Ruud Commercial Air Handler

RHCLA Series

Nominal Sizes 7.5, 10, 12.5, 15 & 20 Tons
[26.4, 35.2, 44, 52.8 & 70.3 kW]

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CABINET—The pre-painted, sheet-metal cabinet uses 18-gauge material for structural components with an underlying coat of G60 electro deposition powder coating that is tested to withstand a rigorous 500-hour salt spray test, per ASTM B117.

MOTOR—Inherently protected motors are mounted inside of insulated cabinet to reduce motor noise. A choice of motor horsepowers and drive combinations are available to allow you to meet specified CFM at various static pressures up to 2" [.498 kPa] external static pressure.

LOW PROFILE—Allows for horizontal installation in most standard drop ceiling applications, and the movement of units through most standard doorways for addition or replacement work.

THERMAL EXPANSION VALVES—Standard all models.

FILTERS—One inch [25 mm] throwaway filters are standard, but filter racks are designed to accept either one inch [25 mm] or two inch [51 mm] filters. MERV 13 & MERV 8 filters are available as an accessory.

EVAPORATOR COIL—Two circuit, interlaced row split coils are constructed with copper tubes and aluminum fins mechanically bonded to the tubes for maximum heat transfer capabilities. All coil assemblies are leak tested up to 450 PSIG [3100 kPa] internal pressure prior to installation into units.

VARIABLE FREQUENCY DRIVE—Provides 2-stage airflow for improved part load efficiency. Meets California Title 24 requirements.

REFRIGERANT CONNECTIONS—Field piping connections are made through a fixed post between two side access panels on either side of the unit. Allows flexibility to meet most field conditions as well as full accessibility after the installation is complete. Units may be used with two straight cool condensing units or single circuit manifolded in the field using the copper fittings shipped with each unit.

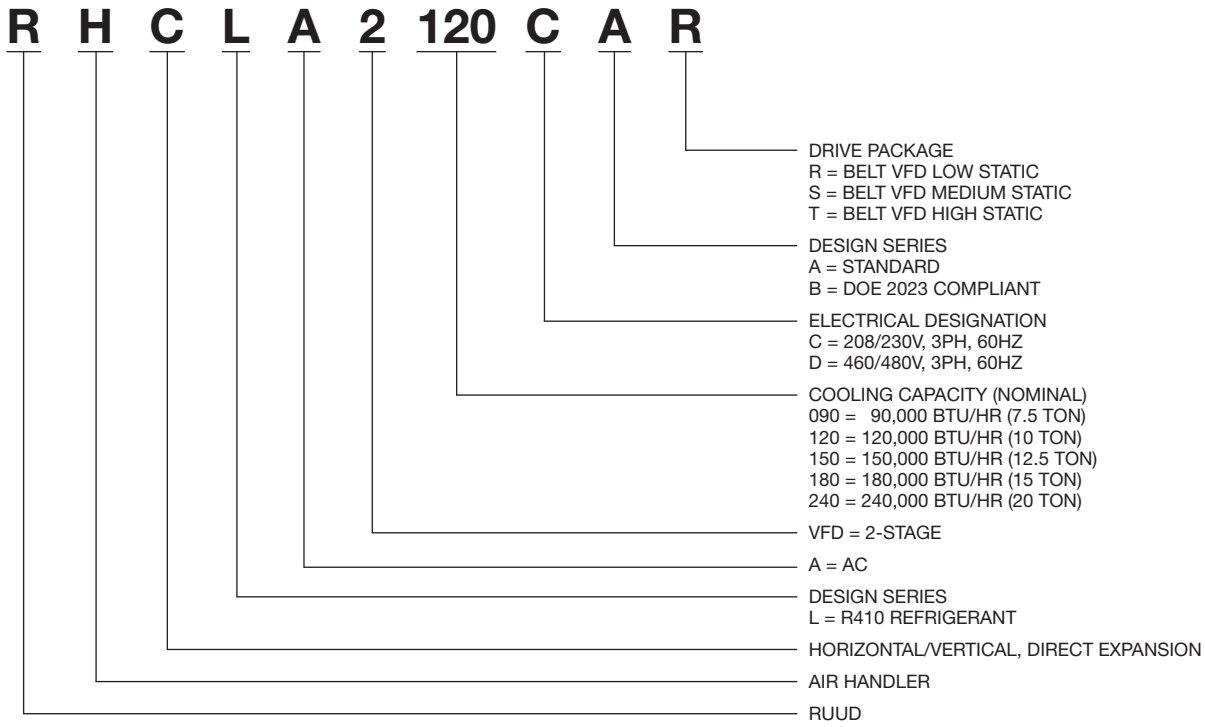
DRAIN PAN—The galvanized steel drain pan is designed to trap condensate in either vertical or horizontal installations. Condensate drain connections are located on both sides of the unit allowing complete flexibility to meet most field conditions.

SERVICE ACCESS—Two removable panels on top and each side of the unit are easily removed for access to motors, blowers, sheaves, and filters.

HORIZONTAL OR VERTICAL—All models are designed for either application and can be installed in either position as supplied from the factory.

TESTING—All units are run tested at the factory prior to shipment. Units are shipped with a holding charge of nitrogen.

[ ] Designates Metric Conversions



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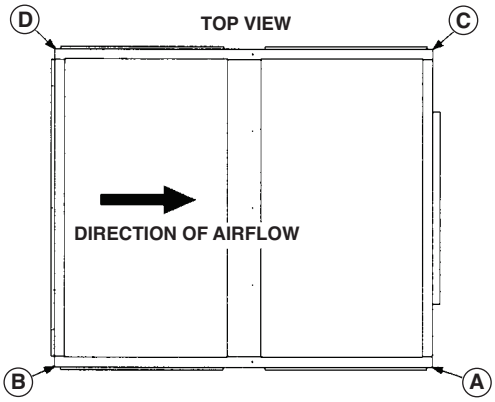


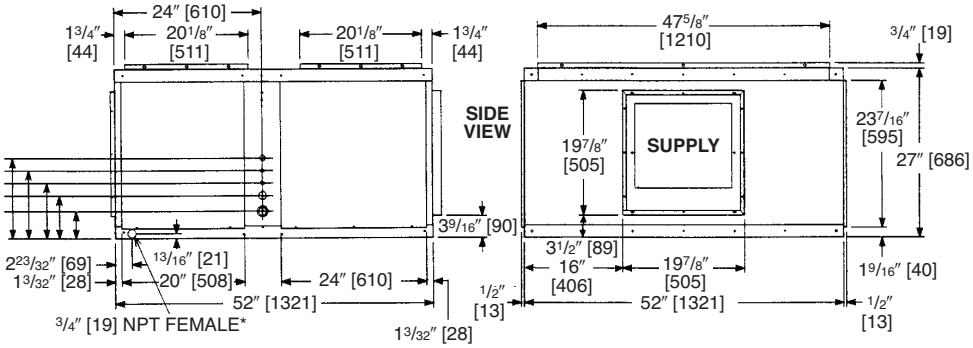
RETURN AIR OPENINGS = 47 3/8″ [1203] x 19 7/8″ [505] HEIGHT

RHCLA LBS. [kg] 7.5 AND 10 NOMINAL TONS [26.4 AND 35.2 kW]

REFRIGERANT STUB SIZES, IN. [mm]				
MODEL	DUAL LIQ.	DUAL SUC.	SINGLE LIQ.	SINGLE SUC.
090	1/2, 1/2 [13, 13]	7/8, 7/8 [22, 22]	1/2 [13]	1 1/8 [29]
120	1/2, 1/2 [13, 13]	7/8, 7/8 [22, 22]	5/8 [16]	1 3/8 [35]

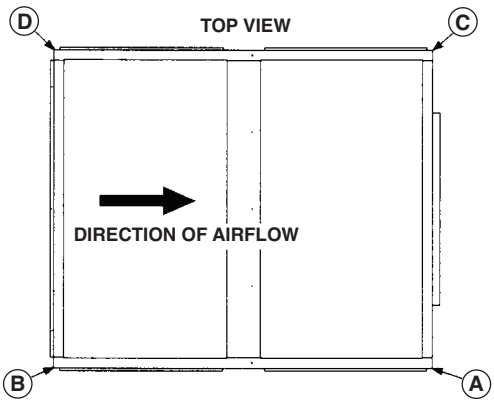
MODEL	CORNER WEIGHTS LBS. [kg]				TOTAL WEIGHT	GROSS WEIGHT
	A	B	C	D		
090	127 [57]	57 [25]	50 [22]	131 [59]	365 [165]	409 [185]
120	127 [57]	57 [25]	50 [22]	131 [59]	365 [165]	409 [185]

KNOCK-OUTS BOTH SIDES	
7/8″ [22]	12 13/16″ [325]
5/8″ [16]	10 13/16″ [275]
5/8″ [16]	8 13/16″ [224]
1 1/4″ [32]	6 13/16″ [173]
1 1/4″ x 1 3/4″ [32 x 44]	4 5/16″ [110]



*Drain connections are provided on both sides of the drain pan. The drain can be connected to either side of the drain pan, but not both. The drain must be trapped.

[ ] Designates Metric Conversions



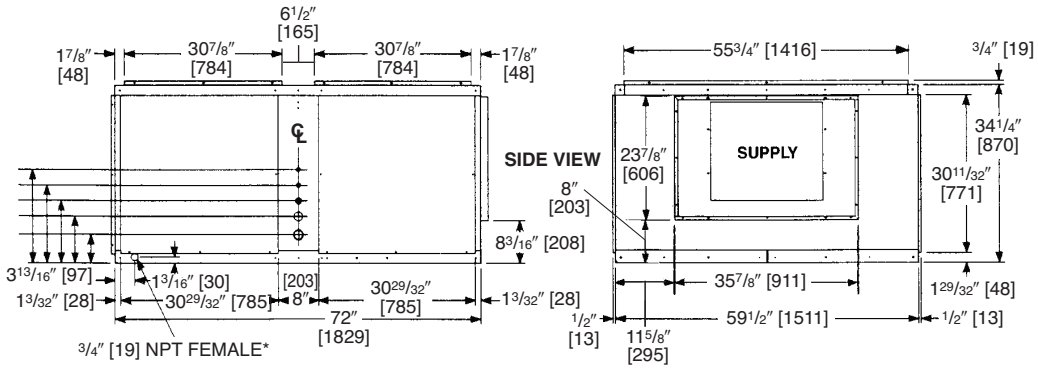
RETURN AIR OPENINGS = 55 1/2″ [1410] x 30 9/16″ [776] HEIGHT

RHCLA LBS. [kg]
12.5, 15 & 20 NOMINAL TONS
[44 & 70.3 kW]

REFRIGERANT STUB SIZES, IN. [mm]				
MODEL	DUAL LIQ.	DUAL SUC.	SINGLE LIQ.	SINGLE SUC.
150	1/2, 1/2 [13, 13]	1 1/8, 1 1/8 [29, 29]	5/8 [16]	1 5/8 [41]
180	5/8, 5/8 [16, 16]	1 3/8, 1 3/8 [35, 35]	7/8 [22]	1 5/8 [41]
240	5/8, 5/8 [16, 16]	1 3/8, 1 3/8 [35, 35]	7/8 [22]	1 5/8 [41]

MODEL	CORNER WEIGHTS LBS. [kg]				GROSS WEIGHT
	A	B	C	D	
150	144 [65]	127 [58]	117 [53]	105 [48]	495 [225]
180	159 [72]	142 [64]	129 [59]	115 [52]	545 [247]
240	159 [72]	142 [64]	129 [59]	115 [52]	545 [247]

KNOCK-OUTS BOTH SIDES	
7/8″ [22]	18″ [457]
7/8″ [22]	15″ [381]
7/8″ x 1 1/4″ [22 x32]	12″ [305]
1 3/4″ [44]	9″ [229]
1 3/4″ x 2″ [44 x 51]	5 1/2″ [140]



*Drain connections are provided on both sides of the drain pan. The drain can be connected to either side of the drain pan, but not both. The drain must be trapped.

[ ] Designates Metric Conversions

		RHCLA2				
Cooling Size		090	120	150	180	240
Nominal size (tons)		7-1/2	10	12-1/2	15	20
Nominal CFM @ Rated E.S.P. (2nd Stage)		3000 @ .25”	4000 @ .30”	4785 @ .35"	6000 @ .35"	8000 @.40
# of Blower Speeds		2	2	2	2	2
1st Stage Blower RPM %		66%	66%	66%	66%	66%
MOTOR HORSEPOWER	Standard—1750 RPM 3 phase	2 HP	2 HP	2 HP	2HP	5 HP
	Optional—1750 RPM 3 phase	2 HP, 3 HP	2 HP, 3 HP	2 HP, 3 HP, 5Hp	2 HP, 3 HP, 5Hp	5 HP, 7.5 HP
Blower Size—diameter x width		12 X 12	12 X 12	18 x 15	18 x 18	18 x 18
Blower Shaft Diameter		3/4	3/4	1	1	1
Motor Sheave	1750 RPM 3 phase	1VP50	4.4 - 5.0	Belt	1VL44 7/8"	1VP56 1-1/8"
Belt Type & Size Std.		A-50	V-54	0	B52	B50
Coil Face Area (sq. ft.)		10.2	10.2	16.2	16.5	16.5
Coil Tube Diameter		3/8	3/8	3/8	3/8	3/8
Coil, Rows Deep-Fins Per Inch		4/15	4/15	3	4	4
T.X. Valve Refrigerant Control		(2) BBIZE-5-GA	(2) BBIZE-5-GA	(2) BBIZE-6-GA @98	(2) BBIZE-6-GA @84	(2) BBIZE-8-GA
Filter Size (std.)* No. Req’d		(4) 16 X 25 X 1	(4) 16 X 25 X 1	(6) 20 X 25 X 1	(6) 20 X 25 X 1	(6) 20 X 25 X 1
CABINET:						
Finish		Prepaint	Prepaint	Prepaint	Prepaint	Prepaint
Sheet Metal		Galvanized	Galvanized	Galvanized	Galvanized	Galvanized
Gauge: Top		18	18	18	18	18
Sides		16	16	16	16	16
Bottom		18	18	18	18	18
Door and Covers		20 min.	20 min.	20 min.	20 min.	20 min.
UNIT WEIGHTS:						
Operating	R - Drive	330	347	446	486	545
	S - Drive	330	347	446	492	595
	T - Drive	341	358	446	530	645
Shipping	R - Drive	396	413	481	521	580
	S - Drive	396	413	481	527	630
	T - Drive	407	435	481	565	680
OPTIONAL ACCESORIES WEIGHTS:						
Hot Water Coils		200	200	200	200	200
Steam Heating Coils		200	200	200	200	200

