



# BES-Line Condensing Units

## PRODUCT DATA & SPECIFICATIONS

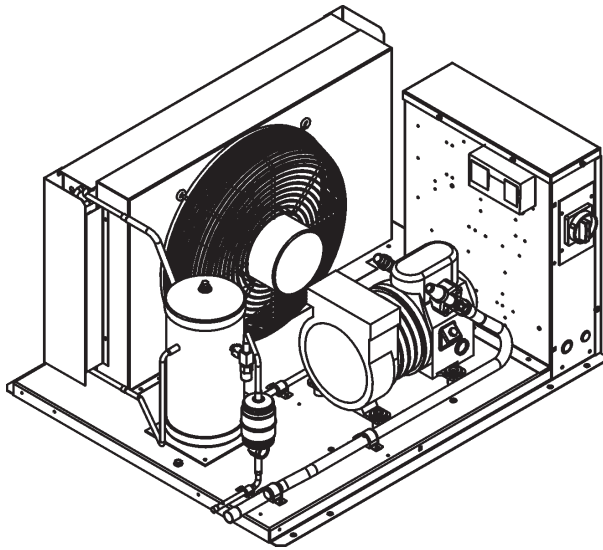
Bulletin B40-BES-PDS-50-2

1087392-50

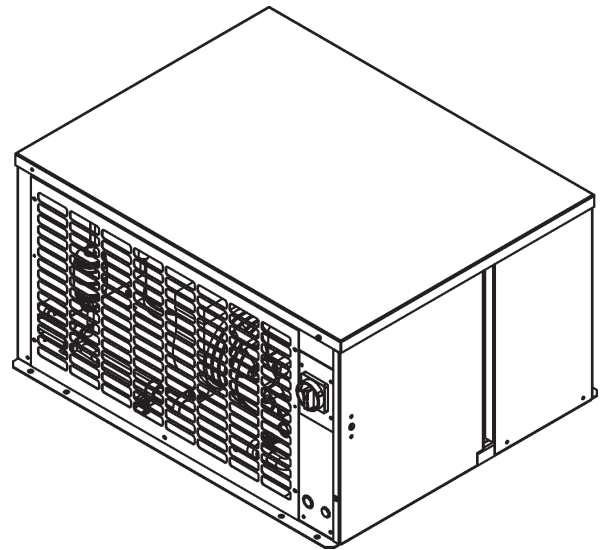


Indoor/Outdoor  
Air-Cooled Semi-Hermetic  
Condensing Units

1/2 to 12 HP -  
High, Medium and Low  
Temperature Refrigeration



Indoor Unit

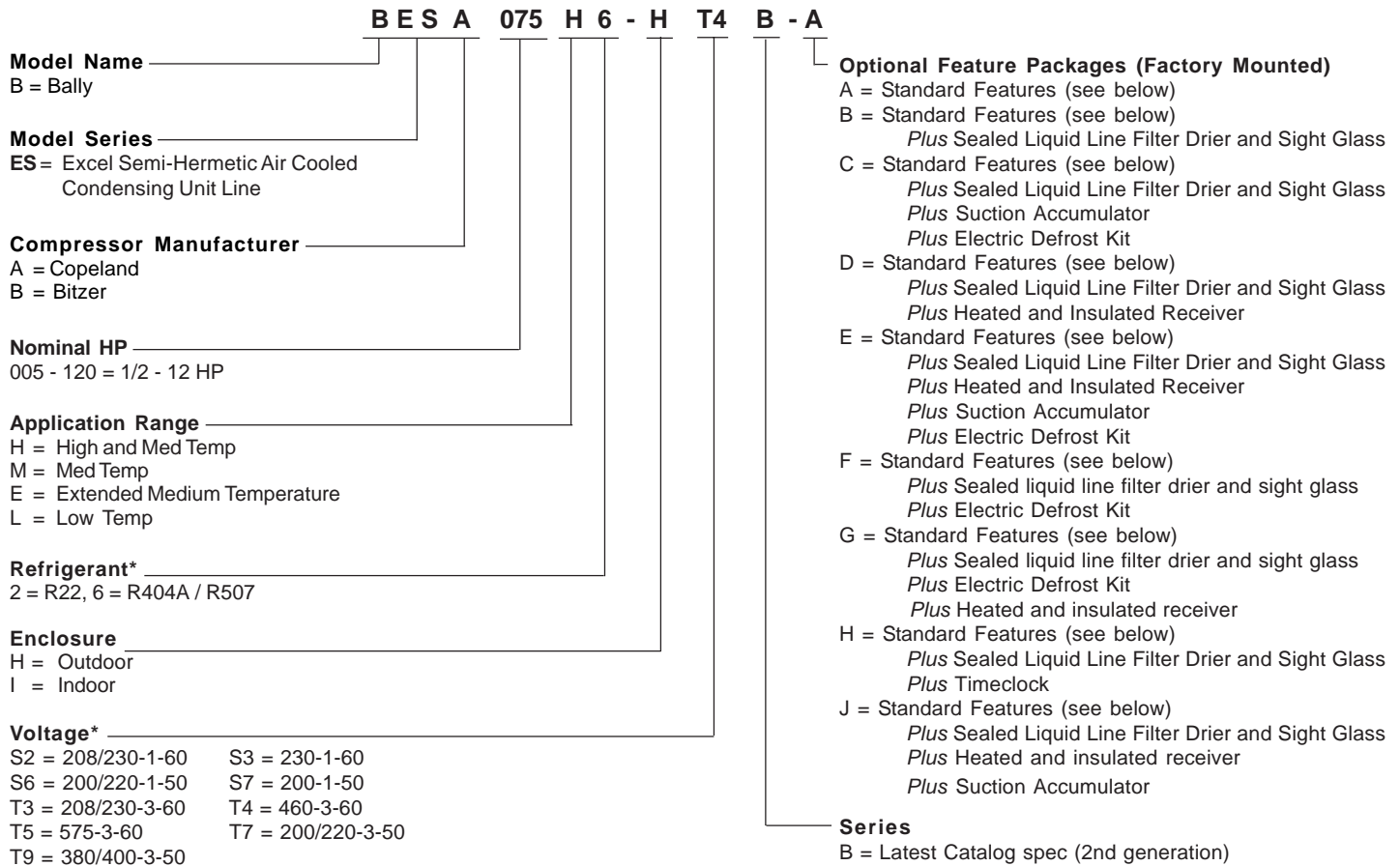


Outdoor Unit

## CONTENTS

	<b>Page</b>
Nomenclature.....	2
Features.....	2 - 3
Capacity Data (Imperial and <i>Metric</i> ).....	4 -16
Electrical Data.....	17 - 21
Dimensional Data.....	22 - 24
Specifications.....	25 - 26
Wiring Diagrams.....	27 - 30
Generic Service Parts List.....	31 - 32
Warranty.....	35
Project Information.....	35
"As Built" Service Parts List.....	BACK

# NOMENCLATURE



\* subject to compressor availability

---

## STANDARD FEATURES

### Indoor Unit:

- Weatherproof electrical control box with compressor contactor and fused control circuit
- Spring mounted accessible semi-hermetic compressor with suction and discharge vibration eliminator
- High efficiency enhanced tube and fin condenser design
- Energy efficient PSC condenser fan motor
- Receiver with fusible plug and liquid shut off valve
- Fixed high and low pressure control
- Sentronic oil failure switch (where applicable)
- Receiver inlet and outlet shutoff valve (8HP and above)

- 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
- Fan cycling control (2 fan models)

## 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

### Package H:

- Standard Features (see pg. 2)
- *Plus* Sealed Liquid Line Filter Drier and Sight Glass
- *Plus* Timeclock

### Package J:

- Standard Features (see pg. 2)
- *Plus* Sealed Liquid Line Filter Drier and Sight Glass
- *Plus* Heated and insulated receiver
- *Plus* Suction Accumulator

## OPTIONAL FEATURES (Factory Mounted)

- 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 - 10 HP models
- Adjustable low pressure control
- 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
- Hoffmann Speed control for condenser fan (replaces flooded valve)
- Time delay relay for compressor
- Mechanical Time Clock
- Electronic Defrost Kit
- Electronic Voltage/Phase Monitor

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE °C	AMBIENT TEMPERATURE °C					
		29.4	32.2	35.0	37.8	40.6	43.3
ESA005H2 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	
ESA008H2 Compressor Model KAN2-0075	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	
ESA010H2 Compressor Model KAR2-0100	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	
ESA015H2 Compressor Model KAGB-0150	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	
ESA020H2 Compressor Model KAKB-0200	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	
ESA030H2 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
ESA040H2 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

--- Outside Operating Range

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE °C	AMBIENT TEMPERATURE °C					
		29.4	32.2	35.0	37.8	40.6	43.3
ESA050H2 Compressor Model 2DC3R53K0	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	
ESA051H2 Compressor Model 2DD3R63K0	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	
ESA075H2 Compressor Model 2DL3R78K0	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	
ESA076H2 Compressor Model 2DA3R89K0	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	
ESA080H2 Compressor Model 3DA3R10M0	7.2	33030	32005	31008	30012	29045	28107
	4.4	30305	29367	28458	27521	26641	25762
	1.7	27726	26876	25996	25176	24326	23505
	-1.1	25293	24502	23710	22948	22186	21424
	-3.9	23007	22274	21542	20838	20135	19431
	-6.7	20809	20164	19490	18845	18200	17526
	-9.4	18787	18171	17556	16970	16354	15768
	-12.2	16852	16325	15739	15211	14654	14127
-15.0	15094	14566	14068	13540	13042	12544	
ESA100H2 Compressor Model 3DB3R12M0	7.2	37866	36723	35580	34437	33294	32122
	4.4	34848	33792	32737	31682	30627	29543
	1.7	31975	31008	30041	29074	28077	27081
	-1.1	29279	28370	27491	26583	25674	24766
	-3.9	26700	25879	25059	24238	23417	22567
	-6.7	24267	23505	22773	22011	21249	20516
	-9.4	22011	21307	20633	19930	19226	18523
	-12.2	19842	19226	18611	17966	17351	16706
-15.0	17849	17263	16706	16120	15533	14947	

--- Outside Operating Range

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE °C	AMBIENT TEMPERATURE °C					
		29.4	32.2	35.0	37.8	40.6	43.3
ESA005M2 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
ESA008M2 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
ESA010M2 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
ESA021M2 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
ESA030M2 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
ESA050M2 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

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE °C	AMBIENT TEMPERATURE °C					
		29.4	32.2	35.0	37.8	40.6	43.3
ESA050H6 Compressor Model 2DC3R53KE	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
ESA051H6 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
ESA075H6 Compressor Model 2DL3R78KE	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
ESA076H6 Compressor Model 2DA3R89KE	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
ESA080H6 Compressor Model 3DA3R10ME	4.4	30158	28781	27433	26114	24824	23505
	1.7	27814	26524	25322	24121	22919	21747
	-1.1	25528	24385	23271	22186	21131	20047
	-3.9	23329	22333	21307	20340	19373	18406
	-6.7	21249	20340	19461	18581	17702	16852
	-9.4	19285	18464	17673	16882	16149	15358
	-12.2	17409	16706	16002	15328	14625	13951
	-15.0	15680	15035	14420	13804	13218	12603
	-17.8	14039	13482	12925	12397	11870	11342
	-20.6	12544	12046	11547	11108	10639	10141
ESA100H6 Compressor Model 3DB3R12ME	4.4	34203	32649	31125	29572	28019	26495
	1.7	31653	30217	28810	27403	25996	24560
	-1.1	29162	27872	26612	25322	24033	22743
	-3.9	26817	25645	24502	23329	22157	20985
	-6.7	24560	23505	22450	21395	20340	19285
	-9.4	22392	21454	20516	19578	18640	17673
	-12.2	20369	19519	18699	17849	16970	16120
	-15.0	18435	17702	16911	16178	15387	14625
	-17.8	16618	15944	15270	14566	13892	13218
	-20.6	14889	14302	13687	13042	12427	11811

--- Outside Operating Range

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE °C	AMBIENT TEMPERATURE °C					
		29.4	32.2	35.0	37.8	40.6	43.3
ESA005M6 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
ESA010M6 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
ESA020M6 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
ESA021M6 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
ESA030M6 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
ESA035M6 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
ESA040M6 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



CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE °C	AMBIENT TEMPERATURE °C					
		29.4	32.2	35.0	37.8	40.6	43.3
ESA005L6 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
	-40.0	330	297	266	238	204	175
ESA008L6 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
	-40.0	640	601	560	521	474	429
ESA010L6 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
	-40.0	843	787	730	676	621	565
ESA015L6 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
	-40.0	1289	1205	1119	1037	951	867
ESA020L6 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
	-40.0	1426	1316	1210	1109	1014	934
ESA021L6 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
	-40.0	1648	1537	1421	1297	1166	1029
		1421	1313	1192	1063	926	787

--- Outside Operating Range

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE °C	AMBIENT TEMPERATURE °C					
		29.4	32.2	35.0	37.8	40.6	43.3
ESA030L6 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
	-40.0	2422	2244	2069	1888	1703	1510
ESA031L6 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
	-40.0	3032	2842	2659	2484	2321	2174
ESA035L6 Compressor Model 2DF3F16KE	-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
	-40.0	3517	3313	3110	2901	2685	2463
ESA040L6 Compressor Model 2DL3F20KE	-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
	-40.0	4342	4104	3868	3631	3391	3151
ESA060L6 Compressor Model 2DB3F25KE	-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
	-40.0	5390	5101	4821	4550	4285	4025
		4594	4326	4066	3818	3576	3340

--- Outside Operating Range

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE °C	AMBIENT TEMPERATURE °C					
		29.4	32.2	35.0	37.8	40.6	43.3
ESA061L6 Compressor Model 3DA3F28KE	-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
ESA075L6 Compressor Model 3DB3F33KE	-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
ESA090L6 Compressor Model 3DF3F40KE	-17.8	19695	18875	18083	17292	16501	15709
	-20.6	17732	17028	16295	15563	14859	14127
	-23.3	15856	15211	14566	13951	13306	12661
	-26.1	14127	13540	13013	12427	11870	11284
	-28.9	12544	12016	11518	10991	10492	9965
	-31.7	11049	10551	10111	9672	9232	8734
	-34.4	9642	9232	8851	8411	8030	7591
	-37.2	8382	8030	7649	7268	6887	6506
	-40.0	7239	6887	6565	6213	5862	5510
ESA100L6 Compressor Model 3DS3F46KE	-17.8	21454	20545	19637	18728	17849	16940
	-20.6	19431	18640	17819	16999	16178	15358
	-23.3	17526	16794	16061	15328	14566	13863
	-26.1	15709	15035	14390	13716	13042	12397
	-28.9	14009	13394	12808	12222	11606	11020
	-31.7	12368	11870	11313	10756	10229	9701
	-34.4	10873	10404	9906	9408	8910	8411
	-37.2	9496	9056	8617	8177	7708	7239
	-40.0	8236	7825	7386	6975	6565	6096

--- Outside Operating Range

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE °C	AMBIENT TEMPERATURE °C					
		29.4	32.2	35.0	37.8	40.6	43.3
ESB029H2 Compressor Model 2C0407SH-***	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
ESB030H2 Compressor Model 2C0484SH-***	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
ESB035H2 Compressor Model 2C0572SH-***	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
ESB040H2 Compressor Model 2C0692SH-***	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
ESB050H2 Compressor Model 4C0770SH-***	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
ESB060H2 Compressor Model 4C0969SH-***	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

--- Outside Operating Range



## R22 - HIGH / MEDIUM TEMPERATURE CAPACITY WATTS (cont'd)

# 50Hz

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE °C	AMBIENT TEMPERATURE °C					
		29.4	32.2	35.0	37.8	40.6	43.3
<b>ESB075H2</b> Compressor Model 4C1145SH-***	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	
<b>ESB090H2</b> Compressor Model 4C1385SH-***	7.2	31829	30803	29748	28693	27638	26583
	4.4	29191	28224	27227	26260	25264	24297
	1.7	26671	25762	24853	23945	23036	22128
	-1.1	24267	23447	22597	21747	20897	20047
	-3.9	22011	21249	20487	19695	18904	18113
	-6.7	19900	19197	18464	17732	17028	16295
	-9.4	17907	17233	16589	15914	15240	14566
	-12.2	16032	15445	14830	14215	13570	12954
-15.0	14332	13746	13189	12603	12046	11460	
<b>ESB100H2</b> Compressor Model 4C1480SH-***	7.2	34115	32972	31800	30657	29572	28488
	4.4	31331	30275	29220	28165	27140	26114
	1.7	28722	27726	26758	25791	24824	23886
	-1.1	26231	25322	24414	23505	22626	21776
	-3.9	23857	23007	22186	21366	20545	19754
	-6.7	21630	20838	20076	19343	18581	17849
	-9.4	19519	18816	18113	17409	16735	16090
	-12.2	17526	16882	16237	15621	15035	14420
-15.0	15680	15094	14508	13951	13365	12837	
<b>ESB120H2</b> Compressor Model 4C1761SH-***	7.2	39449	38072	36753	35434	34115	32825
	4.4	36342	35082	33822	32620	31419	30217
	1.7	33382	32210	31067	29953	28810	27726
	-1.1	30569	29484	28429	27374	26348	25352
	-3.9	27872	26876	25909	24971	24004	23095
	-6.7	25322	24414	23535	22655	21776	20955
	-9.4	22919	22098	21278	20487	19695	18904
	-12.2	20662	19871	19138	18406	17702	16999
-15.0	18523	17819	17145	16471	15826	15182	

--- Outside Operating Range

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE °C	AMBIENT TEMPERATURE °C					
		29.4	32.2	35.0	37.8	40.6	43.3
ESB029H6 Compressor Model 2C0407SH-***-Y	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	
ESB030H6 Compressor Model 2C0484SH-***-Y	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	
ESB035H6 Compressor Model 2C0572SH-***-Y	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	
ESB040H6 Compressor Model 2C0692SH-***-Y	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	
ESB050H6 Compressor Model 4C0770SH-***-Y	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

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

CONDENSING UNIT MODEL	SATURATED SUCTION TEMPERATURE °C	AMBIENT TEMPERATURE °C					
		29.4	32.2	35.0	37.8	40.6	43.3
ESB060H6 Compressor Model 4C0969SH-***-Y	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	
ESB075H6 Compressor Model 4C1145SH-***-Y	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	
ESB090H6 Compressor Model 4C1385SH-***-Y	4.4	29279	28312	27315	26348	25352	24385
	1.7	26758	25821	24941	24004	23124	22186
	-1.1	24326	23505	22685	21835	20985	20135
	-3.9	22069	21307	20516	19754	18962	18200
	-6.7	19959	19226	18523	17790	17057	16354
	-9.4	17966	17292	16618	15973	15299	14625
	-12.2	16090	15475	14859	14244	13628	13013
	-15.0	14361	13775	13218	12632	12046	11489
	-17.8	12720	12222	11665	11137	10580	10053
-20.6	11225	10727	10229	9730	9232	8734	
ESB100H6 Compressor Model 4C1480SH-***-Y	4.4	30979	29513	28077	26671	25205	23828
	1.7	28605	27227	25879	24531	23212	21923
	-1.1	26319	25029	23798	22538	21336	20106
	-3.9	24121	22948	21776	20633	19490	18376
	-6.7	22011	20926	19842	18816	17761	16735
	-9.4	20018	19021	18025	17057	16090	15182
	-12.2	18142	17204	16325	15416	14537	13687
	-15.0	16354	15504	14683	13863	13042	12280
	-17.8	14654	13863	13130	12397	11665	10961
-20.6	13042	12368	11694	11020	10375	9730	
ESB120H6 Compressor Model 4C1761SH-***-Y	4.4	35375	33646	31917	30158	28429	26700
	1.7	32796	31155	29572	27960	26348	24736
	-1.1	30305	28810	27315	25821	24326	22831
	-3.9	27872	26495	25147	23740	22392	21014
	-6.7	25528	24297	23007	21776	20516	19256
	-9.4	23329	22186	21014	19842	18699	17585
	-12.2	21190	20135	19080	18025	16999	15973
	-15.0	19168	18200	17233	16295	15358	14420
	-17.8	17204	16354	15504	14654	13804	12954
-20.6	15387	14625	13863	13072	12309	11547	

--- Outside Operating Range



# 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
ESB030L6 Compressor Model 2C0692SL-***-Y	-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
	-40.0	2626	2451	2275	2102	1932	1763
ESB031L6 Compressor Model 4C0770SL-***-Y	-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
	-40.0	2899	2721	2546	2373	2203	2038
ESB039L6 Compressor Model 4C0969SL-***-Y	-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
	-40.0	3734	3502	3274	3054	2837	2626
ESB050L6 Compressor Model 4C1145SL-***-Y	-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
	-40.0	4529	4262	3999	3741	3489	3244
ESB060L6 Compressor Model 4C1385SL-***-Y	-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
	-40.0	5493	5169	4849	4543	4243	3953
ESB080L6 Compressor Model 4C1761SL-***-Y	-17.8	17380	16530	15621	14742	13863	13042
	-20.6	15592	14771	13980	13189	12397	11635
	-23.3	13892	13159	12427	11723	10991	10287
	-26.1	12280	11635	10961	10317	9701	9056
	-28.9	10815	10199	9584	9027	8441	7884
	-31.7	9408	8880	8324	7796	7268	6770
	-34.4	8118	7620	7151	6682	6213	5744
	-40.0	6917	6477	6038	5598	5188	4777
ESB100L6 Compressor Model 4C2067SL-***-Y	-17.8	19666	18669	17702	16706	15739	14801
	-20.6	17644	16735	15856	14947	14068	13218
	-23.3	15739	14918	14097	13306	12515	11723
	-26.1	13951	13218	12456	11723	11020	10317
	-28.9	12251	11577	10903	10258	9613	8968
	-31.7	10698	10053	9467	8880	8294	7737
	-34.4	9232	8675	8118	7562	7063	6565
	-40.0	7855	7356	6858	6389	5891	5451
ESB120L6 Compressor Model 4C2397SL-***-Y	-17.8	22040	20926	19812	18699	17585	16501
	-20.6	19842	18816	17790	16794	15768	14771
	-23.3	17702	16794	15856	14977	14039	13130
	-26.1	15709	14889	14068	13218	12397	11577
	-28.9	13863	13101	12368	11606	10873	10111
	-31.7	12104	11401	10727	10053	9379	8734
	-34.4	10463	9848	9232	8617	8030	7415
	-40.0	8910	8382	7825	7268	6741	6213
		7503	7005	6506	6008	5510	5041

