Ruud High Efficiency Two-Stage EcoNet Enabled Air Handler



RH2T- Series

Constant Torque Motor (ECM)
Electronic Expansion Valve (EEV)
Efficiencies up to 17 SEER

EcoNet™

- The RH2T is EcoNet Enabled: This allows the RH2T to directly communicate with the EcoNet Smart Home System.
- The RH2T features an Electronic Expansion Valve (EEV)
- The RH2T features a Constant Torque Two-stage motor (ECM) which provides enhanced SEER performance with most Ruud outdoor units.
- Evaporator is constructed of aluminum fins bonded to internally grooved aluminum tubing.
- Versatile 4-way convertible design for upflow, downflow, horizontal left and horizontal right applications.
- Factory-installed indoor coil.
- Sturdy cabinet construction with 1.0 inch [25.4 mm] of foil faced insulation for excellent sound and insulating characteristics.
- Field-installed auxiliary electric heater kits provide exact heat for indoor comfort. Kits include circuit breakers which meet U.L. and cUL requirements for service disconnect.
- 1½ ton [5.3 kW] through 5 ton [17.6 kW] models are between 42½ to 57 inches [1080 to 1448 mm] tall and 22 inches [559 mm] deep.
- All models meet or exceed 330 to 400 CFM [156 to 189 L/s] per ton at .3 inches [.7 kPa] of external static pressure.
- Enhanced airflow up to .7" external static pressure.
- Suitable for application in mobile homes.

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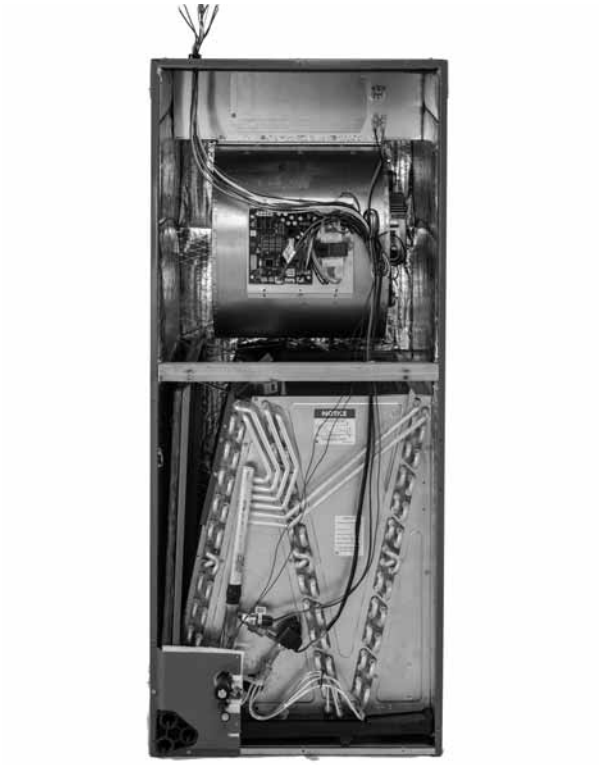
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Engineering Features

RH2T- Series

- Equipped standard with an EcoNet Air Handler control board that allows it to directly communicate with the EcoNet Control Center. The EcoNet Control Center serves as the hub of communication for a home's Heating, Cooling, and Water Heating systems, and is required to operate an EcoNet Enabled Heating and Cooling system in fully communicating mode. An EcoNet WiFi kit can be added to the EcoNet network and will use the homeowner's wireless network and broadband Internet connection to enable remote operation of EcoNet Enabled equipment from the mobile-friendly web portal or mobile apps.
- Equipped with an electronic expansion valve (EEV), which can intelligently change the EEV position based on system demands. By the measurement of the suction pressure via the vapor line pressure transducer (factory installed) and the vapor line thermistor (field connected to the vapor line, but factory provided within the air handler) the EcoNet enabled air handler control calculates the suction superheat at the indoor coil. This calculation permits the air handler control to make decisions for when to open and close the EEV for the purpose of maintaining a predetermined suction superheat. The EEV is equipped with a 4-pole removable external stator, and inlet and outlet chatleff fittings for optimal serviceability. These valves also have an internal check valve to provide heat pump compatibility. When operating in heating mode, the air handler control will open the EEV completely to permit the check valve to operate and maximize reverse refrigerant flow.
- The most compact unit design available, all standard heat air handler models only 42 1/2 to 57 inches [1079 to 1448 mm] high.
- Attractive pre-painted cabinet exterior.
- Rugged wall steel cabinet construction, designed for added strength and versatility.
- 1.0" foil faced insulation mechanically retained in blower compartment for excellent thermal and sound performance.
- Four leg blower motor mount.
- Blower housing with controls, motor and blower. Slide out design for service and maintenance convenience.
- Traditional open wire element design for heat applications.
- Field convertible for vertical downflow, horizontal left hand or right hand air supply.
- 3 combustible floor base accessories fit all model sizes when required for downflow installations on combustible floors.
- Indoor coil design provides low air side pressure drop, high performance and extremely compact size.
- Coils are constructed of aluminum fins bonded to internally grooved aluminum tubing.
- Coils are tested at the factory with an extensive refrigerant leak check.
- Coils have copper sweat refrigerant connections.
- Coils utilize chatleff metering device connections.
- Molded polymer corrosion resistant condensate drain pan is provided on all indoor coils.
- Supply duct flanges provided as standard on air handler cabinet.
- Provisions for field electrical, connections available from either side or top of the air handler cabinet.
- Connection point for high voltage wiring is inside the air handler cabinet. Low voltage connection is made on the outside of the air handler cabinet.
- Concentric knockouts are provided for power connection to cabinet. Installer may pull desired hole size up to 2 inches [51 mm] for 1 1/2 inch [38 mm] conduit.
- Front refrigerant and drain connections.

[ ] Designates Metric Conversions



R H 2 T 24 17 S E A C J A ***

Option Code (see ADS-3803)
Blank = None

Minor Series
A = First

Voltage
A = 115/1/60
D = 480V/3/60
J = 208/240/1/60

Controls
C = Communicating
N = Non-Communicating

Major Series
A = First

Metering Device
T = TEV
E = EEV
P = Piston

Coil Efficiency
S = Standard
M = Medium
H = High

Width
17 = 17.5" [431.8 mm] (600-1200 CFM)
21 = 21" [533.4 mm] (800-1600 CFM)
24 = 24.5" [609.6 mm] (1400-1800 CFM)

Nominal Capacity
24 = 18,000 [5.27 kW]-24,000 [7.03 kW] BTU/H
36 = 30,000 [8.79 kW]-36,000 [10.55 kW] BTU/H
48 = 42,000 [12.31 kW]-48,000 [14.06 kW] BTU/H
60 = 60,000 [17.58 kW] BTU/H

Motor Type
T = Constant Torque (ECM)

