

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]



TABLE OF CONTENTS

Unit Features	3
Model Number Identification	4
Unit Dimensions	5-6
Physical Data/Drive Package Data	7
Airflow Performance	8-16
Performance Data	17-22
Electric Heater Kits/Electric Data	23
Piping	24
Accessories	25
Guide Specifications	26
Limited Warranty	27



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 horsepower 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.

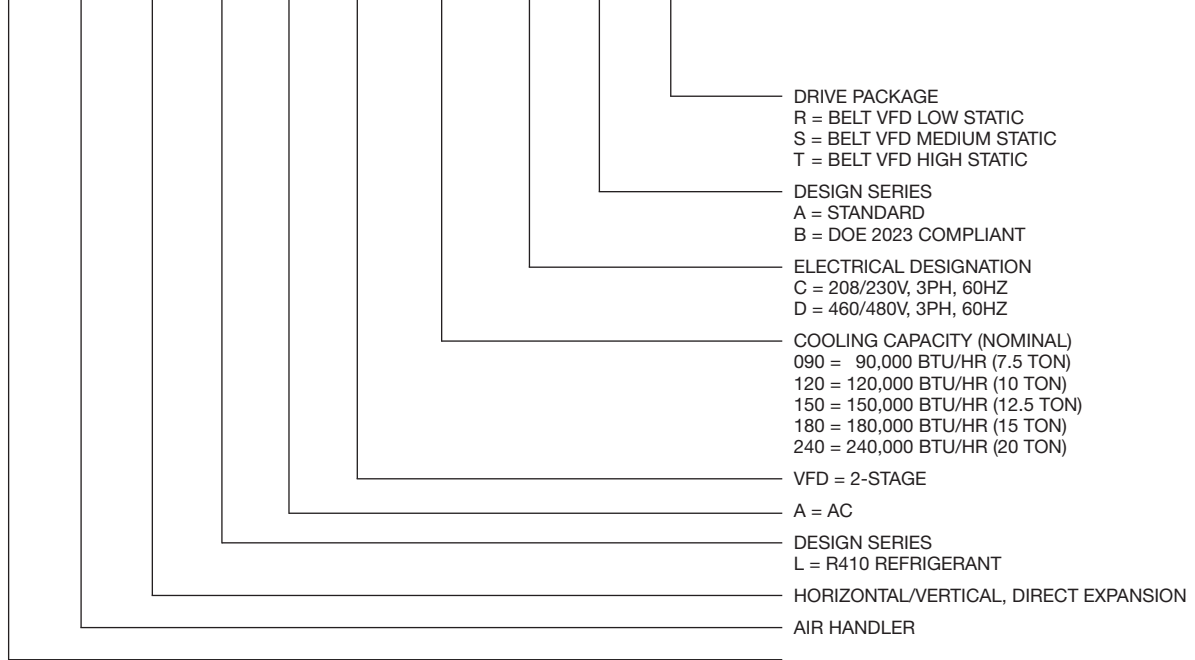
HORIZONTAL OR VERTICAL—All models are designed for either application and can be installed in either position as supplied from the factory.

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

[] Designates Metric Conversions

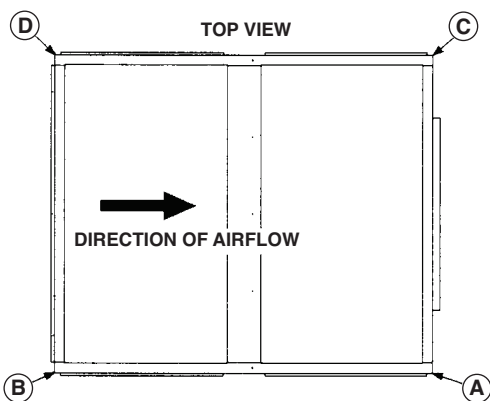


R H C L A 2 120 C A R



[] Designates Metric Conversions





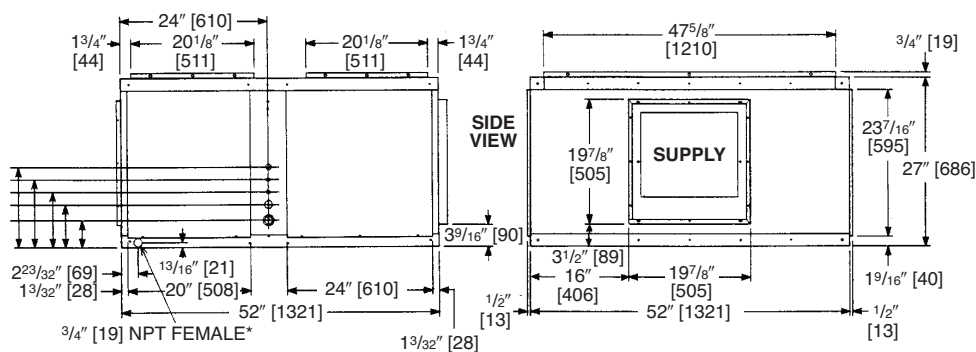
RETURN AIR OPENINGS = $47\frac{5}{8}$ " [1203] x $19\frac{7}{8}$ " [505] HEIGHT