--- Outside Operating Range



CONDENSING UNIT MODEL	COMPRESSOR MODEL NO.	POWER SUPPLY	COMPRESSOR		CONDENSER FAN MOTOR		MCA	MOP	
			RLA	LRA	QTY	FLA			
ESA005H2-*	S6	HAG2-0050-CAV	200-220/1/50	4.0	22	1	0.5	5.5	15
	T7	HAG1-0050-TAC	200-220/3/50	2.4	13	1	0.5	3.5	15
ESA008H2-*	S6	KAN2-0075-CAV	200-220/1/50	6.1	36	1	0.5	8.1	15
	T7	KAN1-0075-TAC	200-220/3/50	3.5	19.9	1	0.5	4.9	15
ESA010H2-*	S6	KAR2-0100-CAV	200-220/1/50	7.4	40	1	0.5	9.8	15
	T7	KAR1-0100-TAC	200-220/3/50	4.3	27	1	0.5	5.9	15
ESA015H2-*	S6	KAGB-0150-CAV	200-220/1/50	9.6	55	1	1.1	13.1	20
	T7	KAGA-0150-TAC	200-220/3/50	5.5	35.5	1	1.1	8.0	15
ESA020H2-*	T9	KAGA-0150-TAD	380-460/3/50	2.5	18.2	1	0.6	3.7	15
	S6	KAKB-0200-CAV	200-220/1/50	10.6	55	1	1.1	14.4	25
ESA030H2-*	T7	KAKA-0200-TAC	200-220/3/50	6.8	50	1	1.1	9.6	15
	T9	KAKA-0200-TAD	380-460/3/50	3.0	25	1	0.6	4.4	15
ESA040H2-*	T7	ERF1-0310-TAC	200-220/3/50	11.7	82	1	2.1	15.7	25
	T9	ERF1-0310-TAD	380-460/3/50	6.4	41	1	0.9	8.9	15
ESA050H2-*	T7	NRB2-0400-TFC	200-220/3/50	21.8	141	1	2.1	28.4	50
	T9	NRB2-0400-TFD	380-460/3/50	11.3	63	1	0.9	15.0	25
ESA051H2-*	T7	2DC3R53K0-TFC	200-220/3/50	22.3	120	1	2.1	30.0	50
	T9	2DC3R53K0-TFD	380-460/3/50	10.4	60	1	1.1	14.1	20
ESA075H2-*	T7	2DD3R63K0-TFC	200-220/3/50	22.3	120	1	2.1	30.0	50
	T9	2DD3R63K0-TFD	380-460/3/50	10.5	60	1	1.1	14.2	20
ESA076H2-*	T7	2DL3R78K0-TFC	200-220/3/50	31.6	169	1	2.1	41.6	70
	T9	2DL3R78K0-TFD	380-460/3/50	13.8	85	1	1.1	18.4	30
ESA080H2-*	T7	2DA3R89K0-TFC	200-220/3/50	32.0	169	1	2.1	42.1	70
	T9	2DA3R89K0-TFD	380-460/3/50	14.1	85	1	1.1	18.7	30
ESA100H2-*	T7	3DA3R10M0-TFC	200-220/3/50	41.0	215	2	4.2	55.5	90
	T9	3DA3R10M0-TFD	380-460/3/50	20.0	106	2	2.2	27.2	45
ESA005M2-*	T7	3DB3R12M0-TFC	200-220/3/50	43.6	215	2	4.2	58.7	100
	T9	3DB3R12M0-TFD	380-460/3/50	20.0	106	2	2.2	27.2	45
ESA008M2-*	S6	HAI2-0050-CAV	200-220/1/50	3.7	22	1	0.5	5.1	15
	T7	HAI1-0050-TAC	200-220/3/50	2.2	13	1	0.5	3.3	15
ESA010M2-*	S6	KAE2-0075-CAV	200-220/1/50	5.4	36	1	0.5	7.3	15
	T7	KAE1-0075-TAC	200-220/3/50	3.4	19.9	1	0.5	4.8	15
ESA021M2-*	S6	KAM2-0100-CAV	200-220/1/50	7.5	40	1	0.5	9.9	15
	T7	KAM1-0100-TAC	200-220/3/50	4.5	27	1	0.5	6.1	15
ESA030M2-*	T7	ERC1-0200-TAC	200-220/3/50	6.8	46	1	1.1	9.6	15
	T9	ERC1-0200-TAD	380-460/3/50	3.6	23	1	0.6	5.1	15
ESA050M2-*	T7	3RA1-0310-TAC	200-220/3/50	13.1	82	1	2.1	18.5	30
	T9	3RA1-0310-TAD	380-460/3/50	6.6	41	1	1.1	9.4	15
ESA050M2-*	T7	NRM1-0500-TFC	200-220/3/50	24.3	141	1	2.1	32.5	50
	T9	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.

CONDENSING UNIT MODEL	COMPRESSOR MODEL NO.	POWER SUPPLY	COMPRESSOR		CONDENSER FAN MOTOR		MCA	MOP	
			RLA	LRA	QTY	FLA			
ESA050H6- *	T7	2DC3R53KE-TFC	200-220/3/50	26.3	161	1	2.1	35.0	60
	T9	2DC3R53KE-TFD	380-460/3/50	10.2	60	1	1.1	13.9	20
ESA051H6- *	T7	2DD3R63KE-TFC	200-220/3/50	28.2	161	1	2.1	37.4	60
	T9	2DD3R63KE-TFD	380-460/3/50	13.3	80	1	1.1	17.7	30
ESA075H6- *	T7	2DL3R78KE-TFC	200-220/3/50	30.3	150	1	2.1	40.0	70
	T9	2DL3R78KE-TFD	380-460/3/50	13.7	77	1	1.1	18.2	30
ESA076H6- *	T7	2DA3R89KE-TFC	200-220/3/50	31.5	161	1	2.1	41.5	70
	T9	2DA3R89KE-TFD	380-460/3/50	16.1	83	1	1.1	21.2	35
ESA080H6- *	T7	3DA3R10ME-TFC	200-220/3/50	41.0	215	2	4.2	55.5	90
	T9	3DA3R10ME-TFD	380-460/3/50	20.0	106	2	2.2	27.2	45
ESA100H6- *	T7	3DB3R12ME-TFC	200-220/3/50	43.6	215	2	4.2	58.7	100
	T9	3DB3R12ME-TFD	380-460/3/50	20.0	106	2	2.2	27.2	45
ESA005M6- *	S6	HAJB-005E-CAV	200-220/1/50	3.7	22	1	0.5	5.1	15
ESA010M6- *	S6	KARB-010E-CAV	200-220/1/50	7.4	40	1	0.5	9.8	15
	T7	KARA-010E-TAC	200-220/3/50	4.3	27	1	0.5	5.9	15
ESA020M6- *	S6	KAKB-021E-CAV	200-220/1/50	10.6	55	1	1.1	14.4	25
	T7	KAKA-020E-TAC	200-220/3/50	6.8	50	1	1.1	9.6	15
	T9	KAKA-022E-TAD	380-460/3/50	3.0	25	1	0.6	4.4	15
ESA021M6- *	T7	ERCA-021E-TAC	200-220/3/50	8.8	46	1	1.1	12.1	20
	T9	ERCA-020E-TAD	380-460/3/50	3.5	23	1	1.1	5.5	15
ESA030M6- *	T7	ERFA-031E-TAC	200-220/3/50	3.5	23	1	1.1	5.5	15
	T9	ERFA-031E-TAD	380-460/3/50	3.1	20	1	0.6	4.5	15
ESA035M6- *	T7	3RAA-031E-TAC	200-220/3/50	3.5	23	1	1.1	5.5	15
	T9	3RAA-031E-TAD	380-460/3/50	3.1	20	1	0.6	4.5	15
ESA040M6- *	T7	NRB2-040E-TFC	200-220/3/50	3.5	23	1	1.1	5.5	15
	T9	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.

CONDENSING UNIT MODEL	COMPRESSOR MODEL NO.	POWER SUPPLY	COMPRESSOR		CONDENSER FAN MOTOR		MCA	MOP	
			RLA	LRA	QTY	FLA			
ESA005L6-*	S6	KANB-005E-CAV	200-220/1/50	3.6	24	1	0.5	5.0	15
	T7	KANA-006E-TAC	200-220/3/50	2.2	13.2	1	0.5	3.3	15
ESA008L6-*	S6	KAMB-007E-CAV	200-220/1/50	5.6	36	1	0.5	7.5	15
	T7	KAMA-007E-TAC	200-220/3/50	3.2	19.9	1	0.5	4.5	15
ESA010L6-*	T7	KAJA-011E-TAC	200-220/3/50	4.6	27	1	0.5	6.3	15
ESA015L6-*	S6	KALB-015E-CAV	200-220/1/50	9.9	55	1	1.1	13.5	20
	T7	KALA-016E-TAC	200-220/3/50	6.6	50	1	1.1	9.4	15
	T9	KALA-016E-TAD	380-460/3/50	3.4	25	1	0.6	4.9	15
ESA020L6-*	T7	EADA-020E-TAC	200-220/3/50	6.8	46	1	1.1	9.6	15
ESA021L6-*	S6	EAVB-021E-CAV	200-220/1/50	14.7	102	1	1.1	19.5	30
	T7	EAVA-021E-TAC	200-220/3/50	7.4	50	1	1.1	10.4	15
	T9	EAVA-021E-TAD	380-460/3/50	3.9	26.6	1	0.6	5.5	15
ESA030L6-*	T7	LAHA-032E-TAC	200-220/3/50	12.8	112	1	2.1	18.1	30
	T9	LAHA-032E-TAD	380-460/3/50	6.0	56.0	1	1.1	8.6	15
ESA031L6-*	T7	NRD1-032E-TFC	200-220/3/50	16.3	82	1	2.1	22.5	35
	T9	NRD1-032E-TFD	380-460/3/50	8.4	41.0	1	1.1	11.6	20
ESA035L6-*	T7	2DF3F16KE-TFC	200-220/3/50	16.8	102	1	2.1	23.1	35
	T9	2DF3F16KE-TFD	380-460/3/50	8.1	52	1	1.1	11.2	15
ESA040L6-*	T7	2DL3F20KE-TFC	200-220/3/50	26.3	161	1	2.1	35.0	60
	T9	2DL3F20KE-TFD	380-460/3/50	10.2	60	1	1.1	13.9	20
ESA060L6-*	T7	2DB3F25KE-TFC	200-220/3/50	28.2	161	1	2.1	37.4	60
	T9	2DB3F25KE-TFD	380-460/3/50	13.3	80	1	1.1	17.7	30
ESA061L6-*	T7	3DA3F28KE-TFC	200-220/3/50	30.3	150	1	2.1	40.0	70
	T9	3DA3F28KE-TFD	380-460/3/50	13.7	77	1	1.1	18.2	30
ESA075L6-*	T7	3DB3F33KE-TFC	200-220/3/50	31.5	161	1	2.1	41.5	70
	T9	3DB3F33KE-TFD	380-460/3/50	16.1	83	1	1.1	21.2	35
ESA080L6-*	T7	3DF3F40KE-TFC	200-220/3/50	37.0	215	2	4.2	50.5	80
	T9	3DF3F40KE-TFD	380-460/3/50	16.7	106	2	2.2	23.1	40
ESA100L6-*	T7	3DS3F46KE-TFC	200-220/3/50	42.0	215	2	4.2	56.7	90
	T9	3DS3F46KE-TFD	380-460/3/50	18.6	106	2	2.2	25.5	40