Stages of Air Flow
1 = Single
2 = Two Stage
V = Variable Speed

Product Category
H = Air Handler

Ruud

[ ] Designates Metric Conversions

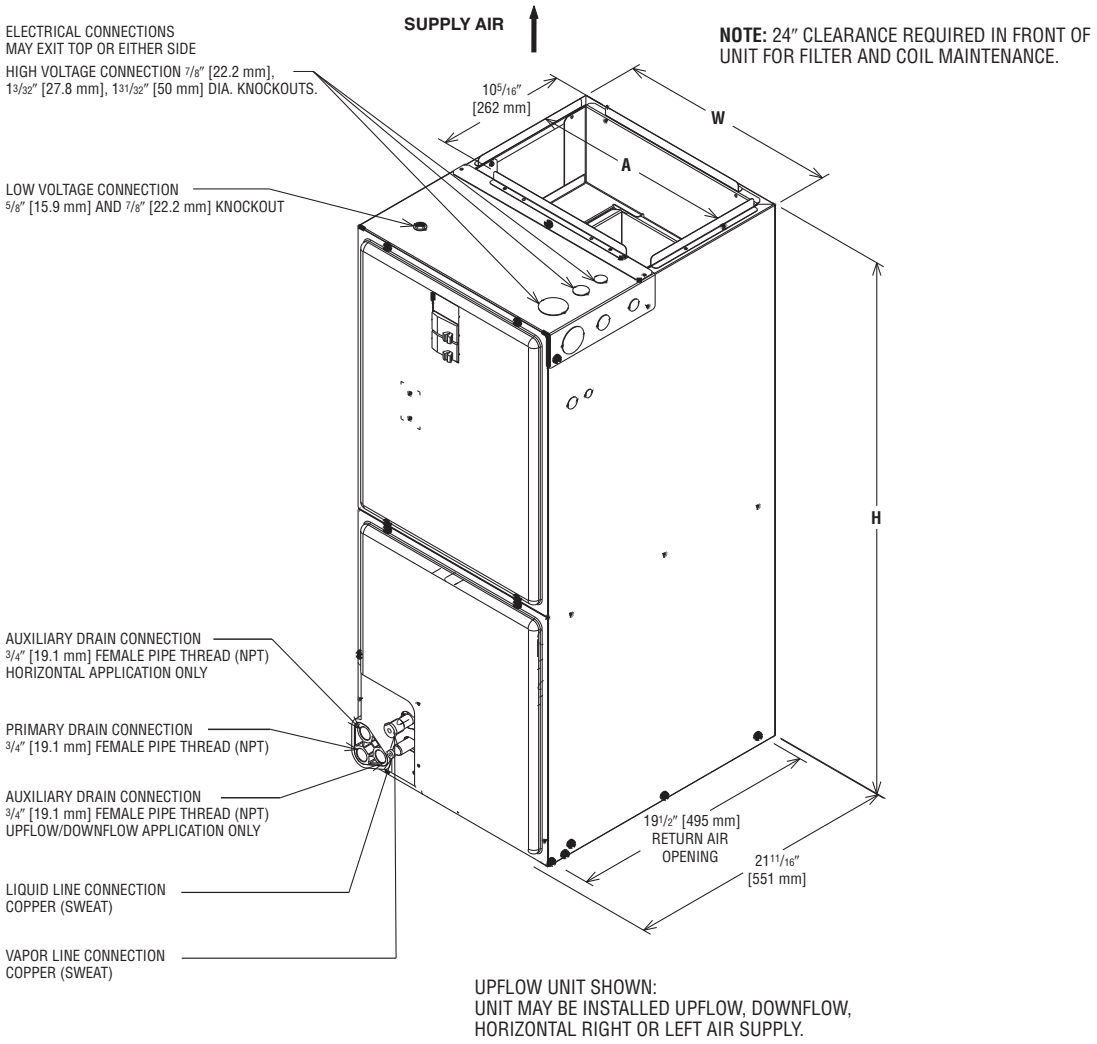
Available Models at J Voltage
RH2T2417SEACJA
RH2T2421MEACJA
RH2T3617SEACJA
RH2T3621MEACJA
RH2T4821MEACJA
RH2T6021SEACJA
RH2T6024MEACJA

Unit Dimensions

Return Air Opening Dimensions

Model Cabinet Size	Return Air Opening Width (Inches)	Return Air Opening Depth/Length (Inches)
17	15 7/8	19 3/4
21	19 3/8	19 3/4
24	22 7/8	19 3/4

[ ] Designates Metric Conversions



UPFLOW UNIT SHOWN:
UNIT MAY BE INSTALLED UPFLOW, DOWNFLOW, HORIZONTAL RIGHT OR LEFT AIR SUPPLY.

Unit Dimensions & Weights

Model Size RH2T	Refrigerant Connections Sweat (In.) [mm] ID		Unit Height H In. [mm]	Unit Width W In. [mm]	Supply Duct A In. [mm]	Air Flow CFM (Nom.) [L/s]			Unit Weight/Shipping Weight (Lbs.) [kg]
	Liquid	Vapor				Fan	Lo	Hi	Unit With Coil (Max. KW)
2417SE	3/8 [9.53]	3/4 [19.05]	42 1/2 [1080]	17 1/2 [444.5]	16 [406.4]	535	535	750	92/106 [42/48]
2421ME	3/8 [9.53]	3/4 [19.05]	42 1/2 [1080]	21 [533.4]	19 1/2 [495.3]	535	535	720	111/126 [50/57]
3617SE	3/8 [9.53]	3/4 [19.05]	42 1/2 [1080]	17 1/2 [444.5]	16 [406.4]	670	670	1230	96/110 [44/50]
3621ME	3/8 [9.53]	3/4 [19.05]	50 1/2 [1283]	21 [533.4]	19 1/2 [495.3]	800	800	1088	129/145 [59/66]
4821ME	3/8 [9.53]	7/8 [22.23]	57 [1448]	21 [533.4]	19 1/2 [495.3]	890	1050	1430	141/153 [64/69]
6021SE	3/8 [9.53]	7/8 [22.23]	57 [1448]	21 [533.4]	19 1/2 [495.3]	900	1200	1600	141/153 [64/69]
6024ME	3/8 [9.53]	7/8 [22.23]	55 1/2 [1410]	24 1/2 [622.3]	23 [584.0]	1200	1200	1600	161/178 [73/81]

*Maximum dehumidification airflow.

