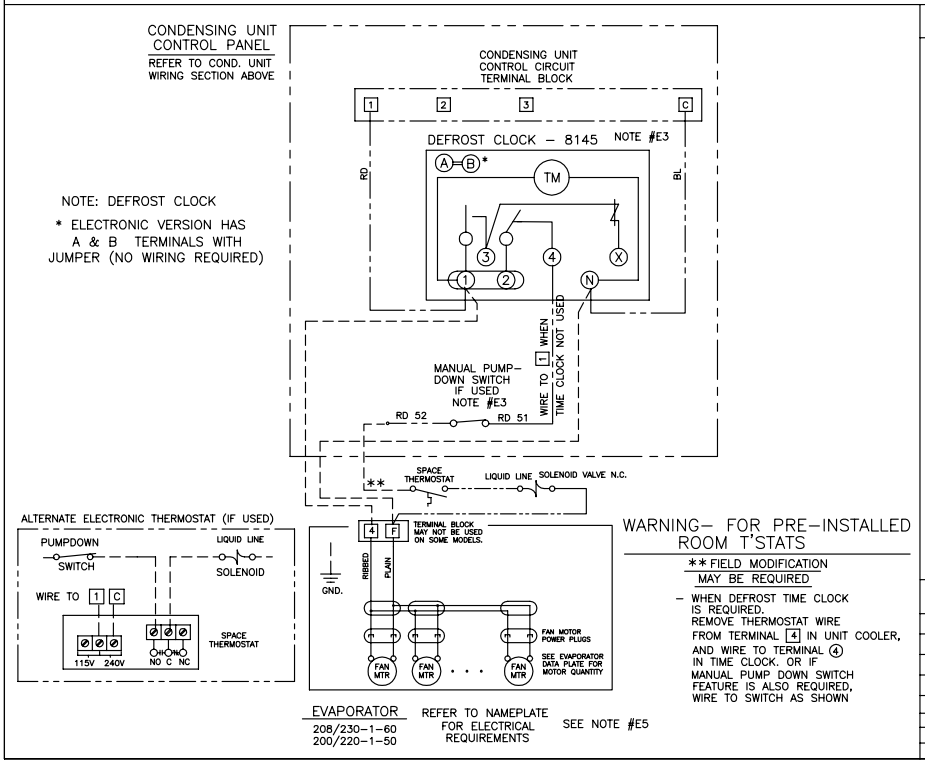
———— FACTORY WIRING
– – – – OPTIONAL WIRING
– – – – WIRING BY OTHERS

ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

REVISIONS		DIAGRAM NUMBER
DATE	LTR	
		S2A1A
Jul 23/03	A	

TYPICAL EVAPORATOR WIRING: FOR SINGLE AIR DEFROST EVAPORATOR– SINGLE POINT

FOR USE WITH: 208/230–1–60, 200/220–1–50 OR 208/230–3–60, 200/220–3–50 CONDENSING UNITS WITH OR WITHOUT DEFROST TIME CLOCK AND FOR TOTAL EVAP FAN AMPS NOT EXCEEDING 12A



EVAPORATOR 208/230–1–60 200/220–1–50 — REFER TO NAMEPLATE FOR ELECTRICAL REQUIREMENTS — SEE NOTE #E5

WARNING– FOR PRE–INSTALLED ROOM T'STATS

** FIELD MODIFICATION MAY BE REQUIRED

– WHEN DEFROST TIME CLOCK IS REQUIRED, REMOVE THERMOSTAT WIRE FROM TERMINAL 4 IN UNIT COOLER, AND WIRE TO TERMINAL 4 IN TIME CLOCK. OR IF MANUAL PUMP DOWN SWITCH FEATURE IS ALSO REQUIRED, WIRE TO SWITCH AS SHOWN

