



# MODEL: SH1V/SH2V High Efficiency Air Handlers

FORM NO. HRR-554



## Russell™ By Rheem SH1V/SH2V High Efficiency Air Handlers

- **ECM Motor**
- **Efficiencies up to 16 SEER**



- **Includes An Energy Efficient ECM® Motor**, which in most applications, enhances the SEER rating of the outdoor unit. It also slowly ramps its speed up for quiet operation and enhanced customer satisfaction.
- **Versatile 4-Way Convertible Design** for upflow, downflow, horizontal left and horizontal right applications.
- Nominal airflow up to 1.0" external static pressure.
- **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.
- **Dip Switch Wettings** for selectable, customized cooling airflow over a wide variety of applications.
- **On-Demand Dehumidification Terminal** that adjusts airflow to help control humidity for unsurpassed comfort in cooling mode.
- **External Filter** required.
- **Evaporator Coil** is constructed of aluminum fins bonded to internally grooved aluminum tubing.
- **Cabinet Air Leakage Less Than 2%** at 1 inch H<sub>2</sub>O when tested in accordance with ASHRAE standard 193

## TABLE OF CONTENTS

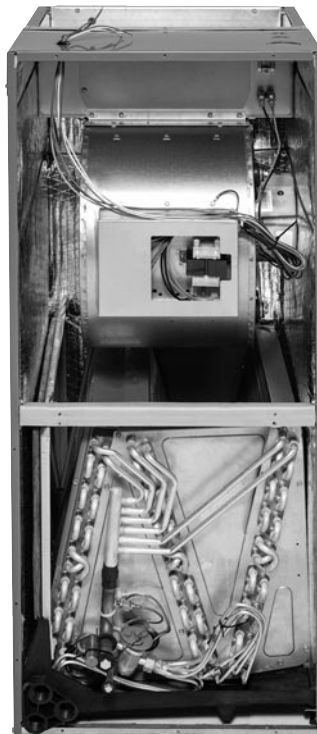
Engineering Features .....	3
Model Number Identification .....	4
Dimensional Data .....	5-6
Airflow Directional Data .....	7
Airflow Performance Data SH1V .....	8-9
Electrical Data SH1V .....	10-12
Airflow Performance Data SH2V .....	13-14
Electrical Data SH2V .....	15-16
Electrical Wiring .....	17
Limited Warranty .....	18

## Engineering Features

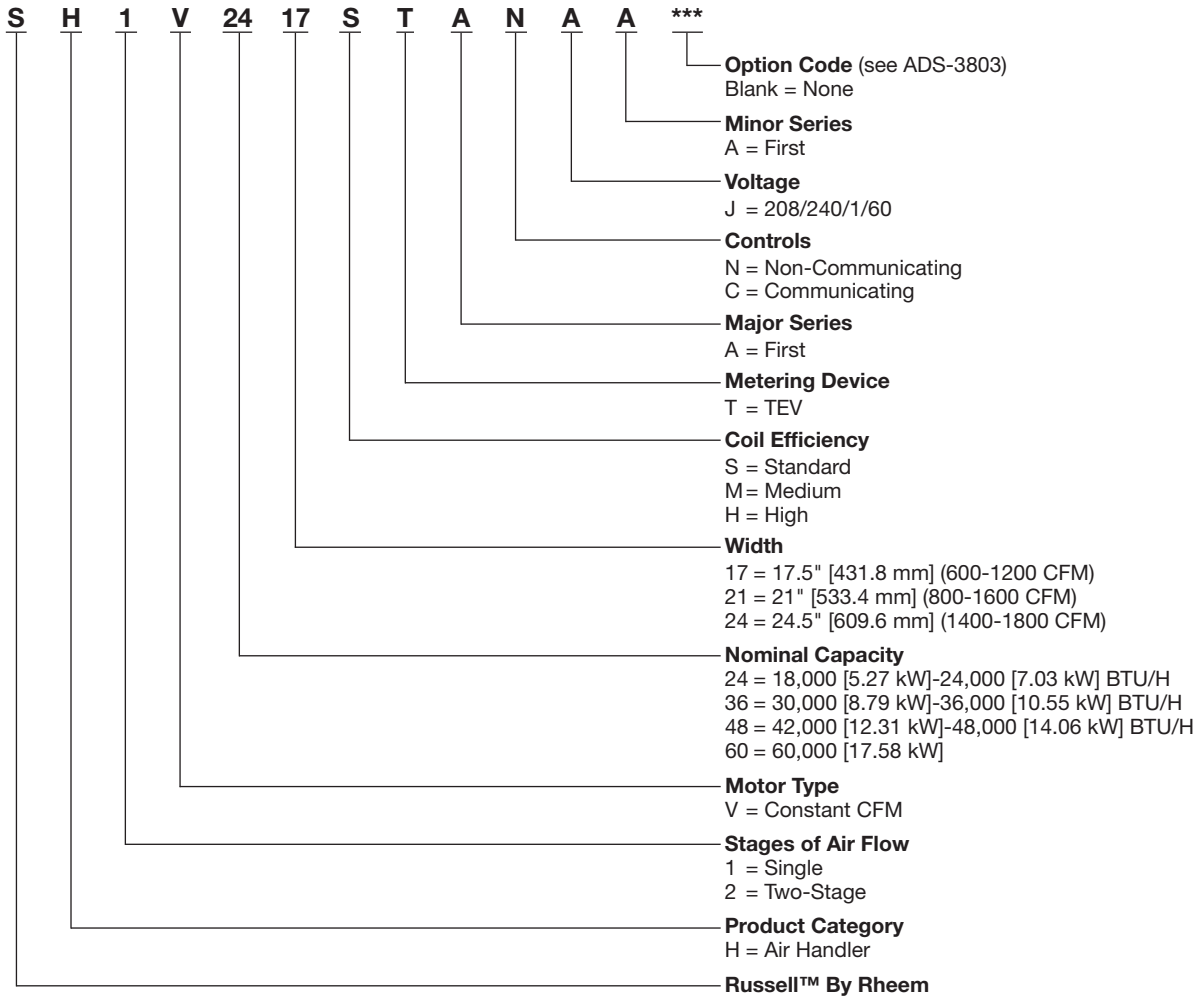
### SH1V/SH2V

- Quiet, efficient ECM motor technology providing nominal airflow up to 1.0 inch [25 kPa] of external static pressure.
- Interface board with dip switches conveniently located in the blower compartment allows for precise, field selectable airflow to meet the requirements of particular applications.
- Selectable continuous fan “on” options.
- The most compact unit design available.
- Attractive pre-painted cabinet exterior.
- Rugged steel cabinet construction, designed for added strength and versatility.
- 1.0" foil faced insulation mechanically retained in blower compartment.
- Four leg rubber insulated motor mount.
- Field-installed auxiliary heater kit includes circuit breakers that meet UL and cUL requirements as a service disconnect switch.
- Blower housing with integrated controls, motor and blower. Slide out design for service and maintenance convenience.
- Field convertible for vertical upflow, vertical downflow, horizontal left hand or right hand air supply.
- Combustible floor base accessory available when required for downflow installations on combustible floors.
- Indoor coil design provides low air side pressure drop, high performance and extremely compact size. All coils come with PVC condensate elbow standard.
- 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 1½ inch [38 mm] conduit.
- Front refrigerant and drain connections.

[ ] Designates Metric Conversions



# Russell™ By Rheem | SH1V/SH2V Air Handlers



[ ] Designates Metric Conversion

<b>Available Models</b>
SH1V2417STANJA
SH1V3617STANJA
SH1V3621MTANJA
SH1V3621HTANJA
SH1V4821STANJA
SH1V4821MTANJA
SH1V4824STANJA
SH1V6021STANJA
SH1V6024STANJA
SH2V2417STANJA
SH2V2421MTANJA
SH2V3621MTANJA
SH2V4821MTANJA
SH2V6024STANJA

## Unit Dimensions

ELECTRICAL CONNECTIONS  
MAY EXIT TOP OR EITHER SIDE  
HIGH VOLTAGE CONNECTION 7/8" [22.2 mm],  
1 3/32" [27.8 mm], 1 1/2" [50 mm] DIA. KNOCKOUTS.

