

EHK

ELECTRIC HEAT KITS

INSTALLATION INSTRUCTIONS

© 2008-2010 Goodman Manufacturing Company, L.P.
5151 San Felipe, Suite 500, Houston, TX 77056
www.goodmanmfg.com -or- www.amana-hac.com
P/N: IO-700E Date: June 2010

Attention Installing Personnel

As a professional installer, you have an obligation to know the product better than the customer. This includes all safety precautions and related items.

Prior to actual installation, thoroughly familiarize yourself with this Instruction Manual. Pay special attention to all safety warnings. Often during installation or repair, it is possible to place yourself in a position which is more hazardous than when the unit is in operation.

Remember, it is **your** responsibility to install the product safely and to know it well enough to be able to instruct a customer in its safe use.

Safety is a matter of common sense...a matter of thinking before acting. Most dealers have a list of specific good safety practices...follow them.

The precautions listed in this Installation Manual are intended as supplemental to existing practices. However, if there is a direct conflict between existing practices and the content of this manual, the precautions listed here take precedence.

Description

The following installation instructions supplement is for the EHK heater kits for installation in the following models:

CPC036, CPC048, CPC060, CPC072
CPH036, CPH048, CPH060, CPH072

These instructions should be used only as a supplement to the installation instructions provided with the above units.

**WARNING**

HIGH VOLTAGE!
DISCONNECT **ALL** POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



**CAUTION**

TO AVOID POSSIBLE PERSONAL INJURY, USE EXTREME CAUTION IF USING POWER TOOLS TO REMOVE THE SMALL BREAKER MOUNTING BRACKETS. THE BRACKETS MAY QUICKLY ROTATE AND CAUSE INJURY.

Check your unit's serial plate for revision level of unit. If revision is "AA", refer to pages 1 and 2. If revision is "BA" refer to pages 3 and 4.

"AA" REVISION INSTRUCTIONS

1. Disconnect all power to the unit, both indoor and outdoor.
2. Remove control box door.
3. Remove blower door.
4. Remove heat access door.
5. Locate heater box. Remove screws holding the heater box cover in place (Figure 1).

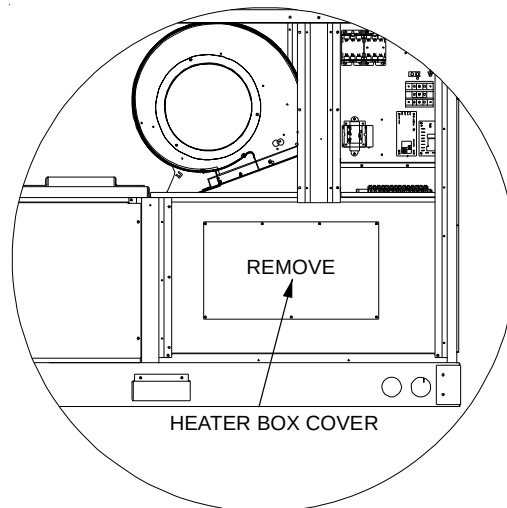


Figure 1

6. Remove EHK Heater Kit from box. Locate support legs and retainer clips.
7. Install support legs on heater element bracket, orienting the support legs down and shifted in the same direction as shown in Figure 2. Install support leg retaining clips on each heater element bracket. Note: The support legs must be installed as shown to provide clearance of bottom supply air opening.

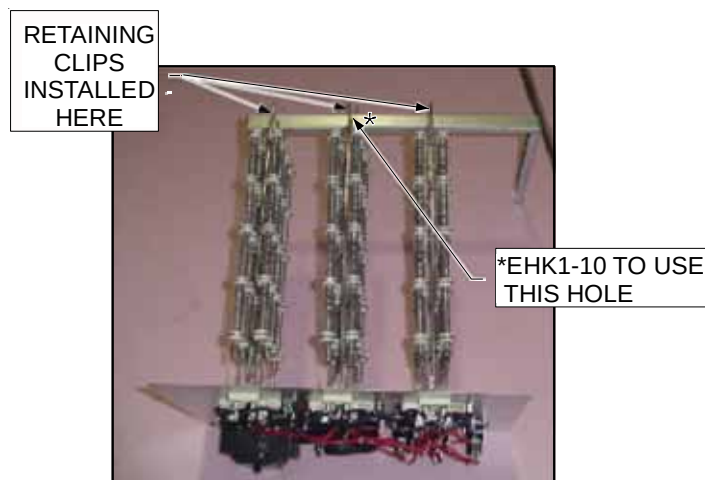


Figure 2



8. Completed heater kit assembly should resemble Figure 3.

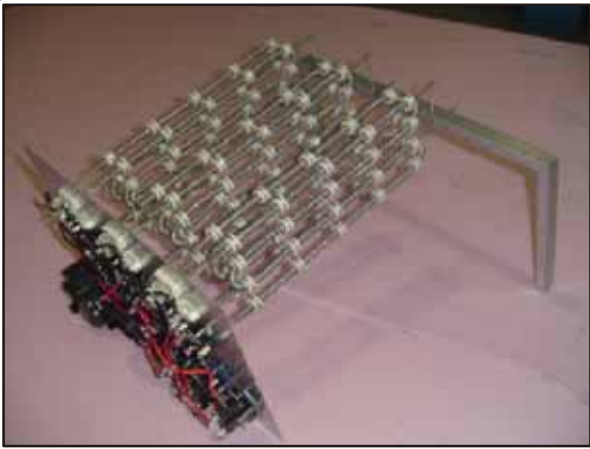


Figure 3

9. Install Heater Kit in opening using screws from cover. Ensure legs are resting on base pan.
10. Route the EHK wires through the hole in the blower deck and into the control box as shown.