NOTES

E1. USE COPPER CONDUCTORS ONLY
E2. USE 75°C WIRE (OR HIGHER)
E3. OPTIONAL COMPONENT. MAY BE FACTORY INSTALLED IN COND. UNIT, EVAPORATOR, OR SUPPLIED BY OTHERS.
E5. OVERCURRENT PROTECTION FOR EVAPORATOR MUST NOT EXCEED MAXIMUM VALUE SHOWN ON EVAPORATOR NAMEPLATE.
E6. ALL FUSES TO BE CLASS CC OR J AND VOLTAGE RATED EQUAL (OR HIGHER) THAN OPERATING VOLTAGE

TERMINALS

○ –COMPONENT TERMINAL – MARKED
⬡ –COMPONENT TERMINAL – UNMARKED (IDENTIFIABLE BY LOCATION)
○ –COMPONENT TERMINAL – UNMARKED (UNIDENTIFIABLE)
□ –TERMINAL BLOCK TERMINAL
∘ –WIRE SPLICE

CONDUCTORS/WIRING

———— FACTORY WIRING
– – – – – – – – WIRING BY OTHERS
—— – – —— OPTIONAL COMPONENT WIRING (SOME OPTIONAL COMPONENTS MAY BE FACTORY WIRED.)

ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

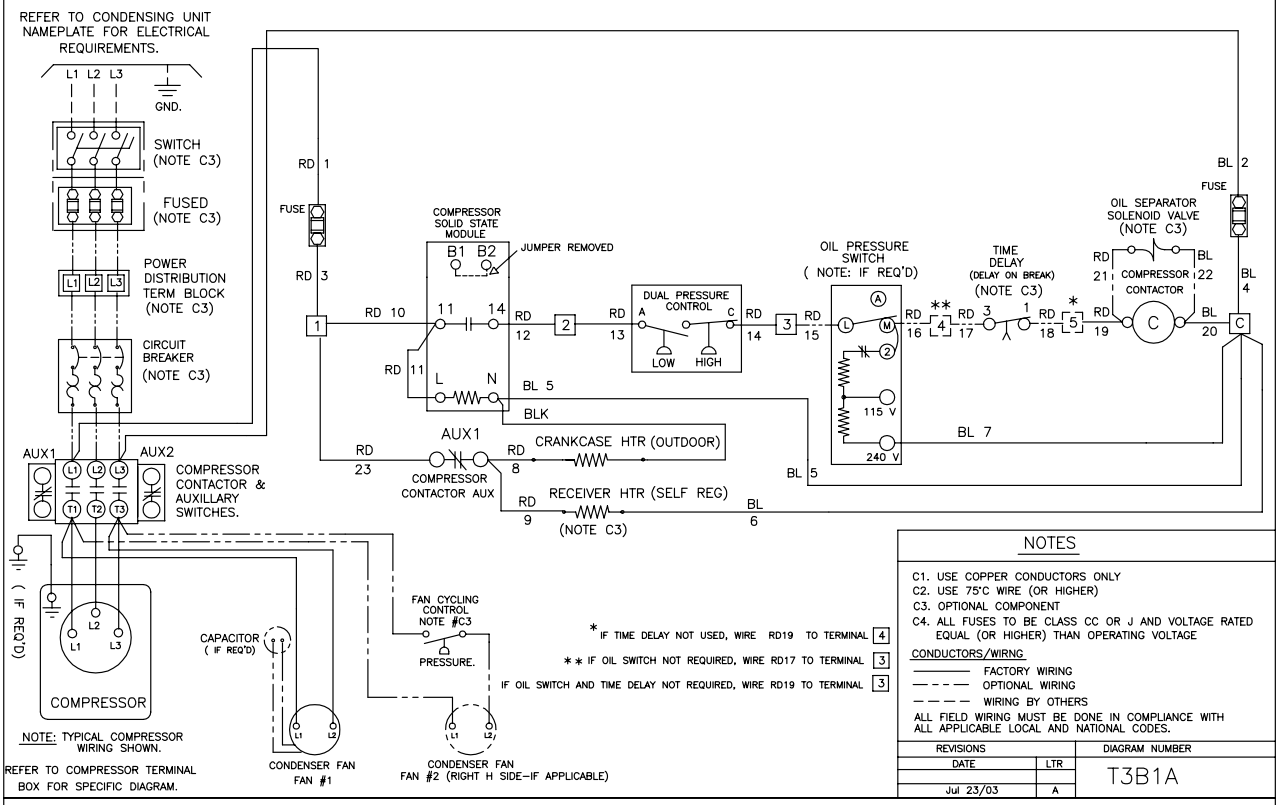
CUSTOMER	
COND UNIT MODEL #	–
EVAPORATOR MODEL #	–
CUSTOMER ORDER #	–
PRODUCTION #	–