AIRFLOW PERFORMANCE RHCLA2090 — 7.5 TON [26.4 kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	(-)HCLP2090 Voltage 208/230 — 3 phase 60 Hz																																					
	External Static Pressure—Inches of Water [kPa]																																						
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
2400 [1133]	—	—	626	590	673	644	720	696	767	745	803	792	843	854	883	915	921	976	959	1036	995	1095	1004	1103	1035	1157	1066	1212	1096	1268	1126	1327	1156	1387	1185	1449	1214	1513	1237	1497
2500 [1180]	—	—	641	634	688	688	734	741	780	790	815	835	855	898	893	961	931	1023	968	1084	1004	1145	1013	1162	1044	1219	1075	1277	1105	1337	1135	1399	1164	1463	1193	1528	1222	1595	1246	1582
2600 [1227]	—	—	657	680	703	736	748	788	793	838	828	883	867	948	904	1012	941	1075	977	1138	1012	1200	1023	1226	1054	1286	1084	1347	1114	1411	1144	1476	1173	1542	1202	1611	1230	1681	1256	1672
2700 [1274]	628	671	673	730	718	786	763	839	806	890	840	936	878	1003	915	1068	951	1133	987	1197	1001	1233	1033	1294	1063	1357	1094	1422	1124	1489	1153	1557	1182	1627	1210	1699	1242	1717	1266	1767
2800 [1321]	645	724	690	783	734	839	778	893	815	926	853	995	890	1063	927	1130	962	1196	996	1261	1012	1302	1043	1367	1073	1433	1103	1501	1133	1571	1162	1643	1191	1716	1219	1791	1252	1814	1276	1867
2900 [1368]	663	779	707	839	750	896	793	951	829	989	866	1059	903	1128	938	1196	973	1264	1006	1331	1022	1376	1053	1444	1083	1514	1113	1585	1142	1658	1172	1733	1200	1810	1228	1888	1262	1914	1286	1970
3000 [1416]	682	838	725	898	767	956	806	985	843	1057	879	1128	915	1199	950	1269	983	1338	1016	1406	1032	1455	1063	1526	1093	1599	1123	1674	1152	1750	1181	1828	1209	1908	1248	1959	1272	2020	1296	2079
3100 [1463]	701	900	743	961	784	1019	820	1056	857	1130	893	1203	928	1275	961	1346	994	1416	1012	1466	1043	1539	1074	1613	1104	1689	1133	1767	1162	1847	1191	1928	1219	2011	1258	2066	1282	2130	1306	2192
3200 [1510]	720	965	761	1026	802	1085	836	1133	871	1208	906	1283	940	1356	973	1429	1005	1500	1023	1551	1054	1627	1084	1705	1114	1784	1143	1865	1172	1948	1201	2033	1229	2119	1268	2177	1293	2244	1316	2310
3300 [1557]	740	1033	780	1095	815	1139	851	1216	886	1292	920	1368	953	1442	985	1516	1017	1590	1035	1640	1065	1720	1095	1801	1125	1883	1154	1968	1182	2054	1211	2142	1254	2222	1279	2293	1303	2363	1326	2432
3400 [1604]	760	1104	799	1167	831	1225	866	1303	900	1381	934	1458	966	1534	998	1610	1015	1654	1046	1735	1076	1817	1106	1901	1135	1987	1164	2075	1193	2164	1221	2255	1265	2339	1290	2413	1314	2487	—	—
3500 [1652]	781	1179	812	1236	847	1316	882	1396	915	1475	948	1554	979	1631	1010	1708	1027	1749	1057	1833	1088	1919	1117	2006	1146	2096	1175	2187	1203	2279	1250	2382	1276	2461	1300	2538	1324	2615	—	—
4000 [1888]	868	1677	900	1766	931	1853	962	1940	991	2026	997	2006	1028	2101	1058	2198	1088	2296	1118	2397	1147	2499	1175	2602	1204	2708	1186	2303	1214	2399	1261	2505	1287	2587	1311	2668	—	—	—	—

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE		
				Wet Coil	MERV 8 Filter	MERV 13 Filter
	Total MBH	Sensible MBH	Power kW	Resistance Inches of Water [kPa]	Resistance Inches of Water	Resistance Inches of Water
2400 [1133]	0.93	0.73	0.96	0.04 [.01]	0.153	0.157
2500 [1180]	0.93	0.74	0.96	0.05 [.01]	0.164	0.168
2600 [1227]	0.94	0.76	0.97	0.05 [.01]	0.175	0.179
2700 [1274]	0.94	0.78	0.97	0.05 [.01]	0.186	0.189
2800 [1321]	0.95	0.80	0.97	0.05 [.01]	0.198	0.200
2900 [1368]	0.95	0.81	0.97	0.06 [.01]	0.209	0.211
3000 [1416]	0.95	0.83	0.98	0.06 [.01]	0.220	0.221
3100 [1463]	0.96	0.85	0.98	0.06 [.01]	0.231	0.232
3200 [1510]	0.96	0.87	0.98	0.06 [.01]	0.242	0.243
3300 [1557]	0.97	0.88	0.99	0.07 [.02]	0.253	0.254
3400 [1604]	0.97	0.90	0.99	0.07 [.02]	0.264	0.264
3500 [1652]	0.98	0.92	0.99	0.07 [.02]	0.276	0.275
3600 [1699]	0.98	0.93	0.99	0.08 [.02]	0.287	0.286
3700 [1746]	0.99	0.95	1.00	0.08 [.02]	0.298	0.296
3800 [1793]	0.99	0.97	1.00	0.08 [.02]	0.309	0.307
3900 [1840]	1.00	0.99	1.00	0.08 [.02]	0.320	0.318
4000 [1888]	1.00	1.00	1.01	0.09 [.02]	0.331	0.329

* Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE — 10 TON [26.4 kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	(-)HCLA2120 Voltage 208/230 — 3 phase 60 Hz																																					
	External Static Pressure—Inches of Water [kPa]																																					
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
2400 [1133]	—	—	626	590	673	644	720	696	767	745	803	792	843	854	883	915	921	976	959	1036	995	1095	1004	1103	1035	1157	1066	1212	1096	1268	1126	1327	1156	1387	1185	1449	1214	1513	1237	1497
2500 [1180]	—	—	641	634	688	688	734	741	780	790	815	835	855	898	893	961	931	1023	968	1084	1004	1145	1013	1162	1044	1219	1075	1277	1105	1337	1135	1399	1164	1463	1193	1528	1222	1595	1246	1582
2600 [1227]	—	—	657	680	703	736	748	788	793	838	828	883	867	948	904	1012	941	1075	977	1138	1012	1200	1023	1226	1054	1286	1084	1347	1114	1411	1144	1476	1173	1542	1202	1611	1230	1681	1256	1672
2700 [1274]	628	671	673	730	718	786	763	839	806	890	840	936	878	1003	915	1068	951	1133	987	1197	1001	1233	1033	1294	1063	1357	1094	1422	1124	1489	1153	1557	1182	1627	1210	1699	1242	1717	1266	1767
2800 [1321]	645	724	690	783	734	839	778	893	815	926	853	995	890	1063	927	1130	962	1196	996	1261	1012	1302	1043	1367	1073	1433	1103	1501	1133	1571	1162	1643	1191	1716	1219	1791	1252	1814	1276	1867
2900 [1368]	663	779	707	839	750	896	793	951	829	989	866	1059	903	1128	938	1196	973	1264	1006	1331	1022	1376	1053	1444	1083	1514	1113	1585	1142	1658	1172	1733	1200	1810	1228	1888	1262	1914	1286	1970
3000 [1416]	682	838	725	898	767	956	806	985	843	1057	879	1128	915	1199	950	1269	983	1338	1016	1406	1032	1455	1063	1526	1093	1599	1123	1674	1152	1750	1181	1828	1209	1908	1248	1959	1272	2020	1296	2079
3100 [1463]	701	900	743	961	784	1019	820	1056	857	1130	893	1203	928	1275	961	1346	994	1416	1012	1466	1043	1539	1074	1613	1104	1689	1133	1767	1162	1847	1191	1928	1219	2011	1258	2066	1282	2130	1306	2192
3200 [1510]	720	965	761	1026	802	1085	836	1133	871	1208	906	1283	940	1356	973	1429	1005	1500	1023	1551	1054	1627	1084	1705	1114	1784	1143	1865	1172	1948	1201	2033	1229	2119	1268	2177	1293	2244	1316	2310
3300 [1557]	740	1033	780	1095	815	1139	851	1216	886	1292	920	1368	953	1442	985	1516	1017	1590	1035	1640	1065	1720	1095	1801	1125	1883	1154	1968	1182	2054	1211	2142	1254	2222	1279	2293	1303	2363	1326	2432
3400 [1604]	760	1104	799	1167	831	1225	866	1303	900	1381	934	1458	966	1534	998	1610	1015	1654	1046	1735	1076	1817	1106	1901	1135	1987	1164	2075	1193	2164	1221	2255	1265	2339	1290	2413	1314	2487	—	—
3500 [1652]	781	1179	812	1236	847	1316	882	1396	915	1475	948	1554	979	1631	1010	1708	1027	1749	1057	1833	1088	1919	1117	2006	1146	2096	1175	2187	1203	2279	1250	2382	1276	2461	1300	2538	1324	2615	—	—
4000 [1888]	868	1677	900	1766	931	1853	962	1940	991	2026	997	2006	1028	2101	1058	2198	1088	2296	1118	2397	1147	2499	1175	2602	1204	2708	1186	2303	1214	2399	1261	2505	1287	2587	1311	2668	—	—	—	—

Drive Package	R						S						T						U - Field Installed					
Motor H.P. [W]	2.0 [1491.4]						2.0 [1491.4]						3 [2237.1]						3 [2237.1]					
Blower Sheave	AK104						AK71H						AK59						AK79					
Motor Sheave	1VP50						1VL-44						1VL-44						1VP-65					
Belt	A50						A44						A42						A48					
Turns Open	0	**1**	2	3	4	5	0	1	2	3	4	**5**	0	1	2	3	4	**5**	0	1	2	3	4	**5**
RPM	801	**768**	732	696	662	627	998	955	911	865	819	**773**	1220	1164	1109	1049	990	**926**	1322	1280	1240	1197	1153	**1109**

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[ ] Designates Metric Conversions

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE		
				Wet Coil	MERV 8 Filter	MERV 13 Filter
	Total MBH	Sensible MBH	Power kW	Resistance Inches of Water [kPa]	Resistance Inches of Water	Resistance Inches of Water
2400 [1133]	0.93	0.73	0.96	0.04 [.01]	0.153	0.157
2500 [1180]	0.93	0.74	0.96	0.05 [.01]	0.164	0.168
2600 [1227]	0.94	0.76	0.97	0.05 [.01]	0.175	0.179
2700 [1274]	0.94	0.78	0.97	0.05 [.01]	0.186	0.189
2800 [1321]	0.95	0.80	0.97	0.05 [.01]	0.198	0.200
2900 [1368]	0.95	0.81	0.97	0.06 [.01]	0.209	0.211
3000 [1416]	0.95	0.83	0.98	0.06 [.01]	0.220	0.221
3100 [1463]	0.96	0.85	0.98	0.06 [.01]	0.231	0.232
3200 [1510]	0.96	0.87	0.98	0.06 [.01]	0.242	0.243
3300 [1557]	0.97	0.88	0.99	0.07 [.02]	0.253	0.254
3400 [1604]	0.97	0.90	0.99	0.07 [.02]	0.264	0.264
3500 [1652]	0.98	0.92	0.99	0.07 [.02]	0.276	0.275
3600 [1699]	0.98	0.93	0.99	0.08 [.02]	0.287	0.286
3700 [1746]	0.99	0.95	1.00	0.08 [.02]	0.298	0.296
3800 [1793]	0.99	0.97	1.00	0.08 [.02]	0.309	0.307
3900 [1840]	1.00	0.99	1.00	0.08 [.02]	0.320	0.318
4000 [1888]	1.00	1.00	1.01	0.09 [.02]	0.331	0.329

* Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE — 12.5 TON [44 kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	(-)HCLA2150 Voltage 208/230, 460 — 3 phase 60 Hz																																					
	External Static Pressure—Inches of Water [kPa]																																					
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
3500 [1652]	387	884	413	870	440	868	468	880	496	904	526	941	556	991	587	1054	618	1130	651	1219	672	1385	699	1473	727	1565	748	1599	773	1704	799	1818	826	1939	853	2068	881	2205	856	2011
3700 [1746]	398	903	423	895	450	900	477	918	505	948	533	992	563	1049	593	1119	624	1201	656	1297	675	1443	702	1533	730	1628	750	1643	775	1751	800	1868	827	1992	854	2124	882	2264	860	2024
3900 [1840]	409	931	434	929	459	941	486	965	513	1003	541	1053	570	1116	600	1193	630	1282	653	1423	679	1510	706	1603	733	1701	752	1699	777	1810	802	1929	829	2056	856	2191	883	2334	865	2047
4100 [1935]	420	969	445	974	470	992	496	1023	522	1067	550	1124	578	1194	607	1277	637	1372	658	1498	684	1588	710	1684	736	1784	755	1766	780	1880	805	2002	831	2132	857	2270	839	1955	869	2080
4300 [2029]	432	1017	456	1029	480	1053	506	1091	532	1141	559	1205	586	1281	615	1371	644	1473	664	1584	689	1676	714	1774	740	1878	759	1844	783	1961	808	2086	834	2219	860	2360	844	1997	873	2124
4500 [2123]	444	1075	468	1093	491	1124	516	1169	542	1226	568	1296	595	1379	623	1474	651	1583	670	1679	695	1775	719	1875	745	1981	763	1934	787	2054	811	2181	837	2317	863	2461	849	2049	877	2179
4700 [2218]	457	1143	480	1168	503	1205	527	1256	552	1320	578	1396	604	1486	631	1588	653	1692	677	1785	701	1883	725	1986	750	2095	767	2035	791	2158	815	2288	840	2427	866	2573	854	2112	882	2244
4900 [2312]	470	1221	492	1252	515	1296	538	1354	563	1424	588	1507	613	1603	640	1712	661	1805	684	1901	707	2001	731	2107	750	2030	772	2147	796	2273	820	2406	845	2548	870	2697	859	2185	886	2320
5100 [2407]	484	1308	505	1346	527	1397	550	1461	574	1538	598	1627	623	1730	649	1846	669	1929	691	2026	714	2130	738	2238	756	2151	778	2271	801	2399	825	2536	849	2680	875	2832	864	2269	891	2406
5300 [2501]	497	1406	518	1451	540	1508	562	1578	585	1662	609	1758	633	1867	659	1989	677	2062	699	2162	722	2268	745	2379	762	2283	784	2406	807	2537	830	2677	855	2824	880	2979	869	2363	896	2503
5500 [2595]	512	1514	532	1565	553	1629	574	1706	597	1795	620	1898	644	2014	665	2108	686	2205	708	2308	730	2417	752	2530	769	2426	791	2553	813	2687	836	2829	860	2979	849	2332	875	2468	901	2610
5700 [2690]	526	1631	546	1689	566	1759	587	1843	609	1939	631	2048	655	2171	676	2259	696	2359	717	2465	738	2575	756	2460	776	2581	798	2710	820	2847	843	2992	867	3145	855	2445	880	2583	905	2728
5900 [2784]	541	1758	560	1823	580	1900	600	1990	621	2093	643	2209	667	2322	686	2420	706	2523	727	2631	747	2744	764	2624	784	2748	805	2880	827	3019	850	3167	873	3323	861	2568	886	2709	910	2857

Drive Package	R						S						T						U - Field Installed					
Motor H.P. [W]	2.0 [1491.4]						3.0 [1491.4]						5 [2237.1]						5 [2237.1]					
Blower Sheave	BK120SP 1"						BK120SP 1"						BK100SP 1"						BK105SP 1"					
Motor Sheave	1VP44 7/8"						1VP50 7/8"						1VL-50 1-1/8"						1VL-60 1-1/8"					
Belt	A52						A52						BK46"						B48					
Turns Open	0	1	2	3	4	**5**	0	1	2	3	4	**5**	0	1	2	3	4	**5**	0	1	2	3	4	**5**
RPM	650	630	606	579	551	**522**	746	723	699	670	644	**617**	877	840	803	766	730	**694**	1322	1280	1240	1197	1153	**1109**

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[ ] Designates Metric Conversions