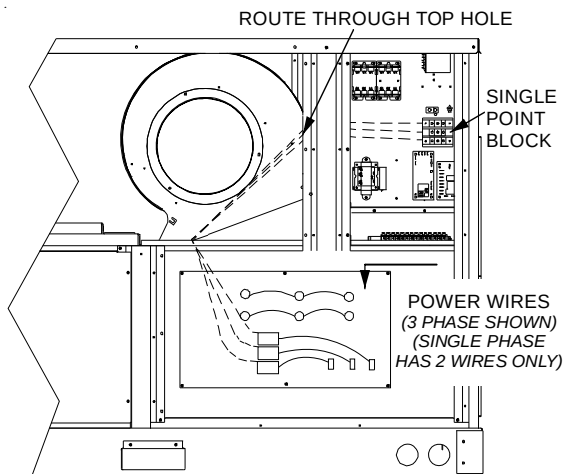


Figure 4

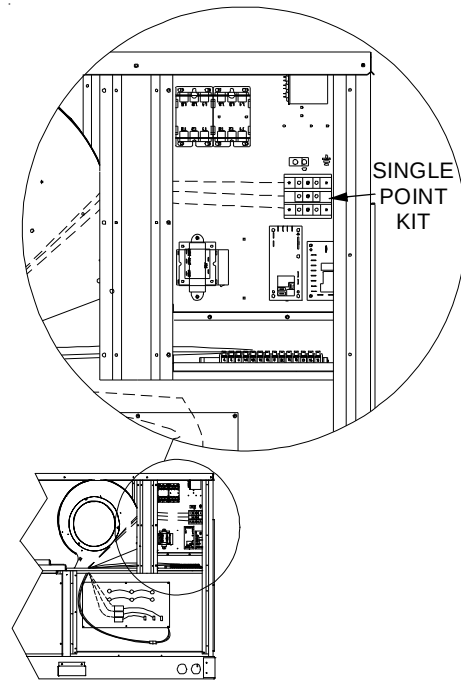


Figure 5

11. Connect EHK wires to the single point wire kit as shown in Figure 5.
12. Locate the 9-pin harness in the unit and remove and discard the empty male plug.
13. Connect the 9-pin plug from the unit to the 9-pin plug in the heater kit.

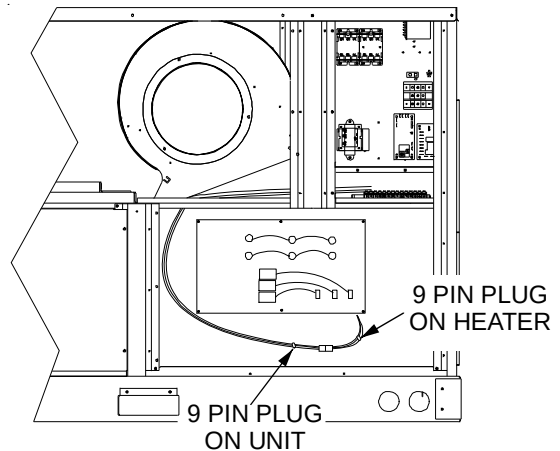


Figure 6

14. Install control box door, blower door, and heat access door.
15. Reconnect power.
16. Use airflow tables in Appendix A ("AA" Revision) to set minimum CFM for unit. Refer to Appendix B ("AA" Revision) for appropriate minimum CFM for your heater kit. See unit literature for instructions on how to change fan CFM.
17. Test unit to ensure it is functioning properly.

“BA” REVISION INSTRUCTIONS

1. Disconnect all power to the unit, both indoor and outdoor.
2. Remove control box door.
3. Remove blower door.
4. Remove heat access door.
5. Locate heater box. Remove screws holding the heater box cover in place (Figure 7).

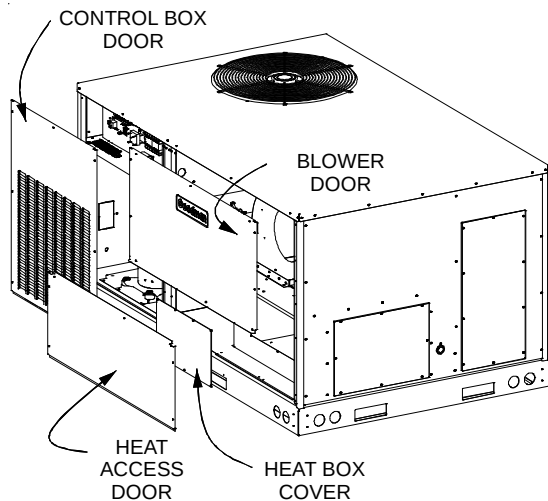


Figure 7

6. Remove EHK Heater Kit from box.
7. Install Heater Kit in opening using screws from heater box cover. Ensure the elements are positioned in the retaining bracket as shown in Figure 8. It may be necessary to remove the horizontal supply cover to observe the bracket. The heater box cover can be discarded.