REVISIONS		DIAGRAM NUMBER
DATE	LTR	
–	–	KA101
MAR26/03	A	

TYPICAL SYSTEM WIRING DIAGRAM
200-220/3/50

CONDENSING UNIT WIRING DIAGRAM

- 208/230V–3–60 or 200/220V–3–50 Hz
- SOLID STATE MODULE MOTOR PROTECTION (BITZER OCTAGON)
- STANDARD CONTROL CIRCUIT



NOTES

C1. USE COPPER CONDUCTORS ONLY
C2. USE 75°C WIRE (OR HIGHER)
C3. OPTIONAL COMPONENT
C4. ALL FUSES TO BE CLASS CC OR J AND VOLTAGE RATED EQUAL (OR HIGHER) THAN OPERATING VOLTAGE

CONDUCTORS/WIRNG.

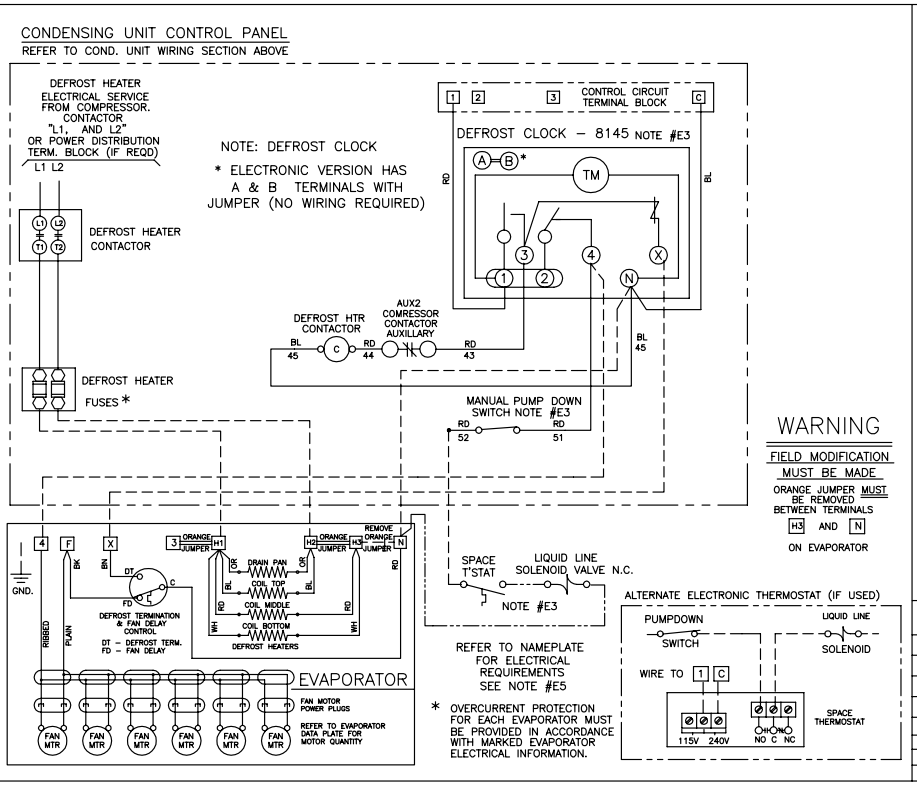
——— FACTORY WIRING
— — — — OPTIONAL WIRING
— — — — WIRING BY OTHERS

ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

REVISIONS		DIAGRAM NUMBER
DATE	LTR	
		T3B1A
Jul 23/03	A	

TYPICAL EVAPORATOR WIRING: FOR SINGLE LOW PROFILE ELECT DEFROST EVAPORATOR– SINGLE POINT