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	$\frac{1}{2}$, $\frac{1}{2}$ [13, 13]	$\frac{7}{8}$, $\frac{7}{8}$ [22, 22]	$\frac{1}{2}$ [13]	$1\frac{1}{8}$ [29]
120	$\frac{1}{2}$, $\frac{1}{2}$ [13, 13]	$\frac{7}{8}$, $\frac{7}{8}$ [22, 22]	$\frac{5}{8}$ [16]	$1\frac{3}{8}$ [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]

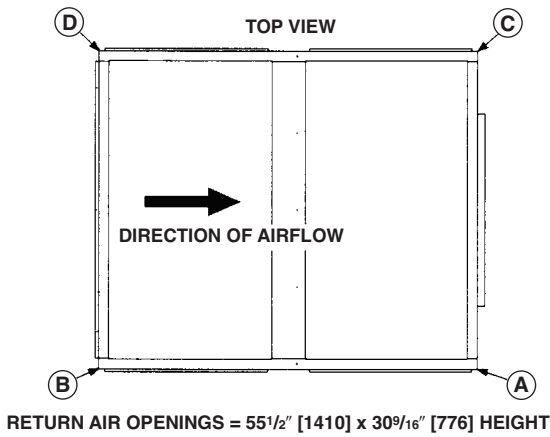
KNOCK-OUTS BOTH SIDES	
$\frac{7}{8}$ " [22]	$12\frac{13}{16}$ " [325]
$\frac{5}{8}$ " [16]	$10\frac{13}{16}$ " [275]
$\frac{5}{8}$ " [16]	$8\frac{13}{16}$ " [224]
$1\frac{1}{4}$ " [32]	$6\frac{13}{16}$ " [173]
$1\frac{1}{4}$ " x $1\frac{3}{4}$ " [32 x 44]	$4\frac{5}{16}$ " [110]



*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

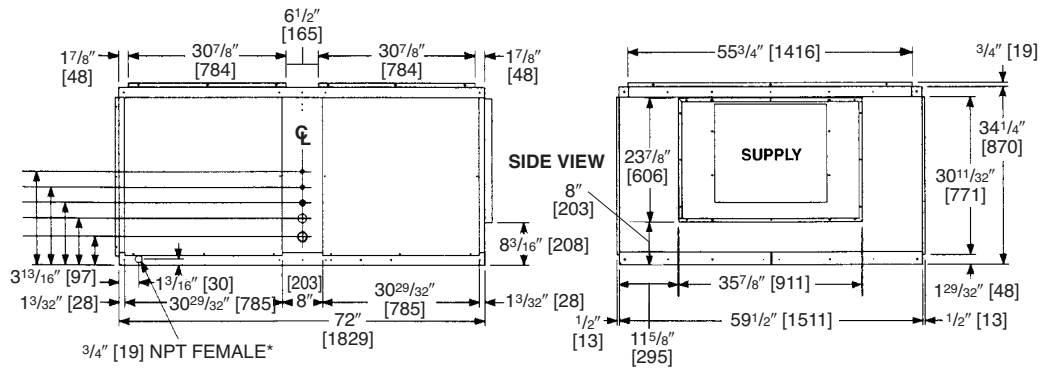
**RHCLA LBS. [kg]
12.5, 15 & 20 NOMINAL TONS
[44 & 70.3 kW]**