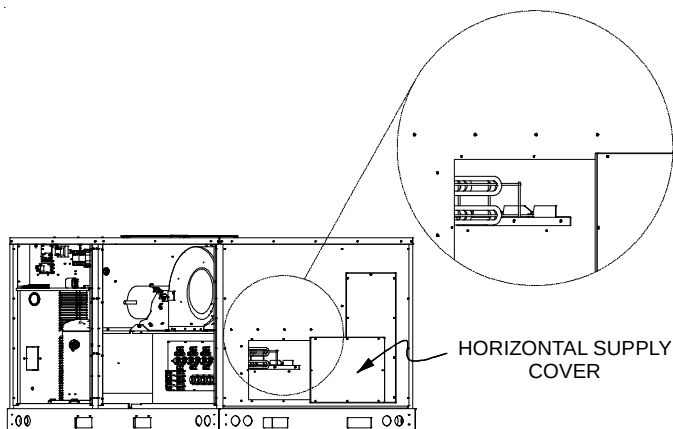


Figure 8

8. Connect power to kit.

- Install Single Point Kit SPKT01 or SPKT02 per instructions shipped with the kit.
- Remove leads from EHK box.
- Connect leads to breakers with one lead for each power leg.
- Route all leads through the blower deck and into the control box as shown in Figure 10.

- Connect the leads to the single point block with the far left lug (L1), the middle lug (L2), and the far right lug (L3). **NOTE:** Single phase kits will only have 2 lugs (L1 and L2).

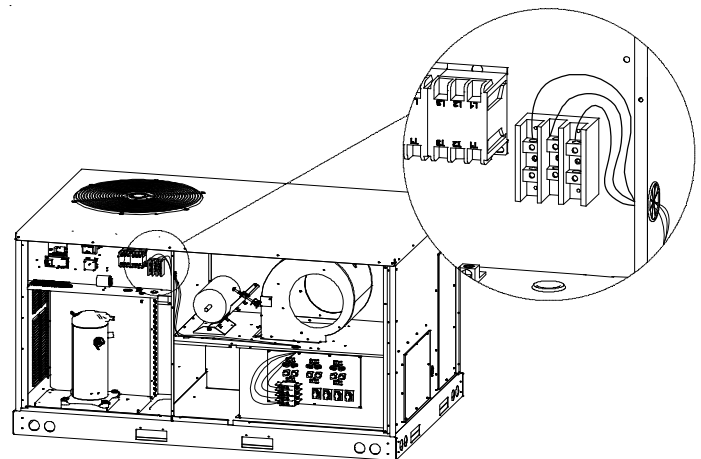


Figure 10

9. Locate 9-pin plug in unit.
10. Connect the plug to the mating 9-pin plug attached to heater kit.. See Figure 11.

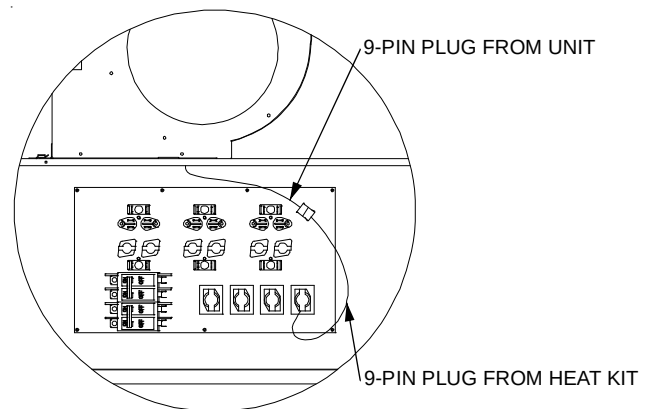


Figure 11

11. Install control box door, blower door, and heat access door.
12. Reconnect power.
13. Use airflow tables in Appendix A (“BA” Revision) to set minimum CFM for unit. Refer to Appendix B (“BA” Revision) for appropriate minimum CFM for your heater kit. See unit literature for instructions on how to change fan CFM.
14. Test unit to ensure it is functioning properly.

APPENDIX A BLOWER PERFORMANCE TABLES

“AA” REVISION DIRECT DRIVE - 3 TON

STANDARD MOTOR HORIZONTAL BLOWER PERFORMANCE
CPC036 and CPH036

STANDARD CFM	EXTERNAL STATIC PRESSURE (E.S.P.)	WATTS	RPM	SPEED
873	0.6	299	899	LOW
960	0.5	312	857	
1017	0.4	325	810	
1071	0.3	335	775	
1120	0.2	346	720	
1164	0.1	354	663	
852	0.8	344	1032	MED
1037	0.7	379	987	
1135	0.6	405	963	
1237	0.5	424	934	
1307	0.4	443	904	
1365	0.3	461	869	
1422	0.2	477	834	
1469	0.1	494	792	
855	0.9	406	1081	HIGH
1096	0.8	452	1045	
1219	0.7	478	1022	
1299	0.6	499	999	
1396	0.5	526	981	
1487	0.4	547	957	
1552	0.3	566	934	