FOR USE WITH: 230v SINGLE OR THREE PHASE CONDENSING UNITS WITH DEFROST TIME CLOCK, AND DEFR. HTR. CONTACTOR.



NOTES

E1. USE COPPER CONDUCTORS ONLY
E2. USE 75°C WIRE (OR HIGHER)
E3. OPTIONAL COMPONENT. MAY BE FACTORY INSTALLED IN COND. UNIT, EVAPORATOR, OR SUPPLIED BY OTHERS.
E4. HEATER LOADS ARE NOT CONCURRENT WITH REFRIGERATION LOAD
E5. OVERCURRENT PROTECTION FOR EVAPORATOR MUST NOT EXCEED MAXIMUM VALUE SHOWN ON EVAPORATOR NAMEPLATE.
E6. ALL FUSES TO BE CLASS CC OR J AND VOLTAGE RATED EQUAL (OR HIGHER) THAN OPERATING VOLTAGE

TERMINALS

○ –COMPONENT TERMINAL – MARKED
⬡ –COMPONENT TERMINAL – UNMARKED (IDENTIFIABLE BY LOCATION)
○ –COMPONENT TERMINAL – UNMARKED (UNIDENTIFIABLE)
□ –TERMINAL BLOCK TERMINAL
∘ –WIRE SPLICE

CONDUCTORS/WIRING

——— FACTORY WIRING
— — — — WIRING BY OTHERS
——— — — ——— OPTIONAL COMPONENT WIRING (SOME OPTIONAL COMPONENTS MAY BE FACTORY WIRED.)

ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

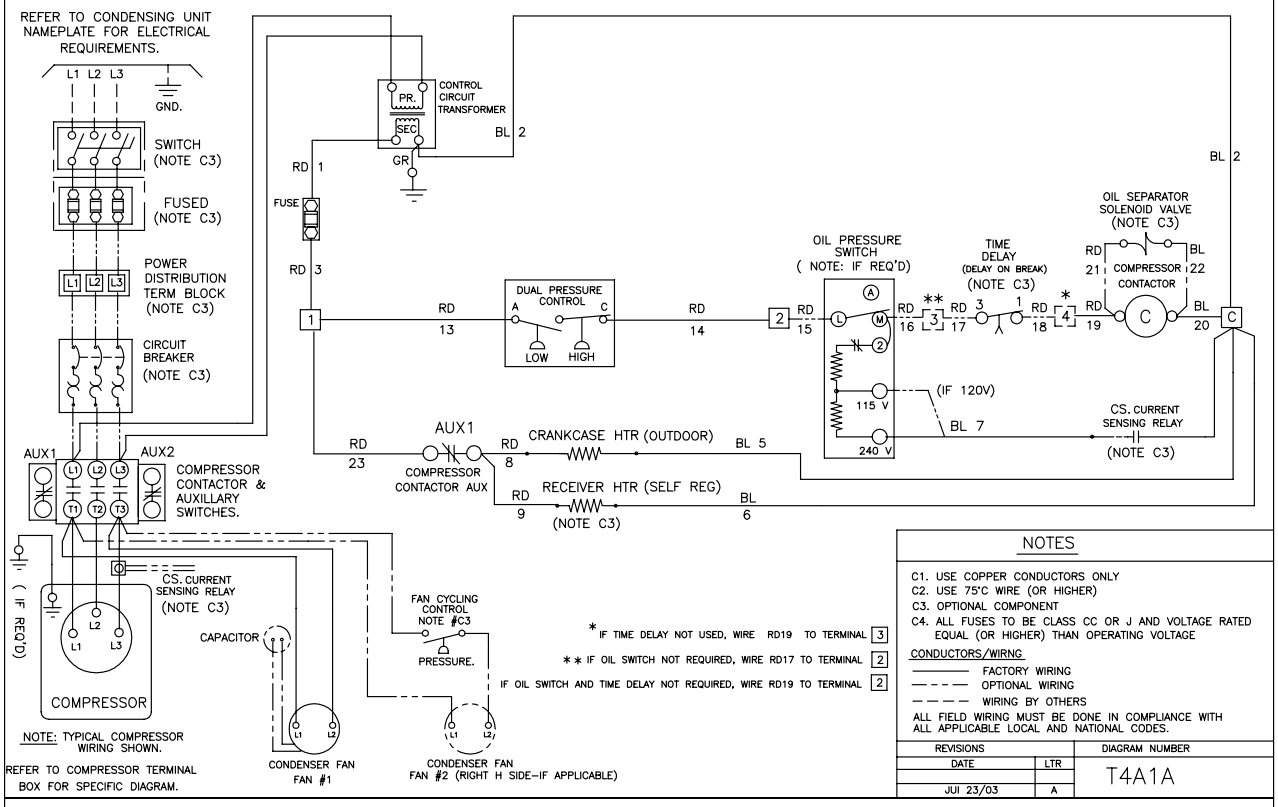
CUSTOMER	
COND UNIT MODEL #	–
EVAPORATOR MODEL #	–
CUSTOMER ORDER #	–
PRODUCTION #	–

REVISIONS		DIAGRAM NUMBER
DATE	LTR	
–	–	KE101
MAR 31/03	A	

TYPICAL SYSTEM WIRING DIAGRAM
380-400/3/50

CONDENSING UNIT WIRING DIAGRAM

- 460V–3–60 , 575V–3–60 or 380/400V–3–50 Hz
- INHERENT LINE BREAK MOTOR PROTECTION
- STANDARD CONTROL CIRCUIT



NOTES

C1. USE COPPER CONDUCTORS ONLY
C2. USE 75°C WIRE (OR HIGHER)
C3. OPTIONAL COMPONENT
C4. ALL FUSES TO BE CLASS CC OR J AND VOLTAGE RATED EQUAL (OR HIGHER) THAN OPERATING VOLTAGE