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 x 32]	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 [0.02]	0.2 [0.05]	0.3 [0.07]	0.4 [0.10]	0.5 [0.12]	0.6 [0.15]	0.7 [0.17]	0.8 [0.20]	0.9 [0.22]	1.0 [0.25]	1.1 [0.27]	1.2 [0.30]	1.3 [0.32]	1.4 [0.35]	1.5 [0.37]	1.6 [0.40]	1.7 [0.42]	1.8 [0.45]	1.9 [0.47]	2.0 [0.50]				
2400 [1133]	—	626 [590]	673 [644]	720 [696]	767 [745]	803 [792]	843 [854]	883 [915]	921 [976]	959 [1036]	995 [1085]	1035 [1103]	1066 [1212]	1096 [1268]	1126 [1327]	1156 [1387]	1185 [1449]	1214 [1513]	1237 [1497]	1267 [1582]				
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]	942 [1442]	985 [1516]	1017 [1590]	1035 [1640]	1065 [1720]	1095 [1801]	1125 [1893]	1154 [1968]	1182 [2054]	1211 [2142]	1254 [2222]	1279 [2298]	1308 [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														
	Sensible MBH					Power kW					Wet Coil					MERV 8 Filter					MERV 13 Filter				
	Total MBH	Sensible MBH	Power kW	Resistance Inches of Water [kPa]	Resistance Inches of Water	Total MBH	Sensible MBH	Power kW	Resistance Inches of Water [kPa]	Resistance Inches of Water	Total MBH	Sensible MBH	Power kW	Resistance Inches of Water [kPa]	Resistance Inches of Water	Total MBH	Sensible MBH	Power kW	Resistance Inches of Water [kPa]	Resistance Inches of Water					
2400 [1133]	0.93	0.73	0.96	0.04 [0.01]	0.153	0.93	0.74	0.96	0.05 [0.01]	0.164	0.94	0.76	0.97	0.05 [0.01]	0.175	0.94	0.78	0.97	0.05 [0.01]	0.186					
2500 [1180]	0.93	0.74	0.96	0.05 [0.01]	0.164	0.94	0.76	0.97	0.05 [0.01]	0.175	0.94	0.78	0.97	0.05 [0.01]	0.186	0.95	0.80	0.97	0.05 [0.01]	0.198					
2600 [1227]	0.94	0.76	0.97	0.05 [0.01]	0.175	0.94	0.78	0.97	0.06 [0.01]	0.209	0.95	0.81	0.97	0.06 [0.01]	0.220	0.95	0.83	0.98	0.06 [0.01]	0.221					
2700 [1274]	0.94	0.78	0.97	0.06 [0.01]	0.220	0.95	0.85	0.98	0.06 [0.01]	0.231	0.96	0.85	0.98	0.06 [0.01]	0.242	0.96	0.87	0.98	0.06 [0.01]	0.243					
2800 [1321]	0.95	0.80	0.97	0.06 [0.01]	0.231	0.96	0.87	0.98	0.07 [0.02]	0.253	0.97	0.88	0.99	0.07 [0.02]	0.264	0.97	0.90	0.99	0.07 [0.02]	0.264					
2900 [1368]	0.95	0.81	0.97	0.07 [0.02]	0.264	0.97	0.90	0.99	0.07 [0.02]	0.276	0.98	0.92	0.99	0.08 [0.02]	0.287	0.98	0.93	0.99	0.08 [0.02]	0.286					
3000 [1416]	0.95	0.83	0.98	0.08 [0.02]	0.287	0.98	0.93	0.99	0.08 [0.02]	0.298	0.99	0.95	1.00	0.09 [0.02]	0.309	0.99	0.95	1.00	0.09 [0.02]	0.296					
3100 [1463]	0.96	0.85	0.98	0.08 [0.02]	0.309	0.99	0.97	1.00	0.08 [0.02]	0.320	0.99	0.99	1.00	0.08 [0.02]	0.331	0.99	0.99	1.00	0.08 [0.02]	0.307					
3200 [1510]	0.96	0.87	0.98	0.09 [0.02]	0.331	0.99	1.00	1.00	0.09 [0.02]	0.342	0.99	1.00	1.00	0.09 [0.02]	0.353	0.99	1.00	1.00	0.09 [0.02]	0.318					
3300 [1557]	0.97	0.88	0.99	0.09 [0.02]	0.342	0.99	1.00	1.00	0.09 [0.02]	0.353	0.99	1.00	1.00	0.09 [0.02]	0.364	0.99	1.00	1.00	0.09 [0.02]	0.329					
3400 [1604]	0.97	0.90	0.99	0.09 [0.02]	0.353	0.99	1.00	1.00	0.09 [0.02]	0.364	0.99	1.00	1.00	0.09 [0.02]	0.375	0.99	1.00	1.00	0.09 [0.02]	0.329					
3500 [1652]	0.98	0.92	0.99	0.09 [0.02]	0.364	0.99	1.00	1.00	0.09 [0.02]	0.375	0.99	1.00	1.00	0.09 [0.02]	0.386	0.99	1.00	1.00	0.09 [0.02]	0.329					
3600 [1699]	0.98	0.93	0.99	0.09 [0.02]	0.375	0.99	1.00	1.00	0.09 [0.02]	0.386	0.99	1.00	1.00	0.09 [0.02]	0.397	0.99	1.00	1.00	0.09 [0.02]	0.329					
3700 [1746]	0.99	0.95	1.00	0.08 [0.02]	0.386	0.99	1.00	1.00	0.09 [0.02]	0.397	0.99	1.00	1.00	0.09 [0.02]	0.408	0.99	1.00	1.00	0.09 [0.02]	0.329					
3800 [1793]	0.99	0.97	1.00	0.08 [0.02]	0.397	0.99	1.00	1.00	0.09 [0.02]	0.408	0.99	1.00	1.00	0.09 [0.02]	0.419	0.99	1.00	1.00	0.09 [0.02]	0.329					
3900 [1840]	1.00	0.99	1.00	0.08 [0.02]	0.408	0.99	1.00	1.00	0.09 [0.02]	0.419	0.99	1.00	1.00	0.09 [0.02]	0.430	0.99	1.00	1.00	0.09 [0.02]	0.329					
4000 [1888]	1.00	1.00	1.01	0.09 [0.02]	0.419	0.99	1.00	1.00	0.09 [0.02]	0.430	0.99	1.00	1.00	0.09 [0.02]	0.441	0.99	1.00	1.00	0.09 [0.02]	0.329					

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

[] 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 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 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 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