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

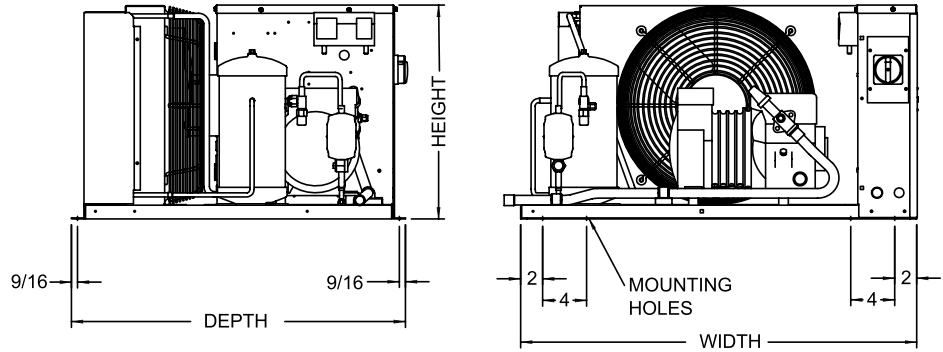
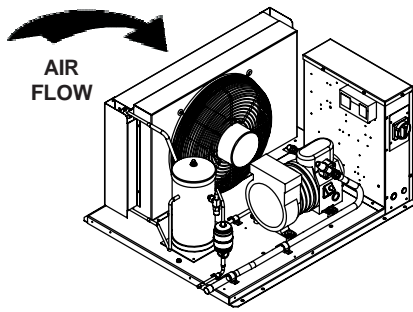
CONDENSING UNIT MODEL	COMPRESSOR MODEL NO.	POWER SUPPLY	COMPRESSOR		CONDENSER FAN MOTOR		MCA	MOP	
			RLA	LRA	QTY	FLA			
ESB029H2-*	T7	2C0407SH-***	200-220/3/50	10.1	44.2	1	2.1	14.7	20
	T9	2C0407SH-***	380-400/3/50	5.8	25.5	1	1.1	8.4	15
ESB030H2-*	T7	2C0484SH-***	200-220/3/50	12.0	60.6	1	2.1	17.1	25
	T9	2C0484SH-***	380-400/3/50	6.4	37.0	1	1.1	9.1	15
ESB035H2-*	T7	2C0572SH-***	200-220/3/50	13.5	64.0	1	2.1	19.0	30
	T9	2C0572SH-***	380-400/3/50	7.8	37.0	1	1.1	10.9	15
ESB040H2-*	T7	2C0692SH-***	200-220/3/50	16.4	76.6	1	2.1	22.6	35
	T9	2C0692SH-***	380-400/3/50	9.4	44.2	1	1.1	12.9	20
ESB050H2-*	T7	4C0770SH-***	200-220/3/50	18.7	107.7	1	2.1	25.5	40
	T9	4C0770SH-***	380-400/3/50	10.8	62.2	1	1.1	14.6	25
ESB060H2-*	T7	4C0969SH-***	200-220/3/50	22.9	107.7	1	2.1	30.7	50
	T9	4C0969SH-***	380-400/3/50	13.2	62.2	1	1.1	17.6	30
ESB075H2-*	T7	4C1145SH-***	200-220/3/50	27.5	142.8	1	2.1	36.5	60
	T9	4C1145SH-***	380-400/3/50	15.9	82.4	1	1.1	21.0	35
ESB090H2-*	T7	4C1385SH-***	200-220/3/50	38.1	215	2	4.2	51.8	90
	T9	4C1385SH-***	380-400/3/50	19.0	88	2	2.2	26.0	45
ESB100H2-*	T7	4C1480SH-***	200-220/3/50	42.8	222	2	4.2	57.7	100
	T9	4C1480SH-***	380-400/3/50	21.4	111	2	2.2	29.0	50
ESB120H2-*	T7	4C1761SH-***	200-220/3/50	47.1	252	2	4.2	63.1	100
	T9	4C1761SH-***	380-400/3/50	23.5	126	2	2.2	31.6	50
ESB029H6-*	T7	2C0407SH-***-Y	200-220/3/50	10.1	44.2	1	2.1	14.7	20
	T9	2C0407SH-***-Y	380-400/3/50	5.8	25.5	1	1.1	8.4	15
ESB030H6-*	T7	2C0484SH-***-Y	200-220/3/50	12.0	60.6	1	2.1	17.1	25
	T9	2C0484SH-***-Y	380-400/3/50	6.4	37.0	1	1.1	9.1	15
ESB035H6-*	T7	2C0572SH-***-Y	200-220/3/50	13.5	64.0	1	2.1	19.0	30
	T9	2C0572SH-***-Y	380-400/3/50	7.8	37.0	1	1.1	10.9	15
ESB040H6-*	T7	2C0692SH-***-Y	200-220/3/50	16.4	76.6	1	2.1	22.6	35
	T9	2C0692SH-***-Y	380-400/3/50	9.4	44.2	1	1.1	12.9	20
ESB050H6-*	T7	4C0770SH-***-Y	200-220/3/50	18.7	107.7	1	2.1	25.5	40
	T9	4C0770SH-***-Y	380-400/3/50	10.8	62.2	1	1.1	14.6	25
ESB060H6-*	T7	4C0969SH-***-Y	200-220/3/50	22.9	107.7	1	2.1	30.7	50
	T9	4C0969SH-***-Y	380-400/3/50	13.2	62.2	1	1.1	17.6	30
ESB075H6-*	T7	4C1145SH-***-Y	200-220/3/50	27.5	142.8	1	2.1	36.5	60
	T9	4C1145SH-***-Y	380-400/3/50	15.9	82.4	1	1.1	21.0	35
ESB090H6-*	T7	4C1385SH-***-Y	200-220/3/50	38.1	215	2	4.2	51.8	90
	T9	4C1385SH-***-Y	380-400/3/50	19.0	88	2	2.2	26.0	45
ESB100H6-*	T7	4C1480SH-***-Y	200-220/3/50	42.8	222	2	4.2	57.7	100
	T9	4C1480SH-***-Y	380-400/3/50	21.4	111	2	2.2	29.0	50
ESB120H6-*	T7	4C1761SH-***-Y	200-220/3/50	47.1	252	2	4.2	63.1	100
	T9	4C1761SH-***-Y	380-400/3/50	23.5	126	2	2.2	31.6	50

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

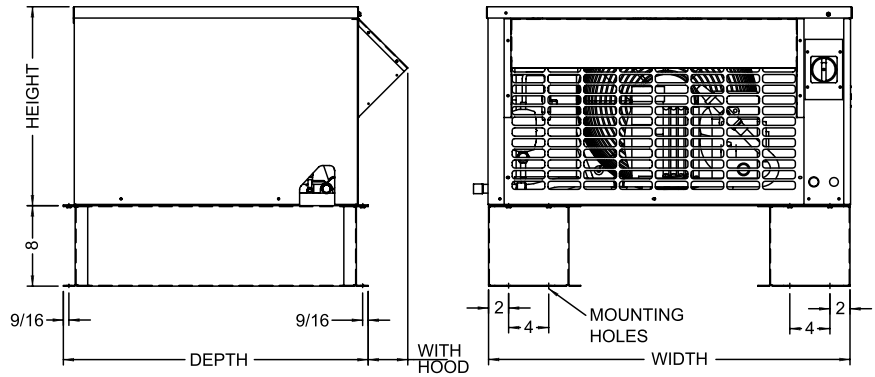
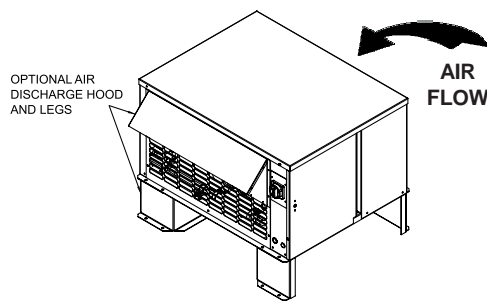
CONDENSING UNIT MODEL	COMPRESSOR MODEL NO.	POWER SUPPLY	COMPRESSOR		CONDENSER FAN MOTOR		MCA	MOP	
			RLA	LRA	QTY	FLA			
ESB030L6*	T7	2C0692SL-***-Y	200-220/3/50	14.8	64.0	1	2.1	20.6	35
	T9	2C0692SL-***-Y	380-400/3/50	8.5	37.0	1	1.1	11.7	20
ESB031L6*	T7	4C0770SL-***-Y	200-220/3/50	15.9	76.6	1	2.1	22.0	35
	T9	4C0770SL-***-Y	380-400/3/50	9.2	44.2	1	1.1	12.6	20
ESB039L6*	T7	4C0969SL-***-Y	200-220/3/50	18.5	92.7	1	2.1	25.2	40
	T9	4C0969SL-***-Y	380-400/3/50	10.7	53.5	1	1.1	14.5	25
ESB050L6*	T7	4C1145SL-***-Y	200-220/3/50	27.5	142.8	1	2.1	36.5	60
	T9	4C1145SL-***-Y	380-400/3/50	15.9	82.4	1	1.1	21.0	35
ESB060L6*	T7	4C1385SL-***-Y	200-220/3/50	27.5	107.7	1	2.1	36.5	60
	T9	4C1385SL-***-Y	380-400/3/50	15.9	62.2	1	1.1	21.0	35
ESB090L6*	T7	4C1761SL-***-Y	200-220/3/50	31.0	180	2	4.2	43.0	70
	T9	4C1761SL-***-Y	380-400/3/50	15.5	90	2	2.2	21.6	35
ESB100L6*	T7	4C2067SL-***-Y	200-220/3/50	38.0	222	2	4.2	51.7	90
	T9	4C2067SL-***-Y	380-400/3/50	19.0	111	2	2.2	26.0	45
ESB120L6*	T7	4C2397SL-***-Y	200-220/3/50	44.2	252	2	4.2	59.5	100
	T9	4C2397SL-***-Y	380-400/3/50	22.1	126	2	2.2	29.8	50

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

# DIMENSIONAL DATA (1 Fan Models - Small Chassis)



## INDOOR DIMENSIONS



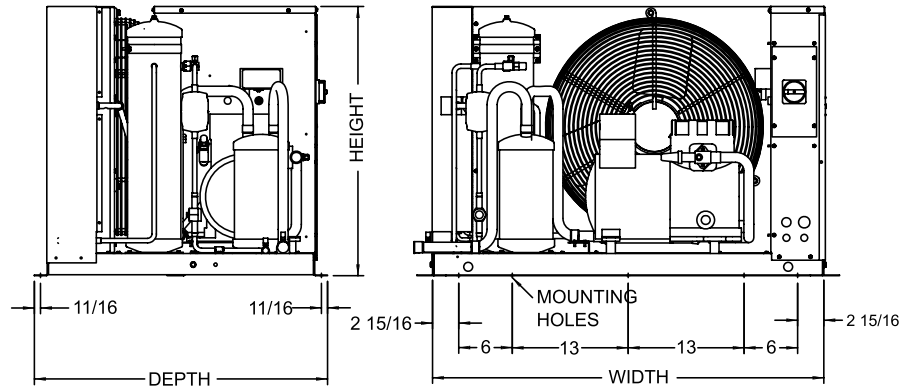
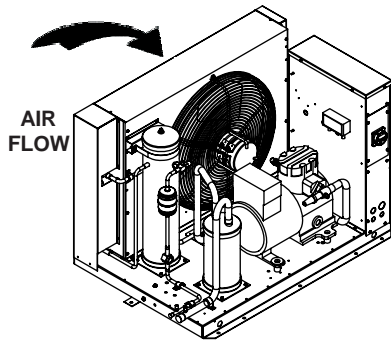
## OUTDOOR DIMENSIONS

CONDENSING UNIT MODEL	WIDTH		DEPTH				HEIGHT*	
			Base		With Hood			
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
ESA005	24 7/8	632	30 3/8	772	34 3/8	873	16 7/8	429
ESA008	24 7/8	632	30 3/8	772	34 3/8	873	16 7/8	429
ESA010	24 7/8	632	30 3/8	772	34 3/8	873	16 7/8	429
ESA015	36 3/8	924	30 3/8	772	34 3/8	873	19 7/8	505
ESA020	36 3/8	924	30 3/8	772	34 3/8	873	19 7/8	505
ESA021	36 3/8	924	30 3/8	772	34 3/8	873	19 7/8	505
ESB029	47 3/8	1203	32 7/8	835	34 3/8	873	30 3/8	772

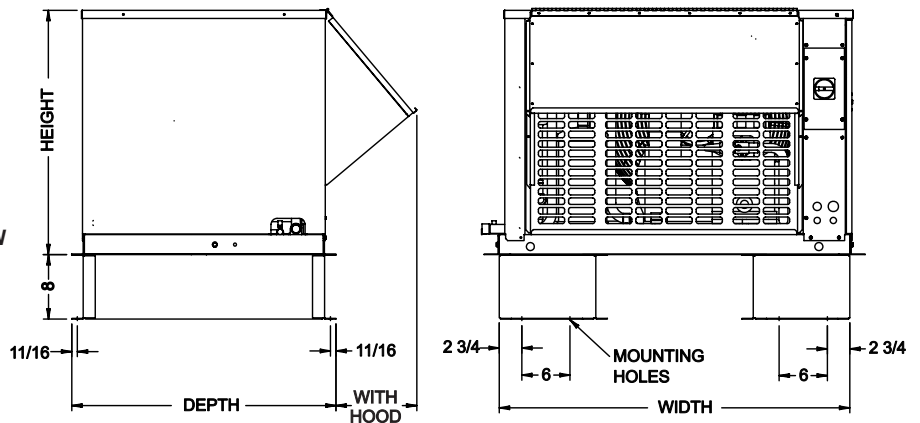
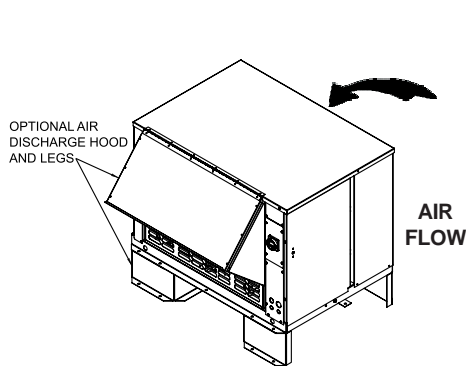
\*Note: Dimensions for indoor models may be smaller by up to 3/8" (10 mm)