LOW VOLTAGE CONNECTION  
3/8" [15.9 mm] AND 7/8" [22.2 mm] KNOCKOUT

AUXILIARY DRAIN CONNECTION  
3/4" [19.1 mm] FEMALE PIPE THREAD (NPT)  
HORIZONTAL APPLICATION ONLY

PRIMARY DRAIN CONNECTION  
3/4" [19.1 mm] FEMALE PIPE THREAD (NPT)

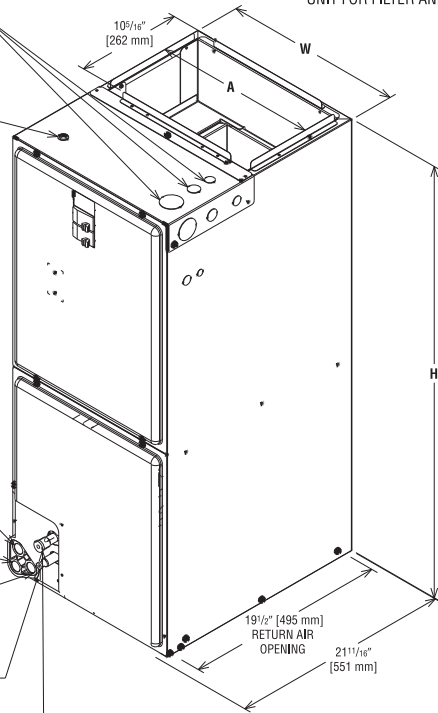
AUXILIARY DRAIN CONNECTION  
3/4" [19.1 mm] FEMALE PIPE THREAD (NPT)  
UPFLOW/DOWNFLOW APPLICATION ONLY

LIQUID LINE CONNECTION  
COPPER (SWEAT)

VAPOR LINE CONNECTION  
COPPER (SWEAT)

SUPPLY AIR ↑

NOTE: 24" CLEARANCE REQUIRED IN FRONT OF  
UNIT FOR FILTER AND COIL MAINTENANCE.