STANDARD MOTOR DOWN SHOT BLOWER PERFORMANCE
CPC036 and CPH036

STANDARD CFM	EXTERNAL STATIC PRESSURE (E.S.P.)	WATTS	RPM	SPEED
878	0.6	300	892	LOW
979	0.5	320	839	
1023	0.4	330	792	
1088	0.3	340	745	
1144	0.2	350	692	
1207	0.1	353	639	
925	0.8	362	1011	MED
1057	0.7	391	975	
1164	0.6	416	943	
1251	0.5	434	914	
1324	0.4	450	881	
1402	0.3	471	851	
815	0.9	403	1070	HIGH
1072	0.8	453	1040	
1225	0.7	486	1011	
1330	0.6	509	987	
1429	0.5	533	966	

NOTES:

Tables represent dry coil without filter, to compensate for filter add 0.08" to measured E.S.P.

SCFM correction for wet coil = 4 %.

3 Ton models are shipped from the factory with speed tap set on LOW.

APPENDIX A BLOWER PERFORMANCE TABLES

“AA” REVISION DIRECT DRIVE - 4 TON

STANDARD MOTOR HORIZONTAL BLOWER PERFORMANCE
CPC048 and CPH048

STANDARD CFM	EXTERNAL STATIC PRESSURE (E.S.P.)	WATTS	RPM	SPEED
1307	0.7	508	980	MED
1404	0.6	526	954	
1495	0.5	550	925	
1577	0.4	578	898	
1659	0.3	596	865	
1711	0.2	541	832	
1771	0.1	558	804	
1285	0.8	586	1035	HIGH
1448	0.7	620	1008	
1551	0.6	648	992	
1662	0.5	672	970	
1705	0.4	688	947	
1818	0.3	724	926	
1867	0.2	734	903	

STANDARD MOTOR DOWN SHOT BLOWER PERFORMANCE
CPC048 and CPH048

STANDARD CFM	EXTERNAL STATIC PRESSURE (E.S.P.)	WATTS	RPM	SPEED
1330	0.8	466	977	MED
1468	0.7	498	947	
1581	0.6	524	915	
1679	0.5	542	881	
1756	0.4	560	841	
1811	0.3	572	808	
1854	0.2	594	780	
1305	0.9	592	1034	HIGH
1473	0.8	624	1006	
1607	0.7	652	979	
1744	0.6	682	953	
1840	0.5	704	930	
1875	0.4	724	909	

Notes

Tables represent dry coil without filter, to compensate for filter add 0.08" to measured E.S.P.

SCFM correction for wet coil = 4 %

4 Ton models are shipped from the factory with speed tap set on MED.

APPENDIX A BLOWER PERFORMANCE TABLES

“AA” REVISION DIRECT DRIVE - 5 TON

STANDARD MOTOR HORIZONTAL BLOWER PERFORMANCE
CPC060 and CPH060

STANDARD CFM	EXTERNAL STATIC PRESSURE (E.S.P.)	WATTS	RPM	SPEED TAP
730	0.9	260	920	T1
785	0.8	235	890	
850	0.7	230	850	
915	0.6	210	815	
980	0.5	205	780	
1055	0.4	200	730	
1120	0.3	185	680	
1190	0.2	175	635	
1250	0.1	150	595	
955	0.9	325	960	T2
1000	0.8	305	925	
1070	0.7	295	895	
1120	0.6	285	855	
1185	0.5	270	805	
1255	0.4	260	770	
1305	0.3	245	725	
1360	0.2	230	685	
1415	0.1	220	655	
1575	0.9	630	1065	T3
1620	0.8	620	1035	
1670	0.7	600	1010	
1750	0.6	600	975	
1780	0.5	570	940	
1835	0.4	555	920	
1870	0.3	545	890	
1900	0.2	525	865	
1950	0.1	500	830	
1605	0.9	735	1090	T4
1660	0.8	705	1055	
1690	0.7	690	1030	
1735	0.6	680	1000	
1786	0.5	665	975	
1855	0.4	650	950	
1905	0.3	640	925	
1925	0.2	635	900	
2015	0.1	600	875	
1805	0.9	800	1115	T5
1890	0.8	810	1090	
1935	0.7	800	1065	
1990	0.6	785	1040	
2020	0.5	765	1020	
2070	0.4	755	985	
2100	0.3	740	965	
2140	0.2	720	940	
2170	0.1	710	915	

STANDARD MOTOR DOWN SHOT BLOWER PERFORMANCE
CPC060 and CPH060

STANDARD CFM	EXTERNAL STATIC PRESSURE (E.S.P.)	WATTS	RPM	SPEED TAP
765	0.9	245	910	T1
820	0.8	230	870	
905	0.7	225	830	
965	0.6	215	790	
1040	0.5	200	730	
1120	0.4	180	690	
1180	0.3	175	645	
1255	0.2	160	595	
1440	0.1	180	580	
995	0.9	310	935	T2
1060	0.8	300	905	
1130	0.7	290	855	
1190	0.6	270	810	
1260	0.5	260	765	
1315	0.4	240	730	
1375	0.3	220	680	
1445	0.2	220	645	
1520	0.1	205	595	
1675	0.9	615	1020	T3
1715	0.8	590	980	
1785	0.7	580	955	
1835	0.6	560	930	
1895	0.5	540	890	
1950	0.4	530	855	
2005	0.3	510	820	
2045	0.2	490	790	
2030	0.1	470	750	
1685	0.9	690	1030	T4
1725	0.8	665	1005	
1795	0.7	665	965	
1835	0.6	640	940	
1905	0.5	635	915	
1990	0.4	600	875	
2080	0.3	590	850	
2150	0.2	565	810	
2200	0.1	545	780	
1910	0.9	810	1065	T5
1945	0.8	790	1035	
1985	0.7	775	1005	
2045	0.6	750	975	
2090	0.5	730	940	
2140	0.4	705	915	
2190	0.3	685	880	
2225	0.2	665	850	
2275	0.1	640	820	