NOTE: Discharge hood and legs are optional components

# DIMENSIONAL DATA (1 Fan Models - Large Chassis)



## INDOOR DIMENSIONS



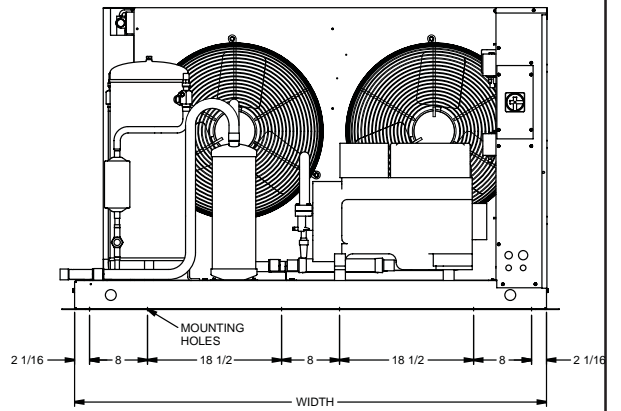
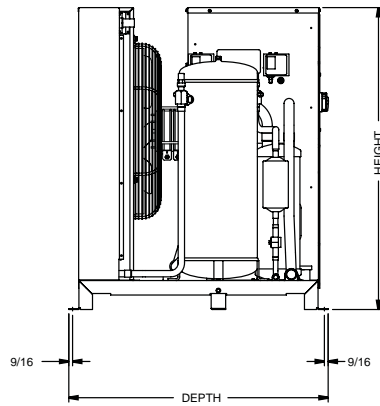
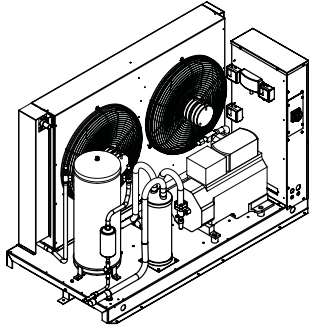
## OUTDOOR DIMENSIONS

CONDENSING UNIT MODEL	WIDTH		DEPTH				HEIGHT*	
			Base		With Hood			
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
ESA030	47 3/8	1203	32 7/8	835	43	1092	30 3/8	772
ESA032	47 3/8	1203	32 7/8	835	43	1092	30 3/8	772
ESA035	47 3/8	1203	32 7/8	835	43	1092	30 3/8	772
ESA040	47 3/8	1203	32 7/8	835	43	1092	30 3/8	772
ESA050	55 5/8	1413	35 7/8	911	43	1092	41 7/8	1064
ESA051	55 5/8	1413	35 7/8	911	43	1092	41 7/8	1064
ESA060	55 5/8	1413	35 7/8	911	43	1092	41 7/8	1064
ESA061	55 5/8	1413	35 7/8	911	43	1092	41 7/8	1064
ESA075	55 5/8	1413	35 7/8	911	50	1270	41 7/8	1064
ESA076	55 5/8	1413	35 7/8	911	50	1270	41 7/8	1064
ESB030	47 3/8	1203	32 7/8	835	43	1092	30 3/8	772
ESB031	47 3/8	1203	32 7/8	835	43	1092	30 3/8	772
ESB035	47 3/8	1203	32 7/8	835	43	1092	30 3/8	772
ESB039	47 3/8	1203	32 7/8	835	43	1092	30 3/8	772
ESB040	47 3/8	1203	32 7/8	835	43	1092	30 3/8	772
ESB050	55 5/8	1413	35 7/8	911	43	1092	41 7/8	1064
ESB060	55 5/8	1413	35 7/8	911	43	1092	41 7/8	1064
ESB075	55 5/8	1413	35 7/8	911	50	1270	41 7/8	1064

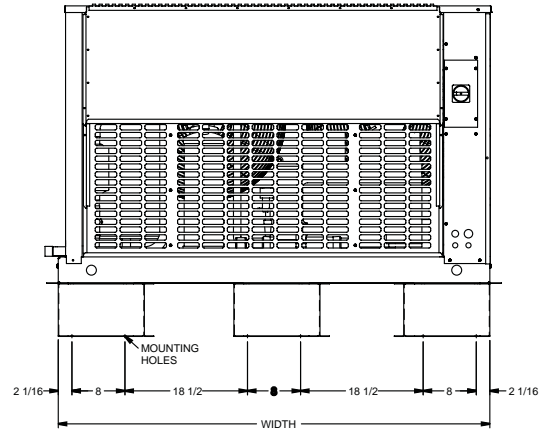
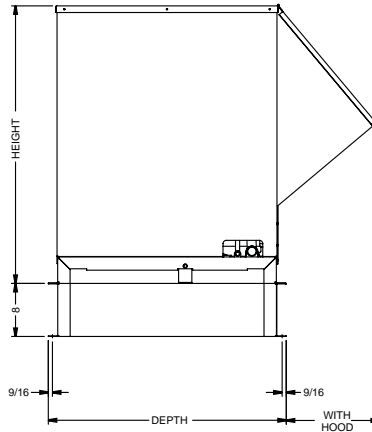
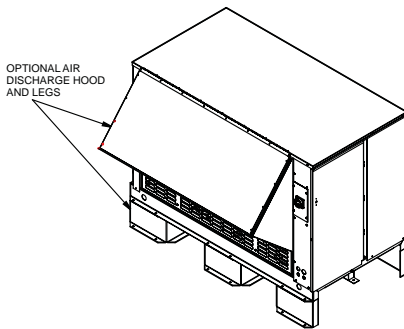
\*Note: Dimensions for indoor models may be smaller by up to 3/8" (10 mm)

NOTE: Discharge hood and legs are optional components

# DIMENSIONAL DATA (2 Fan Models)



## INDOOR DIMENSIONS



## OUTDOOR DIMENSIONS

CONDENSING UNIT MODEL	WIDTH		DEPTH				HEIGHT*	
			Base		With Hood			
	Inches	mm	Inches	mm	Inches	mm	Inches	mm
ESA080	68 5/8	1743	35 7/8	911	50	1270	41 7/8	1064
ESA090	68 5/8	1743	35 7/8	911	50	1270	41 7/8	1064
ESA100	68 5/8	1743	35 7/8	911	50	1270	41 7/8	1064
ESB080	68 5/8	1743	35 7/8	911	50	1270	41 7/8	1064
ESB100	68 5/8	1743	35 7/8	911	50	1270	41 7/8	1064
ESB120	68 5/8	1743	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



# SPECIFICATIONS COPELAND MODELS

CONDENSING UNIT MODEL	UNIT CONNECTIONS				RECEIVER CAPACITY 90% FULL		SHIPPING WEIGHT			
	SUCTION (OD)		LIQUID (OD)				OUTDOOR		INDOOR	
	Inches	mm	Inches	mm	Lbs.	Kgs	Lbs.	Kgs	Lbs.	Kgs
ESA005H2	1/2	13	3/8	10	6	2.7	215	98	204	93
ESA008H2	1/2	13	3/8	10	6	2.7	240	109	230	104
ESA010H2	5/8	16	3/8	10	6	2.7	270	122	260	118
ESA015H2	7/8	22	3/8	10	16	7.3	310	141	295	134
ESA020H2	7/8	22	3/8	10	16	7.3	320	145	305	138
ESA030H2	7/8	22	1/2	13	25	11.3	477	216	432	196
ESA040H2	1 1/8	29	1/2	13	25	11.3	542	246	497	225
ESA050H2	1 1/8	29	1/2	13	35	15.9	766	347	721	327
ESA051H2	1 1/8	29	1/2	13	35	15.9	769	349	724	328
ESA075H2	1 3/8	35	5/8	16	35	15.9	780	354	735	333
ESA076H2	1 3/8	35	5/8	16	35	15.9	780	354	735	333
ESA080H2	1 3/8	35	5/8	16	62	28.1	885	401	830	376
ESA100H2	1 3/8	35	5/8	16	62	28.1	885	401	830	376
ESA005M2	1/2	13	3/8	10	6	2.7	215	98	205	93
ESA008M2	5/8	16	3/8	10	6	2.7	240	109	230	104
ESA010M2	5/8	16	3/8	10	6	2.7	270	122	260	118
ESA021M2	7/8	22	3/8	10	16	7.3	390	177	370	168
ESA030M2	1 1/8	29	1/2	13	25	11.3	486	220	441	200
ESA050M2	1 1/8	29	1/2	13	35	15.9	738	335	693	314
ESA050H6	1 1/8	29	1/2	13	31	14.1	766	347	721	327
ESA051H6	1 1/8	29	1/2	13	31	14.1	769	349	724	328
ESA075H6	1 3/8	35	5/8	16	31	14.1	780	354	735	333
ESA076H6	1 3/8	35	5/8	16	31	14.1	780	354	735	333
ESA080H6	1 3/8	35	5/8	16	54	24.5	885	401	830	376
ESA100H6	1 3/8	35	5/8	16	54	24.5	885	401	830	376
ESA005M6	1/2	13	3/8	10	5.2	2.4	215	98	205	93
ESA010M6	5/8	16	3/8	10	5.2	2.4	270	122	260	118
ESA020M6	7/8	22	3/8	10	14	6.4	320	145	305	138
ESA021M6	7/8	22	3/8	10	14	6.4	390	177	370	168
ESA030M6	7/8	22	1/2	13	22	10.0	477	216	432	196
ESA035M6	1 1/8	29	1/2	13	22	10.0	487	221	442	200
ESA040M6	1 1/8	29	1/2	13	22	10.0	542	246	497	225
ESA005L6	1/2	13	3/8	10	5.2	2.4	240	109	230	104
ESA008L6	5/8	16	3/8	10	5.2	2.4	270	122	260	118
ESA010L6	7/8	22	3/8	10	5.2	2.4	290	132	275	125
ESA015L6	7/8	22	3/8	10	14	6.4	315	143	300	136
ESA020L6	7/8	22	3/8	10	14	6.4	385	175	370	168
ESA021L6	7/8	22	1/2	13	14	6.4	390	177	375	170
ESA030L6	1 1/8	29	1/2	13	22	10	493	224	448	203
ESA031L6	1 1/8	29	1/2	13	22	10	562	255	517	234
ESA032L6	1 1/8	29	1/2	13	22	10	491	223	446	202
ESA035L6	1 1/8	29	1/2	13	22	10	588	267	543	246
ESA040L6	1 1/8	29	1/2	13	22	10	618	281	573	259
ESA060L6	1 3/8	35	5/8	16	31	14	781	355	736	333
ESA061L6	1 3/8	35	5/8	16	31	14	819	372	774	350
ESA075L6	1 3/8	35	5/8	16	31	14	827	376	782	354
ESA090L6	1 3/8	35	5/8	16	54	24.5	885	401	830	376
ESA100L6	1 3/8	35	5/8	16	54	24.5	885	401	830	376