COOLING PERFORMANCE DATA – RA-CL2090+RHCLA2090

WDE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
		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]	DR ①	3600 [1699]	3225 [1522]	2400 [1133]	3600 [1699]	3225 [1522]	2400 [1133]	3600 [1699]	3225 [1522]	2400 [1133]	3600 [1699]	3225 [1522]	2400 [1133]
75°F [23.9°C]	Total BTUH [kW]	104.3 [39.6]	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]	77.1 [22.8]	74.1 [21.7]
	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]
	Power	7.2	7.1	6.9	6.6	6.6	6.4	6.1	6.1	6.0	5.9	5.8	5.7
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]
	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]
	Power	7.4	7.3	7.2	6.9	6.8	6.6	6.3	6.3	6.2	6.1	6.0	5.8
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]
	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]
	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
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]
	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]
	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
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]
	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]
	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
100°F [37.8°C]	Total BTUH [kW]	91.9 [26.9]	89.6 [25.4]	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]
	Sens BTUH [kW]	60.9 [17.8]	57.7 [16.9]	50.8 [14.9]	68.0 [19.3]	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]
	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
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]
	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]
	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
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]
	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]
	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
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]
	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]
	Power	10.5	10.4	10.1	9.9	9.8	9.6	9.4	9.4	9.1	9.1	9.0	8.8
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]
	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]
	Power	11.1	11.0	10.7	10.5	10.4	10.2	10	9.9	9.7	9.7	9.6	9.4
125°F [51.7°C]	Total BTUH [kW]	71.5 [21.1]	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]
	Sens BTUH [kW]	47.7 [14.1]	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]
	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