NOTES:

Tables represent dry coil without filter, to compensate for filter add 0.08" to measured E.S.P.

SCFM correction for wet coil = 4 %.

5 Ton models are shipped from the factory with speed tap set on T4.

APPENDIX A BLOWER PERFORMANCE TABLES

“AA” REVISION BELT DRIVE - DOWN SHOT

CPC/H036 STANDARD BELT DRIVE DOWN SHOT

ESP, In H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.2																1521	717	0.27
0.3													1515	764	0.3	1356	717	0.23
0.4										1553	816	0.34	1314	764	0.24	1114	723	0.18
0.5										1366	816	0.29	1098	768	0.2			
0.6							1384	870	0.33	1094	823	0.23						
0.7				1427	923	0.38	1138	876	0.27									
0.8	1515	976	0.46	1201	923	0.32												
0.9	1272	982	0.38															
1																		

CPC/H048 STANDARD BELT DRIVE DOWN SHOT

ESP, In H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.2																		
0.3																1851	826	0.44
0.4													1872	887	0.5	1665	831	0.39
0.5													1720	887	0.45	1503	831	0.34
0.6										1767	942	0.52	1576	892	0.41			
0.7							1818	992	0.59	1564	942	0.44	1334	892	0.33			
0.8							1624	997	0.51	1340	947	0.37						
0.9				1739	1052	0.62	1423	1000	0.45									
1	1842	1101	0.72	1551	1052	0.54												
1.1	1653	1107	0.63	1316	1057	0.45												

CPC/H060 STANDARD BELT DRIVE DOWN SHOT

ESP, In H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.2													2399	951	0.691	2213	894.5	0.602
0.4										2317	1008	0.752	2172	955.5	0.647	1924	899	0.549
0.6	2627	1157	1.055	2498	1115	0.945	2310	1066	0.793	2040	1014	0.688	1868	961	0.59	1557	902	0.49
0.8	2392	1162	1.02	2215	1121	0.873	2025	1071	0.73	1752	1019	0.631	1465	964.5	0.523			
1	2154	1173	0.927	1920	1126	0.784	1665	1077	0.655									
1.2	1748	1184	0.832	1569	1135	0.705	1199	1084	0.564									
1.4	1371	1190	0.743	1077	1143	0.616												
1.6																		

NOTES:

Tables represent dry coil without filter, to compensate for filter add 0.08" to measured E.S.P.
SCFM correction for wet coil = 4 %.

APPENDIX A BLOWER PERFORMANCE TABLES

“AA” REVISION BELT DRIVE - HORIZONTAL

CPC/H036 STANDARD BELT DRIVE HORIZONTAL

ESP, In H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.2																1393	713	0.24
0.3													1406	766	0.27	1244	713	0.21
0.4										1431	820	0.31	1238	769	0.23	1045	717	0.17
0.5							1472	872	0.35	1268	822	0.27	1039	769	0.19			
0.6				1506	924	0.41	1290	874	0.31	1073	822	0.22						
0.7				1328	929	0.35	1070	875	0.25									
0.8	1386	976	0.42	1131	929	0.31												
0.9	1169	975	0.35															
1	859	981	0.27															

CPC/H048 STANDARD BELT DRIVE HORIZONTAL

ESP, In H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.2													1839	887	0.5	1706	832	0.4
0.3										1851	942	0.54	1716	887	0.45	1591	832	0.37
0.4										1730	942	0.5	1617	887	0.41	1445	837	0.32
0.5							1742	997	0.56	1631	942	0.47	1478	888	0.37			
0.6							1662	997	0.53	1477	947	0.41						
0.7				1777	1052	0.64	1519	1001	0.48									
0.8	1862	1101	0.73	1646	1052	0.58	1369	1002	0.42									
0.9	1687	1107	0.65	1491	1052	0.52												
1	1548	1107	0.59															
1.1	1397	1112	0.54															

CPC/H060 STANDARD BELT DRIVE HORIZONTAL

ESP, In H ₂ O	TURNS OPEN																	
	0			1			2			3			4			5		
	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP	CFM	RPM	BHP
0.2							2533	1058	0.841	2346	999.5	0.726	2213	950	0.643	2004	898	0.566
0.4				2451	1120	0.885	2278	1063	0.785	2154	1007	0.685	1976	955.5	0.596	1742	903	0.524
0.6	2436	1175	0.95	2227	1122	0.835	2065	1069	0.732	1899	1014	0.638	1691	961	0.548	1450	903	0.474
0.8	2236	1181	0.886	2011	1129	0.776	1839	1074	0.681	1615	1021	0.584	1331	966.5	0.49	986	909	0.423
1	2008	1187	0.822	1777	1137	0.709	1555	1079	0.613	1165	1027	0.512	851.5	972	0.429			
1.2	1746	1193	0.755	1467	1143	0.641	1128	1090	0.542	709.5	1033	0.45						
1.4				1012	1148	0.559	653	1096	0.462									
1.6																		

NOTES:

Tables represent dry coil without filter, to compensate for filter add 0.08" to measured E.S.P.
SCFM correction for wet coil = 4 %.