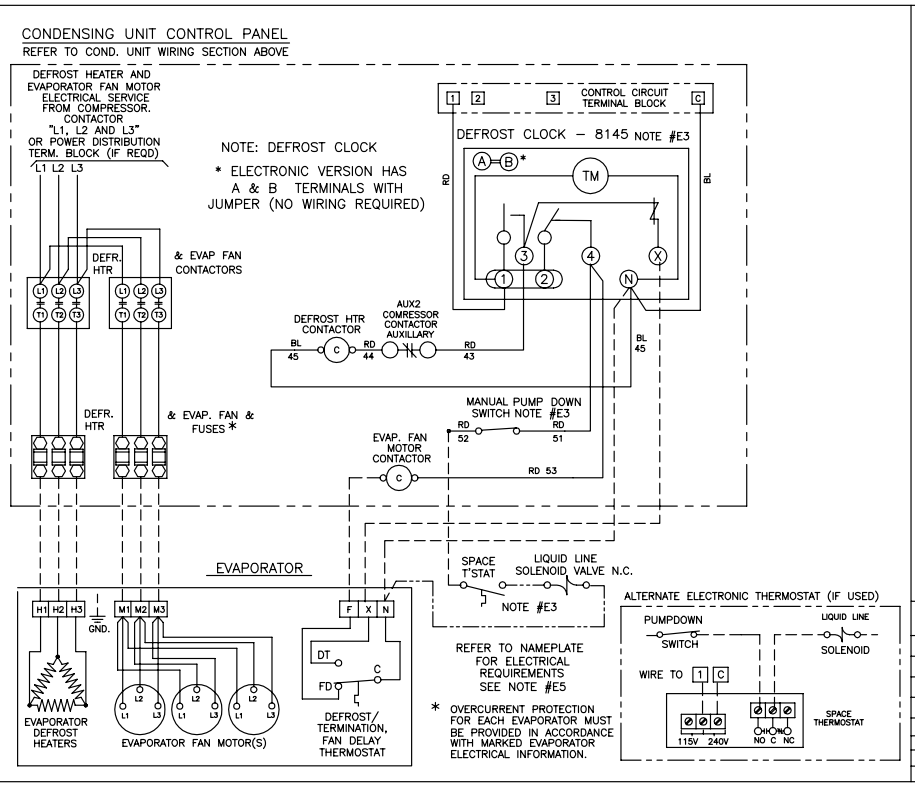
CONDUCTORS/WIRING
- FACTORY WIRING
- OPTIONAL WIRING
- WIRING BY OTHERS

ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

REVISIONS		DIAGRAM NUMBER
DATE	LTR	
JUI 23/03	A	T4A1A

TYPICAL EVAPORATOR WIRING: FOR SINGLE MED PROFILE ELECT DEFROST EVAPORATOR– SINGLE POINT

FOR USE WITH: THREE PHASE CONDENSING UNITS WITH DEFROST TIME CLOCK, & EVAP FAN AND DEFR. HTR. CONTACTORS.



NOTES

E1. USE COPPER CONDUCTORS ONLY
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E3. OPTIONAL COMPONENT. MAY BE FACTORY INSTALLED IN COND. UNIT, EVAPORATOR, OR SUPPLIED BY OTHERS.
E4. HEATER LOADS ARE NOT CONCURRENT WITH REFRIGERATION LOAD
E5. OVERCURRENT PROTECTION FOR EVAPORATOR MUST NOT EXCEED MAXIMUM VALUE SHOWN ON EVAPORATOR NAMEPLATE.
E6. ALL FUSES TO BE CLASS CC OR J AND VOLTAGE RATED EQUAL (OR HIGHER) THAN OPERATING VOLTAGE

TERMINALS
- ○ –COMPONENT TERMINAL – MARKED
- ⬡ –COMPONENT TERMINAL – UNMARKED (IDENTIFIABLE BY LOCATION)
- ○ –COMPONENT TERMINAL – UNMARKED (UNIDENTIFIABLE)
- □ –TERMINAL BLOCK TERMINAL
- ◦ –WIRE SPLICE

CONDUCTORS/WIRING
- FACTORY WIRING
- WIRING BY OTHERS
- OPTIONAL COMPONENT WIRING (SOME OPTIONAL COMPONENTS MAY BE FACTORY WIRED.)

ALL FIELD WIRING MUST BE DONE IN COMPLIANCE WITH ALL APPLICABLE LOCAL AND NATIONAL CODES.

CUSTOMER	
COND UNIT MODEL #	–
EVAPORATOR MODEL #	–
CUSTOMER ORDER #	–
PRODUCTION #	–

REVISIONS		DIAGRAM NUMBER
DATE	LTR	
–	–	JE101
MAR26/03	A	

NOTES

System	
Model Number	Date of Start-Up
Serial Number	Service Contractor
Refrigerant	Phone
Electrical Supply	Fax

General Sales, Parts & Service Manufacturing & Engineering
135 Little Nine Drive, Morehead City, NC 28557
252-240-2829 • 1-800-24-BALLY • FAX: 252-240-0384
e-mail: ballysales@ballyrefboxes.com • www.ballyrefboxes.com

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07/24/2007