Unit Dimensions

FIGURE 6
VERTICAL DOWNFLOW & HORIZONTAL RIGHT APPLICATION

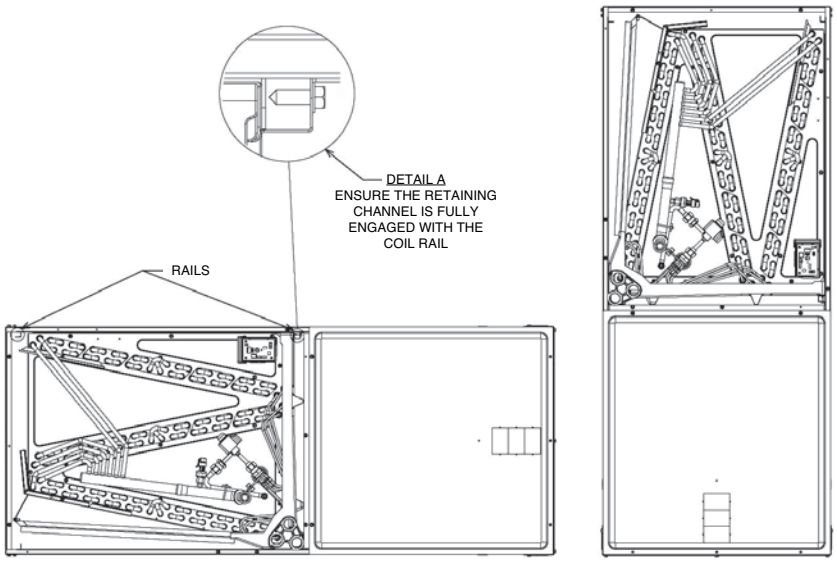
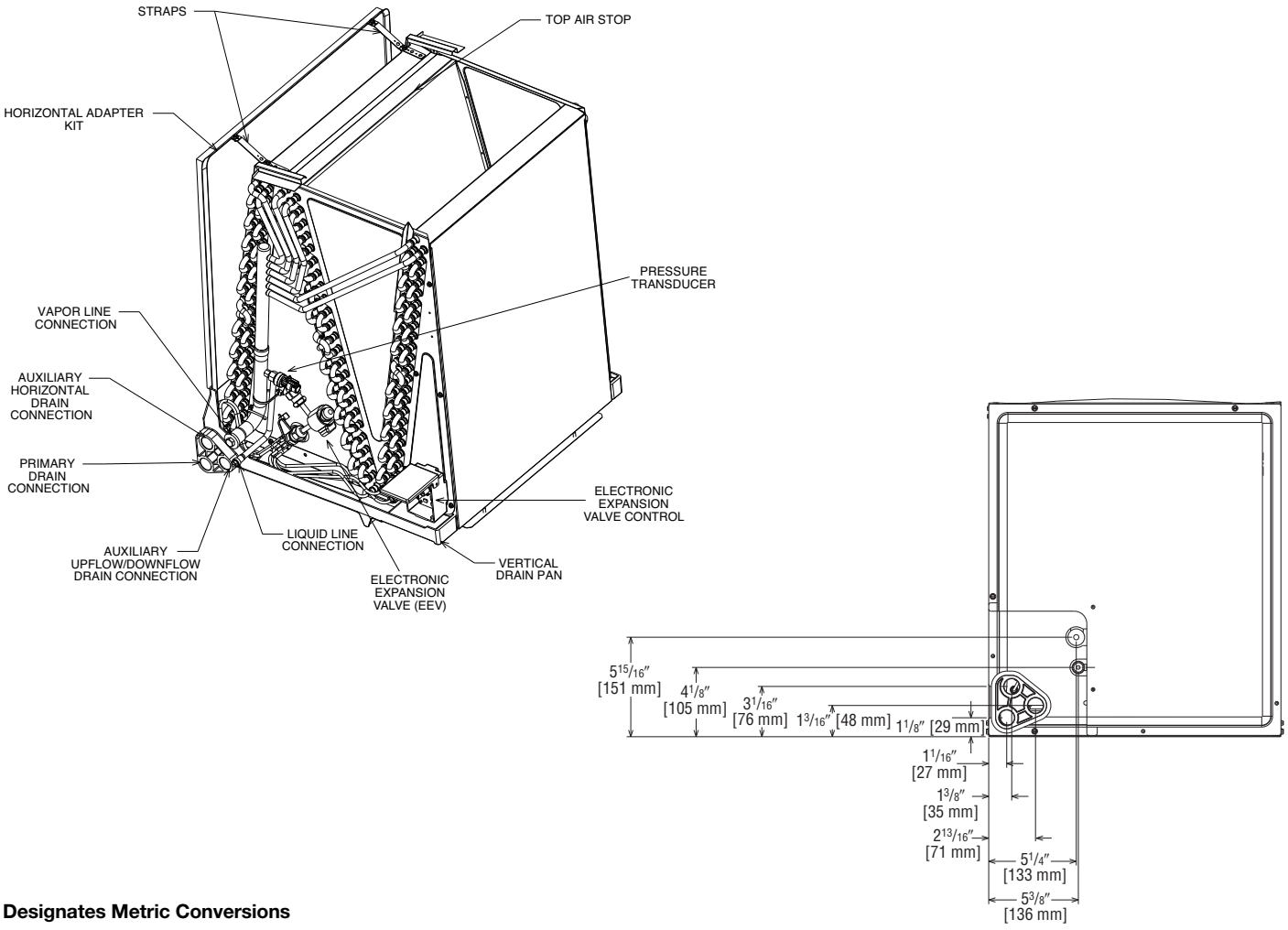
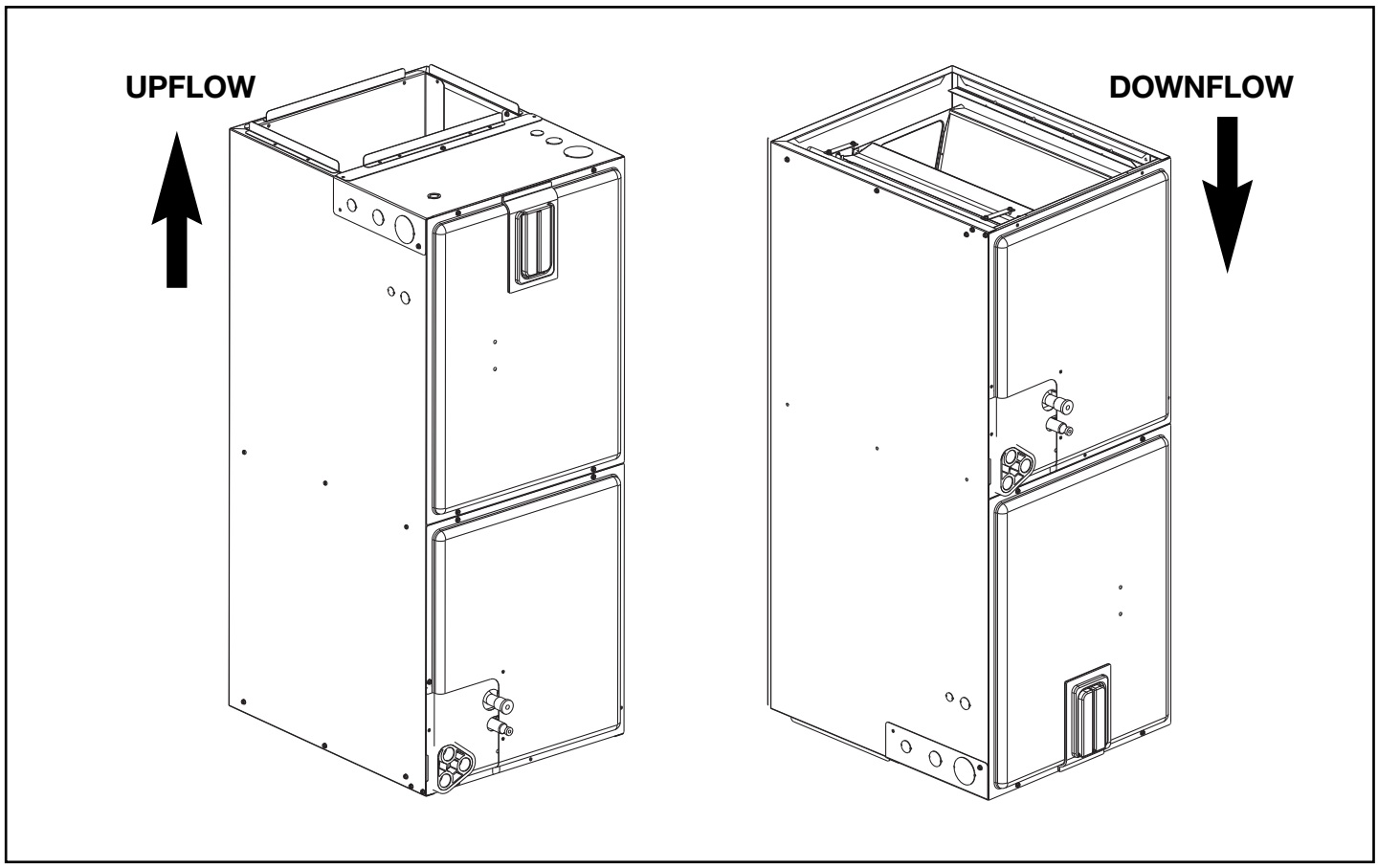