APPENDIX A BLOWER PERFORMANCE TABLES

“BA” REVISION DIRECT DRIVE - 3 TON

CPC/H036 DIRECT DRIVE DOWN SHOT

SPEED TAP	EXTERNAL STATIC PRESSURE (ESP) in w.c.	STANDARD CFM	AMPS	WATTS	RPM
LOW	0.10	1287	1.66	350	770
	0.20	1233	1.63	342	815
	0.30	1176	1.59	332	858
	0.40	1107	1.55	320	891
	0.50	1044	1.51	312	924
	0.60	965	1.45	296	957
MED	0.10	1476	2.08	446	866
	0.20	1421	2.03	432	885
	0.30	1334	1.96	414	918
	0.40	1255	1.90	396	945
	0.50	1180	1.84	386	971
	0.60	1085	1.78	368	990
	0.70	964	1.70	344	1023
HIGH	0.30	1455	2.31	490	962
	0.40	1367	2.25	476	984
	0.50	1277	2.16	454	1006
	0.60	1180	2.09	438	1025
	0.70	1080	2.02	418	1039
	0.80	922	1.90	386	1067

CPC/H036 DIRECT DRIVE HORIZONTAL

SPEED TAP	EXTERNAL STATIC PRESSURE (ESP) in w.c.	STANDARD CFM	AMPS	WATTS	RPM
LOW	0.10	1296	1.67	356	764
	0.20	1245	1.60	334	830
	0.30	1174	1.56	325	861
	0.40	1103	1.52	316	891
	0.50	1013	1.46	300	935
MED	0.10	1502	2.10	456	836
	0.20	1449	2.06	444	864
	0.30	1396	2.02	432	891
	0.40	1335	1.97	418	916
	0.50	1273	1.91	404	940
	0.60	1153	1.83	380	973
	0.70	996	1.71	346	1017
HIGH	0.20	1516	2.36	506	940
	0.30	1454	2.31	496	960
	0.40	1392	2.26	486	979
	0.50	1273	2.17	458	1006
	0.60	1183	2.09	441	1023
	0.70	1092	2.02	424	1039
	0.80	920	1.90	390	1067

NOTES:

Tables represent dry coil without filter, to compensate for filter add 0.08" to measured E.S.P. SCFM correction for wet coil = 4 %.

3 Ton models are shipped from the factory with speed tap set on LOW.

APPENDIX A BLOWER PERFORMANCE TABLES

“BA” REVISION DIRECT DRIVE - 4 TON

CPC/H048 DIRECT DRIVE DOWN SHOT

SPEED TAP	EXTERNAL STATIC PRESSURE (ESP) in w.c.	STANDARD CFM	AMPS	WATTS	RPM
LOW	0.10	1602	2.48	528	835
	0.20	1538	2.37	506	878
	0.30	1474	2.26	484	921
	0.40	1390	2.15	460	950
	0.50	1306	2.04	436	979
MED	0.10	1805	2.84	620	935
	0.20	1704	2.71	590	967
	0.30	1625	2.59	558	990
	0.40	1549	2.47	540	1012
	0.50	1437	2.38	516	1030
	0.60	1301	2.23	480	1050
HIGH	0.70	1158	2.09	444	1072
	0.10	1971	3.22	706	968
	0.20	1828	3.03	664	998
	0.30	1744	2.94	632	1017
	0.40	1628	2.80	606	1034
	0.50	1510	2.69	582	1050
	0.60	1402	2.57	552	1067

CPC/H048 DIRECT DRIVE HORIZONTAL

SPEED TAP	EXTERNAL STATIC PRESSURE (ESP) in w.c.	STANDARD CFM	AMPS	WATTS	RPM
LOW	0.10	1622	2.54	539	809
	0.20	1558	2.43	517	852
	0.30	1494	2.32	495	895
	0.40	1410	2.21	471	924
	0.50	1326	2.10	447	953
MED	0.10	1861	3.11	670	886
	0.20	1733	2.78	606	918
	0.30	1639	2.64	568	960
	0.40	1564	2.51	542	984
	0.50	1434	2.35	508	1017
	0.60	1320	2.25	482	1039
HIGH	0.70	1156	2.08	446	1067
	0.10	1984	3.34	734	949
	0.20	1883	3.18	694	977
	0.30	1770	3.03	654	1001
	0.40	1656	2.87	620	1027
	0.50	1540	2.76	590	1044
	0.60	1415	2.62	558	1061

NOTES:

Tables represent dry coil without filter, to compensate for filter add 0.08" to measured E.S.P. SCFM correction for wet coil = 4 %.