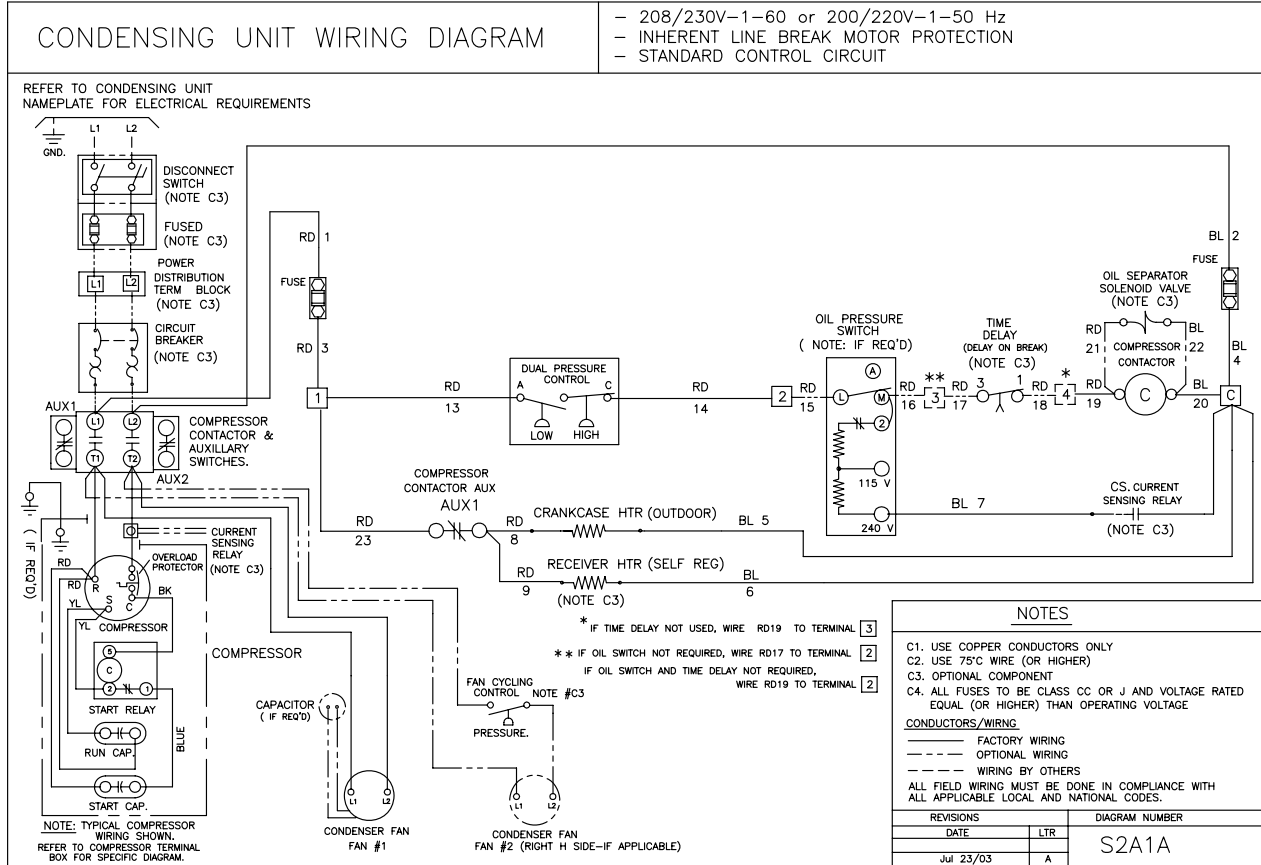


## SPECIFICATIONS BITZER MODELS

CONDENSING UNIT MODEL	UNIT CONNECTIONS				RECEIVER CAPACITY 90% FULL		SHIPPING WEIGHT			
	SUCTION (OD)		LIQUID (OD)				OUTDOOR		INDOOR	
	Inches	mm	Inches	mm	Lbs.	Kgs	Lbs.	Kgs	Lbs.	Kgs
ESB029H2	7/8	22	1/2	13	25	11.3	386	175	361	164
ESB030H2	7/8	22	1/2	13	25	11.3	437	198	392	178
ESB035H2	1 1/8	29	1/2	13	25	11.3	449	204	404	183
ESB040H2	1 1/8	29	1/2	13	25	11.3	452	205	407	185
ESB050H2	1 1/8	29	1/2	13	35	15.9	648	294	603	274
ESB060H2	1 3/8	35	5/8	16	35	15.9	652	296	607	275
ESB075H2	1 3/8	35	5/8	16	35	15.9	655	297	610	277
ESB090H2	1 3/8	35	5/8	16	62	28.1	700	318	645	293
ESB100H2	1 3/8	35	5/8	16	62	28.1	800	363	745	338
ESB120H2	1 3/8	35	5/8	16	62	28.1	805	365	750	340
ESB029H6	1 1/8	29	5/8	16	22	10	386	175	361	164
ESB030H6	1 1/8	29	5/8	16	22	10	437	198	392	178
ESB035H6	1 1/8	29	5/8	16	22	10	449	204	404	183
ESB040H6	1 1/8	29	5/8	16	22	10	452	205	407	185
ESB050H6	1 1/8	29	5/8	16	31	14.1	648	294	603	274
ESB060H6	1 3/8	35	5/8	16	31	14.1	652	296	607	275
ESB075H6	1 3/8	35	5/8	16	31	14.1	655	297	610	277
ESB090H6	1 3/8	35	5/8	16	54	24.5	700	318	645	293
ESB100H6	1 3/8	35	5/8	16	54	24.5	800	363	745	338
ESB120H6	1 3/8	35	5/8	16	54	24.5	805	365	750	340
ESB030L6	1 1/8	29	1/2	13	22	10	436	198	391	177
ESB031L6	1 1/8	29	1/2	13	22	10	463	210	418	190
ESB039L6	1 1/8	29	1/2	13	22	10	479	217	434	197
ESB050L6	1 3/8	35	5/8	16	31	14.1	647	293	602	273
ESB060L6	1 3/8	35	5/8	16	31	14.1	658	298	613	278
ESB080L6	1 3/8	35	5/8	16	54	24.5	790	358	735	333
ESB100L6	1 3/8	35	5/8	16	54	24.5	800	363	745	338
ESB120L6	1 3/8	35	5/8	16	54	24.5	805	365	750	340