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

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

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



COOLING PERFORMANCE DATA — RA-CL2120+RHCLA2120

wDE		ENTERING INDOOR AIR @ 80°F [26.7°C] dBE ①										61°F [16.1°C]			59°F [15.0°C]				
		71°F [21.7°C]		67°F [19.4°C]		63°F [17.2°C]		4560 [2152]		3400 [1605]		4560 [2152]		3400 [1605]		4560 [2152]		3400 [1605]	
CFM [L/s]	DR ①	4560 [2152]	3400 [1605]	3040 [1435]	3040 [1435]	4560 [2152]	3400 [1605]	3040 [1435]	3040 [1435]	4560 [2152]	3400 [1605]	3040 [1435]	3040 [1435]	4560 [2152]	3400 [1605]	3040 [1435]	3040 [1435]	4560 [2152]	3400 [1605]
75°F [23.9°C]	Total BTUH [KW]	145.0 [42.5]	136.5 [40.0]	133.9 [39.2]	133.9 [39.2]	135.1 [39.6]	127.2 [37.3]	124.8 [36.6]	124.8 [36.6]	119.6 [35.0]	117.5 [34.4]	115.3 [33.8]	110.4 [32.4]	114.2 [33.5]	107.6 [31.5]	105.5 [30.9]	105.5 [30.9]	114.2 [33.5]	107.6 [31.5]
	Sens BTUH [KW]	90.4 [26.5]	78.0 [22.9]	74.1 [21.7]	74.1 [21.7]	106.6 [31.2]	92.0 [27.0]	87.4 [25.6]	87.4 [25.6]	117.8 [34.5]	101.6 [29.8]	96.6 [28.3]	98.9 [29.0]	114.2 [33.5]	104.4 [30.6]	99.3 [29.1]	99.3 [29.1]	114.2 [33.5]	104.4 [30.6]
	Power	8.0	7.8	7.7	7.7	8.0	7.7	7.6	7.6	7.6	7.9	7.6	7.5	7.8	7.6	7.5	7.5	7.8	7.6
80°F [26.7°C]	Total BTUH [KW]	142.6 [41.8]	134.3 [39.4]	131.7 [38.6]	131.7 [38.6]	132.7 [38.9]	125.0 [36.6]	122.5 [35.9]	122.5 [35.9]	117.2 [34.3]	115.3 [33.8]	113.1 [33.1]	108.2 [31.7]	111.9 [32.8]	105.3 [30.9]	103.3 [30.3]	103.3 [30.3]	111.9 [32.8]	105.3 [30.9]
	Sens BTUH [KW]	89.4 [26.2]	77.1 [22.6]	73.3 [21.5]	73.3 [21.5]	105.6 [31.0]	91.1 [26.7]	86.6 [25.4]	86.6 [25.4]	116.8 [34.2]	100.7 [29.5]	95.7 [28.1]	98.1 [28.7]	111.9 [32.8]	103.6 [30.3]	98.4 [28.8]	98.4 [28.8]	111.9 [32.8]	103.6 [30.3]
	Power	8.4	8.1	8.1	8.1	8.3	8.1	8.0	8.0	8.2	8.0	7.9	7.9	8.2	7.9	7.9	7.9	8.2	7.9
85°F [29.4°C]	Total BTUH [KW]	140.0 [41.0]	131.8 [38.6]	129.3 [37.9]	129.3 [37.9]	130.1 [38.1]	122.5 [35.9]	120.1 [35.2]	120.1 [35.2]	119.8 [35.1]	112.8 [33.1]	110.7 [32.4]	105.8 [31.0]	109.2 [32.0]	102.8 [30.1]	100.9 [29.6]	100.9 [29.6]	109.2 [32.0]	102.8 [30.1]
	Sens BTUH [KW]	88.3 [25.9]	76.2 [22.3]	72.4 [21.2]	72.4 [21.2]	104.5 [30.6]	90.2 [26.4]	85.7 [25.1]	85.7 [25.1]	115.6 [33.9]	99.8 [29.2]	94.8 [27.8]	97.2 [28.5]	109.2 [32.0]	102.6 [30.1]	97.5 [28.6]	97.5 [28.6]	109.2 [32.0]	102.6 [30.1]
	Power	8.8	8.5	8.4	8.4	8.7	8.5	8.4	8.4	8.6	8.4	8.3	8.3	8.6	8.3	8.3	8.3	8.6	8.3
90°F [32.2°C]	Total BTUH [KW]	137.1 [40.2]	129.1 [37.8]	126.6 [37.1]	126.6 [37.1]	127.2 [37.3]	119.8 [35.1]	117.5 [34.4]	117.5 [34.4]	116.9 [34.3]	110.1 [32.3]	108.0 [31.6]	103.1 [30.2]	106.3 [31.2]	100.1 [29.3]	98.2 [28.8]	98.2 [28.8]	106.3 [31.2]	100.1 [29.3]
	Sens BTUH [KW]	87.1 [25.5]	75.1 [22.0]	71.4 [20.9]	71.4 [20.9]	103.3 [30.3]	89.1 [26.1]	84.7 [24.8]	84.7 [24.8]	114.4 [33.5]	98.7 [28.9]	93.8 [27.5]	96.1 [28.2]	106.3 [31.2]	100.1 [29.3]	95.0 [27.9]	95.0 [27.9]	106.3 [31.2]	100.1 [29.3]
	Power	9.2	8.9	8.9	8.9	9.1	8.9	8.8	8.8	9.1	8.8	8.7	8.7	9.0	8.7	8.7	8.7	9.0	8.7
95°F [35°C]	Total BTUH [KW]	134.0 [39.3]	126.2 [37.0]	123.7 [36.3]	123.7 [36.3]	124.1 [36.4]	116.8 [34.2]	114.6 [33.6]	114.6 [33.6]	113.8 [33.8]	107.2 [31.4]	105.1 [30.8]	100.2 [29.4]	103.2 [30.2]	97.2 [28.5]	95.3 [27.9]	95.3 [27.9]	103.2 [30.2]	97.2 [28.5]
	Sens BTUH [KW]	85.7 [25.1]	73.9 [21.7]	70.3 [20.6]	70.3 [20.6]	101.9 [29.9]	87.9 [25.8]	83.6 [24.5]	83.6 [24.5]	113.0 [33.1]	97.5 [28.6]	92.7 [27.2]	95.0 [27.9]	103.2 [30.2]	97.2 [28.5]	92.1 [26.8]	92.1 [26.8]	103.2 [30.2]	97.2 [28.5]
	Power	9.7	9.4	9.3	9.3	9.6	9.3	9.2	9.2	9.5	9.3	9.2	9.1	9.5	9.2	9.2	9.2	9.5	9.2