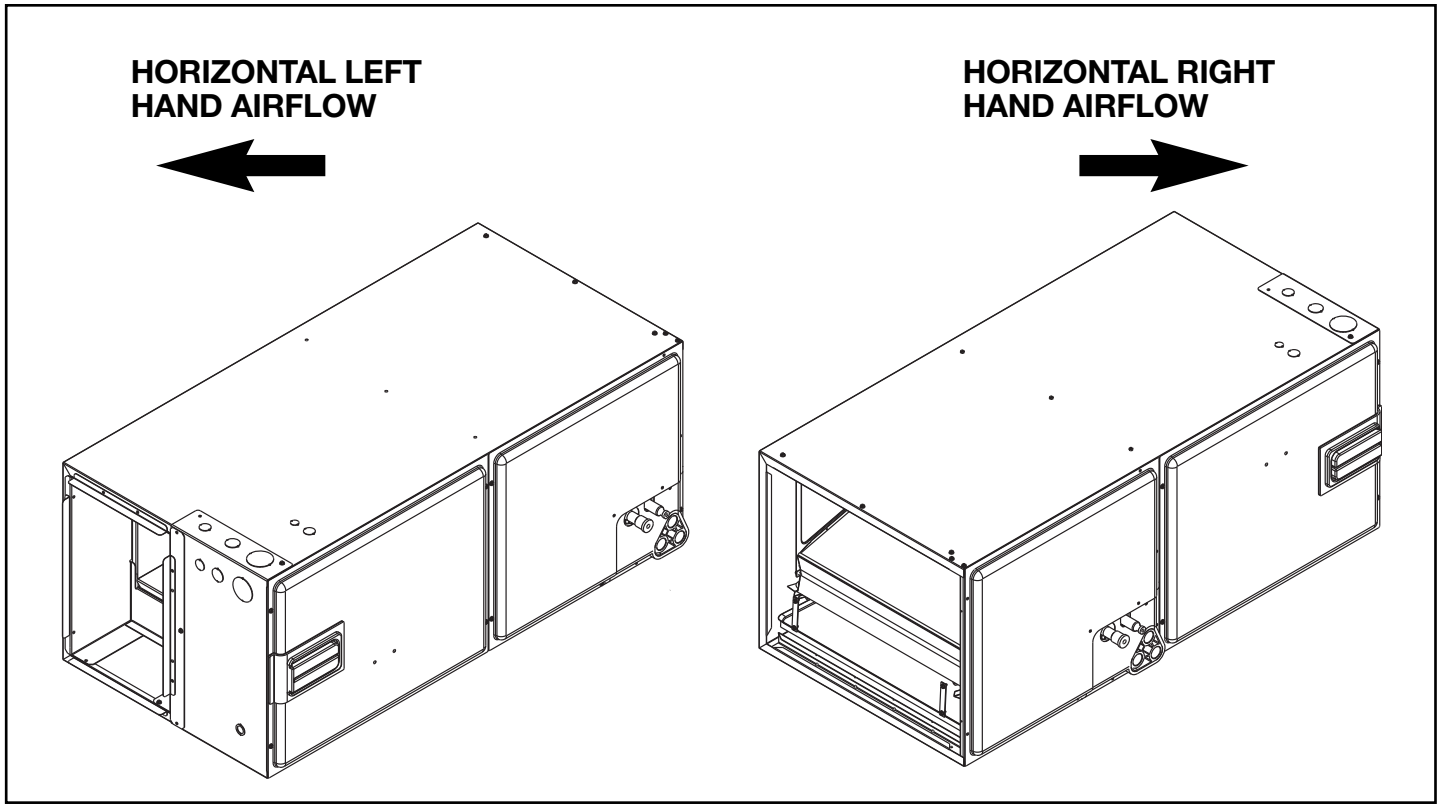
FIGURE 7
INDOOR COIL AND DRAIN PAN SET-UP



[ ] Designates Metric Conversions

Airflow Directional Data





Airflow Performance

Airflow performance data is based on cooling performance with a coil and no filter in place. Select performance table for appropriate unit size, voltage and number of electric heaters to be used. Make sure external static applied to unit allows operation within the minimum and maximum limits shown in table below for both cooling and electric heat operation. For optimum blower performance, operate the unit in the .3 [8 mm] to .7 inches [18 mm] W.C. external static range. Units with coils should be applied with a minimum of .1 inch [3 mm] W.C. external static range.

Airflow Operating Limits

Model Cabinet Width	17/21	17/21	21	24
Cooling BTUH x 1,000 Cooling Tons Nominal	-24 2	-36 3	-48/-60 4	-60 5
Heat Pump or Air Conditioning Maximum Heat/Cool CFM [L/s] (37.5 CFM [18 L/s]/1,000 BTUH) (450 CFM [212 L/s]/Ton Nominal)	900 [425]	1350 [637]	1800 [850]	1930 [911]
Heat Pump or Air Conditioning Nominal Heat/Cool CFM [L/s] (33.3 CFM [16 L/s]/1,000 BTUH) (400 CFM [189 L/s]/Ton Nominal)	800 [378]	1200 [566]	1600 [755]	1800 [850]
Heat Pump or Air Conditioning Minimum Heat/Cool CFM [L/s] (30.0 CFM [14 L/s]/1,200 BTUH) (360 CFM [170 L/s]/Ton Nominal)	720 [340]	1080 [510]	1440 [680]	1620 [765]
Maximum kW Electric Heating & Minimum Electric Heat CFM [L/s]	13 617 [291]	18 1054 [497]	25 1502 [709]	30 1666 [786]
Maximum Electric Heat Rise °F [°C]	63 [17.2]	51 [10.6]	50 [10]	54 [12.2]

[ ] Designates Metric Conversions

208V/240V Airflow Performance Data—RH2T (Constant Torque (ECM) Motor)

Air Handler (-)H2T	Outdoor Unit	Motor Speed From Factory	Blower			Motor Speed	CFM [L/s] Air Delivery/RPM/Watts (No Filter)						
			Size Motor HP	Size	# Speeds		External Static Pressure—Inches W.C. [kPa]						
							0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]
2417SE No Heat	(-)P1724	Y1 tap 4 Y2 tap 5	1/3	10x8	5	2	837 [395]	713 [336]	608 [287]	554 [261]	485 [229]	—	—
							565	587	630	692	751	—	—
							95	81	88	74	66	—	—
						3	—	—	—	—	683 [322]	615 [290]	572 [270]
							—	—	—	—	789	842	892
							—	—	—	—	140	159	155
2417SE with 13kW Heater	(-)P1724	Y1 tap 4 Y2 tap 5	1/3	10x8	5	2	814 [384]	692 [327]	589 [278]	535 [252]	467 [220]	—	—
							592	613	656	719	778	—	—
							108	90	97	82	73	—	—
						3	—	—	—	—	808 [381]	629 [297]	584 [276]
							—	—	—	—	789	842	892
							—	—	—	—	148	168	163
2417SE No Heat	(-)P1724	Y1 tap 4 Y2 tap 5	1/3	10x8	5	4	902 [426]	846 [399]	788 [372]	742 [350]	679 [320]	—	—
							596	645	694	741	791	—	—
							105	108	116	121	130	—	—
						5	—	—	—	—	858 [405]	816 [385]	770 [363]
							—	—	—	—	834	879	925
							—	—	—	—	185	182	214
2417SE with 13kW Heater	(-)P1724	Y1 tap 4 Y2 tap 5	1/3	10x8	5	4	882 [416]	827 [390]	769 [363]	723 [341]	661 [312]	—	—
							595	670	719	767	817	—	—
							113	125	124	129	197	—	—
						5	—	—	—	—	883 [417]	791 [373]	746 [352]
							—	—	—	—	852	898	944
							—	—	—	—	192	189	222
2421ME No Heat	(-)A1724	Y1 tap 4 Y2 tap 5	1/3	10x8	5	2	797 [376]	633 [299]	357 [168]	—	—	—	—
							477	510	555	—	—	—	—
							63	52	34	—	—	—	—
						3	—	—	657 [310]	591 [279]	543 [256]	475 [224]	429 [202]
							—	—	596	662	738	795	852
							—	—	72	77	87	90	100
2421ME with 13kW	(-)A1724	Y1 tap 4 Y2 tap 5	1/3	10x8	5	2	729 [344]	509 [240]	177 [84]	—	—	—	—
							492	531	582	—	—	—	—
							58	44	22	—	—	—	—
						3	—	—	622 [294]	565 [267]	526 [248]	505 [238]	502 [237]
							—	—	628	699	779	869	968
							—	—	74	81	94	112	136
2421ME No Heat	(-)A1724	Y1 tap 4 Y2 tap 5	1/3	10x8	5	4	838 [395]	674 [318]	423 [200]	—	—	—	—
							495	527	571	—	—	—	—
							69	60	42	—	—	—	—
						5	—	—	787 [371]	749 [353]	699 [330]	647 [305]	607 [286]
							—	—	826	879	942	986	1031
							—	—	157	168	176	183	188

[ ] Designates Metric Conversions

208V/240V Airflow Performance Data—RH2T (Constant Torque (ECM) Motor)

Air Handler (-)H2T	Outdoor Unit	Motor Speed From Factory	Blower			Motor Speed	CFM [L/s] Air Delivery/RPM/Watts (No Filter)						
			Size Motor HP	Size	# Speeds		External Static Pressure—Inches W.C. [kPa]						
							0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]
2421ME with 13kW	(-)A1724	Y1 tap 4 Y2 tap 5	1/3	10x8	5	4	767 [362]	559 [264]	265 [125]	—	—	—	—
							510	548	598	—	—	—	—
							66	52	30	—	—	—	—
						5	—	—	770 [363]	726 [343]	670 [316]	602 [284]	522 [246]
							—	—	851	909	977	1053	1139
							—	—	162	172	179	184	186
3617SE No Heat	(-)P1736	Y1 tap 4 Y2 tap 5	1/2	10x8	5	2	1093 [516]	1050 [496]	1017 [480]	997 [471]	935 [441]	—	—
							671	725	764	809	852	—	—
							153	168	174	180	188	—	—
						3	—	—	—	—	1084 [512]	1040 [491]	1001 [472]
							—	—	—	—	896	936	971
							—	—	—	—	249	257	261
3617SE with 13kW Heater	(-)P1736	Y1 tap 4 Y2 tap 5	1/2	10x8	5	2	1068 [504]	1025 [484]	992 [468]	952 [449]	910 [429]	—	—
							711	765	804	849	892	—	—
							164	179	185	191	199	—	—
						3	—	—	—	—	1059 [500]	1015 [479]	976 [461]
							—	—	—	—	936	976	1011
							—	—	—	—	260	268	272
3617SE No Heat	(-)P1736	Y1 tap 4 Y2 tap 5	1/2	10x8	5	4	1270 [599]	1237 [584]	1199 [566]	1165 [550]	1130 [533]	—	—
							775	816	846	882	926	—	—
							237	249	259	268	277	—	—
						5	—	—	—	—	1275 [602]	1244 [587]	1211 [572]
							—	—	—	—	963	999	1029
							—	—	—	—	338	348	363
3617SE with 13kW Heater	(-)P1736	Y1 tap 4 Y2 tap 5	1/2	10x8	5	4	1245 [588]	1212 [572]	1174 [554]	1140 [538]	1105 [522]	—	—
							815	856	886	922	966	—	—
							248	260	270	279	288	—	—
						5	—	—	—	—	1250 [590]	1219 [575]	1186 [560]
							—	—	—	—	917	957	1001
							—	—	—	—	262	271	285
3621ME No Heat	(-)A1736	Y1 tap 4 Y2 tap 5	3/4	10x10	5	2	814 [384]	852 [402]	776 [366]	659 [311]	599 [283]	—	—
							582	609	690	773	812	—	—
							75	86	100	110	116	—	—
						3	—	—	1096 [517]	1043 [492]	964 [455]	909 [429]	820 [387]
							—	—	753	817	888	948	1003
							—	—	164	178	193	207	222
3621ME with 13kW Heater	(-)A1736	Y1 tap 4 Y2 tap 5	3/4	10x10	5	2	829 [391]	801 [378]	738 [349]	642 [303]	512 [242]	—	—
							600	659	722	788	857	—	—
							81	94	104	113	120	—	—
						3	—	—	1073 [506]	1007 [475]	915 [432]	797 [376]	653 [308]
							—	—	784	852	925	1006	1092
							—	—	171	186	201	217	234