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

## 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

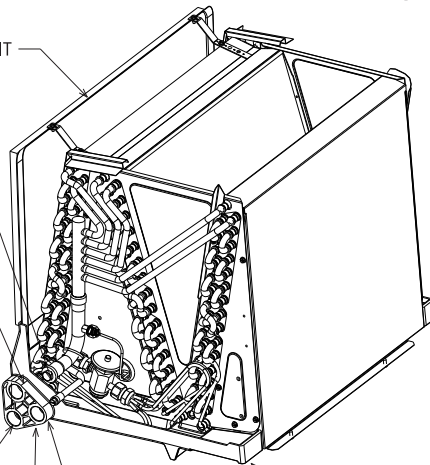
HORIZONTAL ADAPTER KIT

VAPOR LINE CONNECTION

AUXILIARY HORIZONTAL DRAIN CONNECTION

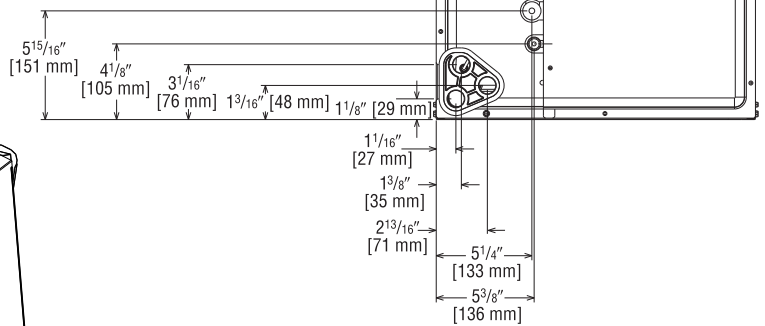
PRIMARY DRAIN CONNECTION

AUXILIARY UPFLOW/DOWNFLOW DRAIN CONNECTION



LIQUID LINE CONNECTION

VERTICAL DRAIN PAN



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

[ ] Designates Metric Conversions

( ) Designates Unit with Double Coil Cabinet

## Unit Dimensions & Weights

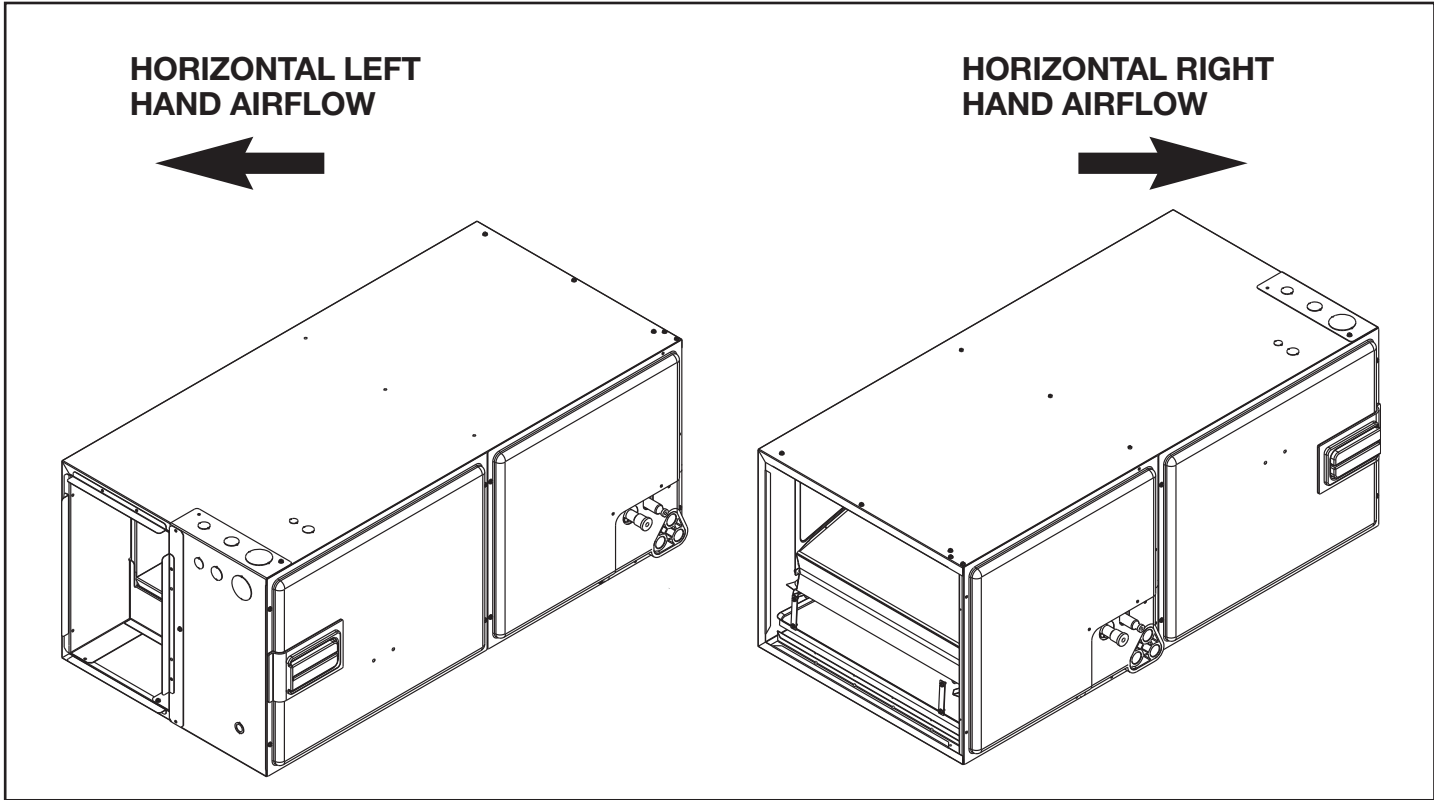
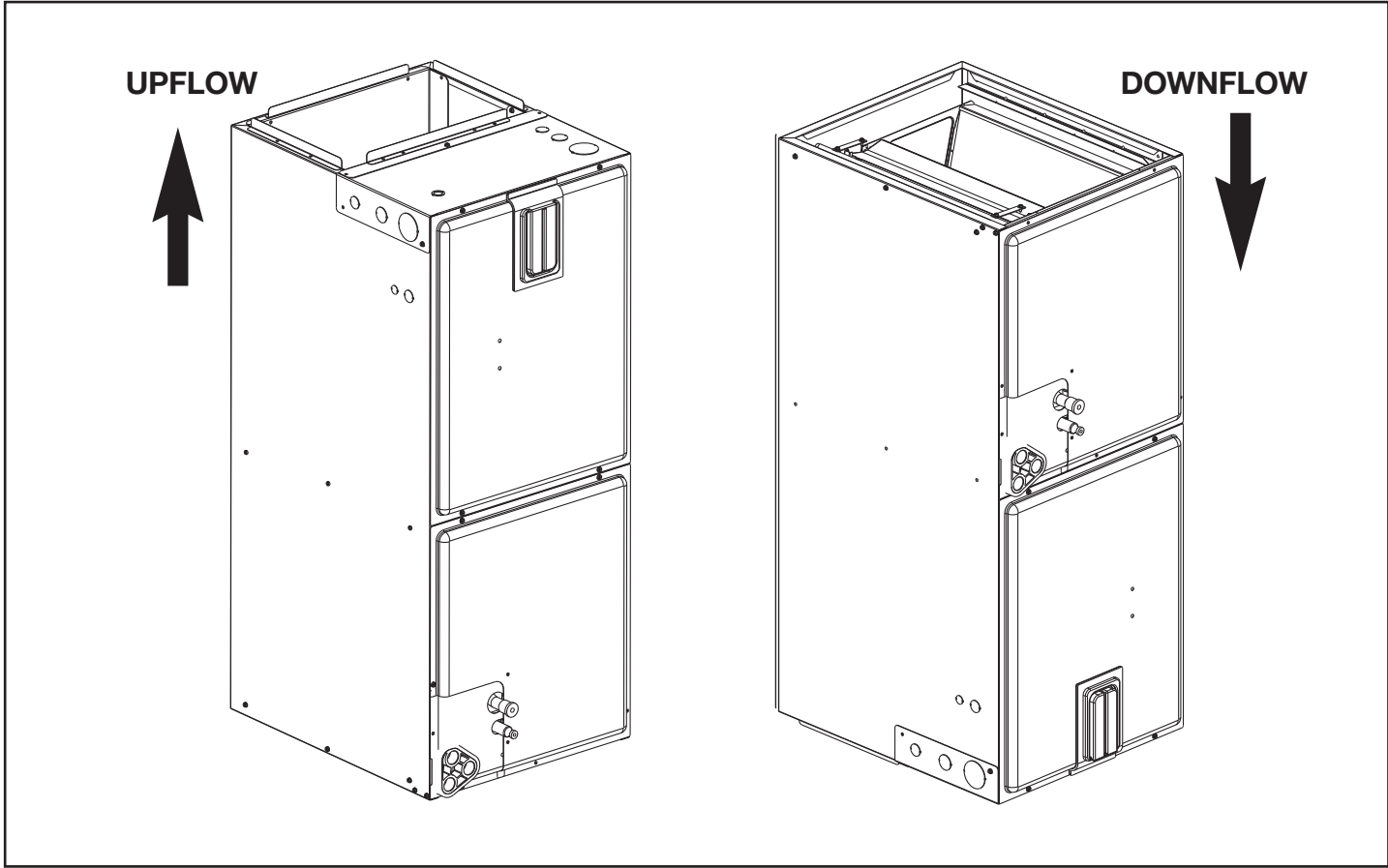
Model Size SH1V	Refrigerant Connections Sweat (In.) [mm] ID		Unit Width "W" In. [mm]	Unit Height "H" In. [mm]	Supply Duct "A" In. [mm]	Air Flow Coil (Nom.) [L/s]		Unit Weight/Shipping Weight (Lbs.) [kg]
	Liquid	Vapor				Lo	Hi	Unit With Coil (Max. KW)
2417ST	3/8 [9.53]	3/4 [19.05]	17 1/2 [445]	42 1/2 [1080]	16 [406]	600 [283]	800 [378]	82/96 [37/44]
3617ST	3/8 [9.53]	3/4 [19.05]	17 1/2 [445]	42 1/2 [1080]	16 [406]	1000 [472]	1200 [566]	90/104 [41/47]
3621HT	3/8 [9.53]	7/8 [22.23]	21 [533]	57 [1448]	19 1/2 [495]	1000 [472]	1200 [566]	135/147 [61/67]
3621MT	3/8 [9.53]	7/8 [22.23]	21 [533]	50 1/2 [1282]	19 1/2 [495]	1000 [472]	1200 [566]	126/142 [57/64]
4821MT	3/8 [9.53]	7/8 [22.23]	21 [533]	57 [1448]	19 1/2 [495]	1400 [661]	1600 [755]	141/153 [64/69]
4821ST	3/8 [9.53]	7/8 [22.23]	21 [533]	50 1/2 [1282]	19 1/2 [495]	1400 [661]	1600 [755]	130/146 [59/66]
4824ST	3/8 [9.53]	7/8 [22.23]	24 1/2 [622]	55 1/2 [1410]	23 [584]	1600 [755]	—	142/160 [64/72]
6021ST	3/8 [9.53]	7/8 [22.23]	21 [533]	57 [1448]	19 1/2 [495]	1600 [755]	1725 [814]	136/148 [62/67]
6024ST	3/8 [9.53]	7/8 [22.23]	24 1/2 [622]	55 1/2 [1410]	23 [584]	—	1800 [850]	162/179 [73/81]

Model Size (-)H2V	Unit Width "W" In. [mm]	Unit Height "H" In. [mm]	Supply Duct "A" In. [mm]	Matched to Outdoor Unit	Nominal Coil Airflow [L/s]				Unit Weight/Shipping Weight (Lbs.) [kg]
					1st Stage		2nd Stage		Unit With Coil (Max. KW)
					ODD*	Normal	ODD*	Normal	
2417ST	17 1/2 [445]	42 1/2 [1080]	16 [409]	(-)A1724	600 [283]	630 [297]	800 [378]	825 [389]	82/96 [37/44]
2621MT	21 [533]	42 1/2 [1080]	19 1/2 [495]	(-)P1624	600 [283]	630 [297]	800 [378]	825 [389]	111/126 [50/57]
3621MT	21 [533]	50 1/2 [1282]	19 1/2 [495]	(-)P1636	800 [378]	825 [389]	1180 [557]	1200 [566]	135/147 [61/67]
4821MT	21 [533]	57 [1410]	19 1/2 [495]	(-)P1648	1200 [566]	1230 [580]	1600 [755]	1635 [771]	141/153 [64/69]
6024ST	24 1/2 [622]	55 1/2 [1410]	23 [584]	(-)P1660	1330 [627]	1350 [637]	1700 [802]	1730 [816]	159/176 [72/80]

\*Maximum dehumidification airflow.