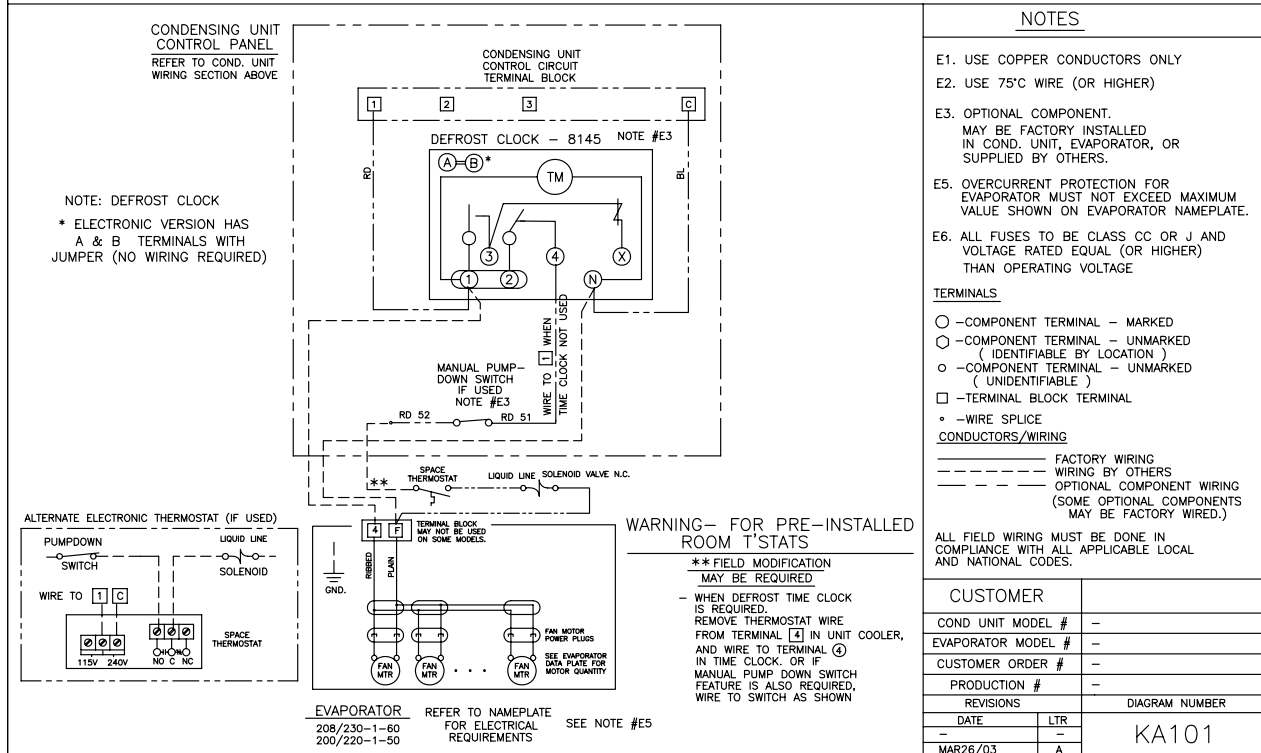
# TYPICAL SYSTEM WIRING DIAGRAM

## 200-220/1/50 - 1 FAN MODELS



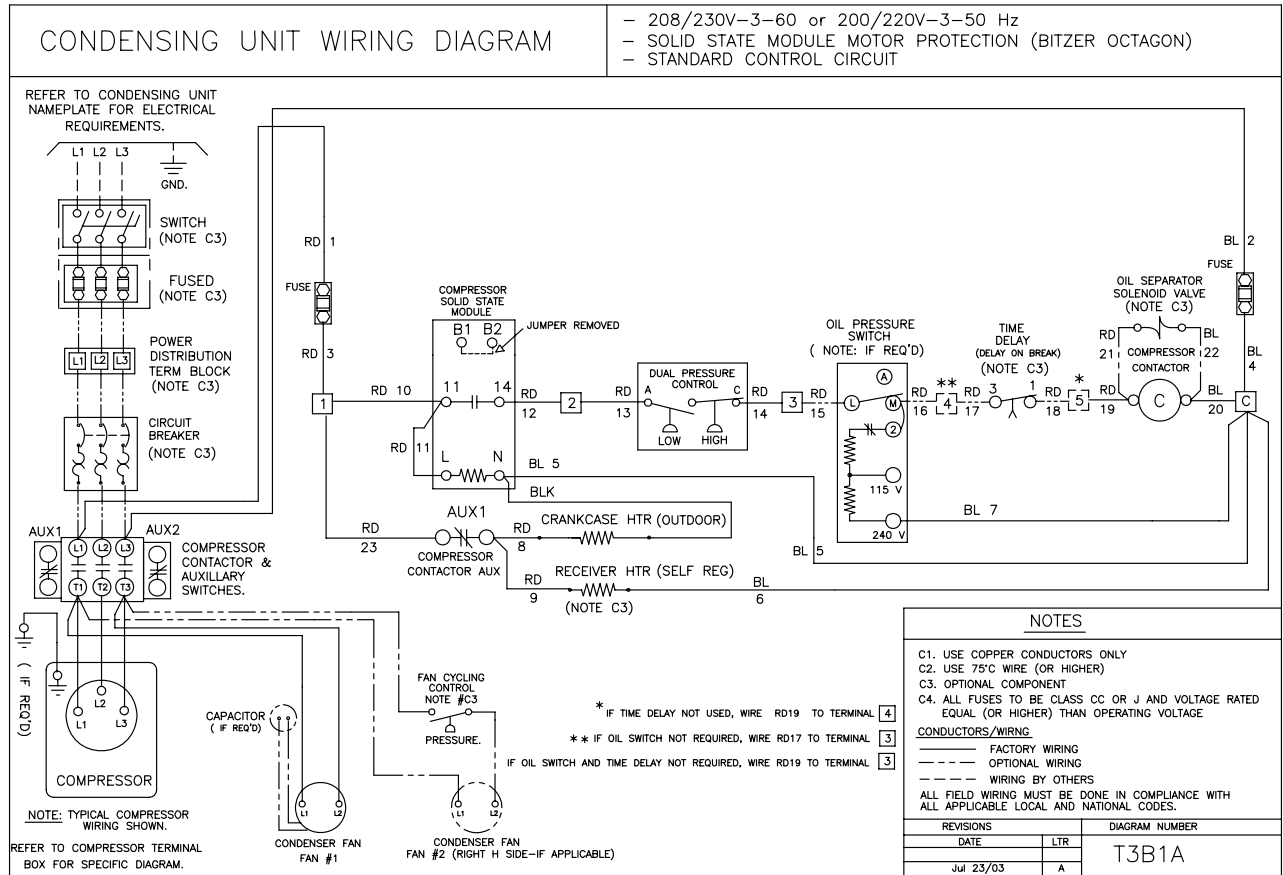
### TYPICAL EVAPORATOR WIRING: FOR SINGLE AIR DEFROST EVAPORATOR— SINGLE POINT

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



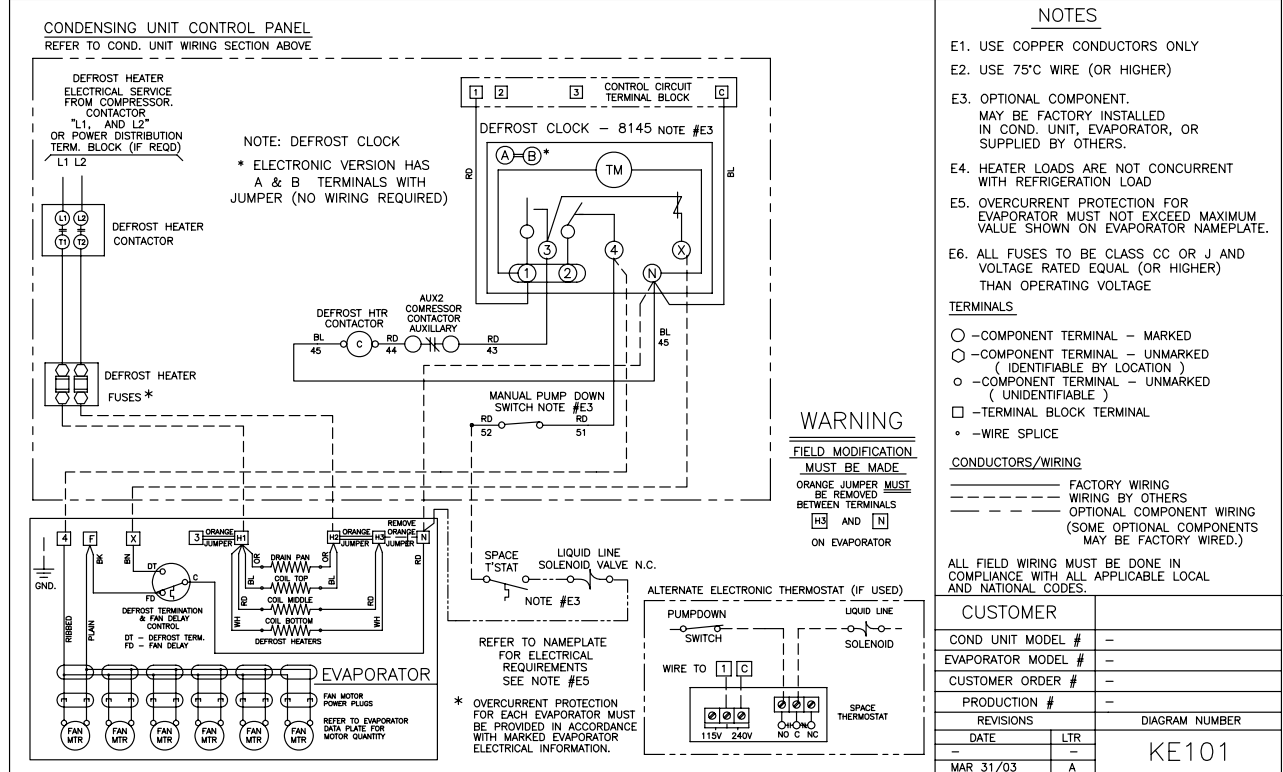
# TYPICAL SYSTEM WIRING DIAGRAM

## 200-220/3/50 - 1 FAN MODELS



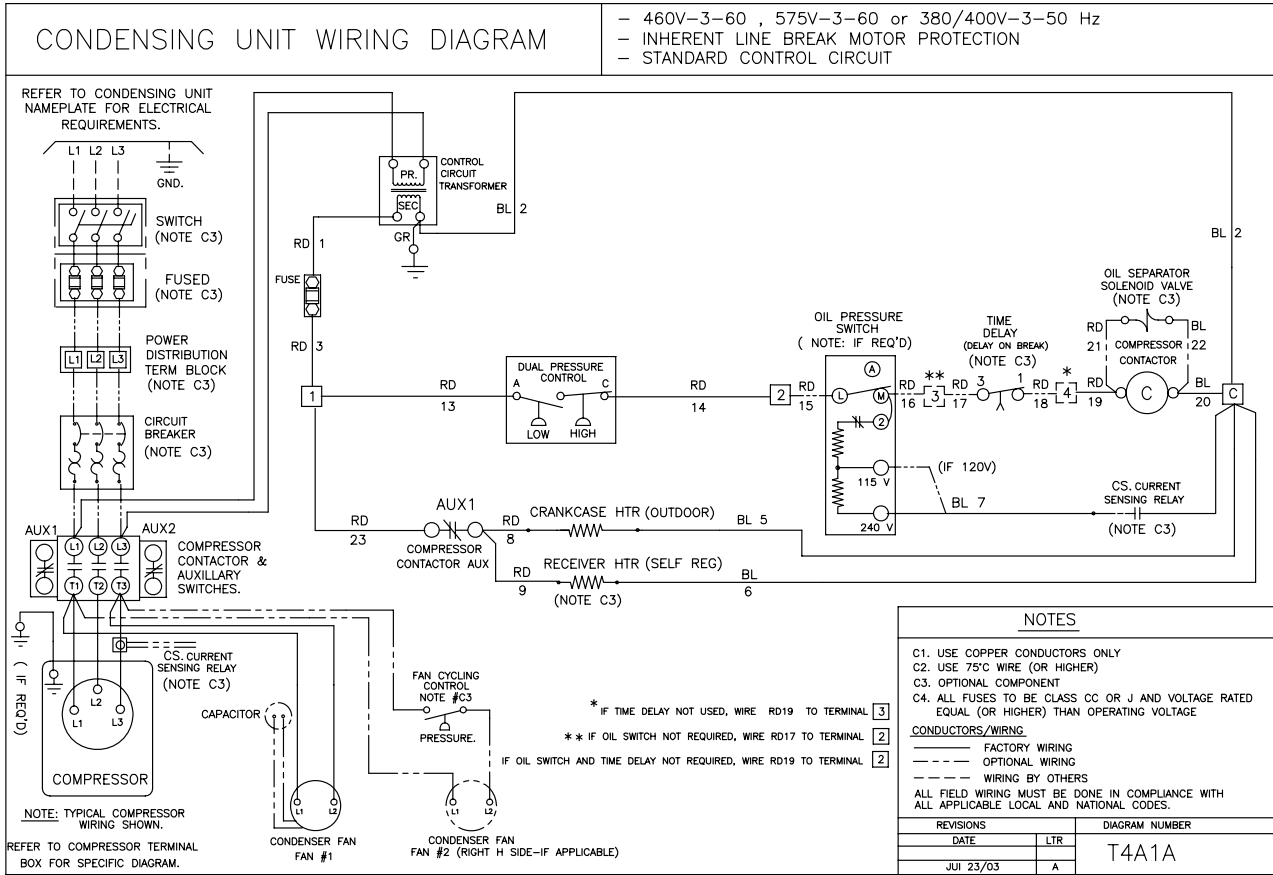
### TYPICAL EVAPORATOR WIRING: FOR SINGLE LOW PROFILE ELECT DEFROST EVAPORATOR- SINGLE POINT

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



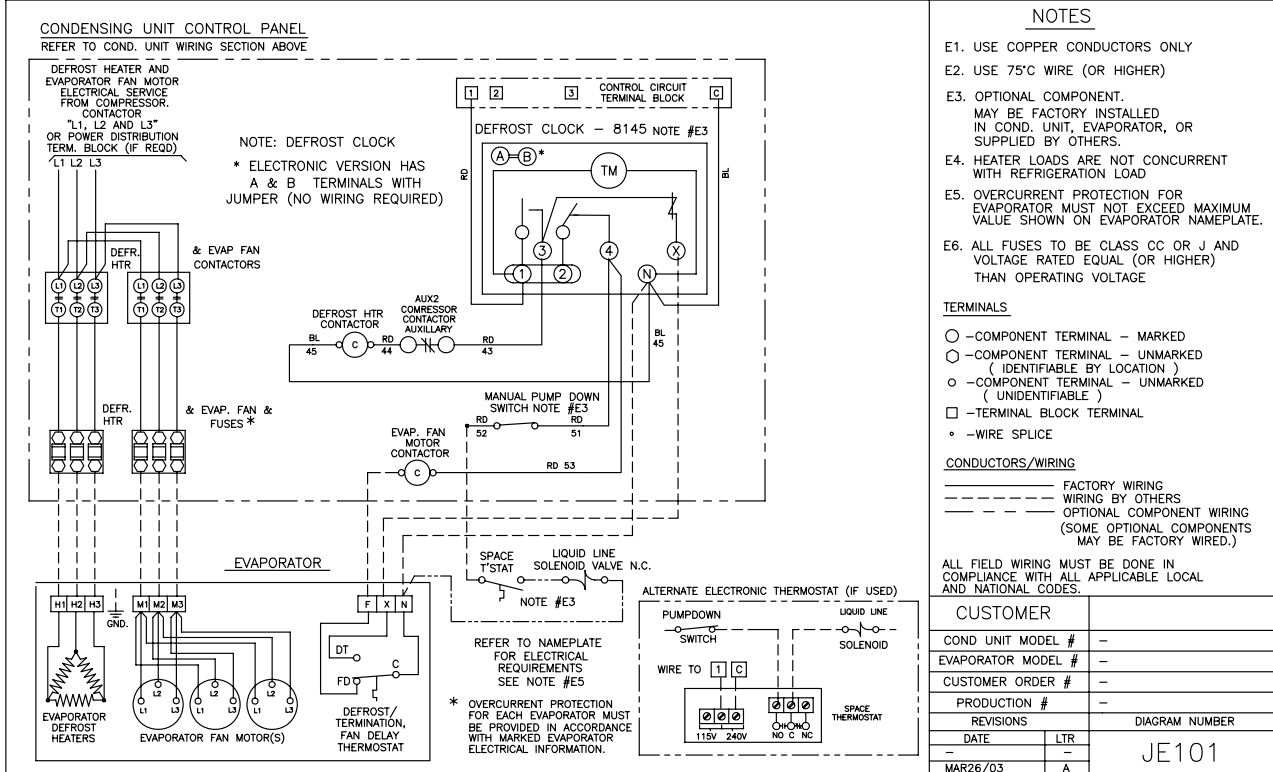
# TYPICAL SYSTEM WIRING DIAGRAM

## 380-400/3/50 - 1 FAN MODELS



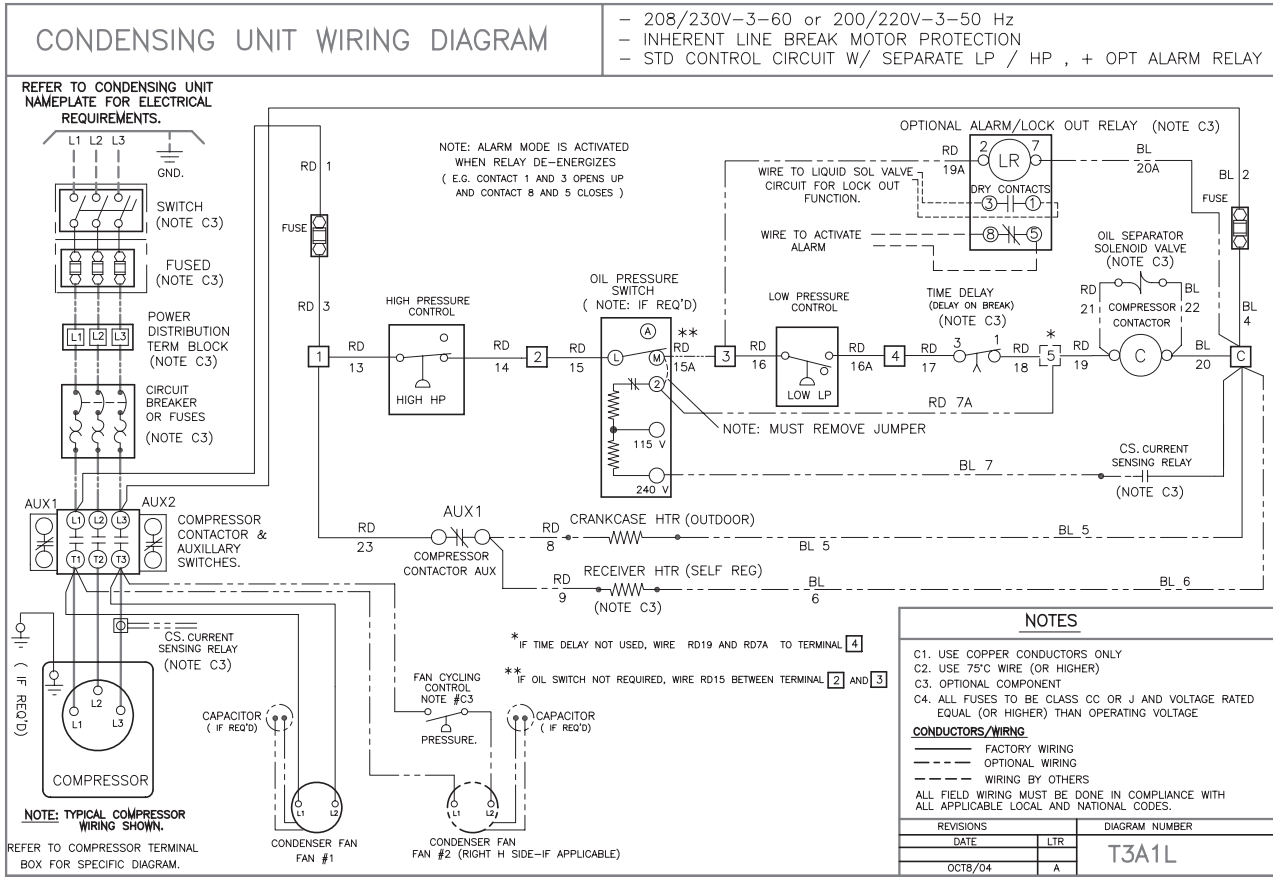
### TYPICAL EVAPORATOR WIRING: FOR SINGLE MED PROFILE ELECT DEFROST EVAPORATOR- SINGLE POINT