4 Ton models are shipped from the factory with speed tap set on MED.

APPENDIX A BLOWER PERFORMANCE TABLES

“BA” REVISION DIRECT DRIVE - 5 TON

CPC/H060 DIRECT DRIVE DOWN SHOT

SPEED TAP	EXTERNAL STATIC PRESSURE (ESP) in w.c.	STANDARD CFM	AMPS	WATTS	RPM
T1	0.10	1334	1.65	180	627
	0.20	1286	1.75	192	665
	0.30	1212	1.83	202	715
	0.40	1144	1.94	216	759
	0.50	1077	1.99	222	792
	0.60	1039	2.10	238	830
	0.70	953	2.17	248	874
	0.80	904	2.27	258	913
T2	0.90	825	2.30	266	940
	0.10	1512	2.12	240	682
	0.20	1469	2.24	254	720
	0.30	1397	2.31	264	759
	0.40	1333	2.44	282	803
	0.50	1285	2.54	296	836
	0.60	1221	2.59	304	874
	0.70	1173	2.72	322	913
T3	0.80	1118	2.77	328	946
	0.90	1049	2.90	344	984
	0.10	2053	4.27	540	869
	0.20	2014	4.39	558	896
	0.30	1999	4.60	576	929
	0.40	1947	4.68	588	957
	0.50	1897	4.79	608	989
	0.60	1857	4.87	620	1012
T4	0.70	1763	4.99	640	1050
	0.80	1741	5.06	650	1072
	0.90	1669	5.19	668	1105
	0.10	2137	4.95	634	913
	0.20	2093	5.07	652	940
	0.30	2095	5.19	670	962
	0.40	2026	5.28	682	990
	0.50	1980	5.40	698	1018
T5	0.60	1961	5.49	720	1039
	0.70	1914	5.58	732	1072
	0.80	1845	5.70	742	1100
	0.90	1766	5.69	740	1127
	0.10	2299	5.70	742	942
	0.20	2233	5.80	748	969
	0.30	2217	5.90	768	990
	0.40	2157	6.07	786	1018
	0.50	2131	6.12	804	1045
	0.60	2060	6.21	816	1073
	0.70	2015	6.30	820	1095
	0.80	1940	6.27	816	1111
	0.90	1862	6.13	790	1128

NOTES:

Tables represent dry coil without filter, to compensate for filter add 0.08" to measured E.S.P. SCFM correction for wet coil = 4 %. 5 Ton models are shipped from the factory with speed tap set on T4.

APPENDIX A BLOWER PERFORMANCE TABLES

“BA” REVISION DIRECT DRIVE - 5 TON

CPC/H060 DIRECT DRIVE HORIZONTAL

SPEED TAP	EXTERNAL STATIC PRESSURE (ESP) in w.c.	STANDARD CFM	AMPS	WATTS	RPM
T1	0.10	1355	1.57	174	599
	0.20	1281	1.66	182	651
	0.30	1235	1.76	196	693
	0.40	1168	1.81	202	726
	0.50	1118	1.94	218	775
	0.60	1049	2.03	232	819
	0.70	982	2.10	240	858
	0.80	922	2.14	246	885
	0.90	871	2.25	260	927
T2	0.10	1544	2.04	234	660
	0.20	1490	2.17	250	704
	0.30	1427	2.25	260	742
	0.40	1370	2.35	276	781
	0.50	1319	2.42	282	809
	0.60	1274	2.52	296	849
	0.70	1210	2.62	316	891
	0.80	1137	2.73	326	935
	0.90	1106	2.77	336	957
T3	0.10	2099	4.13	516	825
	0.20	2068	4.25	536	852
	0.30	2029	4.37	552	885
	0.40	1971	4.48	568	913
	0.50	1911	4.61	586	950
	0.60	1876	4.73	604	973
	0.70	1821	4.86	622	1012
	0.80	1792	4.91	630	1028
	0.90	1740	5.03	648	1067
T4	0.10	2233	4.76	608	863
	0.20	2168	4.91	628	896
	0.30	2125	5.02	640	924
	0.40	2070	5.14	660	951
	0.50	2050	5.27	678	979
	0.60	1980	5.41	696	1012
	0.70	1954	5.47	704	1034
	0.80	1893	5.60	724	1067
	0.90	1852	5.70	736	1089
T5	0.10	2322	5.44	710	904
	0.20	2294	5.55	726	934
	0.30	2254	5.68	742	958
	0.40	2201	5.80	766	990
	0.50	2147	5.93	782	1017
	0.60	2117	6.01	788	1039
	0.70	2081	6.12	808	1060
	0.80	2017	6.22	822	1094
	0.90	1932	6.10	804	1111

NOTES:

Tables represent dry coil without filter, to compensate for filter add 0.08" to measured E.S.P. SCFM correction for wet coil = 4 %.