100°F [37.8°C]	Total BTUH [KW]	130.6 [38.3]	123.0 [36.0]	120.6 [35.3]	120.6 [35.3]	120.7 [35.4]	113.6 [33.3]	111.4 [32.7]	111.4 [32.7]	110.4 [32.4]	104.0 [30.5]	102.0 [29.9]	97.1 [28.5]	99.8 [29.2]	94.0 [27.5]	92.2 [27.0]	92.2 [27.0]	99.8 [29.2]	94.0 [27.5]
	Sens BTUH [KW]	84.2 [24.7]	72.6 [21.3]	69.0 [20.2]	69.0 [20.2]	100.4 [29.4]	86.6 [25.4]	82.4 [24.1]	82.4 [24.1]	110.4 [32.4]	96.2 [28.2]	91.5 [26.8]	93.8 [27.5]	99.8 [29.2]	94.0 [27.5]	89.0 [26.5]	89.0 [26.5]	99.8 [29.2]	94.0 [27.5]
	Power	10.2	9.9	9.8	9.8	10.1	9.8	9.7	9.7	10.0	9.7	9.6	9.6	10.0	9.7	9.7	9.7	10.0	9.7
105°F [40.6°C]	Total BTUH [KW]	126.9 [37.2]	119.5 [35.0]	117.2 [34.4]	117.2 [34.4]	117.0 [34.3]	110.2 [32.3]	108.1 [31.7]	108.1 [31.7]	106.8 [31.3]	100.5 [29.5]	98.6 [28.9]	93.7 [27.5]	96.2 [28.2]	90.5 [26.5]	88.8 [26.0]	88.8 [26.0]	96.2 [28.2]	90.5 [26.5]
	Sens BTUH [KW]	82.6 [24.2]	71.2 [20.9]	67.7 [19.8]	67.7 [19.8]	98.8 [29.0]	85.2 [25.0]	81.0 [23.7]	81.0 [23.7]	106.8 [31.3]	94.8 [27.8]	90.2 [26.4]	92.5 [27.1]	96.2 [28.2]	90.5 [26.5]	85.5 [25.0]	85.5 [25.0]	96.2 [28.2]	90.5 [26.5]
	Power	10.7	10.4	10.3	10.3	10.6	10.3	10.2	10.2	10.6	10.3	10.2	10.1	10.5	10.2	10.2	10.2	10.5	10.2
110°F [43.3°C]	Total BTUH [KW]	123.0 [36.1]	115.9 [33.9]	113.6 [33.3]	113.6 [33.3]	113.1 [33.2]	106.5 [31.2]	104.5 [30.6]	104.5 [30.6]	102.9 [30.1]	96.9 [28.4]	95.0 [27.8]	90.1 [26.4]	92.3 [27.0]	86.9 [25.5]	85.2 [25.0]	85.2 [25.0]	92.3 [27.0]	86.9 [25.5]
	Sens BTUH [KW]	80.8 [23.7]	69.7 [20.4]	66.3 [19.4]	66.3 [19.4]	97.1 [28.4]	83.7 [24.5]	79.6 [23.3]	79.6 [23.3]	102.9 [30.1]	93.3 [27.4]	88.7 [26.0]	90.1 [26.4]	92.3 [27.0]	86.9 [25.5]	81.9 [24.1]	81.9 [24.1]	92.3 [27.0]	86.9 [25.5]
	Power	11.3	10.9	10.8	10.8	11.2	10.9	10.8	10.8	11.1	10.8	10.7	10.7	11.1	10.7	10.7	10.7	11.1	10.7
115°F [46.1°C]	Total BTUH [KW]	118.9 [34.8]	111.9 [32.8]	109.8 [32.2]	109.8 [32.2]	109.0 [31.9]	102.6 [30.1]	100.6 [29.5]	100.6 [29.5]	98.7 [28.9]	92.9 [27.2]	91.2 [26.7]	86.3 [25.3]	88.1 [25.8]	83.0 [24.3]	81.4 [23.8]	81.4 [23.8]	88.1 [25.8]	83.0 [24.3]
	Sens BTUH [KW]	79.0 [23.1]	68.1 [20.0]	64.8 [19.0]	64.8 [19.0]	95.2 [27.9]	82.1 [24.1]	78.1 [22.9]	78.1 [22.9]	96.7 [28.9]	91.7 [26.9]	87.2 [25.6]	86.3 [25.3]	88.1 [25.8]	83.0 [24.3]	77.9 [22.8]	77.9 [22.8]	88.1 [25.8]	83.0 [24.3]
	Power	11.9	11.5	11.4	11.4	11.8	11.4	11.3	11.3	11.7	11.4	11.3	11.2	11.6	11.3	11.2	11.2	11.6	11.3
120°F [48.9°C]	Total BTUH [KW]	114.5 [33.5]	107.8 [31.6]	105.7 [31.0]	105.7 [31.0]	104.6 [30.6]	98.5 [28.9]	96.6 [28.3]	96.6 [28.3]	94.3 [27.6]	88.8 [26.0]	87.1 [25.5]	82.2 [24.1]	83.7 [24.5]	78.8 [23.1]	77.3 [22.6]	77.3 [22.6]	83.7 [24.5]	78.8 [23.1]
	Sens BTUH [KW]	77.0 [22.6]	66.4 [19.5]	63.1 [18.5]	63.1 [18.5]	93.2 [27.3]	80.4 [23.6]	76.5 [22.4]	76.5 [22.4]	94.3 [27.6]	88.8 [26.0]	85.6 [25.1]	82.2 [24.1]	83.7 [24.5]	78.8 [23.1]	73.3 [22.6]	73.3 [22.6]	83.7 [24.5]	78.8 [23.1]
	Power	12.5	12.1	12.0	12.0	12.4	12.0	11.9	11.9	12.3	12.0	11.9	11.8	12.3	11.9	11.8	11.8	12.3	11.9
125°F [51.7°C]	Total BTUH [KW]	109.8 [32.2]	103.4 [30.3]	101.4 [29.7]	101.4 [29.7]	99.9 [29.3]	94.1 [27.6]	92.3 [27.0]	92.3 [27.0]	89.6 [26.3]	84.4 [24.7]	82.8 [24.3]	77.9 [22.8]	79.0 [23.2]	74.4 [21.8]	73.0 [21.4]	73.0 [21.4]	79.0 [23.2]	74.4 [21.8]
	Sens BTUH [KW]	74.9 [21.9]	64.6 [18.9]	61.4 [18.0]	61.4 [18.0]	91.1 [26.7]	78.6 [23.0]	74.7 [21.9]	74.7 [21.9]	89.6 [26.3]	84.4 [24.7]	82.8 [24.3]	77.9 [22.8]	79.0 [23.2]	74.4 [21.8]	69.0 [20.0]	69.0 [20.0]	79.0 [23.2]	74.4 [21.8]
	Power	13.1	12.8	12.6	12.6	13.1	12.7	12.6	12.6	13.0	12.6	12.5	12.5	12.9	12.6	12.4	12.4	12.9	12.6