[ ] Designates Metric Conversions

208V/240V Airflow Performance Data—RH2T (Constant Torque (ECM) Motor)

Air Handler (-)H2T	Outdoor Unit	Motor Speed From Factory	Blower			Motor Speed	CFM [L/s] Air Delivery/RPM/Watts (No Filter)						
			Size Motor HP	Size	# Speeds		External Static Pressure—Inches W.C. [kPa]						
							0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]
3621ME No Heat	(-)A1736	Y1 tap 4 Y2 tap 5	3/4	10x10	5	4	1053 [497]	1001 [472]	939 [443]	872 [412]	—	—	—
							601	660	726	803	—	—	—
							107	117	130	143	—	—	—
						5	—	—	1305 [616]	1260 [595]	1213 [572]	1147 [541]	1107 [522]
							—	—	829	876	927	987	1028
							—	—	236	249	265	281	294
3621ME with 13kW Heater	(-)A1736	Y1 tap 4 Y2 tap 5	3/4	10x10	5	4	1028 [485]	971 [458]	907 [428]	835 [394]	—	—	—
							629	692	763	844	—	—	—
							112	123	136	150	—	—	—
						5	—	—	1283 [606]	1237 [584]	1189 [561]	1139 [537]	1087 [513]
							—	—	852	901	954	1012	1075
							—	—	242	257	274	295	320
4821ME No Heat	(-)P1760 (-)A1748	Y1 tap 4 Y2 tap 5	1/3	10x10	5	1	865 [408]	735 [347]	648 [306]	597 [282]	538 [254]	497 [235]	435 [205]
							589	652	721	765	804	846	890
							90	86	96	102	109	114	119
						2	1104 [521]	1044 [493]	995 [470]	949 [448]	—	—	—
							683	734	795	851	—	—	—
							149	158	171	184	—	—	—
						3	—	—	1399 [660]	1361 [642]	1321 [623]	1286 [607]	1242 [586]
							—	—	940	987	1040	1075	1121
							—	—	342	357	378	392	409
4821ME with 13kW Heater	(-)P1760 (-)A1748	Y1 tap 4 Y2 tap 5	1/3	10x10	5	1	799 [377]	694 [328]	615 [290]	561 [265]	533 [252]	530 [250]	552 [261]
							581	645	700	743	777	800	813
							91	96	102	111	123	136	152
						2	1074 [507]	1019 [481]	971 [458]	930 [439]	—	—	—
							709	765	822	882	—	—	—
							153	164	177	192	—	—	—
						3	—	—	1380 [651]	1341 [633]	1300 [614]	1257 [593]	1212 [572]
							—	—	963	1013	1068	1130	1198
							—	—	349	367	391	423	461
4821ME No Heat	(-)P1760 (-)A1748	Y1 tap 4 Y2 tap 5	1/3	10x10	5	4	1206 [569]	1160 [547]	1121 [529]	1080 [510]	—	—	—
							737	788	838	896	—	—	—
							188	202	214	229	—	—	—
						5	—	—	1663 [785]	1626 [767]	1580 [746]	1495 [706]	1344 [634]
							—	—	1059	1098	1124	1144	1156
							—	—	525	542	544	524	477
4821ME with 13kW Heater	(-)P1760 (-)A1748	Y1 tap 4 Y2 tap 5	1/3	10x10	5	4	1183 [558]	1140 [538]	1100 [519]	1062 [501]	—	—	—
							762	812	867	925	—	—	—
							195	208	222	236	—	—	—
						5	—	—	1646 [777]	1604 [757]	1554 [733]	1494 [705]	1426 [673]
							—	—	1080	1113	1132	1138	1131
							—	—	535	545	541	523	491

[ ] Designates Metric Conversions

208V/240V Airflow Performance Data—RH2T (Constant Torque (ECM) Motor)

Air Handler (-)H2T	Outdoor Unit	Motor Speed From Factory	Blower			Motor Speed	CFM [L/s] Air Delivery/RPM/Watts (No Filter)						
			Size Motor HP	Size	# Speeds		External Static Pressure—Inches W.C. [kPa]						
							0.1 [.02]	0.2 [.05]	0.3 [.07]	0.4 [.10]	0.5 [.12]	0.6 [.15]	0.7 [.17]
6024ME No Heat	(-)A1724	Y1 tap 4 Y2 tap 5	1/3	11x11	5	2	1371 [647]	1304 [615]	1248 [589]	1183 [558]	—	—	—
							586	627	668	706	—	—	—
							166	175	185	195	—	—	—
						3	—	—	1561 [737]	1513 [714]	1460 [689]	1406 [664]	1342 [633]
							—	—	759	792	818	850	878
							—	—	305	317	328	334	343
6024ME with 13kW Heater	(-)A1724	Y1 tap 4 Y2 tap 5	1/3	11x11	5	2	1338 [632]	1276 [602]	1214 [573]	1154 [545]	—	—	—
							607	648	687	725	—	—	—
							171	180	190	200	—	—	—
						3	—	—	1393 [658]	1313 [620]	1232 [582]	1152 [544]	1071 [506]
							—	—	776	806	829	846	857
							—	—	311	323	333	343	351
6024ME No Heat	(-)A1724	Y1 tap 4 Y2 tap 5	1/3	11x11	5	4	1375 [649]	1316 [621]	1257 [593]	1190 [562]	—	—	—
							593	632	673	713	—	—	—
							168	180	189	199	—	—	—
						5	—	—	1745 [824]	1709 [807]	1649 [778]	1613 [761]	1560 [736]
							—	—	809	846	872	907	929
							—	—	397	418	426	442	450
6024ME with 13kW Heater	(-)A1724	Y1 tap 4 Y2 tap 5	1/3	11x11	5	4	1346 [635]	1287 [607]	1224 [578]	1156 [546]	—	—	—
							613	652	693	734	—	—	—
							174	185	195	203	—	—	—
						5	—	—	1730 [816]	1682 [794]	1610 [760]	1514 [715]	1394 [658]
							—	—	829	860	880	888	884
							—	—	409	424	426	414	390

Notes: Constant Torque motor speed changes.
All Constant Torque motors have 5 speed tabs. Speed tab 1 is for continuous fan. Speed tab 2 (low static) and Speed tab 3 (high static) are for lower tonnage. Speed tab 4 (low static) and Speed tab 5 (high static) are for higher tonnage.
Constant Torque air handlers are always shipped from factory at Speed tab 5, except for -4824, which is set at Speed tab 3. For instance, (-)H1T-HM2417JA is always shipped at high static 2-ton airflow (Speed tab 5). To change to 1.5-ton airflow, move the blue wire to Speed tab 2 or 3 on the Constant Torque motor.
The low static Speed tab 2 (lower tonnage) and 4 (higher tonnage) are used for external static below 0.5" WC. The high static Speed tab 3 (lower tonnage) and 5 (higher tonnage) are used for external static exceeding 0.5" WC. Move the blue wire to the appropriate Speed tab as required by the application needs.