[ ] 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 Performance and Electrical Data SH1V

Model No. SH1V	Nominal Cooling Capacity Tons	Motor Speed From Factory	Nominal Air-Flow CFM	Blower Size/ Motor HP [W]	CFM Air Delivery/RPM/Watts—230 Volts (No Filter)										
					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]	0.8 [.20]	0.9 [.22]	1.0 [.24]	
2417ST No Heater	1.5 Ton	High	600*	10x8 1/3 [249] 5 Speed	CFM [L/s]	597 [282]	608 [287]	607 [286]	616 [291]	616 [291]	618 [292]	613 [289]	608 [287]	600 [283]	594 [280]
					RPM	522	609	673	757	815	869	938	995	1051	1097
					Watts	57	74	89	115	130	144	169	190	212	232
2417ST with 13 kW Heat	1.5 Ton	High	600*	10x8 1/3 [249] 5 Speed	CFM [L/s]	588 [278]	598 [282]	596 [281]	605 [286]	603 [285]	605 [286]	600 [283]	595 [281]	587 [277]	577 [272]
					RPM	536	608	723	805	864	919	989	1047	1104	1149
					Watts	65	85	100	129	145	160	186	209	233	254
2417ST No Heat	2.0 Ton	High	800	10x8 1/3 [249] 5 Speed	CFM [L/s]	787 [371]	805 [380]	815 [385]	819 [387]	810 [382]	807 [381]	811 [383]	810 [382]	809 [382]	805 [380]
					RPM	614	682	763	818	868	917	972	1017	1070	1112
					Watts	97	113	144	167	191	209	239	259	289	311
2417ST with 13 kW Heat	2.0 Ton	High	800	10x8 1/3 [249] 5 Speed	CFM [L/s]	775 [366]	793 [374]	803 [379]	807 [381]	798 [377]	795 [375]	799 [377]	798 [377]	797 [376]	793 [374]
					RPM	630	700	783	839	891	941	997	1044	1098	1141
					Watts	111	130	165	192	219	240	275	298	332	357
3617ST No Heat	2.5 Ton	High	1000*	10x8 1/2 [373]	CFM [L/s]	1001 [472]	1030 [486]	1030 [486]	1035 [488]	1035 [488]	1029 [486]	1029 [486]	1029 [486]	1029 [486]	1023 [483]
					RPM	652	752	812	845	923	945	1007	1065	1090	1118
					Watts	134	166	193	212	244	266	280	320	341	357
3617ST with 18 kW Heat	2.5 Ton	High	1000*	10x8 1/2 [373]	CFM [L/s]	980 [463]	1009 [476]	1009 [476]	1014 [479]	1014 [479]	1008 [476]	1008 [476]	1008 [476]	1008 [476]	1002 [473]
					RPM	714	814	874	907	985	1007	1069	1127	1152	1180
					Watts	176	208	235	254	286	308	322	362	383	399
3617ST No Heat	3.0 Ton	High	1200	10x8 1/2 [373]	CFM [L/s]	1220 [576]	1229 [580]	1229 [580]	1229 [580]	1229 [580]	1229 [580]	1238 [584]	1238 [584]	1233 [582]	1228 [580]
					RPM	732	831	875	930	981	1005	1077	1108	1156	1194
					Watts	215	253	282	314	348	362	409	426	472	496
3617ST with 18 kW Heat	3.0 Ton	High	1200	10x8 1/2 [373]	CFM [L/s]	1199 [566]	1208 [570]	1208 [570]	1208 [570]	1208 [570]	1208 [570]	1217 [574]	1217 [574]	1212 [572]	1207 [570]
					RPM	794	893	937	992	1043	1067	1139	1170	1218	1256
					Watts	257	295	324	356	390	404	451	468	514	538
3621HT No Heat	2.5 Ton	High	1000	10x10 3/4 [559]	CFM [L/s]	1001 [472]	1001 [472]	1011 [477]	1009 [476]	1005 [474]	1000 [472]	996 [470]	994 [496]	970 [458]	967 [456]
					RPM	620	694	767	830	888	941	1004	1048	1128	1179
					Watts	128	122	195	217	229	270	289	302	380	388
3621HT No Heat	3.0 Ton	High	1200	10x10 3/4 [559]	CFM [L/s]	1175 [555]	1200 [566]	1203 [568]	1200 [566]	1200 [566]	1199 [566]	1202 [567]	1200 [566]	1197 [565]	1180 [557]
					RPM	664	740	805	868	926	982	1031	1087	1138	1196
					Watts	163	191	226	239	261	292	322	373	420	472
3621MT No Heat	2.5 Ton	High	1000	10x10 3/4 [559]	CFM [L/s]	1000 [472]	1001 [472]	1011 [477]	1009 [476]	1005 [474]	1000 [472]	996 [470]	994 [496]	970 [458]	967 [456]
					RPM	593	650	737	801	867	914	980	1026	1058	1099
					Watts	103	124	155	177	207	224	258	287	301	323
3621MT with 15 kW Heat	2.5 Ton	High	1000	10x10 3/4 [559]	CFM [L/s]	984 [464]	979 [462]	984 [464]	976 [461]	967 [456]	956 [451]	947 [447]	939 [443]	910 [429]	901 [425]
					RPM	627	689	780	849	919	971	1041	1092	1128	1174
					Watts	124	151	187	215	250	273	312	347	366	394
3621MT No Heat	3.0 Ton	High	1200	10x10 3/4 [559]	CFM [L/s]	1175 [555]	1200 [566]	1203 [568]	1200 [566]	1200 [566]	1199 [566]	1202 [567]	1200 [566]	1197 [565]	1180 [557]
					RPM	646	740	783	851	911	958	1013	1056	1102	1144
					Watts	147	186	207	240	270	296	334	356	385	416
3621MT with 18 kW Heat	3.0 Ton	High	1200	10x10 3/4 [559]	CFM [L/s]	1159 [546]	1178 [556]	1176 [555]	1167 [551]	1162 [548]	1155 [545]	1153 [544]	1145 [540]	1137 [537]	1114 [526]
					RPM	680	779	826	899	963	1015	1074	1122	1172	1219
					Watts	168	213	239	278	313	345	388	416	450	487

WARNING: Observe airflow operating limits. Do not operate above 1.0 in. W.C. system external static.

\*The airflow for continuous fan is set at 50% of the cooling airflow.