DR — Depression ratio
 dBE — Entering air dry bulb
 wDE — Entering air wet bulb

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

① When the entering air dry bulb is other than 80°F [27°C], adjust the sensible capacity from the table by adding $[1.10 \times \text{CFM} \times (1 - \text{DR}) \times (\text{dBE} - 80)]$.

[] Designates Metric Conversions



Air

Performance Data
RHCLA Series

COOLING PERFORMANCE DATA – RACL2150+RHCLA2150

WBE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
		71°F [21.7°C]		67°F [19.4°C]		63°F [17.2°C]		61°F [16.1°C]		60°F [2832]		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]
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
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]
	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]
	Power	10.0	9.8	9.6	9.9	9.7	9.5	9.8	9.6	9.4	9.7	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]
	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]
	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
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]
	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]
	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
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]
	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]
	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
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]
	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]
	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
100°F [37.8°C]	Total BTUH [kW]	157.6 [46.2]	152.0 [44.6]	146.5 [42.9]	149.9 [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]
	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]
	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
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]
	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]
	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
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]
	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]
	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
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]
	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]
	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
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]
	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]
	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
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]
	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]
	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

OUTDOOR DRY BULB TEMPERATURE °F [°C]

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)].



COOLING PERFORMANCE DATA — RACL2180+RHCLA2180

wBE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
		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]
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]
	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]
	Power	11.6	11.4	11.2	11.6	11.4	11.2	11.5	11.3	11.3	11.5	11.4	11.1
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]
	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]
	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
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]
	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]
	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
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]
	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]
	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
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]
	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]
	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
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]
	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]
	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
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]
	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]
	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
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]
	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]
	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
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]
	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]
	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
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]
	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]
	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
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]
	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]
	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

NOTES:

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

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)].

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



Air

Performance Data
RHCLA Series

COOLING PERFORMANCE DATA — RA-CL2240+RHCLA2240

WBE		ENTERING INDOOR AIR @ 80°F [26.7°C] dbE ①											
		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]
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
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]
	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]
	Power	238.6	234.5	230.4	238.3	234.1	233.8	237.9	233.6	233.6	229.5	237.6	233.4
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]
	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]
	Power	239.3	235.2	231.0	239.0	234.8	230.7	238.6	234.5	230.3	238.3	234.3	230.2
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]
	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]
	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
90°F [32.2°C]	Total BTUH [kW]	289.5 [84.8]	279.4 [81.9]	268.7 [78.7]	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]
	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]
	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
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]
	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]
	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
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]	214.5 [62.5]	205.6 [60.3]
	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]
	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
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]
	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]
	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
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]
	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]
	Power	245.8	241.5	237.2	245.4	241.1	236.9	245.0	240.8	240.8	244.9	240.6	236.4
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]
	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]
	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
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]
	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]	193.7 [58.5]	185.0 [54.2]	167.8 [49.2]	191.8 [56.2]	185.1 [54.2]	175.3 [51.4]
	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
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]
	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]
	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

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)].



ELECTRICAL DATA—WITHOUT ELECTRIC HEAT

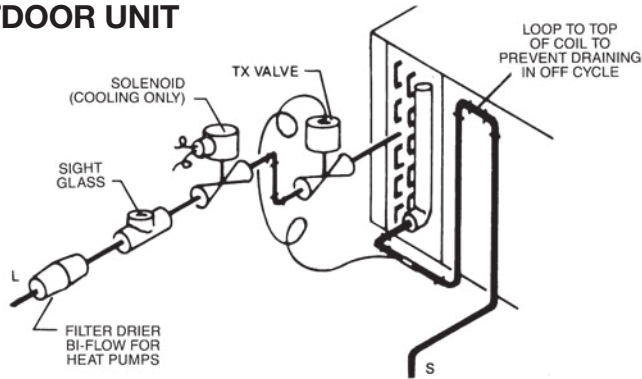
MODEL NUMBER	DRIVE PACKAGE	AIR HANDLER MOTOR					MINIMUM CIRCUIT AMPACITY	RECOMMENDED MINIMUM COPPER WIRE SIZE/ MAX. RUN IN FEET	MAXIMUM OVERCURRENT PROTECTION AMPS
		HP	VOLTS	PHASE	RATING PLATE AMPS	MOTOR LRA			
AC									
RHCLA2090C	R,S	2	208/230	3	6.2	47	15	#14 / 165	15
RHCLA2090D	R,S	2	460	3	3	24	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