- The airflow for continuous fan (Speed tab 1) is always set at 50% of the Speed tab 4.
- The above airflow table lists the airflow information for air handlers without heater and air handler with maximum heater allowed for each model.
- The following formula can be used to calculate the approximate airflow, if a smaller (N kW) than the maximum heater kit is installed.
  Approximate Airflow = Airflow without heater – (Airflow without heater – Airflow with maximum heater) x (N kW/maximum heater kW)

[ ] Designates Metric Conversions

Electrical Data – Blower Motor Only – No Electric Heat RH2T

Model RH2T	Voltage	Phase*	Hertz	HP [W]	RPM	Speeds	Circuit Amps.	Minimum Circuit Ampacity	Maximum Circuit Protector
2417SE	208/240	1	60	1/3	300-1300	2	1.6	2.0	15
2421ME		1		1/3		2	1.6	2.0	15
3617SE		1		1/2		2	2.7	4.0	15
3621ME		1		3/4		2	3.8	5.0	15
4821ME		1		3/4		2	3.8	5.0	15
6024ME		1		3/4		2	3.8	5.0	15

* Blower motors are all single phase motors.

[ ] Designates Metric Conversions

Electrical Data – With Electric Heat RH2T

Installation of the U.L. Listed original equipment manufacturer provided heater kits listed in the following table is recommended for all auxiliary heating requirements.

Air Handler Model RH2T	Heater Kit Model	Heater kW	PH/HZ	No. Elements kW Per Element	Circuit	Circuit Amps.	Motor Ampacity	Minimum Circuit Ampacity	Maximum Circuit Protection
2417SEAC	RXBH-17?03J	2.2/3	1/60	1 - 3	SINGLE	10.8/12.5	2.8	18/20	20/20
	RXBH-1724?05J	3.6/4.8	1/60	1 - 4.8	SINGLE	17.3/20	2.8	26/29	30/30
	RXBH-1724?07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26/30	2.8	36/41	40/45
	RXBH-1724?10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40	2.8	47/54	50/60
	RXBH-1724A10C	7.2/9.6	3/60	3 - 3.2	SINGLE	20/23.1	2.8	29/33	30/35
	RXBH-1724A13J	9.4/12.5	1/60	3 - 4.17	SINGLE	45.1/52.1	2.8	60/69	60/70
		3.1/4.2	1/60	1 - 4.17	MULTIPLE CKT 1	15/17.4	2.8	23/26	25/30
		6.3/8.3	1/60	2 - 4.17	MULTIPLE CKT 2	30.1/34.7	0	38/44	40/45
2421MEAC	RXBH-1724?05J	3.6/4.8	1/60	1 - 4.8	SINGLE	17.3/20	2.8	26/29	30/30
	RXBH-1724?07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26/30	2.8	36/41	40/45
	RXBH-1724?10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40	2.8	47/54	50/60
	RXBH-1724A10C	7.2/9.6	3/60	3 - 3.2	SINGLE	20/23.1	2.8	29/33	30/35
	RXBH-1724A13J	9.4/12.5	1/60	3 - 4.17	SINGLE	45.1/52.1	2.8	60/69	60/70
		3.1/4.2	1/60	1 - 4.17	MULTIPLE CKT 1	15/17.4	2.8	23/26	25/30
		6.3/8.3	1/60	2 - 4.17	MULTIPLE CKT 2	30.1/34.7	0	38/44	40/45
3617SEAC	RXBH-17?03J	2.2/3	1/60	1 - 3	SINGLE	10.8/12.5	4.1	19/21	20/25
	RXBH-1724?05J	3.6/4.8	1/60	1 - 4.8	SINGLE	17.3/20	4.1	27/31	30/35
	RXBH-1724?07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26/30	4.1	38/43	40/45
	RXBH-1724?10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40	4.1	49/56	50/60
	RXBH-1724A10C	7.2/9.6	3/60	3 - 3.2	SINGLE	20/23.1	4.1	31/35	35/35
	RXBH-1724A13J	9.4/12.5	1/60	3 - 4.17	SINGLE	45.1/52.1	4.1	62/71	70/80
		3.1/4.2	1/60	1 - 4.17	MULTIPLE CKT 1	15/17.4	4.1	24/27	25/30
		6.3/8.3	1/60	2 - 4.17	MULTIPLE CKT 2	30.1/34.7	0	38/44	40/45
	RXBH-1724A15C	10.8/14.4	3/60	3 - 4.8	SINGLE	30/34.6	4.1	43/49	45/50
	RXBH-1724A15J	10.8/14.4	1/60	3 - 4.8	SINGLE	51.9/60	4.1	70/81	70/90
		3.6/4.8	1/60	1 - 4.8	MULTIPLE CKT 1	17.3/20	4.1	27/31	30/35
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40	0	44/50	45/50
	RXBH-1724A18J	12.8/17	1/60	3 - 5.67	SINGLE	61.6/70.8	4.1	83/94	90/100
		4.3/5.7	1/60	1 - 5.67	MULTIPLE CKT 1	20.5/23.6	4.1	31/35	35/35
		8.5/11.3	1/60	2 - 5.67	MULTIPLE CKT 2	41.1/47.2	0	52/60	60/60

NOTES:

*** Values only. No single point kit available.**

- **Electric heater BTUH - (heater watts + motor watts) x 3.414 (see airflow table for motor watts.)**
- **Supply circuit protective devices may be fuses or "HACR" type circuit breakers.**
- **Largest motor load is included in single circuit and multiple circuit 1.**
- **If non-standard fuse size is specified, use next size larger fuse size.**
- **J Voltage (230V) single phase air handler is designed to be used with single or three phase 230 volt electric heaters. In the case of connecting 3-phase power to the air handler terminal block without the heater, bring only two leads to the terminal block. Cap, insulate and fully secure the third lead.**
- **If the kit is listed under both single and multiple circuits, the kit is shipped from factory as multiple circuits. For single phase application, Jumper bar kit RXBJ-A21 and RXBJ-A31 can be used to convert multiple circuits to a single supply circuit. Refer to Accessory Section for details.**
- **The airflow for continuous fan is set 50% of the cooling airflow.**
- **?Heater kits connection type. A=Breaker B=Terminal Block C=Disconnect Pull Out**

[ ] Designates Metric Conversions

Electrical Data – With Electric Heat RH2T (Cont.)

Installation of the U.L. Listed original equipment manufacturer provided heater kits listed in the following table is recommended for all auxiliary heating requirements.

Air Handler Model RH2T	Heater Kit Model	Heater kW	PH/HZ	No. Elements kW Per Element	Circuit	Circuit Amps.	Motor Ampacity	Minimum Circuit Ampacity	Maximum Circuit Protection
3621MEAC	RXBH-1724?05J	3.6/4.8	1/60	1 - 4.8	SINGLE	17.3/20	4.1	27/31	30/35
	RXBH-1724?07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26/30	4.1	38/43	40/45
	RXBH-1724?10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40	4.1	49/56	50/60
	RXBH-1724A10C	7.2/9.6	3/60	3 - 3.2	SINGLE	20/23.1	4.1	31/35	35/35
	RXBH-1724A15C	10.8/14.4	3/60	3 - 4.8	SINGLE	30/34.6	4.1	43/49	45/50
	RXBH-1724A15J	10.8/14.4	1/60	3 - 4.8	SINGLE	51.9/60	4.1	70/81	70/90
		3.6/4.8	1/60	1 - 4.8	MULTIPLE CKT 1	17.3/20	4.1	27/31	30/35
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40	0	44/50	45/50
	RXBH-1724A18J	12.8/17	1/60	3 - 5.67	SINGLE	61.6/70.8	4.1	83/94	90/100
		4.3/5.7	1/60	1 - 5.67	MULTIPLE CKT 1	20.5/23.6	4.1	31/35	35/35
		8.5/11.3	1/60	2 - 5.67	MULTIPLE CKT 2	41.1/47.2	0	52/60	60/60
	RXBH-1724B05J	3.6/4.8	1/60	1 - 4.8	SINGLE	17.3/20	4.1	27/31	30/35
	RXBH-1724B07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26/30	4.1	38/43	40/45
	RXBH-1724B10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40	4.1	49/56	50/60
	RXBH-24A20C	14.4/19.2	3/60	6 - 3.2	SINGLE	40/46.2	4.1	56/63	60/70
		7.2/9.6	3/60	3 - 3.2	MULTIPLE CKT 1	20/23.1	4.1	31/35	35/35
		7.2/9.6	3/60	3 - 3.2	MULTIPLE CKT 2	20/23.1	0	25/29	25/30
	RXBH-24A20J	14.4/19.2	1/60	4 - 4.8	SINGLE	69.2/80	4.1	92/106	100/110
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 1	34.6/40	4.1	49/56	50/60
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40	0	44/50	45/50
	RXBH-24A25C	18/24	3/60	6 - 4	SINGLE	50/57.8	4.1	68/78	70/80
		9/12	3/60	3 - 4	MULTIPLE CKT 1	25/28.9	4.1	37/42	40/45
		9/12	3/60	3 - 4	MULTIPLE CKT 2	25/28.9	0	32/37	35/40
	RXBH-24A25J	18/24	1/60	6 - 4	SINGLE	86.4/99.9	4.1	114/130	125/150
		6/8	1/60	2 - 4	MULTIPLE CKT 1	28.8/33.3	4.1	42/47	45/50
		6/8	1/60	2 - 4	MULTIPLE CKT 2	28.8/33.3	0	37/42	40/45
		6/8	1/60	2 - 4	MULTIPLE CKT 3	28.8/33.3	0	37/42	40/45