[ ] Designates Metric Conversions



### Airflow Performance and Electrical Data (Cont.) SH1V

Model No. SH1V	Nominal Cooling Capacity Tons	Motor Speed From Factory	Nominal Air-Flow CFM	Blower Size/ Motor HP [W]	CFM Air Delivery/RPM/Watts—230 Volts (No Filter)										
					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]	0.8 [.20]	0.9 [.22]	1.0 [.24]	
4821MT No Heat	3.5 Ton	High	1400	10x10 3/4 [559]	CFM [L/s]	1393 [643]	1405 [663]	1410 [665]	1419 [670]	1422 [671]	1422 [671]	1419[670]	1416 [668]	1407 [664]	1406 [664]
					RPM	769	830	886	958	1014	1069	1118	1152	1204	1232
					Watts	247	266	296	347	369	408	463	492	521	552
4821MT No Heat	4 Ton	High	1600	10x10 3/4 [559]	CFM [L/s]	1590 [750]	1605 [757]	1610 [760]	1625 [772]	1628 [768]	1628 [768]	1623 [766]	1620 [765]	1613 [761]	1599 [755]
					RPM	852	917	962	1034	1081	1132	1178	1220	1258	1292
					Watts	350	382	385	419	501	537	584	599	647	689
4821ST No Heat	3.5 Ton	High	1400*	10x10 3/4 [559]	CFM [L/s]	1395 [658]	1404 [663]	1413 [667]	1413 [667]	1411 [666]	1411 [666]	1402 [662]	1391 [656]	1380 [651]	1371 [647]
					RPM	731	807	859	910	968	1016	1057	1100	1128	1158
					Watts	240	273	308	349	383	411	436	468	496	513
4821ST with 20 kW Heat	3.5 Ton	High	1400*	10x10 3/4 [559]	CFM [L/s]	1379 [651]	1382 [652]	1386 [654]	1380 [651]	1373 [648]	1367 [645]	1353 [638]	1336 [631]	1320 [622]	1305 [616]
					RPM	765	846	902	958	1020	1073	1118	1166	1198	1233
					Watts	261	300	340	387	426	460	490	528	561	584
4821ST No Heat	4.0 Ton	High	1600	10x10 3/4 [559]	CFM [L/s]	1583 [747]	1583 [747]	1583 [747]	1590 [750]	1582 [747]	1566 [739]	1572 [742]	1556 [734]	1547 [730]	1539 [726]
					RPM	826	879	933	984	1025	1067	1119	1148	1176	1219
					Watts	342	375	410	454	486	523	552	585	614	616
4821ST with 25 kW Heat	4.0 Ton	High	1600	10x10 3/4 [559]	CFM [L/s]	1567 [740]	1559 [736]	1551 [732]	1550 [732]	1534 [724]	1511 [713]	1509 [712]	1485 [700]	1468 [692]	1452 [685]
					RPM	860	919	978	1035	1082	1129	1187	1222	1255	1304
					Watts	363	403	444	495	534	577	613	653	688	697
4824ST No Heat	4.0 Ton	High	1600*	11x11 3/4 [559]	CFM [L/s]	1607 [758]	1615 [762]	1622 [765]	1630 [769]	1637 [773]	1629 [769]	1621 [765]	1614 [762]	1606 [758]	1583 [747]
					RPM	612	698	747	788	835	870	914	950	981	1018
					Watts	225	297	334	359	410	439	469	502	532	568
4824ST with 25 kW Heat	4.0 Ton	High	1600*	11x11 3/4 [559]	CFM [L/s]	1587 [749]	1589 [750]	1589 [750]	1591 [751]	1591 [751]	1577 [744]	1562 [737]	1549 [731]	1534 [724]	1505 [710]
					RPM	658	748	802	847	899	938	987	1027	1062	1104
					Watts	246	325	369	401	459	495	532	572	609	652
6021ST No Heat	4.0 & 5.0 Ton	High	1600	10x10 3/4 [559]	CFM [L/s]	1574 [742]	1585 [748]	1591 [751]	1603 [757]	1607 [758]	1606 [758]	1597 [754]	1590 [750]	1581 [746]	1571 [741]
					RPM	849	905	948	1023	1071	1109	1160	1201	1226	1267
					Watts	325	342	387	418	466	507	552	610	628	657
6021ST No Heat	5.0 Ton	High	1700	10x10 3/4 [559]	CFM [L/s]	1669 [788]	1680 [793]	1686 [796]	1702 [803]	1703 [804]	1699 [802]	1687 [796]	1686 [796]	1677 [796]	1666 [786]
					RPM	882	946	995	1059	1107	1152	1181	1230	1249	1294
					Watts	379	394	442	485	541	598	610	659	679	723
6024ST No Heat	4.0 & 5.0 Ton	High	1600*	11x11 3/4 [559]	CFM [L/s]	1607 [758]	1615 [762]	1622 [765]	1630 [769]	1637 [773]	1629 [769]	1621 [765]	1614 [762]	1606 [758]	1583 [747]
					RPM	612	698	747	788	835	870	914	950	981	1018
					Watts	225	297	334	359	410	439	469	502	532	568
6024ST with 25 kW Heat	4.0 & 5.0 Ton	High	1600*	11x11 3/4 [559]	CFM [L/s]	1587 [749]	1589 [750]	1589 [750]	1591 [751]	1591 [751]	1577 [744]	1562 [737]	1549 [731]	1534 [724]	1505 [710]
					RPM	658	748	802	847	899	938	987	1027	1063	1104
					Watts	246	325	369	401	459	495	532	572	609	652
6024ST No Heat	5.0 Ton	High	1800	11x11 3/4 [559]	CFM [L/s]	1794 [847]	1808 [853]	1808 [853]	1808 [853]	1807 [853]	1807 [853]	1807 [853]	1800 [850]	1786 [843]	1772 [836]
					RPM	676	739	787	840	871	923	950	994	1028	1050
					Watts	330	376	416	465	504	554	576	624	662	694
6024ST with 30 kW Heat	5.0 Ton	High	1800	11x11 3/4 [559]	CFM [L/s]	1756 [829]	1770 [835]	1770 [835]	1769 [835]	1769 [835]	1769 [835]	1769 [835]	1762 [832]	1748 [825]	1734 [818]
					RPM	713	778	828	884	917	971	1000	1047	1083	1107
					Watts	361	410	453	505	547	600	625	676	717	752

WARNING: Observe airflow operating limits. Do not operate above 1.0 in. W.C. system external static.

\*The airflow for continuous fan is set at 50% of the cooling airflow.

### Blower Motor Electrical Data SH1V

Model (-)H1V	Voltage	Phase	Hertz	HP	RPM	Circuit Amps	Minimum Circuit Ampacity	Maximum Overcurrent Protection
2417S	208/240	1	60	1/3	300-1100	2.2	3.0	15
3617S/3621M/3621H	208/240	1	60	1/2	300-1100	3.4	5.0	15
4821S	208/240	1	60	3/4	300-1100	4.0	5.0	15
4821M/6021S	208/240	1	60	3/4	300-1100	4.9	7.0	15
4824S/6024S	208/240	1	60	3/4	300-1100	4.4	6.0	15

[ ] Designates Metric Conversions

## Electrical Data – With Electric Heat SH1V

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 SH1V	Heater Model No.	Heater kW (208/240V) (480V)	PH/HZ	No. Elements kW Per	Type Supply Circuit Single Circuit Multiple Circuit	Heater Amps.	Motor Amps	Minimum Circuit Ampacity	Maximum Overcurrent Protection
2417S	RXBH-17203J	2.25/3.0	1/60	1-3.0	SINGLE	10.8/12.5	2.2	17/19	20/20
	RXBH-172403J	2.25/3.0	1/60	1-3.0	SINGLE	10.8/12.5	2.2	17/19	20/20
	RXBH-172405J	3.6/4.8	1/60	1-4.8	SINGLE	17.3/20.0	2.2	25/28	25/30
	RXBH-172407J	5.4/7.2	1/60	2-3.6	SINGLE	26.0/30.0	2.2	36/41	40/45
	RXBH-172410J	7.2/9.6	1/60	2-4.8	SINGLE	34.6/40.0	2.2	46/53	50/60
	RXBH-1724A13J	9.4/12.5	1/60	3-4.17	SINGLE	45.1/52.1	2.2	60/68	60/70
		3.1/4.2	1/60	1-4.17	MULTIPLE CKT 1	15.0/17.4	2.2	22/25	25/25
		6.3/8.3	1/60	2-4.17	MULTIPLE CKT 2	30.1/34.7	0	38/44	40/45
	RXBH-1724A07C	5.4/7.2	3/60	3-2.4	SINGLE	15.0/17.3	2.2	22/25	25/25
	RXBH-1724A10C	7.2/9.6	3/60	3-3.2	SINGLE	20.0/23.1	2.2	28/32	30/35
RXBH-1724A13C	9.4/12.5	3/60	3-4.17	SINGLE	26.1/30.1	2.2	36/41	40/45	
3617S	RXBH-17203J	2.25/3.0	1/60	1-3.0	SINGLE	10.8/12.5	3.4	18/20	20/20
3617S 3621M 3621H	RXBH-172403J	2.25/3.0	1/60	1-3.0	SINGLE	10.8/12.5	3.4	18/20	20/20
	RXBH-172405J	3.6/4.8	1/60	1-4.8	SINGLE	17.3/20.0	3.4	26/29	30/30
	RXBH-172407J	5.4/7.2	1/60	2-3.6	SINGLE	26.0/30.0	3.4	37/42	40/45
	RXBH-172410J	7.2/9.6	1/60	2-4.8	SINGLE	34.6/40.0	3.4	48/55	50/60
	RXBH-1724A13J	9.4/12.5	1/60	3-4.17	SINGLE	45.1/52.1	3.4	61/70	70/70
		3.1/4.2	1/60	1-4.17	MULTIPLE CKT 1	15.0/17.4	3.4	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
	RXBH-1724A15J	10.8/14.4	1/60	3-4.8	SINGLE	51.9/60.0	3.4	70/80	70/80
		3.6/4.8	1/60	1-4.8	MULTIPLE CKT 1	17.3/20.0	3.4	26/30	30/30
		7.2/9.6	1/60	2-4.8	MULTIPLE CKT 2	34.6/40.0	0	44/50	45/50
	RXBH-1724A18J	12.8/17.0	1/60	3-5.68	SINGLE	61.6/70.8	3.4	82/93	90/100
		4.3/5.7	1/60	1-5.68	MULTIPLE CKT 1	20.5/23.6	3.4	30/34	30/35
		8.5/11.3	1/60	2-5.68	MULTIPLE CKT 2	41.1/47.2	0	52/59	60/60
	RXBH-1724A07C	5.4/7.2	3/60	3-2.4	SINGLE	15.0/17.3	3.4	23/26	25/30
	RXBH-1724A10C	7.2/9.6	3/60	3-3.2	SINGLE	20.0/23.1	3.4	30/34	30/35
	RXBH-1724A13C	9.4/12.5	3/60	3-4.17	SINGLE	26.1/30.1	3.4	37/42	40/45
	RXBH-1724A15C	10.8/14.4	3/60	3-4.8	SINGLE	30.0/34.6	3.4	42/48	45/50
	RXBH-1724A18C	12.8/17.0	3/60	3-5.68	SINGLE	35.5/41.0	3.4	49/56	50/60

**NOTES:**

- 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.
- If non-standard fuse size is specified, use next size larger standard fuse size.
- Largest motor load is included in single circuit or circuit 1 of multiple circuits.
- Heater loads are balanced on 3 phase models with 3 or 6 heaters only.
- No electrical heating elements are permitted to be used with A voltage (115V) air handler.