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE		
				Wet Coil	MERV 8 Filter	MERV 13 Filter
	Total MBH	Sensible MBH	Power kW	Resistance Inches of Water [kPa]	Resistance Inches of Water	Resistance Inches of Water
3500 [1652]	0.98	0.92	0.99	0.07 [.02]	0.091	0.098
3600 [1699]	0.98	0.93	0.99	0.08 [.02]	0.097	0.103
3700 [1746]	0.99	0.95	1.00	0.08 [.02]	0.103	0.109
3800 [1793]	0.99	0.97	1.00	0.08 [.02]	0.109	0.115
3900 [1840]	1.00	0.99	1.00	0.08 [.02]	0.115	0.121
4000 [1888]	1.00	1.00	1.01	0.09 [.02]	0.121	0.127
4100 [1935]	1.00	1.02	1.01	0.09 [.02]	0.127	0.132
4200 [1982]	1.01	1.04	1.01	0.09 [.02]	0.133	0.138
4300 [2029]	1.01	1.06	1.01	0.10 [.02]	0.139	0.144
4400 [2076]	1.02	1.07	1.02	0.10 [.02]	0.145	0.150
4500 [2123]	1.02	1.09	1.02	0.10 [.02]	0.151	0.156
4600 [2171]	1.03	1.11	1.02	0.10 [.02]	0.157	0.161
4700 [2218]	1.03	1.12	1.03	0.11 [.03]	0.163	0.167
4800 [2265]	1.04	1.14	1.03	0.11 [.03]	0.169	0.173
4900 [2312]	1.04	1.16	1.03	0.11 [.03]	0.175	0.179
5000 [2359]	1.05	1.18	1.03	0.12 [.03]	0.181	0.185
5100 [2407]	1.05	1.19	1.04	0.12 [.03]	0.188	0.190

* Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE — 15 TON [52.7 kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	Model (-)HCLA2180 Voltage 208/230, 460 — 3 phase 60 Hz																																			
	External Static Pressure—Inches of Water [kPa]																																			
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
4750 [2241]	—	—	—	—	—	—	537	1312	561	1382	585	1465	610	1559	636	1665	662	1782	681	1823	703	1910	724	2003	744	2101	770	2148	791	2231	812	2316	833	2402	853	2488	872	2576	892	2664
4850 [2289]	—	—	—	—	—	—	542	1362	566	1436	590	1522	615	1620	640	1730	663	1797	685	1883	706	1973	727	2069	747	2169	774	2207	795	2292	815	2379	835	2466	855	2554	874	2643	894	2734
4950 [2336]	—	—	—	—	525	1348	548	1414	572	1492	596	1582	620	1683	645	1797	667	1857	688	1945	710	2038	730	2136	751	2239	777	2268	798	2356	818	2444	838	2533	858	2623	877	2714	896	2806
5050 [2383]	—	—	—	—	531	1399	554	1469	577	1551	601	1644	625	1749	650	1866	671	1919	692	2010	713	2105	734	2205	754	2311	781	2333	801	2422	821	2512	841	2603	860	2694	879	2787	898	2881
5150 [2430]	—	—	—	—	537	1452	559	1526	583	1611	606	1708	631	1817	655	1938	675	1983	696	2076	717	2174	738	2277	764	2310	784	2399	804	2490	824	2582	844	2675	863	2768	882	2863	900	2958
5250 [2477]	—	—	—	—	543	1508	565	1585	588	1674	612	1775	636	1887	661	2011	679	2049	700	2145	721	2245	741	2351	767	2377	788	2469	808	2561	827	2655	847	2749	866	2845	884	2941	902	3038
5350 [2525]	—	—	527	1497	549	1566	571	1647	594	1740	618	1844	642	1960	662	2024	684	2117	705	2215	725	2318	745	2426	771	2447	791	2541	811	2635	831	2730	850	2827	868	2924	887	3022	905	3121
5450 [2572]	—	—	534	1553	555	1626	578	1711	600	1807	624	1915	647	2035	667	2091	688	2187	709	2288	729	2394	749	2504	775	2520	795	2615	815	2711	834	2809	853	2906	871	3005	889	3105	907	3206
5550 [2619]	—	—	540	1612	562	1689	584	1777	607	1877	630	1988	653	2112	672	2161	693	2260	713	2363	733	2471	753	2584	779	2595	799	2692	818	2790	837	2889	856	2989	874	3089	892	3191	—	—
5650 [2666]	526	1605	547	1673	569	1753	590	1845	613	1949	636	2064	659	2191	677	2233	697	2334	718	2440	737	2550	763	2576	783	2673	803	2772	822	2872	841	2972	859	3074	877	3176	895	3279	—	—
5750 [2713]	533	1664	554	1736	575	1820	597	1916	619	2023	642	2142	661	2208	682	2307	702	2410	722	2519	742	2632	768	2654	787	2754	807	2854	825	2956	844	3058	862	3161	880	3266	898	3371	—	—
5850 [2760]	541	1726	561	1802	582	1890	604	1989	626	2100	648	2222	666	2282	687	2383	707	2489	727	2600	746	2715	772	2736	791	2837	810	2939	829	3042	847	3147	865	3252	883	3357	901	3464	—	—
5950 [2808]	548	1791	568	1870	589	1961	611	2064	633	2179	655	2305	671	2357	692	2461	712	2569	732	2683	751	2801	776	2819	796	2923	814	3027	833	3132	851	3237	869	3344	886	3452	903	3560	—	—
6050 [2855]	556	1857	576	1940	596	2035	618	2142	639	2260	662	2390	677	2435	697	2541	717	2652	736	2768	755	2889	781	2906	800	3011	818	3117	837	3223	855	3331	872	3440	890	3549	906	3659	—	—
6150 [2902]	563	1926	583	2013	604	2111	625	2221	646	2343	661	2411	682	2514	702	2623	722	2737	741	2855	766	2889	785	2995	804	3102	823	3209	841	3318	858	3427	876	3537	893	3649	—	—	—	—
6250 [2949]	571	1997	591	2088	611	2190	632	2303	653	2429	667	2490	688	2596	708	2707	727	2823	746	2944	771	2979	790	3087	809	3195	827	3304	845	3415	862	3526	879	3638	896	3751	—	—	—	—
6350 [2996]	579	2070	599	2165	619	2270	639	2388	661	2517	673	2571	693	2680	713	2794	732	2912	751	3036	776	3071	795	3181	813	3291	831	3402	849	3514	866	3627	883	3741	900	3856	—	—	—	—

Drive Package	R						S						T					
Motor H.P. [W]	2 [1491.4]						3 [2237.1]						5 [2237.1]					
Blower Sheave	BK120SP 1.0"						BK120SP 1.0"						BK100SP					
Motor Sheave	1VL44 7/8"			Belt = B52			1VL50 7/8"			Belt = B52			1VP-50 1-1/8"			Belt = A45		
Turns Open	0	1	2	**3**	4	5	0	1	2	3	4	**5**	0	1	2	3	4	**5**
RPM	654	632	609	**581**	555	527	751	729	705	678	650	**622**	903	874	840	804	768	**731**

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[ ] Designates Metric Conversions

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE		
				Wet Coil	MERV 8 Filter	MERV 13 Filter
	Total MBH	Sensible MBH	Power kW	Resistance Inches of Water [kPa]	Resistance Inches of Water	Resistance Inches of Water
4750 [2241]	1.03	1.13	1.03	0.11 [.03]	0.166	0.170
4850 [2289]	1.04	1.15	1.03	0.11 [.03]	0.172	0.176
4950 [2336]	1.04	1.17	1.03	0.11 [.03]	0.178	0.182
5050 [2383]	1.05	1.19	1.03	0.12 [.03]	0.185	0.188
5150 [2430]	1.05	1.20	1.04	0.12 [.03]	0.191	0.193
5250 [2477]	1.06	1.22	1.04	0.12 [.03]	0.197	0.199
5350 [2525]	1.06	1.24	1.04	0.13 [.03]	0.203	0.205
5450 [2572]	1.07	1.25	1.05	0.13 [.03]	0.209	0.211
5550 [2619]	1.07	1.27	1.05	0.13 [.03]	0.215	0.217
5650 [2666]	1.08	1.29	1.05	0.13 [.03]	0.221	0.222
5750 [2713]	1.08	1.31	1.05	0.14 [.03]	0.227	0.228
5850 [2760]	1.08	1.32	1.06	0.14 [.03]	0.233	0.234
5950 [2808]	1.09	1.34	1.06	0.14 [.03]	0.239	0.240
6050 [2855]	1.09	1.36	1.06	0.15 [.04]	0.245	0.246
6150 [2902]	1.10	1.38	1.07	0.15 [.04]	0.251	0.251
6250 [2949]	1.10	1.39	1.07	0.15 [.04]	0.257	0.257
6350 [2996]	1.11	1.41	1.07	0.15 [.04]	0.263	0.263

* Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

AIRFLOW PERFORMANCE — 20 TON [70.3 kW] — 60 Hz — SIDEFLOW

Air Flow CFM [L/s]	(-)HCLA2240 Voltage 208/230, 460 — 3 phase 60 Hz																																					
	External Static Pressure—Inches of Water [kPa]																																					
	0.1 [.02]		0.2 [.05]		0.3 [.07]		0.4 [.10]		0.5 [.12]		0.6 [.15]		0.7 [.17]		0.8 [.20]		0.9 [.22]		1.0 [.25]		1.1 [.27]		1.2 [.30]		1.3 [.32]		1.4 [.35]		1.5 [.37]		1.6 [.40]		1.7 [.42]		1.8 [.45]		1.9 [.47]		2.0 [.50]	
	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W	RPM	W
6200 [2926]	—	—	—	—	—	—	—	—	—	—	—	—	698	2594	716	2694	734	2789	753	2878	772	2963	792	3042	812	3116	832	3184	843	3353	862	3465	882	3590	903	3727	925	3876	947	4037
6400 [3020]	—	—	—	—	—	—	—	—	—	—	691	2680	709	2783	726	2881	745	2973	763	3060	782	3141	801	3218	821	3289	834	3434	852	3544	872	3667	892	3802	913	3949	935	4108	958	4280
6600 [3114]	—	—	—	—	—	—	—	—	687	2774	703	2880	720	2980	738	3074	755	3164	773	3248	792	3327	811	3401	830	3470	843	3629	862	3750	881	3883	902	4028	923	4186	945	4355	968	4537
6800 [3209]	—	—	—	—	—	—	684	2876	699	2984	715	3086	732	3184	749	3276	766	3363	784	3444	802	3521	821	3592	835	3719	853	3838	872	3970	892	4113	913	4269	934	4437	957	4617	979	4992
7000 [3303]	—	—	—	—	—	—	697	3095	712	3200	728	3300	744	3395	761	3484	778	3569	795	3648	813	3721	831	3790	845	3933	864	4062	883	4204	903	4358	924	4524	946	4702	968	4892	987	5230
7200 [3398]	—	—	—	—	696	3214	710	3322	725	3425	741	3522	757	3614	773	3701	789	3782	806	3858	824	3929	838	4033	856	4160	875	4300	894	4452	914	4616	936	4793	958	4981	977	5339	995	5484
7400 [3492]	—	—	696	3341	710	3451	724	3556	739	3656	754	3751	770	3840	785	3924	802	4003	818	4076	835	4145	849	4264	867	4402	886	4553	906	4715	927	4889	948	5076	970	5275	986	5607	1003	5754
7600 [3586]	698	3474	711	3587	725	3695	739	3798	753	3895	768	3987	783	4073	798	4155	814	4231	830	4302	844	4374	861	4510	879	4659	899	4819	919	4992	939	5177	961	5374	978	5738	995	5890	1012	6040
7800 [3681]	714	3731	727	3842	740	3947	753	4046	767	4141	782	4230	796	4314	811	4393	827	4466	839	4489	856	4624	873	4770	892	4929	911	5100	932	5283	953	5478	971	5878	988	6035	1004	6190	1020	6341
8000 [3775]	730	3995	742	4103	755	4205	768	4302	782	4394	796	4481	810	4562	825	4638	835	4610	851	4743	868	4888	886	5045	905	5214	925	5395	945	5588	966	5794	982	6189	998	6348	1014	6505	1030	6657
8200 [3869]	747	4267	759	4372	771	4472	784	4566	797	4655	810	4739	824	4818	832	4737	848	4868	864	5011	882	5166	900	5333	919	5513	939	5704	959	5908	977	6351	993	6516	1009	6677	1024	6835	1039	6990
8400 [3964]	763	4546	775	4648	787	4745	799	4837	812	4923	825	5005	831	4869	845	4999	861	5140	878	5293	895	5459	914	5636	933	5826	953	6028	972	6522	988	6692	1004	6858	1019	7021	1034	7181	1049	7338
8600 [4058]	780	4832	792	4932	803	5026	815	5115	828	5199	830	5008	844	5135	859	5274	875	5426	892	5590	910	5766	928	5953	948	6154	968	6366	985	6877	1000	7048	1015	7216	1030	7381	1045	7543	1059	7702
8800 [4153]	798	5126	809	5223	820	5314	832	5401	830	5151	843	5277	858	5415	873	5564	890	5726	907	5900	925	6087	944	6285	963	6495	982	7070	997	7247	1012	7420	1027	7590	1042	7757	1056	7921	—	—
9000 [4247]	816	5427	826	5521	837	5610	830	5301	844	5425	857	5561	872	5709	888	5869	904	6041	922	6225	940	6422	959	6631	980	7272	995	7454	1010	7632	1025	7808	1039	7980	1054	8148	—	—	—	—
9200 [4341]	834	5735	821	5347	832	5456	845	5578	858	5712	872	5859	887	6017	903	6187	920	6370	938	6565	956	6772	979	7483	994	7670	1009	7853	1024	8034	1038	8211	1052	8385	—	—	—	—	—	—
9400 [4436]	824	5509	835	5617	847	5738	860	5870	873	6014	888	6171	903	6339	919	6520	936	6713	954	6918	978	7703	994	7894	1008	8083	1023	8268	1037	8451	1051	8630	—	—	—	—	—	—	—	—

Drive Package	R							S						T					
Motor H.P. [W]	5 [1491.4]							7.5 [2237.1]						7.5 [2237.1]					
Blower Sheave	BK120SP 1.0"							2BK110 2SS 1.0"						2BK100 2SS 1.0"					
Motor Sheave	1VP56 1-1/8"			Belt = B50				2VL60 1-3/8			Belt = B48			2VL60 1-3/8			Belt = B46		
Turns Open	0	1	2	**3**	4	5	6	0	1	2	3	4	**5**	0	1	2	3	4	**5**
RPM	832	805	776	**745**	715	684	655	970	939	906	874	840	**809**	1063	1032	997	963	927	**892**

NOTES: 1. Factory sheave settings are shown in bold type.
2. Do not set motor sheave below minimum or maximum turns open shown.
3. Re-adjustment of sheave required to achieve rated airflow at AHRI minimum External Static Pressure
4. Drive data shown is for horizontal airflow with dry coil. Add component resistance (below) to duct resistance to determine total External Static Pressure.