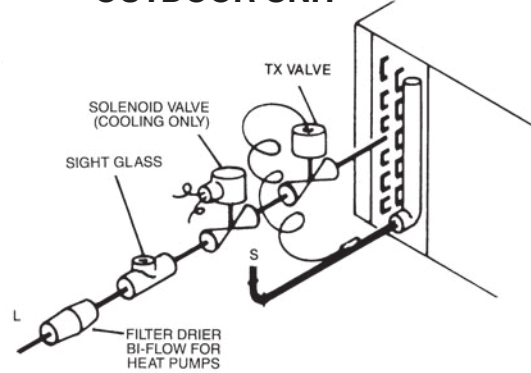
MODEL NUMBER	HEATER KIT				HEATING CAPACITY		MIN. CIRCUIT AMPACITY	MAX FUSE OR HACR BREAKER SIZE
	MODEL	VOLTAGE	kW	AMPS	kW	MBH		
AC								
RHCLA2090C	RXHE-DE020CA	208/240	20	43.1/48.9	15.6/20.2	53.2/68.9	67/73	70/80
RHCLA2090C	RXHE-DE030CA	208/240	30	60.8/70.2	11.0/29.6	75.1/101	89/100	90/100
RHCLA2090D	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 recommended 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.

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 applications. The fittings may be installed to allow the tubing to enter the unit from either side as shown in Figure 5.

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.

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]

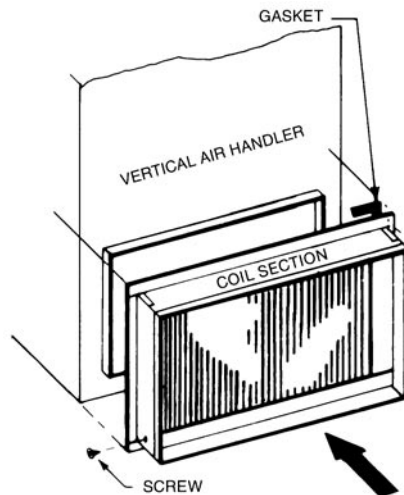
FIELD INSTALLED ACCESSORIES & KITS

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

HOT WATER OR STEAM COILS



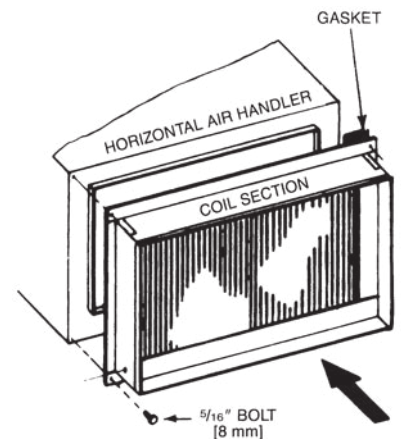
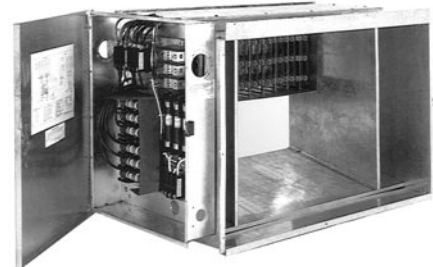
(090, 120) RXHC-C74W
RXHC-C74S
or
(150, 180, 240) RXHC-C76W
RXHC-C76S

(090, 120) RXHC-C74W
RXHC-C74S
or
(150, 180, 240) RXHC-C76W
RXHC-C76S

RXHM MIXING BOX



RXHE ELECTRIC HEATER KIT



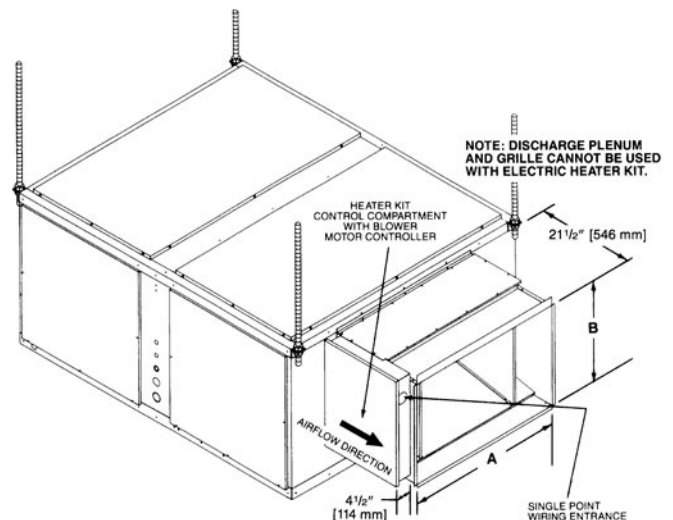
ELECTRIC RESISTANCE HEATER KITS

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 volt-age, 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*

Manufacturer 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.

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

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



The new degree of comfort.™

In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice.

Rheem Heating, Cooling & Water Heating • 5600 Old Greenwood Road
Fort Smith, Arkansas 72908 • www.rheem.com

Rheem Canada Ltd./Ltée • 125 Edgeware Road, Unit 1
Brampton, Ontario • L6Y 0P5



INTEGRATED AIR & WATER