- J voltage (208/240V) single phase air handler is designed to be used with single or three phase 208/240V volt electric heaters. In the case of connecting 3 phase power to air handler terminal block without the heater, bring only two leads to terminal block, cap, insulate and fully secure the third lead.
- Do not use 480V electrical heaters on 208/240V air handlers.
- 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.

[ ] Designates Metric Conversions

### Electrical Data – With Electric Heat SH1V (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 SH1V	Heater Model No.	Heater kW (208/240V) (480V)	PH/HZ	No. Elements kW Per	Type Supply Circuit Single Circuit Multiple Circuit	Heater Amps.	Motor Amps	Minimum Circuit Ampacity	Maximum Overcurrent Protection
4821S	RXBH-1724?05J	3.6/4.8	1/60	1-4.8	SINGLE	17.3/20.0	4.0	27/30	30/30
	RXBH-1724?07J	5.4/7.2	1/60	2-3.6	SINGLE	26.0/30.0	4.0	38/43	40/45
	RXBH-1724?10J	7.2/9.6	1/60	2-4.8	SINGLE	34.6/40.0	4.0	49/55	50/60
	RXBH-1724A15J	10.8/14.4	1/60	3-4.8	SINGLE	51.9/60.0	4.0	70/80	70/80
		3.6/4.8	1/60	1-4.8	MULTIPLE CKT 1	17.3/20.0	4.0	27/30	30/30
		7.2/9.6	1/60	2-4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
	RXBH-1724A18J	12.8/17.0	1/60	3-5.68	SINGLE	61.6/70.8	4.0	82/94	90/100
		4.3/5.7	1/60	1-5.68	MULTIPLE CKT 1	20.5/23.6	4.0	31/35	35/35
		8.5/11.3	1/60	2-5.68	MULTIPLE CKT 2	41.1/47.2	0.0	52/59	60/60
	RXBH-24A20J	14.4/19.2	1/60	4-48	SINGLE	69.2/80	4.0	92/105	100/110
		7.2/9.6	1/60	2-4.8	MULTIPLE CKT 1	34.6/40.0	4.0	49/55	50/60
		7.2/9.6	1/60	2-4.8	MULTIPLE CKT 2	34.6/40.0	0.0	44/50	45/50
	RXBH-24A25J	18.0/24.0	1/60	6-4.0	SINGLE	86.4/99.9	4.0	113/130	125/150
		6.0/8.0	1/60	2-4.0	MULTIPLE CKT 1	28.8/33.3	4.0	42/47	45/50
		6.0/8.0	1/60	2-4.0	MULTIPLE CKT 2	28.8/33.3	0.0	36/42	40/45
		6.0/8.0	1/60	2-4.0	MULTIPLE CKT 3	28.8/33.3	0.0	36/42	40/45
	RXBH-1724A07C	5.4/7.2	3/60	3-2.4	SINGLE	15.0/17.3	4.0	24/27	25/30
	RXBH-1724A10C	7.2/9.6	3/60	3-3.2	SINGLE	20.0/23.1	4.0	30/34	30/35
	RXBH-1724A15C	10.8/14.4	3/60	3-4.8	SINGLE	30.0/34.6	4.0	43/49	45/50
	RXBH-1724A18C	12.8/17.0	3/60	3-2.84	SINGLE	35.6/41.0	4.0	50/57	50/60
RXBH-24A20C*	14.4/19.2	3/60	3-3.2	SINGLE	40.0/46.2	4.0	55/63	60/70	
	7.2/9.6	3/60	3-3.2	MULTIPLE CKT 1	20.0/23.1	4.0	30/34	30/35	
	7.2/9.6	3/60	3-3.2	MULTIPLE CKT 2	20.0/23.1	0.0	25/29	25/30	
RXBH-24A25C*	18.0/24.0	3/60	6-4.0	SINGLE	50.0/57.8	4.0	68/78	70/80	
	9.0/12.0	3/60	3-4.0	MULTIPLE CKT 1	25.0/28.9	4.0	37/42	40/45	
	9.0/12.0	3/60	3-4.0	MULTIPLE CKT 2	25.0/28.9	0.0	32/37	35/40	

**NOTES:**

- 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.
- If non-standard fuse size is specified, use next size larger standard fuse size.
- Largest motor load is included in single circuit or circuit 1 of multiple circuits.
- Heater loads are balanced on 3 phase models with 3 or 6 heaters only.
- No electrical heating elements are permitted to be used with A voltage (115V) air handler.

- J voltage (208/240V) single phase air handler is designed to be used with single or three phase 208/240V volt electric heaters. In the case of connecting 3 phase power to air handler terminal block without the heater, bring only two leads to terminal block, cap, insulate and fully secure the third lead.
- Do not use 480V electrical heaters on 208/240V air handlers.
- 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.