APPENDIX A BLOWER PERFORMANCE TABLES

“BA” REVISION BELT DRIVE - DOWN SHOT

CPC/H036 STANDARD BELT DRIVE DOWN SHOT

ESP, In H ₂ O	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2									1424	0.30	1239	0.23
0.4					1520	0.39	1292	0.29	1073	0.22	779	0.14
0.6			1439	0.40	1192	0.30	944	0.21	619	0.12		
0.8	1350	0.42	1101	0.31	864	0.22						
1.0	1028	0.31	729	0.21								
1.2	675	0.20										

CPC/H048 STANDARD BELT DRIVE DOWN SHOT

ESP, In H ₂ O	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2							2129	0.64	1795	0.47	1550	0.35
0.4					1994	0.65	1701	0.49	1433	0.36	1163	0.22
0.6			1905	0.67	1606	0.50	1326	0.36	1025	0.22		
0.8	1808	0.69	1565	0.54	1216	0.36						
1.0	1473	0.55	1137	0.32								
1.2	1103	0.41										

CPC/H060 STANDARD BELT DRIVE DOWN SHOT

ESP, In H ₂ O	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2					2579	1.01	2368	0.85	2175	0.691	1961	0.55
0.4			2513	1.05	2318	0.89	2089	0.73	1906	0.59	1666	0.44
0.6	2514	1.14	2276	0.94	2045	0.77	1797	0.60	1604	0.47		
0.8	2261	1.01	2017	0.82	1760	0.63						
1.0	1989	0.87	1730	0.68								
1.2	1695	0.72										

CPC/H072 STANDARD BELT DRIVE DOWN SHOT

ESP, In H ₂ O	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2					2771	1.27	2567	1.05	2421	0.88	2220	0.71
0.4			2753	1.38	2573	1.15	2382	0.95	2186	0.77	1980	0.61
0.6	2655	1.42	2548	1.24	2360	1.02	2119	0.81	1934	0.65		
0.8	2470	1.30	2331	1.11	2111	0.89	1868	0.69				
1.0	2296	1.18	2078	0.96	1840	0.75						
1.2	2040	1.02										

NOTES:

Tables represent dry coil without filter, to compensate for filter add 0.08" to measured E.S.P.
SCFM correction for wet coil = 4 %.

APPENDIX A BLOWER PERFORMANCE TABLES

“BA” REVISION BELT DRIVE - HORIZONTAL

CPC/H036 STANDARD BELT DRIVE HORIZONTAL

ESP, In H ₂ O	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2									1658	0.35	1489	0.28
0.4							1560	0.36	1339	0.28	1129	0.21
0.6			1682	0.47	1436	0.36	1196	0.27	949	0.19		
0.8	1581	0.50	1354	0.38	1096	0.28	828	0.18				
1.0	1266	0.39	994	0.28	756	0.19						
1.2	923	0.28										

CPC/H048 STANDARD BELT DRIVE HORIZONTAL

ESP, In H ₂ O	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2									1943	0.52	1714	0.40
0.4					2187	0.72	1876	0.55	1566	0.40	1270	0.26
0.6			2044	0.72	1761	0.56	1444	0.40	1136	0.26		
0.8	1947	0.74	1704	0.59	1335	0.40						
1.0	1598	0.60	1275	0.36								
1.1	1208	0.45										

CPC/H060 STANDARD BELT DRIVE HORIZONTAL

ESP, In H ₂ O	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2									2420	0.79	2198	0.64
0.4					2605	1.02	2358	0.84	2133	0.67	1874	0.52
0.6			2526	1.06	2300	0.88	2026	0.70	1806	0.55		
0.8	2529	1.15	2252	0.93	1975	0.73	1670	0.54				
1.0	2233	0.99	1943	0.78	1628	0.57						
1.2	1907	0.83	1582	0.61								

CPC/H072 STANDARD BELT DRIVE HORIZONTAL

ESP, In H ₂ O	TURNS OPEN											
	0		1		2		3		4		5	
	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP	CFM	BHP
0.2							2784	1.30	2582	0.83	2411	0.79
0.4					2814	1.34	2620	1.19	2342	0.72	2105	0.66
0.6			2665	1.34	2583	1.19	2398	1.06	2103	0.62	1902	0.57
0.8	2689	1.38	2492	1.22	2370	1.07	2142	0.91	1816	0.51		
1.0	2438	1.22	2275	1.09	2098	0.92	1883	0.78				
1.2	2250	1.10	1996	0.92								

NOTES:

Tables represent dry coil without filter, to compensate for filter add 0.08" to measured E.S.P.
SCFM correction for wet coil = 4 %.

APPENDIX B

“AA” & “BA” REVISION

MINIMUM AIRFLOW FOR ELECTRIC HEAT

MINIMUM AIR FLOW FOR ELECTRIC HEAT - AA

UNIT	HEATER KIT MODEL NUMBER	MINIMUM CFM
3 TON	EHK*-10	1250
	EHK*-15	1400
4 TON	EHK*-10	1400
	EHK*-15	1575
	EHK*-18	1575
5 TON	EHK*-10	1750
	EHK*-15	1750
	EHK*-20	1850

MINIMUM AIR FLOW FOR ELECTRIC HEAT - BA

UNIT	HEATER KIT MODEL NUMBER	MINIMUM CFM (HORIZONTAL)
3 TON	EHK*-10	1250
	EHK*-15	1250
4 TON	EHK*-10	1300
	EHK*-15	1400
	EHK*-18	1400
5 TON	EHK*-10	1700
	EHK*-15	1700
	EHK*-20	1800
6 TON	EHK*-10	2100
	EHK*-15	2100
	EHK*-20	2100
	EHK*-25	2100



ATTENTION INSTALLING PERSONNEL

Use only the heater kit specified for each model as dictated by the table above.