[ ] Designates Metric Conversions

Airflow CFM [L/s]	AIRFLOW CORRECTION FACTORS *			COMPONENT AIRFLOW RESISTANCE		
				Wet Coil	MERV 8 Filter	MERV 13 Filter
	Total MBH	Sensible MBH	Power kW	Resistance Inches of Water [kPa]	Resistance Inches of Water	Resistance Inches of Water
6200 [2926]	1.10	1.38	1.07	0.15 [.04]	0.254	0.254
6300 [2973]	1.11	1.40	1.07	0.15 [.04]	0.260	0.260
6400 [3020]	1.11	1.42	1.07	0.16 [.04]	0.266	0.266
6500 [3067]	1.11	1.44	1.08	0.16 [.04]	0.272	0.272
6600 [3114]	1.12	1.45	1.08	0.16 [.04]	0.278	0.277
6700 [3162]	1.12	1.47	1.08	0.16 [.04]	0.284	0.283
6800 [3209]	1.13	1.49	1.08	0.17 [.04]	0.290	0.289
6900 [3256]	1.13	1.51	1.09	0.17 [.04]	0.296	0.295
7000 [3303]	1.14	1.52	1.09	0.17 [.04]	0.302	0.301
7100 [3350]	1.14	1.54	1.09	0.18 [.04]	0.308	0.306
7200 [3398]	1.15	1.56	1.10	0.18 [.04]	0.314	0.312
7300 [3445]	1.15	1.57	1.10	0.18 [.04]	0.320	0.318
7400 [3492]	1.16	1.59	1.10	0.18 [.04]	0.326	0.324
7500 [3539]	1.16	1.61	1.10	0.19 [.05]	0.332	0.330
7600 [3586]	1.16	1.63	1.11	0.19 [.05]	0.339	0.335
7700 [3633]	1.17	1.64	1.11	0.19 [.05]	0.345	0.341
7800 [3681]	1.17	1.66	1.11	0.19 [.05]	0.351	0.347

* Multiply correction factor times gross performance data — resulting sensible capacity cannot exceed total capacity.

[ ] Designates Metric Conversions

PERFORMANCE DATA @ AHRI STANDARD CONDITIONS

MODEL NUMBERS		80°F [26.5°C] DB 76°F [19.5°C] WB INDOOR AIR 95°F [35°C] DB OUTDOOR AIR					RATED INDOOR CFM [L/s]
OUTDOOR UNIT RACL-	INDOOR COIL AND/OR AIR HANDLER	TOTAL CAPACITY BTU/H [kW]	NET SENSIBLE BTU/H [kW]	NET LATENT BTU/H [kW]	EER	IEER	
RACL2078CA	RHCLA2090CA	78000 [22.8]	54400 [15.9]	23600 [6.9]	11.2	12.9	2800
RACL2090CA	RHCLA2090CA	88000 [25.8]	62000 [18.2]	26000 [7.6]	11.2	12.9	2800
RACL2120CA	RHCLA2120CA	114000 [33.4]	83600 [24.5]	30400 [8.9]	11.2	12.9	3660
RACL2150CA	RHCLA2150CA	142000 [41.6]	108800 [31.9]	33200 [9.7]	11.0	12.4	4780
RACL2180CA	RHCLA2180CA	172000 [50.4]	132000 [38.7]	41100 [12.0]	11.0	12.4	5500
RACL2240CA	RHCLA2240CA	240000 [70.6]	163500 [47.9]	76500 [22.4]	10.0	11.6	7200
RACL2078CB	RHCLA2090CB	78000 [22.8]	54400 [15.9]	23600 [6.9]	11.2	14.8	2800
RACL2090CB	RHCLA2090CB	88000 [25.8]	62000 [18.2]	26000 [7.6]	11.2	14.8	2800
RACL2120CB	RHCLA2120CB	114000 [33.4]	83600 [24.5]	30400 [8.9]	11.2	14.8	3660
RACL2150CB	RHCLA2150CB	142000 [41.6]	108800 [31.9]	33200 [9.7]	11.0	14.2	4780
RACL2180CB	RHCLA2180CB	172000 [50.4]	132000 [38.7]	41100 [12.0]	11.0	14.2	5500
RACL2240CB	RHCLA2240CB	240000 [70.6]	163500 [47.9]	76500 [22.4]	10.0	13.2	7200

[ ] Designates Metric Conversions

COOLING PERFORMANCE DATA—RACL2090+RHCLA2090

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①																		
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			61°F [16.1°C]			59°F [15.0°C]		
CFM [L/s]			3600 [1699]	3225 [1522]	2400 [1133]	3600 [1699]	3225 [1522]	2400 [1133]	3600 [1699]	3225 [1522]	2400 [1133]	3600 [1699]	3225 [1522]	2400 [1133]	3600 [1699]	3225 [1522]	2400 [1133]
DR ①			0.21	0.19	0.12	0.21	0.19	0.12	0.21	0.19	0.12	0.21	0.19	0.12	0.21	0.19	0.12
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75°F [23.9°C]	Total BTUH [kW]	104.3 [30.6]	102.2 [29.9]	97.4 [28.5]	97.0 [28.4]	95.0 [27.8]	90.5 [26.5]	86.3 [25.3]	84.5 [24.8]	80.6 [23.6]	79.4 [23.3]	77.7 [22.8]	74.1 [21.7]	71.1 [20.8]	69.7 [20.4]	66.4 [19.5]
		Sens BTUH [kW]	66.6 [19.5]	63.1 [18.5]	55.6 [16.3]	73.7 [21.6]	69.9 [20.5]	61.5 [18.0]	71.6 [21.0]	68.0 [19.9]	59.8 [17.5]	66.8 [19.6]	63.4 [18.6]	55.8 [16.4]	59.3 [17.4]	56.2 [16.5]	49.5 [14.5]
		Power	7.2	7.1	6.9	6.6	6.6	6.4	6.1	6.0	5.9	5.8	5.7	5.6	5.5	5.5	5.3
	80°F [26.7°C]	Total BTUH [kW]	102.5 [30.0]	100.4 [29.4]	95.7 [28.0]	95.1 [27.9]	93.1 [27.3]	88.8 [26.0]	84.4 [24.7]	82.7 [24.2]	78.8 [23.1]	77.5 [22.7]	75.9 [22.2]	72.4 [21.2]	69.3 [20.3]	67.9 [19.9]	64.7 [19.0]
		Sens BTUH [kW]	66.0 [19.3]	62.6 [18.3]	55.1 [16.2]	73.1 [21.4]	69.4 [20.3]	61.1 [17.9]	71.1 [20.8]	67.4 [19.8]	59.4 [17.4]	66.3 [19.4]	62.9 [18.4]	55.4 [16.2]	58.7 [17.2]	55.7 [16.3]	49.1 [14.4]
		Power	7.4	7.3	7.2	6.9	6.8	6.6	6.3	6.2	6.1	6.0	6.0	5.8	5.8	5.7	5.6
	85°F [29.4°C]	Total BTUH [kW]	100.3 [29.4]	98.2 [28.8]	93.7 [27.4]	92.9 [27.2]	91.0 [26.7]	86.8 [25.4]	82.3 [24.1]	80.6 [23.6]	76.8 [22.5]	75.3 [22.1]	73.8 [21.6]	70.4 [20.6]	67.1 [19.7]	65.7 [19.3]	62.7 [18.4]
		Sens BTUH [kW]	65.2 [19.1]	61.8 [18.1]	54.4 [16.0]	72.3 [21.2]	68.6 [20.1]	60.4 [17.7]	70.3 [20.6]	66.7 [19.5]	58.7 [17.2]	65.5 [19.2]	62.1 [18.2]	54.7 [16.0]	57.9 [17.0]	54.9 [16.1]	48.4 [14.2]
		Power	7.7	7.6	7.5	7.2	7.1	6.9	6.6	6.5	6.4	6.3	6.3	6.1	6.0	6.0	5.8
	90°F [32.2°C]	Total BTUH [kW]	97.8 [28.7]	95.8 [28.1]	91.3 [26.8]	90.4 [26.5]	88.6 [26.0]	84.5 [24.7]	79.8 [23.4]	78.1 [22.9]	74.5 [21.8]	72.9 [21.3]	71.3 [20.9]	68.0 [19.9]	64.6 [18.9]	63.3 [18.5]	60.3 [17.7]
		Sens BTUH [kW]	64.0 [18.8]	60.7 [17.8]	53.5 [15.7]	71.2 [20.9]	67.5 [19.8]	59.4 [17.4]	69.1 [20.3]	65.6 [19.2]	57.7 [16.9]	64.3 [18.9]	61.0 [17.9]	53.7 [15.7]	56.8 [16.6]	53.8 [15.8]	47.4 [13.9]
		Power	8.0	8.0	7.8	7.5	7.4	7.3	6.9	6.9	6.7	6.7	6.6	6.4	6.4	6.3	6.2
	95°F [35°C]	Total BTUH [kW]	95.0 [27.8]	93.0 [27.3]	88.7 [26.0]	87.6 [25.7]	85.8 [25.2]	81.8 [24.0]	77.0 [22.6]	75.4 [22.1]	71.9 [21.1]	70.1 [20.5]	68.6 [20.1]	65.4 [19.2]	61.8 [18.1]	60.5 [17.7]	57.7 [16.9]
		Sens BTUH [kW]	62.6 [18.3]	59.4 [17.4]	52.3 [15.3]	69.7 [20.4]	66.1 [19.4]	58.2 [17.1]	67.7 [19.8]	64.2 [18.8]	56.5 [16.6]	62.9 [18.4]	59.7 [17.5]	52.5 [15.4]	55.3 [16.2]	52.5 [15.4]	46.2 [13.5]
		Power	8.4	8.4	8.2	7.9	7.8	7.6	7.3	7.3	7.1	7.1	7.0	6.8	6.8	6.7	6.6
	100°F [37.8°C]	Total BTUH [kW]	91.9 [26.9]	90.0 [26.4]	85.8 [25.1]	84.5 [24.8]	82.8 [24.3]	78.9 [23.1]	73.9 [21.6]	72.3 [21.2]	69.0 [20.2]	66.9 [19.6]	65.5 [19.2]	62.5 [18.3]	58.7 [17.2]	57.5 [16.8]	54.8 [16.1]
		Sens BTUH [kW]	60.9 [17.8]	57.7 [16.9]	50.8 [14.9]	68.0 [19.9]	64.5 [18.9]	56.8 [16.6]	66.0 [19.3]	62.6 [18.3]	55.1 [16.1]	61.2 [17.9]	58.0 [17.0]	51.1 [15.0]	53.6 [15.7]	50.8 [14.9]	44.8 [13.1]
		Power	8.9	8.8	8.6	8.3	8.2	8.0	7.8	7.7	7.5	7.5	7.4	7.2	7.2	7.1	7.0
	105°F [40.6°C]	Total BTUH [kW]	88.5 [25.9]	86.6 [25.4]	82.6 [24.2]	81.1 [23.8]	79.4 [23.3]	75.7 [22.2]	70.4 [20.6]	69.0 [20.2]	65.8 [19.3]	63.5 [18.6]	62.2 [18.2]	59.3 [17.4]	55.3 [16.2]	54.1 [15.9]	51.6 [15.1]
		Sens BTUH [kW]	58.8 [17.2]	55.8 [16.4]	49.1 [14.4]	65.9 [19.3]	62.6 [18.3]	55.1 [16.1]	63.9 [18.7]	60.6 [17.8]	53.4 [15.6]	59.1 [17.3]	56.1 [16.4]	49.4 [14.5]	51.5 [15.1]	48.9 [14.3]	43.1 [12.6]
		Power	9.4	9.3	9.1	8.8	8.7	8.5	8.2	8.2	8.0	8.0	7.9	7.7	7.7	7.6	7.4
	110°F [43.3°C]	Total BTUH [kW]	84.7 [24.8]	83.0 [24.3]	79.1 [23.2]	77.3 [22.7]	75.7 [22.2]	72.2 [21.2]	66.7 [19.5]	65.3 [19.1]	62.2 [18.2]	59.7 [17.5]	58.5 [17.1]	55.8 [16.3]	51.5 [15.1]	50.4 [14.8]	48.1 [14.1]
		Sens BTUH [kW]	56.5 [16.6]	53.6 [15.7]	47.2 [13.8]	63.6 [18.6]	60.3 [17.7]	53.1 [15.6]	61.6 [18.0]	58.4 [17.1]	51.4 [15.1]	56.8 [16.6]	53.9 [15.8]	47.4 [13.9]	49.2 [14.4]	46.7 [13.7]	41.1 [12.0]
		Power	9.9	9.8	9.6	9.3	9.2	9.0	8.8	8.7	8.5	8.5	8.4	8.2	8.2	8.1	8.0
	115°F [46.1°C]	Total BTUH [kW]	80.6 [23.6]	79.0 [23.1]	75.3 [22.1]	73.3 [21.5]	71.7 [21.0]	68.4 [20.0]	62.6 [18.3]	61.3 [18.0]	58.4 [17.1]	55.7 [16.3]	54.5 [16.0]	52.0 [15.2]	47.4 [13.9]	46.5 [13.6]	44.3 [13.0]
		Sens BTUH [kW]	53.9 [15.8]	51.1 [15.0]	45.0 [13.2]	61.0 [17.9]	57.8 [16.9]	50.9 [14.9]	58.9 [17.3]	55.9 [16.4]	49.2 [14.4]	54.1 [15.9]	51.4 [15.1]	45.2 [13.3]	46.6 [13.6]	44.2 [12.9]	38.9 [11.4]
		Power	10.5	10.4	10.1	9.9	9.8	9.6	9.4	9.3	9.1	9.1	9.0	8.8	8.8	8.7	8.5
	120°F [48.9°C]	Total BTUH [kW]	76.2 [22.3]	74.7 [21.9]	71.2 [20.9]	68.9 [20.2]	67.5 [19.8]	64.3 [18.8]	58.2 [17.1]	57.0 [16.7]	54.4 [15.9]	51.3 [15.0]	50.2 [14.7]	47.9 [14.0]	43.1 [12.6]	42.2 [12.4]	40.2 [11.8]
		Sens BTUH [kW]	50.9 [14.9]	48.3 [14.2]	42.5 [12.5]	58.0 [17.0]	55.0 [16.1]	48.5 [14.2]	56.0 [16.4]	53.1 [15.6]	46.8 [13.7]	51.2 [15.0]	48.6 [14.2]	42.8 [12.5]	43.1 [12.6]	41.4 [12.1]	36.4 [10.7]
		Power	11.1	11.0	10.7	10.5	10.4	10.2	10	9.9	9.7	9.7	9.6	9.4	9.4	9.3	9.1
	125°F [51.7°C]	Total BTUH [kW]	71.5 [21]	70.1 [20.5]	66.8 [19.6]	64.2 [18.8]	62.8 [18.4]	59.9 [17.6]	53.5 [15.7]	52.4 [15.4]	50.0 [14.6]	46.6 [13.7]	45.6 [13.4]	43.5 [12.7]	38.4 [11.2]	37.6 [11.0]	35.8 [10.5]
		Sens BTUH [kW]	47.7 [14]	45.2 [13.3]	39.8 [11.7]	54.8 [16.1]	52.0 [15.2]	45.8 [13.4]	52.8 [15.5]	50.1 [14.7]	44.1 [12.9]	46.6 [13.7]	45.5 [13.3]	40.1 [11.7]	38.4 [11.2]	37.6 [11.0]	33.7 [9.9]
		Power	11.8	11.7	11.4	11.2	11.1	10.9	10.7	10.6	10.3	10.4	10.3	10.1	10.1	10.0	9.8

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —KW input

NOTES:

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

COOLING PERFORMANCE DATA—RACL2120+RHCLA2120

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①																		
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			61°F [16.1°C]			59°F [15.0°C]		
CFM [L/s]			4560 [2152]	3400 [1605]	3040 [1435]	4560 [2152]	3400 [1605]	3040 [1435]	4560 [2152]	3400 [1605]	3040 [1435]	4560 [2152]	3400 [1605]	3040 [1435]	4560 [2152]	3400 [1605]	3040 [1435]
DR ①			0.08	0.02	-0.01	0.08	0.02	-0.01	0.08	0.02	-0.01	0.08	0.02	-0.01	0.08	0.02	-0.01
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75°F [23.9°C]	Total BTUH [kW]	145.0 [42.5]	136.5 [40.0]	133.9 [39.2]	135.1 [39.6]	127.2 [37.3]	124.8 [36.6]	124.8 [36.6]	117.5 [34.4]	115.3 [33.8]	119.6 [35.0]	112.6 [33.0]	110.4 [32.4]	114.2 [33.5]	107.6 [31.5]	105.5 [30.9]
		Sens BTUH [kW]	90.4 [26.5]	78.0 [22.9]	74.1 [21.7]	106.6 [31.2]	92.0 [27.0]	87.4 [25.6]	117.8 [34.5]	101.6 [29.8]	96.6 [28.3]	119.6 [35.0]	104.0 [30.5]	98.9 [29.0]	114.2 [33.5]	104.4 [30.6]	99.3 [29.1]
		Power	8.0	7.8	7.7	8.0	7.7	7.6	7.9	7.7	7.6	7.8	7.6	7.5	7.8	7.6	7.5
	80°F [26.7°C]	Total BTUH [kW]	142.6 [41.8]	134.3 [39.4]	131.7 [38.6]	132.7 [38.9]	125.0 [36.6]	122.6 [35.9]	122.5 [35.9]	115.3 [33.8]	113.1 [33.1]	117.2 [34.3]	110.4 [32.3]	108.2 [31.7]	111.9 [32.8]	105.3 [30.9]	103.3 [30.3]
		Sens BTUH [kW]	89.4 [26.2]	77.1 [22.6]	73.3 [21.5]	105.6 [31.0]	91.1 [26.7]	86.6 [25.4]	116.8 [34.2]	100.7 [29.5]	95.7 [28.1]	117.2 [34.3]	103.2 [30.2]	98.1 [28.7]	111.9 [32.8]	103.6 [30.3]	98.4 [28.8]
		Power	8.4	8.1	8.1	8.3	8.1	8.0	8.2	8.0	7.9	8.2	8.0	7.9	8.2	7.9	7.9
	85°F [29.4°C]	Total BTUH [kW]	140.0 [41.0]	131.8 [38.6]	129.3 [37.9]	130.1 [38.1]	122.5 [35.9]	120.1 [35.2]	119.8 [35.1]	112.8 [33.1]	110.7 [32.4]	114.6 [33.6]	107.9 [31.6]	105.8 [31.0]	109.2 [32.0]	102.8 [30.1]	100.9 [29.6]
		Sens BTUH [kW]	88.3 [25.9]	76.2 [22.3]	72.4 [21.2]	104.5 [30.6]	90.2 [26.4]	85.7 [25.1]	115.6 [33.9]	99.8 [29.2]	94.8 [27.8]	114.6 [33.6]	102.2 [30.0]	97.2 [28.5]	109.2 [32.0]	102.6 [30.1]	97.5 [28.6]
		Power	8.8	8.5	8.4	8.7	8.5	8.4	8.6	8.4	8.3	8.6	8.4	8.3	8.6	8.3	8.2
	90°F [32.2°C]	Total BTUH [kW]	137.1 [40.2]	129.1 [37.8]	126.6 [37.1]	127.2 [37.3]	119.8 [35.1]	117.5 [34.4]	116.9 [34.3]	110.1 [32.3]	108.0 [31.6]	111.7 [32.7]	105.2 [30.8]	103.1 [30.2]	106.3 [31.2]	100.1 [29.3]	98.2 [28.8]
		Sens BTUH [kW]	87.1 [25.5]	75.1 [22.0]	71.4 [20.9]	103.3 [30.3]	89.1 [26.1]	84.7 [24.8]	114.4 [33.5]	98.7 [28.9]	93.8 [27.5]	111.7 [32.7]	101.1 [29.6]	96.1 [28.2]	106.3 [31.2]	100.1 [29.3]	96.5 [28.3]
		Power	9.2	8.9	8.9	9.1	8.9	8.8	9.1	8.8	8.7	9.0	8.8	8.7	9.0	8.7	8.7
	95°F [35°C]	Total BTUH [kW]	134.0 [39.3]	126.2 [37.0]	123.7 [36.3]	124.1 [36.4]	116.8 [34.2]	114.6 [33.6]	113.8 [33.4]	107.2 [31.4]	105.1 [30.8]	108.5 [31.8]	102.2 [30.0]	100.2 [29.4]	103.2 [30.2]	97.2 [28.5]	95.3 [27.9]
		Sens BTUH [kW]	85.7 [25.1]	73.9 [21.7]	70.3 [20.6]	101.9 [29.9]	87.9 [25.8]	83.6 [24.5]	113.0 [33.1]	97.5 [28.6]	92.7 [27.2]	108.5 [31.8]	100.0 [29.3]	95.0 [27.8]	103.2 [30.2]	97.2 [28.5]	95.3 [27.9]
		Power	9.7	9.4	9.3	9.6	9.3	9.2	9.5	9.3	9.2	9.5	9.2	9.1	9.5	9.2	9.1
	100°F [37.8°C]	Total BTUH [kW]	130.6 [38.3]	123.0 [36.0]	120.6 [35.3]	120.7 [35.4]	113.6 [33.3]	111.4 [32.7]	110.4 [32.4]	104.0 [30.5]	102.0 [29.9]	105.2 [30.8]	99.0 [29.0]	97.1 [28.5]	99.8 [29.2]	94.0 [27.5]	92.2 [27.0]
		Sens BTUH [kW]	84.2 [24.7]	72.6 [21.3]	69.0 [20.2]	100.4 [29.4]	86.6 [25.4]	82.4 [24.1]	110.4 [32.4]	96.2 [28.2]	91.5 [26.8]	105.2 [30.8]	98.7 [28.9]	93.8 [27.5]	99.8 [29.2]	94.0 [27.5]	92.2 [27.0]
		Power	10.2	9.9	9.8	10.1	9.8	9.7	10.0	9.7	9.6	10.0	9.7	9.6	10.0	9.7	9.6
	105°F [40.6°C]	Total BTUH [kW]	126.9 [37.2]	119.5 [35.0]	117.2 [34.4]	117.0 [34.3]	110.2 [32.3]	108.1 [31.7]	106.8 [31.3]	100.5 [29.5]	98.6 [28.9]	101.5 [29.7]	95.6 [28.0]	93.7 [27.5]	96.2 [28.2]	90.5 [26.5]	88.8 [26.0]
		Sens BTUH [kW]	82.6 [24.2]	71.2 [20.9]	67.7 [19.8]	98.8 [29.0]	85.2 [25.0]	81.0 [23.7]	106.8 [31.3]	94.8 [27.8]	90.2 [26.4]	101.5 [29.7]	95.6 [28.0]	92.5 [27.1]	96.2 [28.2]	90.5 [26.5]	88.8 [26.0]
		Power	10.7	10.4	10.3	10.6	10.3	10.2	10.6	10.3	10.2	10.5	10.2	10.1	10.5	10.2	10.1
	110°F [43.3°C]	Total BTUH [kW]	123.0 [36.1]	115.9 [33.9]	113.6 [33.3]	113.1 [33.2]	106.5 [31.2]	104.5 [30.6]	102.9 [30.1]	96.9 [28.4]	95.0 [27.8]	97.6 [28.6]	91.9 [26.9]	90.1 [26.4]	92.3 [27.0]	86.9 [25.5]	85.2 [25.0]
		Sens BTUH [kW]	80.8 [23.7]	69.7 [20.4]	66.3 [19.4]	97.1 [28.4]	83.7 [24.5]	79.6 [23.3]	102.9 [30.1]	93.3 [27.4]	88.7 [26.0]	97.6 [28.6]	91.9 [26.9]	90.1 [26.4]	92.3 [27.0]	86.9 [25.5]	85.2 [25.0]
		Power	11.3	10.9	10.8	11.2	10.9	10.8	11.1	10.8	10.7	11.1	10.8	10.7	11.1	10.7	10.6
	115°F [46.1°C]	Total BTUH [kW]	118.9 [34.8]	111.9 [32.8]	109.8 [32.2]	109.0 [31.9]	102.6 [30.1]	100.6 [29.5]	98.7 [28.9]	92.9 [27.2]	91.2 [26.7]	93.5 [27.4]	88.0 [25.8]	86.3 [25.3]	88.1 [25.8]	83.0 [24.3]	81.4 [23.8]
		Sens BTUH [kW]	79.0 [23.1]	68.1 [20.0]	64.8 [19.0]	95.2 [27.9]	82.1 [24.1]	78.1 [22.9]	98.7 [28.9]	91.7 [26.9]	87.2 [25.6]	93.5 [27.4]	88.0 [25.8]	86.3 [25.3]	88.1 [25.8]	83.0 [24.3]	81.4 [23.8]
		Power	11.9	11.5	11.4	11.8	11.4	11.3	11.7	11.4	11.3	11.7	11.3	11.2	11.6	11.3	11.2
	120°F [48.9°C]	Total BTUH [kW]	114.5 [33.5]	107.8 [31.6]	105.7 [31.0]	104.6 [30.6]	98.5 [28.9]	96.6 [28.3]	94.3 [27.6]	88.8 [26.0]	87.1 [25.5]	89.0 [26.1]	83.8 [24.6]	82.2 [24.1]	83.7 [24.5]	78.8 [23.1]	77.3 [22.6]
		Sens BTUH [kW]	77.0 [22.6]	66.4 [19.5]	63.1 [18.5]	93.2 [27.3]	80.4 [23.6]	76.5 [22.4]	94.3 [27.6]	88.8 [26.0]	85.6 [25.1]	89.0 [26.1]	83.8 [24.6]	82.2 [24.1]	83.7 [24.5]	78.8 [23.1]	77.3 [22.6]
		Power	12.5	12.1	12.0	12.4	12.0	11.9	12.3	12.0	11.9	12.3	11.9	11.8	12.3	11.9	11.8
	125°F [51.7°C]	Total BTUH [kW]	109.8 [32.2]	103.4 [30.3]	101.4 [29.7]	99.9 [29.3]	94.1 [27.6]	92.3 [27.0]	89.6 [26.3]	84.4 [24.7]	82.8 [24.3]	84.4 [24.7]	79.5 [23.3]	77.9 [22.8]	79.0 [23.2]	74.4 [21.8]	73.0 [21.4]
		Sens BTUH [kW]	74.9 [21.9]	64.6 [18.9]	61.4 [18.0]	91.1 [26.7]	78.6 [23.0]	74.7 [21.9]	89.6 [26.3]	84.4 [24.7]	82.8 [24.3]	84.4 [24.7]	79.5 [23.3]	77.9 [22.8]	79.0 [23.2]	74.4 [21.8]	73.0 [21.4]
		Power	13.1	12.8	12.6	13.1	12.7	12.6	13.0	12.6	12.5	13.0	12.6	12.5	12.9	12.6	12.4

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —KW input

NOTES:

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

COOLING PERFORMANCE DATA—RACL2150+RHCLA2150

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①																		
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			61°F [16.1°C]			59°F [15.0°C]		
CFM [L/s]			6000 [2832]	5000 [2360]	4000 [1888]	6000 [2832]	5000 [2360]	4000 [1888]	6000 [2832]	5000 [2360]	4000 [1888]	6000 [2832]	5000 [2360]	4000 [1888]	6000 [2832]	5000 [2360]	4000 [1888]
DR ①			0.07	0.02	–0.04	0.07	0.02	–0.04	0.07	0.02	–0.04	0.07	0.02	–0.04	0.07	0.02	–0.04
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75°F [23.9°C]	Total BTUH [kW]	175.3 [51.4]	169.2 [49.6]	163.0 [47.8]	167.1 [49.0]	161.2 [47.2]	155.3 [45.5]	164.5 [48.2]	158.7 [46.5]	152.9 [44.8]	166.1 [48.7]	160.3 [47.0]	154.5 [45.3]	170.2 [49.9]	164.3 [48.1]	158.3 [46.4]
		Sens BTUH [kW]	113.6 [33.3]	103.9 [30.4]	94.2 [27.6]	134.3 [39.3]	122.8 [36.0]	111.3 [32.6]	149.8 [43.9]	137.0 [40.1]	124.2 [36.4]	156.4 [45.8]	143.1 [41.9]	129.7 [38.0]	163.0 [47.8]	149.0 [43.7]	135.1 [39.6]
		Power	10.0	9.8	9.6	9.9	9.7	9.5	9.8	9.6	9.4	9.7	9.5	9.4	9.6	9.5	9.3
	80°F [26.7°C]	Total BTUH [kW]	172.5 [50.6]	166.5 [48.8]	160.4 [47.0]	164.2 [48.1]	158.5 [46.4]	152.7 [44.7]	161.6 [47.4]	156.0 [45.7]	150.3 [44.0]	163.3 [47.8]	157.5 [46.2]	151.8 [44.5]	167.4 [49.1]	161.5 [47.3]	155.7 [45.6]
		Sens BTUH [kW]	114.2 [33.5]	104.5 [30.6]	94.7 [27.8]	134.9 [39.5]	123.4 [36.1]	111.8 [32.8]	150.4 [44.1]	137.6 [40.3]	124.7 [36.6]	157.1 [46.0]	143.7 [42.1]	130.3 [38.2]	163.6 [47.9]	149.6 [43.8]	135.7 [39.8]
		Power	10.5	10.3	10.1	10.3	10.2	10.0	10.2	10.0	9.9	10.2	10.0	9.8	10.1	9.9	9.8
	85°F [29.4°C]	Total BTUH [kW]	169.3 [49.6]	163.4 [47.9]	157.4 [46.1]	161.0 [47.2]	155.4 [45.5]	149.7 [43.9]	158.4 [46.4]	152.9 [44.8]	147.3 [43.2]	160.1 [46.9]	154.5 [45.3]	148.8 [43.6]	164.2 [48.1]	158.4 [46.4]	152.7 [44.7]
		Sens BTUH [kW]	113.9 [33.4]	104.2 [30.5]	94.5 [27.7]	134.6 [39.4]	123.1 [36.1]	111.6 [32.7]	150.1 [44.0]	137.3 [40.2]	124.5 [36.5]	156.8 [45.9]	143.4 [42.0]	130.0 [38.1]	163.3 [47.8]	149.3 [43.8]	135.4 [39.7]
		Power	11.0	10.8	10.6	10.8	10.7	10.5	10.7	10.5	10.4	10.7	10.5	10.3	10.6	10.4	10.2
	90°F [32.2°C]	Total BTUH [kW]	165.8 [48.6]	159.9 [46.9]	154.1 [45.2]	157.5 [46.1]	151.9 [44.5]	146.4 [42.9]	154.9 [45.4]	149.4 [43.8]	144.0 [42.2]	156.5 [45.9]	151.0 [44.3]	145.5 [42.6]	160.6 [47.1]	155.0 [45.4]	149.4 [43.8]
		Sens BTUH [kW]	112.7 [33.0]	103.0 [30.2]	93.4 [27.4]	133.3 [39.1]	121.9 [35.7]	110.6 [32.4]	148.9 [43.6]	136.2 [39.9]	123.4 [36.2]	155.5 [45.6]	142.3 [41.7]	129.0 [37.8]	160.6 [47.1]	148.2 [43.4]	134.4 [39.4]
		Power	11.5	11.3	11.1	11.4	11.2	11.0	11.3	11.1	10.9	11.2	11.0	10.8	11.2	11.0	10.8
	95°F [35°C]	Total BTUH [kW]	161.8 [47.4]	156.2 [45.8]	150.5 [44.1]	153.6 [45.0]	148.2 [43.4]	142.8 [41.8]	151.0 [44.2]	145.7 [42.7]	140.4 [41.1]	152.6 [44.7]	147.2 [43.1]	141.9 [41.6]	156.7 [45.9]	151.2 [44.3]	145.7 [42.7]
		Sens BTUH [kW]	110.5 [32.4]	101.1 [29.6]	91.6 [26.8]	131.2 [38.4]	120.0 [35.2]	108.8 [31.9]	146.7 [43.0]	134.2 [39.3]	121.6 [35.6]	152.6 [44.7]	140.3 [41.1]	127.2 [37.3]	156.7 [45.9]	146.2 [42.8]	132.6 [38.8]
		Power	12.1	11.9	11.7	12.0	11.8	11.6	11.9	11.7	11.5	11.8	11.6	11.4	11.8	11.6	11.3
	100°F [37.8°C]	Total BTUH [kW]	157.6 [46.2]	152.0 [44.6]	146.5 [42.9]	149.3 [43.7]	144.0 [42.2]	138.8 [40.7]	146.7 [43.0]	141.6 [41.5]	136.4 [40.0]	148.3 [43.5]	143.1 [41.9]	137.9 [40.4]	152.5 [44.7]	147.1 [43.1]	141.8 [41.5]
		Sens BTUH [kW]	107.4 [31.5]	98.2 [28.8]	89.1 [26.1]	128.1 [37.5]	117.1 [34.3]	106.2 [31.1]	143.6 [42.1]	131.3 [38.5]	119.1 [34.9]	148.3 [43.5]	137.4 [40.3]	124.6 [36.5]	152.5 [44.7]	143.4 [42.0]	130.0 [38.1]
		Power	12.7	12.5	12.3	12.6	12.4	12.2	12.5	12.3	12.1	12.4	12.2	12.0	12.4	12.2	12.0
	105°F [40.6°C]	Total BTUH [kW]	152.9 [44.8]	147.6 [43.2]	142.2 [41.7]	144.7 [42.4]	139.6 [40.9]	134.5 [39.4]	142.1 [41.6]	137.1 [40.2]	132.1 [38.7]	143.7 [42.1]	138.7 [40.6]	133.6 [39.2]	147.8 [43.3]	142.6 [41.8]	137.5 [40.3]
		Sens BTUH [kW]	103.4 [30.3]	94.5 [27.7]	85.7 [25.1]	124.0 [36.3]	113.4 [33.2]	102.8 [30.1]	139.6 [40.9]	127.6 [37.4]	115.7 [33.9]	143.7 [42.1]	133.7 [39.2]	121.3 [35.5]	147.8 [43.3]	139.7 [40.9]	126.7 [37.1]
		Power	13.4	13.2	12.9	13.3	13.1	12.8	13.2	12.9	12.7	13.1	12.9	12.7	13.1	12.8	12.6
	110°F [43.3°C]	Total BTUH [kW]	148.0 [43.4]	142.8 [41.8]	137.6 [40.3]	139.7 [40.9]	134.8 [39.5]	129.9 [38.1]	137.1 [40.2]	132.3 [38.8]	127.5 [37.4]	138.7 [40.6]	133.8 [39.2]	129.0 [37.8]	142.8 [41.9]	137.8 [40.4]	132.8 [38.9]
		Sens BTUH [kW]	98.4 [28.8]	90.0 [26.4]	81.6 [23.9]	119.1 [34.9]	108.9 [31.9]	98.7 [28.9]	134.6 [39.4]	123.1 [36.1]	111.6 [32.7]	138.7 [40.6]	129.2 [37.9]	117.1 [34.3]	142.8 [41.9]	135.2 [39.6]	122.5 [35.9]
		Power	14.1	13.9	13.6	14.0	13.8	13.5	13.9	13.6	13.4	13.8	13.6	13.3	13.8	13.5	13.3
	115°F [46.1°C]	Total BTUH [kW]	142.6 [41.8]	137.6 [40.3]	132.6 [38.9]	134.3 [39.4]	129.6 [38.0]	124.9 [36.6]	131.7 [38.6]	127.1 [37.3]	122.5 [35.9]	133.4 [39.1]	128.7 [37.7]	124.0 [36.3]	137.5 [40.3]	132.7 [38.9]	127.9 [37.5]
		Sens BTUH [kW]	92.5 [27.1]	84.6 [24.8]	76.7 [22.5]	113.2 [33.2]	103.5 [30.3]	93.8 [27.5]	128.7 [37.7]	117.7 [34.5]	106.7 [31.3]	133.4 [39.1]	123.8 [36.3]	112.2 [32.9]	137.5 [40.3]	129.8 [38.0]	117.6 [34.5]
		Power	14.9	14.6	14.3	14.7	14.5	14.2	14.6	14.4	14.1	14.6	14.3	14.1	14.5	14.3	14.0
	120°F [48.9°C]	Total BTUH [kW]	136.9 [40.1]	132.1 [38.7]	127.3 [37.3]	128.6 [37.7]	124.1 [36.4]	119.6 [35.0]	126.0 [36.9]	121.6 [35.6]	117.2 [34.3]	127.7 [37.4]	123.2 [36.1]	118.7 [34.8]	131.8 [38.6]	127.2 [37.3]	122.6 [35.9]
		Sens BTUH [kW]	85.7 [25.1]	78.3 [23.0]	71.0 [20.8]	106.3 [31.2]	97.3 [28.5]	88.2 [25.8]	121.9 [35.7]	111.5 [32.7]	101.1 [29.6]	127.7 [37.4]	117.6 [34.4]	106.6 [31.2]	131.8 [38.6]	123.5 [36.2]	112.0 [32.8]
		Power	15.7	15.4	15.1	15.5	15.3	15.0	15.4	15.2	14.9	15.4	15.1	14.8	15.3	15.0	14.8
	125°F [51.7°C]	Total BTUH [kW]	130.9 [38.3]	126.3 [37.0]	121.7 [35.7]	122.6 [35.9]	118.3 [34.7]	114.0 [33.4]	120.0 [35.2]	115.8 [33.9]	111.6 [32.7]	121.6 [35.6]	117.3 [34.4]	113.1 [33.1]	125.7 [36.8]	121.3 [35.6]	116.9 [34.3]
		Sens BTUH [kW]	77.9 [22.8]	71.2 [20.9]	64.6 [18.9]	98.6 [28.9]	90.2 [26.4]	81.7 [24.0]	114.1 [33.4]	104.4 [30.6]	94.6 [27.7]	120.8 [35.4]	110.5 [32.4]	100.1 [29.3]	125.7 [36.8]	116.4 [34.1]	105.5 [30.9]
		Power	16.5	16.2	15.9	16.4	16.1	15.8	16.2	16.0	15.7	16.2	15.9	15.6	16.1	15.9	15.6

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —KW input

NOTES:

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

COOLING PERFORMANCE DATA—RACL2180+RHCLA2180

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①																		
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			61°F [16.1°C]			59°F [15.0°C]		
CFM [L/s]			6600 [3115]	5500 [2596]	4400 [2077]	6600 [3115]	5500 [2596]	4400 [2077]	6600 [3115]	5500 [2596]	4400 [2077]	6600 [3115]	5500 [2596]	4400 [2077]	6600 [3115]	5500 [2596]	4400 [2077]
DR ①			0.07	0.03	-0.02	0.07	0.03	-0.02	0.07	0.03	-0.02	0.07	0.03	-0.02	0.07	0.03	-0.02
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75°F [23.9°C]	Total BTUH [kW]	153.5 [45.0]	148.1 [43.4]	142.7 [41.8]	141.5 [41.5]	136.5 [40.0]	131.6 [38.6]	105.7 [31.0]	102.0 [29.9]	98.3 [28.8]	78.9 [23.1]	76.2 [22.3]	73.4 [21.5]	46.2 [13.5]	44.6 [13.1]	42.9 [12.6]
		Sens BTUH [kW]	80.0 [23.4]	73.1 [21.4]	66.3 [19.4]	105.6 [31.0]	96.6 [28.3]	87.6 [25.7]	97.9 [28.7]	89.6 [26.2]	81.2 [23.8]	78.9 [23.1]	73.4 [21.5]	66.5 [19.5]	46.2 [13.5]	44.6 [13.1]	42.9 [12.6]
		Power	11.6	11.4	11.2	11.6	11.4	11.2	11.5	11.3	11.1	11.5	11.3	11.1	11.4	11.2	11.0
	80°F [26.7°C]	Total BTUH [kW]	173.1 [50.7]	167.1 [49.0]	161.0 [47.2]	161.1 [47.2]	155.5 [45.6]	149.8 [43.9]	125.4 [36.7]	121.0 [35.5]	116.6 [34.2]	98.6 [28.9]	95.1 [27.9]	91.7 [26.9]	65.8 [19.3]	63.5 [18.6]	61.2 [17.9]
		Sens BTUH [kW]	99.7 [29.2]	91.2 [26.7]	82.7 [24.2]	125.4 [36.8]	114.7 [33.6]	104.0 [30.5]	117.7 [34.5]	107.7 [31.6]	97.6 [28.6]	98.6 [28.9]	91.5 [26.8]	82.9 [24.3]	65.8 [19.3]	63.5 [18.6]	59.8 [17.5]
		Power	12.2	12.0	11.8	12.1	11.9	11.7	12.1	11.9	11.7	12.1	11.8	11.6	12.0	11.8	11.6
	85°F [29.4°C]	Total BTUH [kW]	186.8 [54.7]	180.3 [52.8]	173.7 [50.9]	174.8 [51.2]	168.7 [49.4]	162.6 [47.6]	139.1 [40.8]	134.2 [39.3]	129.3 [37.9]	112.3 [32.9]	108.3 [31.7]	104.4 [30.6]	79.5 [23.3]	76.7 [22.5]	73.9 [21.7]
		Sens BTUH [kW]	113.6 [33.3]	103.9 [30.5]	94.2 [27.6]	139.3 [40.8]	127.4 [37.3]	115.5 [33.9]	131.6 [38.6]	120.4 [35.3]	109.1 [32.0]	112.3 [32.9]	104.2 [30.5]	94.5 [27.7]	79.5 [23.3]	76.7 [22.5]	71.3 [20.9]
		Power	12.8	12.6	12.4	12.8	12.6	12.3	12.7	12.5	12.3	12.7	12.5	12.2	12.6	12.4	12.2
	90°F [32.2°C]	Total BTUH [kW]	194.5 [57.0]	187.7 [55.0]	180.9 [53.0]	182.5 [53.5]	176.1 [51.6]	169.7 [49.7]	146.8 [43.0]	141.6 [41.5]	136.5 [40.0]	120.0 [35.2]	115.7 [33.9]	111.5 [32.7]	87.2 [25.6]	84.1 [24.7]	81.1 [23.8]
		Sens BTUH [kW]	121.6 [35.6]	111.3 [32.6]	100.9 [29.6]	147.3 [43.2]	134.7 [39.5]	122.2 [35.8]	139.6 [40.9]	127.7 [37.4]	115.8 [33.9]	120.0 [35.2]	111.5 [32.7]	101.1 [29.6]	87.2 [25.6]	84.1 [24.7]	78.0 [22.8]
		Power	13.5	13.3	13.0	13.5	13.2	13.0	13.4	13.2	12.9	13.4	13.1	12.9	13.3	13.1	12.9
	95°F [35°C]	Total BTUH [kW]	196.2 [57.5]	189.3 [55.5]	182.4 [53.5]	184.2 [54.0]	177.8 [52.1]	171.3 [50.2]	148.5 [43.5]	143.3 [42.0]	138.1 [40.5]	121.7 [35.7]	117.4 [34.4]	113.1 [33.2]	88.9 [26.1]	85.8 [25.1]	82.7 [24.2]
		Sens BTUH [kW]	123.8 [36.3]	113.2 [33.2]	102.6 [30.1]	149.4 [43.8]	136.7 [40.0]	123.9 [36.3]	141.7 [41.5]	129.6 [38.0]	117.5 [34.4]	121.7 [35.7]	113.4 [33.2]	102.9 [30.1]	88.9 [26.1]	85.8 [25.1]	79.7 [23.4]
		Power	14.3	14.0	13.8	14.2	13.9	13.7	14.1	13.9	13.6	14.1	13.9	13.6	14.1	13.8	13.6
	100°F [37.8°C]	Total BTUH [kW]	192.0 [56.2]	185.2 [54.3]	178.5 [52.3]	180.0 [52.7]	173.7 [50.9]	167.3 [49.0]	144.2 [42.3]	139.1 [40.8]	134.1 [39.3]	117.4 [34.4]	113.3 [33.2]	109.2 [32.0]	84.7 [24.8]	81.7 [23.9]	78.7 [23.1]
		Sens BTUH [kW]	120.0 [35.2]	109.7 [32.2]	99.5 [29.2]	145.7 [42.7]	133.2 [39.0]	120.8 [35.4]	138.0 [40.4]	126.2 [37.0]	114.4 [33.5]	117.4 [34.4]	110.0 [32.2]	99.7 [29.2]	84.7 [24.8]	81.7 [23.9]	76.6 [22.4]
		Power	15.0	14.8	14.5	15.0	14.7	14.5	14.9	14.7	14.4	14.9	14.6	14.4	14.9	14.6	14.3
	105°F [40.6°C]	Total BTUH [kW]	181.7 [53.2]	175.3 [51.4]	169.0 [49.5]	169.7 [49.7]	163.8 [48.0]	157.8 [46.2]	134.0 [39.3]	129.3 [37.9]	124.6 [36.5]	107.2 [31.4]	103.4 [30.3]	99.6 [29.2]	74.4 [21.8]	71.8 [21.0]	69.2 [20.3]
		Sens BTUH [kW]	110.3 [32.3]	100.9 [29.6]	91.5 [26.8]	136.0 [39.8]	124.4 [36.4]	112.8 [33.0]	128.3 [37.6]	117.3 [34.4]	106.4 [31.2]	107.2 [31.4]	101.1 [29.6]	91.7 [26.9]	74.4 [21.8]	71.8 [21.0]	68.6 [20.1]
		Power	15.9	15.6	15.3	15.8	15.5	15.3	15.8	15.5	15.2	15.7	15.5	15.2	15.7	15.4	15.2
	110°F [43.3°C]	Total BTUH [kW]	165.5 [48.5]	159.7 [46.8]	153.9 [45.1]	153.5 [45.0]	148.1 [43.4]	142.7 [41.8]	117.7 [34.5]	113.6 [33.3]	109.5 [32.1]	90.9 [26.6]	87.7 [25.7]	84.6 [24.8]	58.2 [17.1]	56.2 [16.5]	54.1 [15.9]
		Sens BTUH [kW]	94.8 [27.8]	86.7 [25.4]	78.6 [23.0]	120.4 [35.3]	110.1 [32.3]	99.9 [29.3]	112.7 [33.0]	103.1 [30.2]	93.5 [27.4]	90.9 [26.6]	86.9 [25.5]	78.8 [23.1]	58.2 [17.1]	56.2 [16.5]	54.1 [15.9]
		Power	16.8	16.5	16.2	16.7	16.4	16.1	16.7	16.4	16.1	16.6	16.3	16.1	16.6	16.3	16.0
	115°F [46.1°C]	Total BTUH [kW]	143.3 [42.0]	138.3 [40.5]	133.2 [39.0]	131.3 [38.5]	126.7 [37.1]	122.1 [35.8]	95.5 [28.0]	92.2 [27.0]	88.8 [26.0]	68.7 [20.1]	66.3 [19.4]	63.9 [18.7]	36.0 [10.5]	34.7 [10.2]	33.5 [9.8]
		Sens BTUH [kW]	73.3 [21.5]	67.0 [19.6]	60.8 [17.8]	99.0 [29.0]	90.5 [26.5]	82.1 [24.1]	91.3 [26.8]	83.5 [24.5]	75.7 [22.2]	68.7 [20.1]	66.3 [19.4]	61.0 [17.9]	36.0 [10.5]	34.7 [10.2]	33.5 [9.8]
		Power	17.7	17.4	17.1	17.7	17.4	17.1	17.6	17.3	17.0	17.6	17.3	17.0	17.5	17.2	16.9
	120°F [48.9°C]	Total BTUH [kW]	115.1 [33.7]	111.1 [32.5]	107.0 [31.4]	103.1 [30.2]	99.5 [29.2]	95.9 [28.1]	67.4 [19.7]	65.0 [19.0]	62.6 [18.4]	40.6 [11.9]	39.1 [11.5]	37.7 [11.1]	7.8 [2.3]	7.5 [2.2]	7.3 [2.1]
		Sens BTUH [kW]	46.0 [13.5]	42.0 [12.3]	38.1 [11.2]	71.6 [21.0]	65.5 [19.2]	59.4 [17.4]	64.0 [18.7]	58.5 [17.1]	53.0 [15.5]	40.6 [11.9]	39.1 [11.5]	37.7 [11.1]	7.8 [2.3]	7.5 [2.2]	7.3 [2.1]
		Power	18.7	18.4	18.1	18.7	18.4	18.0	18.6	18.3	18.0	18.6	18.3	17.9	18.6	18.2	17.9
	125°F [51.7°C]	Total BTUH [kW]	80.9 [23.7]	78.1 [22.9]	75.3 [22.1]	69.0 [20.2]	66.5 [19.5]	64.1 [18.8]	33.2 [9.7]	32.0 [9.4]	30.9 [9.0]	6.4 [1.9]	6.2 [1.8]	5.9 [1.7]	-26.4 [-7.7]	-25.4 [-7.5]	-24.5 [-7.2]
		Sens BTUH [kW]	12.7 [3.7]	11.7 [3.4]	10.6 [3.1]	38.4 [11.3]	35.1 [10.3]	31.9 [9.3]	30.7 [9.0]	28.1 [8.2]	25.5 [7.5]	6.4 [1.9]	6.2 [1.8]	5.9 [1.7]	-26.4 [-7.7]	-25.4 [-7.5]	-24.5 [-7.2]
		Power	19.8	19.5	19.1	19.7	19.4	19.0	19.7	19.3	19.0	19.6	19.3	19.0	19.6	19.3	18.9