[ ] Designates Metric Conversions

## Electrical Data – With Electric Heat SH1V (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 SH1V	Heater Model No.	Heater kW (208/240V) (480V)	PH/HZ	No. Elements kW Per	Type Supply Circuit Single Circuit Multiple Circuit	Heater Amps.	Motor Amps	Minimum Circuit Ampacity	Maximum Overcurrent Protection
4824S 6024S	RXBH-1724?05J	3.6/4.8	1/60	1-4.8	SINGLE	17.3/20.0	4.4	28/31	30/35
	RXBH-1724?07J	5.4/7.2	1/60	2-3.6	SINGLE	26.0/30.0	4.4	38/43	40/45
	RXBH-1724?10J	7.2/9.6	1/60	2-4.8	SINGLE	34.6/40.0	4.4	49/56	50/60
	RXBH-1724A15J	10.8/14.4	1/60	3-4.8	SINGLE	51.9/60.0	4.4	71/81	80/90
		3.6/4.8	1/60	1-4.8	MULTIPLE CKT 1	17.3/20.0	4.4	28/31	30/35
		7.2/9.6	1/60	2-4.8	MULTIPLE CKT 2	34.6/40.0	0	44/50	45/50
	RXBH-1724A18J	12.8/17	1/60	4-4.26	SINGLE	61.6/70.8	4.4	83/94	90/100
		6.4/8.5	1/60	2-4.26	MULTIPLE CKT 1	30.8/35.4	4.4	44/50	45/50
		6.4/8.5	1/60	2-4.26	MULTIPLE CKT 2	30.8/35.4	0	39/45	40/45
	RXBH-24A20J	14.4/19.2	1/60	4-4.8	SINGLE	69.2/80.0	4.4	93/106	100/110
		7.2/9.6	1/60	2-4.8	MULTIPLE CKT 1	34.6/40.0	4.4	49/56	50/60
		7.2/9.6	1/60	2-4.8	MULTIPLE CKT 2	34.6/40.0	0	44/50	45/50
	RXBH-24A25J	18.0/24.0	1/60	6-4.0	SINGLE	86.4/99.9	4.4	114/131	125/150
		6.0/8.0	1/60	2-4.0	MULTIPLE CKT 1	28.8/33.3	4.4	42/48	45/50
		6.0/8.0	1/60	2-4.0	MULTIPLE CKT 2	28.8/33.3	0	36/42	40/45
		6.0/8.0	1/60	2-4.0	MULTIPLE CKT 3	28.8/33.3	0	36/42	40/45
	RXBH-24A30J (6024S ONLY) (1800 CFM ONLY)	21.6/28.8	1/60	6-4.8	SINGLE	103.8/120.0	4.4	136/156	150/175
		7.2/9.6	1/60	2-4.8	MULTIPLE CKT 1	34.6/40.0	4.4	49/56	50/60
		7.2/9.6	1/60	2-4.8	MULTIPLE CKT 2	34.6/40.0	0	44/50	45/50
		7.2/9.6	1/60	2-4.8	MULTIPLE CKT 3	34.6/40.0	0	44/50	45/50
	RXBH-1724A07C	5.4/7.2	3/60	3-2.4	SINGLE	15.0/17.3	4.4	25/28	25/30
	RXBH-1724A10C	7.2/9.6	3/60	3-3.2	SINGLE	20.0/23.1	4.4	31/35	35/35
	RXBH-1724A15C	10.8/14.4	3/60	3-4.8	SINGLE	30.0/34.6	4.4	43/49	45/50
	RXBH-1724A18C	12.8/17.0	3/60	3-2.84	SINGLE	35.6/41.0	4.4	50/57	50/60
	RXBH-24A20C*	14.4/19.2	3/60	3-3.2	SINGLE	40.0/46.2	4.4	56/64	60/70
	RXBH-24A20C	7.2/9.6	3/60	3-3.2	MULTIPLE CKT 1	20.0/23.1	4.4	31/35	35/35
		7.2/9.6	3/60	3-3.2	MULTIPLE CKT 2	20.0/23.1	0	25/29	25/30
	RXBH-24A25C*	18.0/24.0	3/60	6-4.0	SINGLE	50.0/57.8	4.4	68/78	70/80
	RXBH-24A25C	9.0/12.0	3/60	3-4.0	MULTIPLE CKT 1	25.0/28.9	4.4	37/42	40/45
		9.0/12.0	3/60	3-4.0	MULTIPLE CKT 2	25.0/28.9	0	32/37	35/40
RXBH-24A30C* (1800 CFM ONLY)	21.6/28.8	3/60	6-4.8	SINGLE	60.0/69.4	4.4	81/93	90/100	
RXBH-24A30C (6024S ONLY) (1800 CFM ONLY)	10.8/14.4	3/60	3-4.8	MULTIPLE CKT 1	30.0/34.7	4.4	43/50	45/50	
	10.8/14.4	3/60	3-4.8	MULTIPLE CKT 2	30.0/34.7	0	38/44	40/45	

**NOTES:**

- 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.
- If non-standard fuse size is specified, use next size larger standard fuse size.
- Largest motor load is included in single circuit or circuit 1 of multiple circuits.
- Heater loads are balanced on 3 phase models with 3 or 6 heaters only.
- No electrical heating elements are permitted to be used with A voltage (115V) air handler.

- J voltage (208/240V) single phase air handler is designed to be used with single or three phase 208/240V volt electric heaters. In the case of connecting 3 phase power to air handler terminal block without the heater, bring only two leads to terminal block, cap, insulate and fully secure the third lead.
- Do not use 480V electrical heaters on 208/240V air handlers.
- 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.

[ ] Designates Metric Conversions

## 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 Performance Data SH2V

Model Size SH2V	Nominal Cooling Capacity Tons	Motor Speed From Factory	Nominal Airflow CFM	Blower Size Motor H.P.	CFM Air Delivery/RPM/Watts-230 Volts (No Filter)										
					External Static Pressure-Inches W.C.										
					0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	
2417ST No Heat	1.5	High	600*	10x8 1/3	CFM	597	608	607	616	616	618	613	608	600	594
					RPM	522	609	673	757	815	869	938	995	1051	1097
					Watts	57	74	89	115	130	144	169	190	212	232
2417ST with 13kW Heater	1.5	High	600*	10x8 1/3	CFM	588	598	596	605	603	605	600	595	587	577
					RPM	536	608	723	805	864	919	989	1047	1104	1149
					Watts	65	85	100	129	145	160	186	209	233	254
2417ST No Heat	2	High	800	10x8 1/3	CFM	787	805	815	819	810	807	811	810	809	805
					RPM	614	682	763	818	868	917	972	1017	1070	1112
					Watts	97	113	144	167	191	209	239	259	289	311
2417ST with 13kW Heater	2	High	800	10x8 1/3	CFM	775	793	803	807	798	795	799	798	797	793
					RPM	630	700	783	839	891	941	997	1044	1098	1141
					Watts	111	130	165	192	219	240	275	298	332	357
2421MT No Heat	1.5	High	600*	10x8 1/3	CFM	597	608	607	616	616	618	613	608	600	594
					RPM	522	609	673	757	815	869	938	995	1051	1097
					Watts	57	74	89	115	130	144	169	190	212	232

**IMPORTANT: Observe airflow operating limits. Do not operate above 1.0 in. W.C. system external static.**

\*To obtain the nominal airflow 600 CFM for 2417, 1000 CFM for 3617, 1400 CFM for 4821, and 1600 CFM for 4824/6024; the DIP switches 1 and 2 must be set for selection C or D. See Figure 25.

[ ] Designates Metric Conversions

**Airflow Performance Data SH2V (con't.)**

Model Size SH2V	Nominal Cooling Capacity Tons	Motor Speed From Factory	Nominal Airflow CFM	Blower Size Motor H.P.	CFM Air Delivery/RPM/Watts-230 Volts (No Filter)										
					External Static Pressure-Inches W.C.										
					0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	1.00	
3621MT with 15kW heat	2.5 ton	High	1000	10x10 3/4	CFM	984	979	984	976	967	956	947	939	910	901
					RPM	627	689	780	849	919	971	1041	1092	1128	1174
					Watts	124	151	187	215	250	273	312	347	366	394
3621MT No heat	3.0 ton	High	1200	10x10 3/4	CFM	1175	1200	1203	1200	1200	1199	1202	1200	1197	1180
					RPM	646	740	783	851	911	958	1013	1056	1102	1144
					Watts	147	186	207	240	270	296	334	356	385	416
3621MT with 18kW heat	3.0 ton	High	1200	10x10 3/4	CFM	1159	1178	1176	1167	1162	1155	1153	1145	1137	1114
					RPM	680	779	826	899	963	1015	1074	1122	1172	1219
					Watts	168	213	239	278	313	345	388	416	450	487
4821MT No heat	3.5 ton	High	1400	10x10 3/4 Hp	CFM	1393	1405	1410	1419	1422	1422	1419	1416	1407	1406
					RPM	769	830	886	958	1014	1069	1118	1152	1204	1232
					Watts	247	266	296	347	369	408	463	492	521	552
4821MT No heat	4	High	1600	10x10 3/4 Hp	CFM	1590	1605	1610	1625	1628	1628	1623	1620	1613	1599
					RPM	852	917	962	1034	1081	1132	1178	1220	1258	1292
					Watts	350	382	385	419	501	537	584	599	647	689
6024ST No heat	4.0 & 5.0	High	1600*	11x11 3/4	CFM	1607	1615	1622	1630	1637	1629	1621	1614	1606	1583
					RPM	612	698	747	788	835	870	914	950	981	1018
					Watts	225	297	334	359	410	439	469	502	532	568
6024ST with 25kW heat	4.0 & 5.0	High	1600*	11x11 3/4	CFM	1587	1589	1589	1591	1591	1577	1562	1549	1534	1505
					RPM	658	748	802	847	899	938	987	1027	1063	1104
					Watts	246	325	369	401	459	495	532	572	509	652
6024ST No heat	5.0	High	1800	11x11 3/4	CFM	1794	1808	1808	1808	1807	1807	1807	1800	1786	1772
					RPM	676	739	787	840	871	923	950	994	1028	1050
					Watts	330	376	416	465	504	554	576	624	662	694
6024ST with 30kW heat	5.0	High	1800	11x11 3/4	CFM	1756	1770	1770	1769	1769	1769	1769	1762	1748	1734
					RPM	713	778	828	884	917	971	1000	1047	1083	1107
					Watts	361	410	453	505	547	600	625	676	717	752

\*To obtain the nominal airflow 600 CFM for 2417, 1000 CFM for 3617, 1400 CFM for 4821, and 1600 CFM for 4824/6024; the DIP switches 1 and 2 must be set for selection C or D. See Figure 25.