NOTES:

*** Values only. No single point kit available.**

- **Electric heater BTUH - (heater watts + motor watts) x 3.414 (see airflow table for motor watts.)**
- **Supply circuit protective devices may be fuses or "HACR" type circuit breakers.**
- **Largest motor load is included in single circuit and multiple circuit 1.**
- **If non-standard fuse size is specified, use next size larger fuse size.**
- **J Voltage (230V) single phase air handler is designed to be used with single or three phase 230 volt electric heaters. In the case of connecting 3-phase power to the air handler terminal block without the heater, bring only two leads to the terminal block. Cap, insulate and fully secure the third lead.**
- **If the kit is listed under both single and multiple circuits, the kit is shipped from factory as multiple circuits. For single phase application, Jumper bar kit RXBJ-A21 and RXBJ-A31 can be used to convert multiple circuits to a single supply circuit. Refer to Accessory Section for details.**
- **The airflow for continuous fan is set 50% of the cooling airflow.**
- **?Heater kits connection type. A=Breaker B=Terminal Block C=Disconnect Pull Out**

[ ] Designates Metric Conversions

Electrical Data – With Electric Heat RH2T (Cont.)

Installation of the U.L. Listed original equipment manufacturer provided heater kits listed in the following table is recommended for all auxiliary heating requirements.

Air Handler Model RH2T	Heater Kit Model	Heater kW	PH/HZ	No. Elements kW Per Element	Circuit	Circuit Amps.	Motor Ampacity	Minimum Circuit Ampacity	Maximum Circuit Protection
21MEAC	RXBH-1724?03J	2.2/3	1/60	1 - 3	SINGLE	10.8/12.5	6	21/24	25/25
	RXBH-1724?05J	3.6/4.8	1/60	1 - 4.8	SINGLE	17.3/20	6	30/33	30/35
	RXBH-1724?07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26/30	6	40/45	40/45
	RXBH-1724?10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40	6	51/58	60/60
	RXBH-1724A10C	7.2/9.6	3/60	3 - 3.2	SINGLE	20/23.1	6	33/37	35/40
	RXBH-1724A13J	9.4/12.5	1/60	3 - 4.17	SINGLE	45.1/52.1	6	64/73	70/80
		3.1/4.2	1/60	1 - 4.17	MULTIPLE CKT 1	15/17.4	6	27/30	30/30
		6.3/8.3	1/60	2 - 4.17	MULTIPLE CKT 2	30.1/34.7	0	38/44	40/45
	RXBH-1724A15C	10.8/14.4	3/60	3 - 4.8	SINGLE	30/34.6	6	45/51	45/60
	RXBH-1724A15J	10.8/14.4	1/60	3 - 4.8	SINGLE	51.9/60	6	73/83	80/90
		3.6/4.8	1/60	1 - 4.8	MULTIPLE CKT 1	17.3/20	6	30/33	30/35
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40	0	44/50	45/50
	RXBH-1724A18J	12.8/17	1/60	3 - 5.67	SINGLE	61.6/70.8	6	85/97	90/100
		4.3/5.7	1/60	1 - 5.67	MULTIPLE CKT 1	20.5/23.6	6	34/38	35/40
		8.5/11.3	1/60	2 - 5.67	MULTIPLE CKT 2	41.1/47.2	0	52/60	60/60
	RXBH-24A20C	14.4/19.2	3/60	6 - 3.2	SINGLE	40/46.2	6	58/66	60/70
		7.2/9.6	3/60	3 - 3.2	MULTIPLE CKT 1	20/23.1	6	33/37	35/40
		7.2/9.6	3/60	3 - 3.2	MULTIPLE CKT 2	20/23.1	0	25/29	25/30
	RXBH-24A20J	14.4/19.2	1/60	4 - 4.8	SINGLE	69.2/80	6	94/108	100/110
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 1	34.6/40	6	51/58	60/60
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40	0	44/50	45/50
	RXBH-24A25C	18/24	3/60	6 - 4	SINGLE	50/57.8	6	70/80	70/80
		9/12	3/60	3 - 4	MULTIPLE CKT 1	25/28.9	6	39/44	40/45
		9/12	3/60	3 - 4	MULTIPLE CKT 2	25/28.9	0	32/37	35/40
	RXBH-24A25J	18/24	1/60	6 - 4	SINGLE	86.4/99.9	6	116/133	125/150
		6/8	1/60	2 - 4	MULTIPLE CKT 1	28.8/33.3	6	44/50	45/50
		6/8	1/60	2 - 4	MULTIPLE CKT 2	28.8/33.3	0	37/42	40/45
		6/8	1/60	2 - 4	MULTIPLE CKT 3	28.8/33.3	0	37/42	40/45

NOTES:

*** Values only. No single point kit available.**

- **Electric heater BTUH - (heater watts + motor watts) x 3.414 (see airflow table for motor watts.)**
- **Supply circuit protective devices may be fuses or "HACR" type circuit breakers.**
- **Largest motor load is included in single circuit and multiple circuit 1.**
- **If non-standard fuse size is specified, use next size larger fuse size.**
- **J Voltage (230V) single phase air handler is designed to be used with single or three phase 230 volt electric heaters. In the case of connecting 3-phase power to the air handler terminal block without the heater, bring only two leads to the terminal block. Cap, insulate and fully secure the third lead.**
- **If the kit is listed under both single and multiple circuits, the kit is shipped from factory as multiple circuits. For single phase application, Jumper bar kit RXBJ-A21 and RXBJ-A31 can be used to convert multiple circuits to a single supply circuit. Refer to Accessory Section for details.**
- **The airflow for continuous fan is set 50% of the cooling airflow.**
- **?Heater kits connection type. A=Breaker B=Terminal Block C=Disconnect Pull Out**

[ ] Designates Metric Conversions

Electrical Data – With Electric Heat RH2T (Cont.)

Installation of the U.L. Listed original equipment manufacturer provided heater kits listed in the following table is recommended for all auxiliary heating requirements.