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —KW input

NOTES:
① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

COOLING PERFORMANCE DATA—RACL2240+RHCLA2240

ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①																		
wbE			71°F [21.7°C]			67°F [19.4°C]			63°F [17.2°C]			61°F [16.1°C]			59°F [15.0°C]		
CFM [L/s]			8640 [4078]	7200 [3398]	5760 [2718]	8640 [4078]	7200 [3398]	5760 [2718]	8640 [4078]	7200 [3398]	5760 [2718]	8640 [4078]	7200 [3398]	5760 [2718]	8640 [4078]	7200 [3398]	5760 [2718]
DR ①			0.11	0.08	0.04	0.11	0.08	0.04	0.11	0.08	0.04	0.11	0.08	0.04	0.11	0.08	0.04
OUTDOOR DRY BULB TEMPERATURE °F [°C]	75°F [23.9°C]	Total BTUH [kW]	329.1 [96.4]	317.5 [93.0]	306.0 [89.7]	308.1 [90.3]	297.3 [87.1]	286.5 [84.0]	289.6 [84.9]	279.4 [81.9]	269.3 [78.9]	281.7 [82.6]	271.8 [79.7]	262.0 [76.8]	275.1 [80.6]	265.5 [77.8]	255.8 [75.0]
		Sens BTUH [kW]	195.9 [57.4]	179.2 [52.5]	162.5 [47.6]	227.9 [66.8]	208.5 [61.1]	189.0 [55.4]	253.3 [74.2]	231.6 [67.9]	210.0 [61.5]	262.3 [76.9]	239.9 [70.3]	217.5 [63.7]	268.2 [78.6]	245.3 [71.9]	222.4 [65.2]
		Power	238.6	234.5	230.4	238.3	234.1	230.0	237.9	233.8	229.7	237.7	233.6	229.5	237.6	233.4	229.3
	80°F [26.7°C]	Total BTUH [kW]	314.8 [92.3]	303.8 [89.0]	292.7 [85.8]	293.9 [86.1]	283.6 [83.1]	273.3 [80.1]	275.4 [80.7]	265.7 [77.9]	256.0 [75.0]	267.5 [78.4]	258.1 [75.6]	248.7 [72.9]	260.9 [76.4]	251.7 [73.8]	242.6 [71.1]
		Sens BTUH [kW]	187.0 [54.8]	171.0 [50.1]	155.1 [45.4]	219.0 [64.2]	200.3 [58.7]	181.6 [53.2]	244.3 [71.6]	223.5 [65.5]	202.6 [59.4]	253.4 [74.3]	231.8 [67.9]	210.1 [61.6]	259.2 [76.0]	237.1 [69.5]	215.0 [63.0]
		Power	239.3	235.2	231.0	239.0	234.8	230.7	238.6	234.5	230.3	238.4	234.3	230.2	238.3	234.1	230.0
	85°F [29.4°C]	Total BTUH [kW]	301.7 [88.4]	291.1 [85.3]	280.5 [82.2]	280.7 [82.3]	270.9 [79.4]	261.0 [76.5]	262.2 [76.8]	253.0 [74.1]	243.8 [71.4]	254.3 [74.5]	245.4 [71.9]	236.5 [69.3]	247.7 [72.6]	239.0 [70.0]	230.3 [67.5]
		Sens BTUH [kW]	178.9 [52.4]	163.6 [47.9]	148.3 [43.5]	210.9 [61.8]	192.9 [56.5]	174.9 [51.3]	236.2 [69.2]	216.1 [63.3]	195.9 [57.4]	245.3 [71.9]	224.3 [65.7]	203.4 [59.6]	247.7 [72.6]	229.7 [67.3]	208.3 [61.0]
		Power	240.1	236.0	231.8	239.8	235.6	231.5	239.4	235.3	231.1	239.2	235.1	230.9	239.1	234.9	230.8
	90°F [32.2°C]	Total BTUH [kW]	289.5 [84.8]	279.4 [81.9]	269.2 [78.9]	268.6 [78.7]	259.2 [75.9]	249.8 [73.2]	250.1 [73.3]	241.3 [70.7]	232.5 [68.1]	242.2 [71.0]	233.7 [68.5]	225.2 [66.0]	235.6 [69.0]	227.3 [66.6]	219.1 [64.2]
		Sens BTUH [kW]	171.6 [50.3]	156.9 [46.0]	142.3 [41.7]	203.6 [59.7]	186.2 [54.6]	168.9 [49.5]	228.9 [67.1]	209.4 [61.4]	189.8 [55.6]	238.0 [69.7]	217.7 [63.8]	197.4 [57.8]	235.6 [69.0]	223.0 [65.4]	202.2 [59.3]
		Power	241.0	236.9	232.7	240.7	236.5	232.3	240.3	236.2	232.0	240.1	236.0	231.8	240.0	235.8	231.6
	95°F [35°C]	Total BTUH [kW]	278.5 [81.6]	268.7 [78.7]	259.0 [75.9]	257.6 [75.5]	248.5 [72.8]	239.5 [70.2]	239.0 [70.0]	230.6 [67.6]	222.3 [65.1]	231.2 [67.7]	223.0 [65.4]	214.9 [63.0]	224.5 [65.8]	216.7 [63.5]	208.8 [61.2]
		Sens BTUH [kW]	165.1 [48.4]	151.0 [44.3]	136.9 [40.1]	197.1 [57.8]	180.3 [52.8]	163.5 [47.9]	222.5 [65.2]	203.5 [59.6]	184.5 [54.1]	231.2 [67.7]	211.7 [62.1]	192.0 [56.3]	224.5 [65.8]	216.7 [63.5]	196.8 [57.7]
		Power	242.1	237.9	233.7	241.7	237.5	233.3	241.3	237.2	233.0	241.2	237.0	232.8	241.0	236.8	232.6
	100°F [37.8°C]	Total BTUH [kW]	268.5 [78.7]	259.1 [75.9]	249.7 [73.2]	247.6 [72.5]	238.9 [70.0]	230.2 [67.5]	229.0 [67.1]	221.0 [64.8]	213.0 [62.4]	221.2 [64.8]	213.4 [62.5]	205.6 [60.3]	214.5 [62.9]	207.0 [60.7]	199.5 [58.5]
		Sens BTUH [kW]	159.5 [46.7]	145.8 [42.7]	132.2 [38.7]	191.5 [56.1]	175.1 [51.3]	158.8 [46.5]	216.8 [63.5]	198.3 [58.1]	179.8 [52.7]	221.2 [64.8]	206.6 [60.5]	187.3 [54.9]	214.5 [62.9]	20.07 [60.7]	192.2 [56.3]
		Power	243.2	239.0	234.7	242.8	238.6	234.4	242.5	238.3	234.1	242.3	238.1	233.9	242.1	237.9	233.7
	105°F [40.6°C]	Total BTUH [kW]	259.6 [76.1]	250.5 [73.4]	241.4 [70.7]	238.6 [69.9]	230.3 [67.5]	221.9 [65.0]	220.1 [64.5]	212.4 [62.2]	204.7 [60.0]	212.2 [62.2]	204.8 [60.0]	197.4 [57.8]	205.6 [60.3]	198.4 [58.1]	191.2 [56.0]
		Sens BTUH [kW]	154.6 [45.3]	141.4 [41.4]	128.2 [37.6]	186.6 [54.7]	170.7 [50.0]	154.8 [45.4]	212.0 [62.1]	193.9 [56.8]	175.8 [51.5]	212.2 [62.2]	202.1 [59.2]	183.3 [53.7]	205.6 [60.3]	198.4 [58.1]	188.1 [55.1]
		Power	244.4	240.2	235.9	244.1	239.8	235.6	243.7	239.5	235.2	243.5	239.3	235.1	243.3	239.1	234.9
	110°F [43.3°C]	Total BTUH [kW]	251.7 [73.8]	242.9 [71.2]	234.1 [68.6]	230.8 [67.6]	222.7 [65.3]	214.6 [62.9]	212.3 [62.2]	204.8 [60.0]	197.4 [57.8]	204.4 [59.9]	197.2 [57.8]	190.0 [55.7]	197.8 [58.0]	190.8 [55.9]	183.9 [53.9]
		Sens BTUH [kW]	150.6 [44.1]	137.7 [40.4]	124.9 [36.6]	182.6 [53.5]	167.0 [48.9]	151.4 [44.4]	207.9 [60.9]	190.2 [55.7]	172.4 [50.5]	204.4 [59.9]	197.2 [57.8]	179.9 [52.7]	197.8 [58.0]	190.8 [55.9]	183.9 [53.9]
		Power	245.8	241.5	237.2	245.4	241.1	236.9	245.0	240.8	236.5	244.9	240.6	236.4	244.7	240.4	236.2
	115°F [46.1°C]	Total BTUH [kW]	244.9 [71.8]	236.3 [69.3]	227.7 [66.7]	224.0 [65.6]	216.1 [63.3]	208.3 [61.0]	205.5 [60.2]	198.3 [58.1]	191.0 [56.0]	197.6 [57.9]	190.7 [55.9]	183.7 [53.8]	191.0 [56.0]	184.3 [54.0]	177.6 [52.0]
		Sens BTUH [kW]	147.4 [43.2]	134.8 [39.5]	122.2 [35.8]	179.4 [52.6]	164.1 [48.1]	148.8 [43.6]	204.7 [60.0]	187.2 [54.9]	169.8 [49.7]	197.6 [57.9]	190.7 [55.9]	177.3 [51.9]	191.0 [56.0]	184.3 [54.0]	177.6 [52.0]
		Power	247.2	242.9	238.6	246.8	242.6	238.3	246.5	242.2	237.9	246.3	242.0	237.8	246.1	241.9.0	237.6
	120°F [48.9°C]	Total BTUH [kW]	239.2 [70.1]	230.8 [67.6]	222.4 [65.2]	218.2 [64.0]	210.6 [61.7]	202.9 [59.5]	199.7 [58.5]	192.7 [56.5]	185.7 [54.4]	191.8 [56.2]	185.1 [54.2]	178.4 [52.3]	185.2 [54.3]	178.7 [52.4]	172.2 [50.5]
		Sens BTUH [kW]	145.0 [42.5]	132.6 [38.9]	120.2 [35.2]	177.0 [51.9]	161.9 [47.4]	146.8 [43.0]	199.7 [58.5]	185.0 [54.2]	167.8 [49.2]	191.8 [56.2]	185.1 [54.2]	175.3 [51.4]	185.2 [54.3]	178.7 [52.4]	172.2 [50.5]
		Power	248.8	244.4	240.1	248.4	244.1	239.8	248.0	243.7	239.4	247.9	243.6	239.3	247.7	243.4	239.1
	125°F [51.7°C]	Total BTUH [kW]	234.5 [68.7]	226.3 [66.3]	218.1 [63.9]	213.6 [62.6]	206.1 [60.4]	198.6 [58.2]	195.1 [57.2]	188.2 [55.2]	181.4 [53.1]	187.2 [54.9]	180.6 [52.9]	174.0 [51.0]	180.6 [52.9]	174.2 [51.1]	167.9 [49.2]
		Sens BTUH [kW]	143.4 [42.0]	131.1 [38.4]	118.9 [34.8]	175.4 [51.4]	160.4 [47.0]	145.5 [42.6]	195.1 [57.2]	183.6 [53.8]	166.5 [48.8]	187.2 [54.9]	180.6 [52.9]	174.0 [51.0]	180.6 [52.9]	174.2 [51.1]	167.9 [49.2]
		Power	250.4	246.1	241.7	250.1	245.7	241.4	249.7	245.4	241.0	249.5	245.2	240.9	249.4	245.0	240.7

DR —Depression ratio
dbE —Entering air dry bulb
wbE—Entering air wet bulb

Total —Total capacity x 1000 BTUH
Sens —Sensible capacity x 1000 BTUH
Power —KW input

NOTES:

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding [1.10 x CFM x (1 – DR) x (dbE – 80)].