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



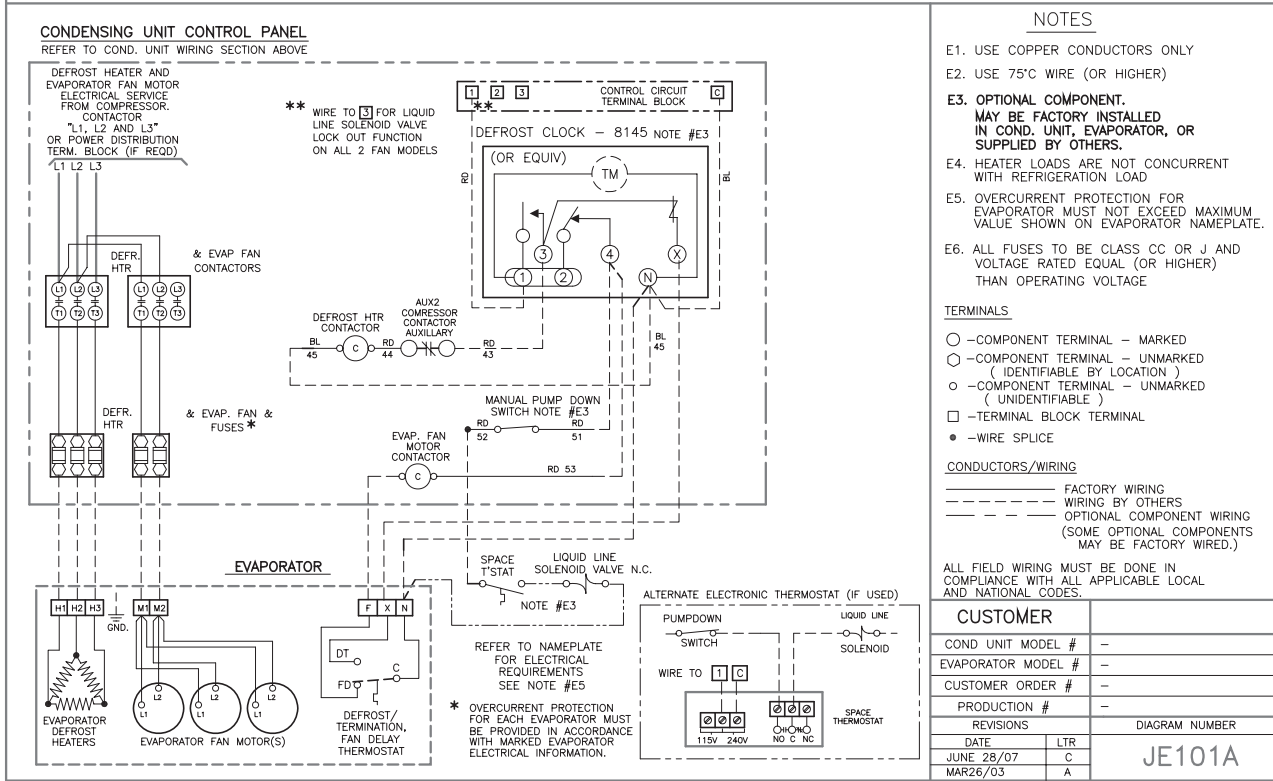
# TYPICAL SYSTEM WIRING DIAGRAM

## 200-220/1/50, 200-220/3/50 - 2 FAN MODELS



### 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.





## GENERIC SERVICE PARTS LIST COPELAND COMPRESSOR MODELS

MODEL	CONDENSER	200-220/1/50, 200-220/3/50		380-400/1/50, 380-400/3/50	
		MOTORS	BLADES	MOTORS	BLADES
ESA005H2	1081652	1078535	1077321	N/A	N/A
ESA008H2	1081652	1078535	1077321	N/A	N/A
ESA010H2	1081653	1078535	1077321	N/A	N/A
ESA015H2	1081643	1084927	1079563	1084928	1079563
ESA020H2	1081644	1084927	1079563	1084928	1079563
ESA030H2	1076235	1084930	1076754	1084930	1076754
ESA040H2	1076236	1084930	1076754	1084930	1076754
ESA050H2	1076238	1084930	1076754	1084930	1076754
ESA051H2	1076238	1084930	1076754	1084930	1076754
ESA075H2	1076238	1084930	1076754	1084930	1076754
ESA076H2	1076238	1084930	1076754	1084930	1076754
ESA080H2	1085368	1087002	1076754	1087002	1076754
ESA100H2	1085368	1087002	1076754	1087002	1076754
ESA005M2	1081652	1078535	1077321	N/A	N/A
ESA008M2	1081652	1078535	1077321	N/A	N/A
ESA010M2	1081653	1078535	1077321	N/A	N/A
ESA021M2	1081644	1084927	1079563	1084928	1079563
ESA030M2	1076235	1084930	1076754	1084930	1076754
ESA050M2	1076238	1084930	1076754	1084930	1076754
ESA050H6	1076238	1084930	1076754	1084930	1076754
ESA051H6	1076238	1084930	1076754	1084930	1076754
ESA075H6	1076238	1084930	1076754	1084930	1076754
ESA076H6	1076238	1084930	1076754	1084930	1076754
ESA080H6	1085368	1087002	1076754	1087002	1076754
ESA100H6	1085368	1087002	1076754	1087002	1076754
ESA005M6	1081652	1078535	1077321	N/A	N/A
ESA010M6	1081653	1078535	1077321	N/A	N/A
ESA020M6	1081643	1084927	1079563	1084928	1079563
ESA021M6	1081644	1084927	1079563	1084928	1079563
ESA030M6	1076235	1084930	1076754	1084930	1076754
ESA035M6	1076235	1084930	1076754	1084930	1076754
ESA040M6	1076236	1084930	1076754	1084930	1076754
ESA005L6	1081652	1078535	1077321	N/A	N/A
ESA008L6	1081652	1078535	1077321	N/A	N/A
ESA010L6	1081652	1078535	1077321	N/A	N/A
ESA015L6	1081643	1084927	1079563	1084928	1079563
ESA020L6	1081643	1084927	1079563	N/A	N/A
ESA021L6	1081643	1084927	1079563	1084928	1079563
ESA030L6	1076235	1084930	1076754	1084930	1076754
ESA031L6	1076235	1084930	1076754	1084930	1076754
ESA032L6	1076235	1084930	1076754	1084930	1076754
ESA035L6	1076235	1084930	1076754	1084930	1076754
ESA040L6	1076236	1084930	1076754	1084930	1076754
ESA060L6	1076238	1084930	1076754	1084930	1076754
ESA061L6	1076238	1084930	1076754	1084930	1076754
ESA075L6	1076238	1084930	1076754	1084930	1076754
ESA090L6	1085368	1087002	1076754	1087002	1076754
ESA100L6	1085368	1087002	1076754	1087002	1076754



## GENERIC SERVICE PARTS LIST BITZER COMPRESSOR MODELS

MODEL	CONDENSER	200-220/1/50, 200-220/3/50		380-400/1/50, 380-400/3/50	
		MOTORS	BLADES	MOTORS	BLADES
ESB029H2	1076235	1084930	1076754	1084930	1076754
ESB030H2	1076235	1084930	1076754	1084930	1076754
ESB035H2	1076236	1084930	1076754	1084930	1076754
ESB040H2	1076236	1084930	1076754	1084930	1076754
ESB050H2	1076238	1084930	1076754	1084930	1076754
ESB060H2	1076238	1084930	1076754	1084930	1076754
ESB075H2	1076238	1084930	1076754	1084930	1076754
ESB090H2	1085368	1087002	1076754	1087002	1076754
ESB100H2	1085368	1087002	1076754	1087002	1076754
ESB120H2	1085368	1087002	1076754	1087002	1076754
ESB029H6	1076235	1084930	1076754	1084930	1076754
ESB030H6	1076235	1084930	1076754	1084930	1076754
ESB035H6	1076236	1084930	1076754	1084930	1076754
ESB040H6	1076236	1084930	1076754	1084930	1076754
ESB050H6	1076238	1084930	1076754	1084930	1076754
ESB060H6	1076238	1084930	1076754	1084930	1076754
ESB075H6	1076238	1084930	1076754	1084930	1076754
ESB090H6	1085368	1087002	1076754	1087002	1076754
ESB100H6	1085368	1087002	1076754	1087002	1076754
ESB120H6	1085368	1087002	1076754	1087002	1076754
ESB030L6	1076235	1084930	1076754	1084930	1076754
ESB031L6	1076235	1084930	1076754	1084930	1076754
ESB039L6	1076236	1084930	1076754	1084930	1076754
ESB050L6	1076238	1084930	1076754	1084930	1076754
ESB060L6	1076238	1084930	1076754	1084930	1076754
ESB080L6	1085368	1087002	1076754	1087002	1076754
ESB100L6	1085368	1087002	1076754	1087002	1076754
ESB120L6	1085368	1087002	1076754	1087002	1076754



# NOTES

# NOTES

## FINISHED GOODS WARRANTY

The terms and conditions as described below in the General Warranty Policy cover all products manufactured by National Refrigeration.

### GENERAL WARRANTY POLICY

Subject to the terms and conditions hereof, the Company warrants all Products, including Service Parts, manufactured by the Company to be free of defects in material or workmanship, under normal use and application for a period of one (1) year from the original date of installation, or eighteen (18) months from the date of shipment from the Company, whichever occurs first. Any replacement part(s) so supplied will be warranted for the balance of the product's original warranty. The part(s) to be replaced must be made available in exchange for the replacement part(s) and reasonable proof of the original installation date of the product must be presented in order to establish the effective date of the warranty, failing which, the effective date will be based upon the date of manufacture plus thirty (30) days. Any labour, material, refrigerant, transportation, freight or other charges incurred in connection with the performance of this warranty will be the responsibility of the owner at the current rates and prices then in effect. This warranty may be transferred to a subsequent owner of the product.

### THIS WARRANTY DOES NOT COVER

(a) Damages caused by accident, abuse, negligence, misuse, riot, fire, flood, or Acts of God (b) damages caused by operating the product in a corrosive atmosphere (c) damages caused by any unauthorized alteration or repair of the system affecting the product's reliability or performance (d) damages caused by improper matching or application of the product or the product's components (e) damages caused by failing to provide routine and proper maintenance or service to the product (f) expenses incurred for the erecting, disconnecting, or dismantling the product (g) parts used in connection with normal maintenance, such as filters or belts (h) products no longer at the site of the original installation (i) products installed or operated other than in accordance with the printed instructions, with the local installation or building codes and with good trade practices (j) products lost or stolen.

**No one is authorized to change this WARRANTY** or to create for or on behalf of the Company any other obligation or liability in connection with the Product(s). There is no other representation, warranty or condition in any respect, expressed or implied, made by or binding upon the Company other than the above or as provided by provincial or state law and which cannot be limited or excluded by such law, nor will we be liable in any way for incidental, consequential, or special damages however caused.

The provisions of this additional written warranty are in addition to and not a modification of or subtraction from the statutory warranties and other rights and remedies provided by Federal, Provincial or State laws.

## PROJECT INFORMATION

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

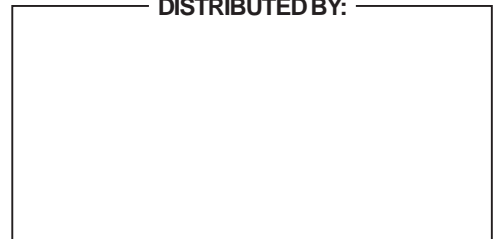
**“AS BUILT” SERVICE PARTS LIST**

**Service Parts List  
Label  
To Be Attached  
*HERE***



**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](mailto:ballysales@ballyrefboxes.com) • [www.ballyrefboxes.com](http://www.ballyrefboxes.com)

DISTRIBUTED BY:



*Due to Manufacturer's policy of continuous product improvement,  
the Manufacturer reserves the right to make changes without notice.*