Air Handler Model RH2T	Heater Kit Model	Heater kW	PH/HZ	No. Elements kW Per Element	Circuit	Circuit Amps.	Motor Ampacity	Minimum Circuit Ampacity	Maximum Circuit Protection
6024MEAC	RXBH-1724?07J	5.4/7.2	1/60	2 - 3.6	SINGLE	26/30	6	40/45	40/45
	RXBH-1724?10J	7.2/9.6	1/60	2 - 4.8	SINGLE	34.6/40	6	51/58	60/60
	RXBH-1724A10C	7.2/9.6	3/60	3 - 3.2	SINGLE	20/23.1	6	33/37	35/40
	RXBH-1724A15C	10.8/14.4	3/60	3 - 4.8	SINGLE	30/34.6	6	45/51	45/60
	RXBH-1724A15J	10.8/14.4	1/60	3 - 4.8	SINGLE	51.9/60	6	73/83	80/90
		3.6/4.8	1/60	1 - 4.8	MULTIPLE CKT 1	17.3/20	6	30/33	30/35
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40	0	44/50	45/50
	RXBH-1724A18J	12.8/17	1/60	3 - 5.67	SINGLE	61.6/70.8	6	85/97	90/100
		4.3/5.7	1/60	1 - 5.67	MULTIPLE CKT 1	20.5/23.6	6	34/38	35/40
		8.5/11.3	1/60	2 - 5.67	MULTIPLE CKT 2	41.1/47.2	0	52/60	60/60
	RXBH-24A20C	14.4/19.2	3/60	6 - 3.2	SINGLE	40/46.2	6	58/66	60/70
		7.2/9.6	3/60	3 - 3.2	MULTIPLE CKT 1	20/23.1	6	33/37	35/40
		7.2/9.6	3/60	3 - 3.2	MULTIPLE CKT 2	20/23.1	0	25/29	25/30
	RXBH-24A20J	14.4/19.2	1/60	4 - 4.8	SINGLE	69.2/80	6	94/108	100/110
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 1	34.6/40	6	51/58	60/60
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40	0	44/50	45/50
	RXBH-24A25C	18/24	3/60	6 - 4	SINGLE	50/57.8	6	70/80	70/80
		9/12	3/60	3 - 4	MULTIPLE CKT 1	25/28.9	6	39/44	40/45
		9/12	3/60	3 - 4	MULTIPLE CKT 2	25/28.9	0	32/37	35/40
	RXBH-24A25J	18/24	1/60	6 - 4	SINGLE	86.4/99.9	6	116/133	125/150
		6/8	1/60	2 - 4	MULTIPLE CKT 1	28.8/33.3	6	44/50	45/50
		6/8	1/60	2 - 4	MULTIPLE CKT 2	28.8/33.3	0	37/42	40/45
		6/8	1/60	2 - 4	MULTIPLE CKT 3	28.8/33.3	0	37/42	40/45
	RXBH-24A30C	21.6/28.8	3/60	6 - 4.8	SINGLE	60/69.4	6	83/95	90/100
		10.8/14.4	3/60	3 - 4.8	MULTIPLE CKT 1	30/34.7	6	45/51	45/60
		10.8/14.4	3/60	3 - 4.8	MULTIPLE CKT 2	30/34.7	0	38/44	40/45
	RXBH-24A30J	21.6/28.8	1/60	6 - 4.8	SINGLE	103.8/120	6	138/158	150/175
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 1	34.6/40	6	51/58	60/60
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 2	34.6/40	0	44/50	45/50
		7.2/9.6	1/60	2 - 4.8	MULTIPLE CKT 3	34.6/40	0	44/50	45/50

NOTES:

*** Values only. No single point kit available.**

- **Electric heater BTUH - (heater watts + motor watts) x 3.414 (see airflow table for motor watts.)**
- **Supply circuit protective devices may be fuses or "HACR" type circuit breakers.**
- **Largest motor load is included in single circuit and multiple circuit 1.**
- **If non-standard fuse size is specified, use next size larger fuse size.**
- **J Voltage (230V) single phase air handler is designed to be used with single or three phase 230 volt electric heaters. In the case of connecting 3-phase power to the air handler terminal block without the heater, bring only two leads to the terminal block. Cap, insulate and fully secure the third lead.**
- **If the kit is listed under both single and multiple circuits, the kit is shipped from factory as multiple circuits. For single phase application, Jumper bar kit RXBJ-A21 and RXBJ-A31 can be used to convert multiple circuits to a single supply circuit. Refer to Accessory Section for details.**
- **The airflow for continuous fan is set 50% of the cooling airflow.**
- **?Heater kits connection type. A=Breaker B=Terminal Block C=Disconnect Pull Out**

[ ] Designates Metric Conversions

Electrical Wiring

Power Wiring

- Field wiring must comply with the National Electrical Code (C.E.C. in Canada) and any applicable local ordinance.
- Supply wiring must be 75°C minimum copper conductors only.
- See electrical data for product Ampacity rating and Circuit Protector requirement.

Grounding

- This product must be sufficiently grounded in accordance with National Electrical Code (C.E.C. in Canada) and any applicable local ordinance.
- A grounding lug is provided.

Accessories

- **Combustible Floor Base RXHB-**

Model Cabinet Size	Combustible Floor Base Model Number
17	RXHB-17
21	RXHB-21
24	RXHB-24

- **Jumper Bar Kit 3 Ckt. to 1 Ckt. RXBJ-A31** is used to convert single phase multiple three circuit units to a single supply circuit. Kit includes cover and screw for line side terminals.
- **Jumper Bar Kit 2 Ckt. to 1 Ckt. RXBJ-A21** is used to convert single phase multiple two circuit units to a single supply circuit. Kit includes cover and screw for line side terminals.
- **Note:** No jumper bar kit is available to convert three phase multiple two circuit units to a single supply circuit.

- **Auxiliary Horizontal Overflow Pan Accessory RXBM-**

Nominal Cooling Capacity-Tons	Auxiliary Horizontal Overflow Pan Accessory Model Number
2 - 3	RXBM-AC48
4 - 5	RXBM-AC61

- **Supply and Return Air Sensor Kit RXHT-A02**
  The RXHT-A02 Thermistor Kit is to be used with the air handler control to monitor the system return and leaving air temperatures. These temperatures can be monitored with the EccoNet communicating thermostat.

[ ] Designates Metric Conversions

- **Auxiliary Electric Heater Kits RXBH-**
  Heater Kits include circuit breakers which meet UL and cUL requirements for service disconnect. See the Electric Heat Electrical Data in this specification sheet for specific Heater Kit Model numbers.

- **External Filter Base RXHF-**

Model Cabinet Size	Filter Size In. [mm]	Part Number*	A	B
21	20 x 20 [508 x 508]	RXHF-21	19.20	21.0
24	25 x 20 [635 x 508]	RXHF-24	22.70	25.5

*Accommodates 1" or 2" filter

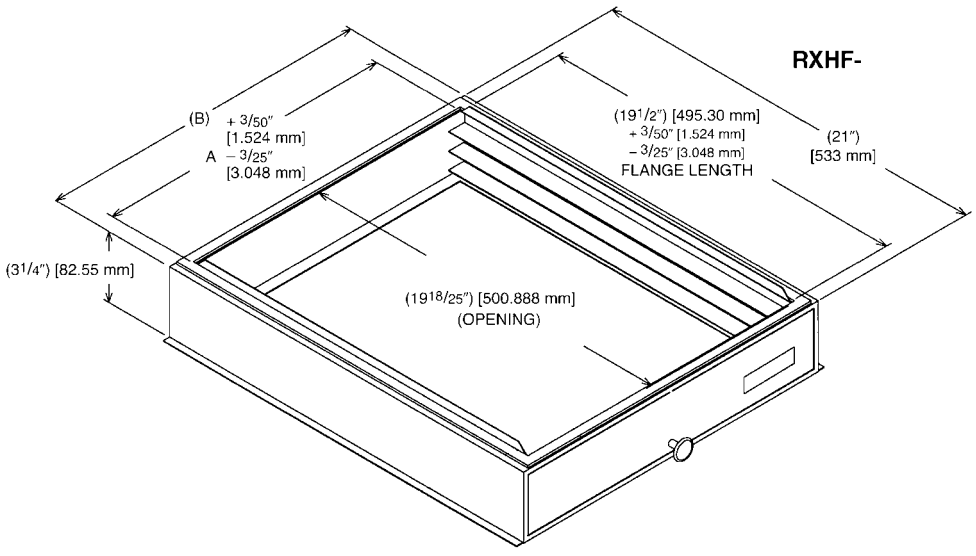
- **Horizontal Adapter Kit RXHH-**
  This horizontal adapter kit is used to convert Upflow/Downflow only models to horizontal flow. See the following table to order proper horizontal adapter kit.

Coil Model	Horizontal Adapter Kit Model Number (Single Qty.)	Horizontal Adapter Kit Model Number (10-Pack Qty.)
2414	RXHH-A01	RXHH-A01 x 10
2417	RXHH-A02	RXHH-A02 x 10
2421/3617/3621	RXHH-A03	RXHH-A03 x 10
4821/4824/6021	RXHH-A06	RXHH-A06 x 10
6024	RXHH-A05	RXHH-A05 x 10

- **External Filter Base RXHF-**

Model Cabinet Size	Filter Size In. [mm]	Part Number*	A	B
17	16 x 20 [406 x 508]	RXHF-17	15.70	17.5
21	20 x 20 [508 x 508]	RXHF-21	19.20	21.0
24	25 x 20 [635 x 508]	RXHF-24	22.70	25.5

*Accommodates 1" or 2" filter



GENERAL TERMS OF LIMITED WARRANTY*

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

Conditional Parts (Registration Required) .....Ten (10) Years

***For complete details of the Limited and Conditional Warranties, including applicable terms and conditions, contact your local contractor or the Manufacturer for a copy of the product warranty certificate.**

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

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