[ ] Designates Metric Conversions

ELECTRICAL DATA—WITHOUT ELECTRIC HEAT

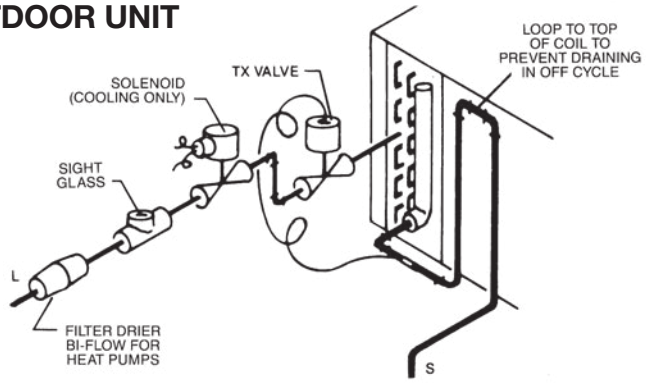
MODEL NUMBER	DRIVE PACKAGE	AIR HANDLER MOTOR					MINIMUM CIRCUIT AMPACITY	RECOMMENDED MINIMUM COPPER WIRE SIZE/ MAX. RUN IN FEET	MAXIMUM OVERCURRENT PROTECTION AMPS
		HP	VOLTS	PHASE	RATING PLATE AMPS	MOTOR LRA			
AC									
RHCLA2090C	R,S	2	208/230	3	6.2	47	15	#14 / 165	15
RHCLA2090D	R,S	2	460	3	3	24	15	#14 / 275	15
RHCLA2090C	T	3	208/230	3	9.2	74.5	15	#14 / 135	15
RHCLA2090D	T	3	460	3	4.6	38.1	15	#14 / 230	15
RHCLA2120C	R,S	2	208/230	3	6.2	47	15	#14 / 165	15
RHCLA2120D	R,S	2	460	3	3	24	15	#14 / 275	15
RHCLA2120C	T	3	208/230	3	9.2	74.5	15	#14 / 135	15
RHCLA2120D	T	3	460	3	4.6	38.1	15	#14 / 230	15
RHCLA2150C	R	2	208/230	3	5.8	56.0	15	#14/165	15
RHCLA2150D	R	2	460	3	2.9	28.4	15	#14/275	15
RHCLA2150C	S	3	208/230	3	8.7	56.0	15	#14/135	15
RHCLA2150D	S	3	460	3	4.1	28.4	15	#14/230	15
RHCLA2150C	T	5	208/230	3	13.6-12.6	86-95	15	#10/240/#12/150	15
RHCLA2150D	T	5	460	3	6.3	47.5	15	#14/185	15
RHCLA2240C	R	5	208/230	3	13.6-12.6	86-95	15	#10/240/#12/150	15
RHCLA2240D	R	5	460	3	6.3	47.5	15	#14/185	15
RHCLA2240C	S, T	7.5	208/230	3	21.0-19.2	115-127	15	#10/150	15
RHCLA2240D	S, T	7.5	460	3	9.6	63.5	15	#14-135	15

ELECTRICAL DATA—WITH ELECTRIC HEAT

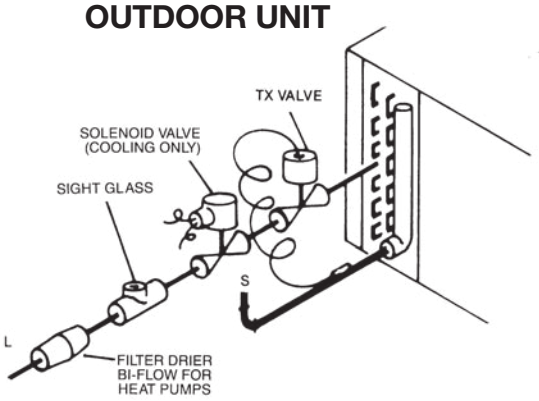
MODEL NUMBER	HEATER KIT				HEATING CAPACITY		MIN. CIRCUIT AMPACITY	MAX FUSE OR HACR BREAKER SIZE
	MODEL	VOLTAGE	kW	AMPS	kW	MBH		
AC								
RHCLA2090C	RXHE-DE020CA	208/240	20	43.1/48.9	15.6/20.2	53.2/68.9	67/73	70/80
RHCLA2090C	RXHE-DE030CA	208/240	30	60.8/70.2	11.0/29.6	75.1/101	89/100	90/100
RHCLA2090D	RXHE-DE020DA	480	20	24.7	20.2	68.9	37	40
RHCLA2090D	RXHE-DE030DA	480	30	35	29.7	101.3	50	50
RHCLA2120C	RXHE-DE020CA	208/240	20	43.1/48.9	15.6/20.2	53.2/68.9	67/73	70/80
RHCLA2120C	RXHE-DE030CA	208/240	30	60.8/70.2	11.0/29.6	75.1/101	89/100	90/100
RHCLA2120D	RXHE-DE020DA	480	20	24.7	20.2	68.9	37	40
RHCLA2120D	RXHE-DE030DA	480	30	35	29.7	101.3	50	50
RHCLA2150C	RXHE-CE030CC	208/230	30	60/70	21.6/28.8	73.7/98.3	105/115	110/125
RHCLA2150C	RXHE-CE040CC	208/230	40	83/96	30/40	102.4/136.5	134/148	150/150
RHCLA2150D	RXHE-CE030DC	460	30	35	28.8	98.3	58	60
RHCLA2150D	RXHE-CE040DC	460	40	48	40	136.5	74	80
RHCLA2240C	RXHE-CE030CC	208/230	30	60/70	21.6/28.8	73.7/98.3	105/115	110/125
RHCLA2240C	RXHE-CE040CC	208/230	40	83/96	30/40	102.4/136.5	134/148	150/150
RHCLA2240D	RXHE-CE030DC	460	30	35	28.8	98.3	58	60
RHCLA2240D	RXHE-CE040DC	460	40	48	40	136.5	74	80

TYPICAL PIPING RECOMMENDATIONS

INDOOR COIL ABOVE OUTDOOR UNIT



INDOOR COIL BELOW OUTDOOR UNIT



NOTE: PIPING ACCESSORIES SHOWN SHOULD BE MOUNTED AS CLOSE TO AIR HANDLING UNIT AS POSSIBLE.

REFRIGERANT PIPING

1. Size liquid line for no more than 50 PSIG pressure drop.
2. Size suction lines for no more than 2°F loss, which corresponds to approximately 5 PSIG pressure drop.
3. When evaporator is installed below condensing unit, do not exceed the recommend-ed suction line O.D. This will insure adequate velocities for proper oil return.
4. Install strainer-drier and sight glass in liquid line.
5. Pitch all horizontal suction lines downward in the direction of flow.
6. When making up refrigerant piping, take every precaution to prevent dirt and moisture from entering the piping.
7. Locate the condensing unit and evaporator(s) as close together as possible to minimize piping runs.
8. A liquid line solenoid installed just ahead of the expansion valve is recommended.
9. See tables below for general refrigerant line sizing and equivalent length of valves and fittings.
10. Refer to the vapor and liquid line selection procedure and charts in the outdoor unit installation manual or literature for more specific refrigerant line sizing information. When dual outdoor units are matched with the air-handler using dual circuits, size the refrigerant lines for each system independently.

RECOMMENDED VAPOR AND LIQUID LINE SIZES FOR VARIOUS LENGTHS OF RUN				
LINEAR LENGTH (FT.) [m]	LIQUID LINE O.D. SIZES (IN.) [mm]		VAPOR LINE O.D. SIZES (IN.) [mm]	
	090	120	090	120
0-40 [0-12.19]	1/2 [12.7]	5/8 [15.88]	1 1/8 [28.58]	1 3/8 [34.93]
41-90 [12.5-27.43]	1/2 [12.7]	5/8 [15.88]	1 3/8 [34.93]*	1 3/8 [34.93]*

***NOTE:** With the outdoor unit located below the indoor air handler, all vertical vapor lines must not exceed 1 1/8" [28.58 mm] O.D.

[ ] Designates Metric Conversions

CONDENSATE DRAIN PIPING

- Consult local codes or ordinances for specific requirements regarding condensate drain.
- Condensate drain is open to atmosphere and must be trapped. Trap must be at least 3 inches [76 mm] deep and made of flexible material or fabricated to prevent freeze-up.
- Pitch the drain line at least 1/4 inch [6 mm] per foot away from the drain pan.
- Do not reduce the drain line size from the connection size provided on the unit.
- Do not connect the drain line to a closed sewer line.

TYPICAL PIPING RECOMMENDATIONS

All models are provided with dual circuit coil manifolds that can be configured for dual condensing unit applications. The coil is circuited to provide full face coil operation for each system. Knock-outs are provided on both sides of the unit to allow the refrigerant tubing to enter from either side. Remove the rubber grommets from the parts bag and install them in the appropriate holes prior to running the line set tubing into the cabinet to seal around and protect the tubing. Copper fittings are provided in the parts bag to allow the two refrigerant circuits to be tied together for single condensing unit applica-tions. The fittings may be installed to allow the tubing to enter the unit from either side as shown in Figure 5.

EQUIVALENT LENGTH (FT.) [m] OF STRAIGHT TYPE "L" TUBING FOR NON-FERROUS VALVES AND FITTINGS (BRAZED)				
TUBE SIZE INCHES [mm] O.D.	ANGLE VALVE	SHORT RADIUS ELL	LONG RADIUS ELL	TEE LINE FLOW
1/2 [12.7]	24 [7.32]	4.7 [1.43]	3.2 [0.98]	1.7 [0.52]
5/8 [15.88]	25 [7.62]	5.7 [1.74]	3.9 [1.19]	2.3 [0.70]
3/4 [19.05]	25 [7.62]	6.5 [1.98]	4.5 [1.37]	2.9 [0.88]
7/8 [22.23]	28 [8.53]	7.8 [2.38]	5.3 [1.62]	3.7 [1.13]
1 1/8 [28.58]	29 [8.84]	2.7 [0.82]	1.9 [0.58]	5.2 [1.59]
1 3/8 [34.93]	33 [10.06]	3.2 [0.98]	2.2 [0.67]	6.9 [2.10]

FIELD INSTALLED ACCESSORIES & KITS

ACCESSORY DESCRIPTION	MODEL NUMBER	SIZE USED ON	NET WEIGHT (LBS) [kg]
Hot Water Coil	RXHC-C74W	90,120	200 [91]
	RXHC-C76W	150,180,240	200 [91]
Steam Coil	RXHC-C74S	90,120	200 [91]
	RXHC-C76S	150,180,240	200 [91]
Auxiliary Heater Kit	RXHE-DE020*A	90,120	75 [34]
	RXHE-DE030*A	90,120	75 [34]
	RXHE-CE030*C	150,180,240	90 [41]
	RXHE-CE040*C	150,180,240	98 [44]
External Filter Rack	RXHF-F1	120	20 [9]

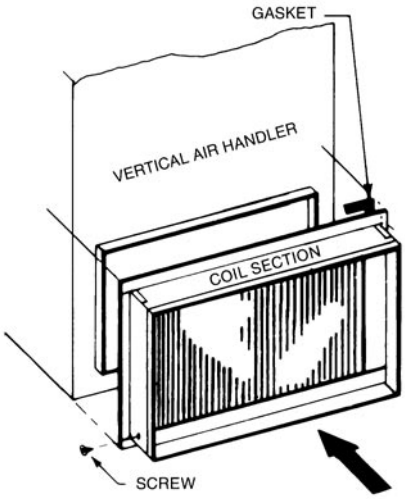
NOTE: *Designates "C", "D" or "Y" Voltage

ACCESSORY DESCRIPTION	MODEL NUMBER	SIZE USED ON	DIMENSIONS
MERV 13 Filter	RXMF-M13A11625	090, 120	1X16X25
	RXMF-M13A12025	150, 180, 240	1X20X25
MERV 8 Filter	RXMF-M08A11625	090, 120	1X16X25
	RXMF-M08A1205	150, 180, 240	1X20X25

RXHM MIXING BOX

RXHE ELECTRIC HEATER KIT

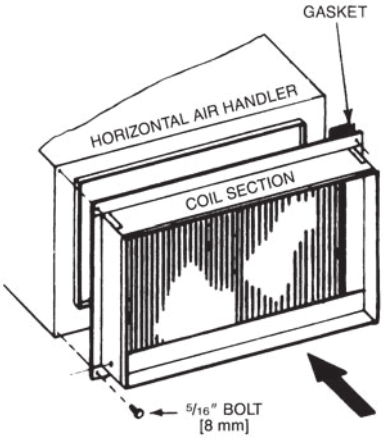
HOT WATER OR STEAM COILS



(090, 120) **RXHC-C74W RXHC-C74S**

or

(150, 180, 240) **RXHC-C76W RXHC-C76S**



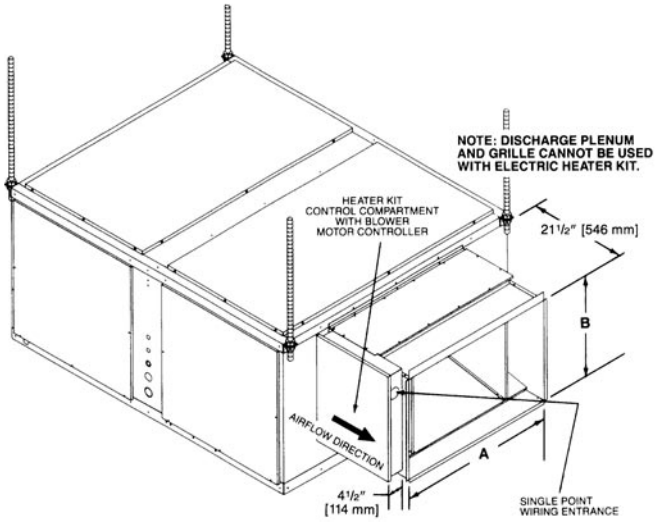
(090, 120) **RXHC-C74W RXHC-C74S**

or

(150, 180, 240) **RXHC-C76W RXHC-C76S**

ELECTRIC RESISTANCE HEATER KITS

Optional electrical heater kit shown installed in horizontal position and connected directly to the air handler. The heater kit may also be installed with the air handler set in the vertical position. In either position the heater kit control compartment must be on the left side facing the air discharge opening.



AUXILIARY HEATER KIT

MODEL NO.	IN. [mm]	
	A	B
RXHE-DE****A	20 [508]	20 [508]

[ ] Designates Metric Conversions

GUIDE SPECIFICATIONS

Furnish and install as shown on the drawing. The entire assembly shall be UL and cUL listed with the cooling capacity A.R.I. Certified.

DRIVE PACKAGE—A complete drive package shall be factory or field installed. Package shall consist of a 3450 RPM dual voltage, single phase open drip proof motor or a 3 phase 1750 RPM open drip proof internally protected motor, not requiring an external starter. Variable pitch motor sheave, fixed pitch fan sheave, and belt.

COILS—Coils shall be fabricated of 3/8" [10 mm] O.D. seamless copper tubing expanded into aluminum fins. All coils shall be submitted to an air pressure test of up to 550 PSIG [2068 kPa] under water after fabrication and dehydrated prior to assembly in unit. Units shall be shipped with a nitrogen holding charge. Airflow shall be draw through design providing uniform air distribution across the coil surface.

BLOWER, BEARINGS AND SHAFT—Fans shall be a double width, double inlet, forward curve, centrifugal type, statically and dynamically balanced, and constructed of galvanized steel. They shall be mounted on 3/4" [19 mm] = 7.5 ton [26 kW] diameter solid shafts made of high carbon steel, centerless ground and polished, supported by resilient mounted sealed bearings.

DRAIN PAN—The drain pan shall be manufactured of zinc coated steel. The pan shall have internally threaded pipe size drain connections and shall be designed to accept condensate in either horizontal or vertical type applications on either side of unit.

FILTERS—Filter mounting hardware shall be designed to accept up to 2" [51 mm] filters for field replacement. One inch [25 mm] throw away filters shall be furnished with the unit. MERV 13 & MERV 8 filters are available as an accessory.

CABINET—Cabinets shall be manufactured of galvanized steel subjected to multi-stage cleaning and finished with powder coat paint. Units shall have removable service access panels on each side and top.

INSULATION—Cabinets shall be insulated with 1/2" [13 mm] by 1-1/2 pound [.68 kg] density fiberglass insulation coated with neo-prene and bonded to the cabinet surface with a U.L. approved adhesive. Insulation shall have fire retarding characteristics in accordance with smoke developed rating not to exceed 50 and flame spread rating of 25 per Underwriters Laboratories testing procedures.

FACTORY TESTING—In addition to the pre-assembly testing mentioned above, each coil shall be leak tested after assembly into the unit. While under pressure, the coil shall be leak tested using an Electronic Leak Detector.

ELECTRIC HEATERS—UL and cUL listed electric heater kits shall be available in a wide range of capacities. All kits shall offer two stages of capacity, blower motor controller and single point connection. Heater kits shall be available for installation directly on the supply fan discharge for either horizontal or vertical application.

[ ] Designates Metric Conversions

GENERAL TERMS OF LIMITED WARRANTY*

Ruud will furnish a replacement for any part of this product which fails in normal use and services within the applicable periods stated below, in accordance with the terms of the limited warranty.

Any Part.....One (1) Year

*For Complete Details of the Limited Warranty, Including Applicable Terms and Conditions, See Your Local Installer or Contact the Manufacturer for a Copy.

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