### Electrical Data (-)H2V

Model (-)H2V	Voltage	Phase	Hertz	HP	RPM	Circuit Amps	Minimum Circuit Ampacity	Maximum Overcurrent Protection
2417S	208/240	1	60	1/3	300-1100	2.2	3.0	15
2421M	208/230	1	60	1/3	300-1100	1.7	3.0	15
3621M	208/230	1	60	1/2	300-1100	3.4	4.0	15
4821M/6024S	208/240	1	60	3/4	300-1100	4.9	7.0	15

## Electrical Data – With Electric Heat SH2V

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 (-)H2V	Heater Model No.	Type Supply Circuit	Heater kW (208/240V) (480V)	PH/HZ	No. Elements kW Per	Heater Amps.	Motor Amps	Minimum Circuit Ampacity	Maximum Overcurrent Protection
2417S	RXBH-17203J	SINGLE	2.25/3.0	1/60	1-3.0	10.8/12.5	2.2	17/19	20/20
	RXBH-172403J	SINGLE	2.25/3.0	1/60	1-3.0	10.8/12.5	2.2	17/19	20/20
	RXBH-172405J	SINGLE	3.6/4.8	1/60	1-4.8	17.3/20.0	2.2	25/28	25/30
	RXBH-172407J	SINGLE	5.4/7.2	1/60	2-3.6	26.0/30.0	2.2	36/41	40/45
	RXBH-172410J	SINGLE	7.2/9.6	1/60	2-4.8	34.6/40.0	2.2	46/53	50/60
	RXBH-1724A13J	SINGLE	9.4/12.5	1/60	3-4.17	45.1/52.1	2.2	60/68	60/70
		MULTIPLE CKT 1	3.1/4.2	1/60	1-4.17	15.0/17.4	2.2	22/25	25/25
		MULTIPLE CKT 2	6.3/8.3	1/60	2-4.17	30.1/34.7	0	38/44	40/45
	RXBH-1724A07C	SINGLE	5.4/7.2	3/60	3-2.4	15.0/17.3	2.2	22/25	25/25
RXBH-1724A10C	SINGLE	7.2/9.6	3/60	3-3.2	20.0/23.1	2.2	28/32	30/35	
RXBH-1724A13C	SINGLE	9.4/12.5	3/60	3-4.17	26.1/30.1	2.2	36/41	40/45	
2421M	RXBH-172403J	SINGLE	208/240	1/60	2.25/3.0	10.8/12.5	1.7	16/18	20/20
	RXBH-172405J	SINGLE	208/240	1/60	3.6/4.8	17.3/20.0	1.7	24/28	25/30
	RXBH-172407J	SINGLE	208/240	1/60	5.4/7.2	26.0/30.0	1.7	35/40	35/40
	RXBH-172410J	SINGLE	208/240	1/60	7.2/9.6	34.6/40.0	1.7	46/53	50/60
3621M	RXBH-172403J	SINGLE	208/240	1/60	2.25/3.0	10.8/12.5	3.4	18/20	20/20
	RXBH-172405J	SINGLE	208/240	1/60	3.6/4.8	17.3/20.0	3.4	26/30	30/30
	RXBH-172407J	SINGLE	208/240	1/60	5.4/7.2	26.0/30.0	3.4	37/42	40/45
	RXBH-172410J	SINGLE	208/240	1/60	7.2/9.6	34.6/40.0	3.4	48/55	50/60
	RXBH-1724A15J	SINGLE	208/240	1/60	10.8/14.4	51.9/60.0	3.4	70/80	70/80
		MULTIPLE CKT 1	208/240	1/60	3.6/4.8	17.3/20.0	3.4	26/30	30/30
		MULTIPLE CKT 2	208/240	1/60	7.2/9.6	34.6/40.0	0	44/50	45/50
	RXBH-1724A18J	SINGLE	208/240	1/60	12.8/17	61.6/70.8	3.4	82/93	90/100
		MULTIPLE CKT 1	208/240	1/60	4.3/5.7	20.5/23.6	3.4	30/34	30/35
MULTIPLE CKT 2		208/240	1/60	8.5/11.3	41.1/47.2	0	52/59	60/60	
4821M	RXBH-172405J	SINGLE	208/240	1/60	3.6/4.8	17.3/20.0	4.9	28/32	30/35
	RXBH-172407J	SINGLE	208/240	1/60	5.4/7.2	26.0/30.0	4.9	39/44	40/45
	RXBH-172410J	SINGLE	208/240	1/60	7.2/9.6	34.6/40.0	4.9	50/57	50/60
	RXBH-1724A15J	SINGLE	208/240	1/60	10.8/14.4	51.9/60.0	4.9	72/82	80/90
		MULTIPLE CKT 1	208/240	1/60	3.6/4.8	17.3/20.0	4.9	28/32	30/35
		MULTIPLE CKT 2	208/240	1/60	7.2/9.6	34.6/40.0	0	44/50	45/50
	RXBH-1724A18J	SINGLE	208/240	1/60	12.8/17	61.6/70.8	4.9	84/95	90/100
		MULTIPLE CKT 1	208/240	1/60	6.4/8.5	30.8/35.4	4.9	45/51	45/60
		MULTIPLE CKT 2	208/240	1/60	6.4/8.5	30.8/35.4	0	39/45	40/45
	RXBH-24A20J	SINGLE	208/240	1/60	14.4/19.2	69.2/80.0	4.9	93/107	100/110
		MULTIPLE CKT 1	208/240	1/60	7.2/9.6	34.6/40.0	4.9	50/57	50/60
		MULTIPLE CKT 2	208/240	1/60	7.2/9.6	34.6/40.0	0	44/50	45/50
	RXBH-24A25J	SINGLE	208/240	1/60	18.0/24.0	87.0/99.9	4.9	115/132	125/150
		MULTIPLE CKT 1	208/240	1/60	6.0/8.0	29.0/33.3	4.9	43/48	45/50
		MULTIPLE CKT 2	208/240	1/60	6.0/8.0	29.0/33.3	0	37/42	40/45
		MULTIPLE CKT 3	208/240	1/60	6.0/8.0	29.0/33.3	0	37/42	40/45

**NOTES:**

- 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.
- If non-standard fuse size is specified, use next size larger standard fuse size.
- Largest motor load is included in single circuit or circuit 1 of multiple circuits.
- Heater loads are balanced on 3 phase models with 3 or 6 heaters only.
- No electrical heating elements are permitted to be used with A voltage (115V) air handler.

- J voltage (208/240V) single phase air handler is designed to be used with single or three phase 208/240V volt electric heaters. In the case of connecting 3 phase power to air handler terminal block without the heater, bring only two leads to terminal block, cap, insulate and fully secure the third lead.
- Do not use 480V electrical heaters on 208/240V air handlers.
- 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.

[ ] Designates Metric Conversions



## Electrical Data – With Electric Heat RH2V (con't.)

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 (-)H2V	Heater Model No.	Type Supply Circuit	Heater kW (208/240V) (480V)	PH/HZ	No. Elements kW Per	Heater Amps.	Motor Amps	Minimum Circuit Ampacity	Maximum Overcurrent Protection
6021S	RXBH-1724?07J	SINGLE	208/240	1/60	5.4/7.3	26.0/30.0	4.9	39/44	40/45
	RXBH-1724?10J	SINGLE	208/240	1/60	5.4/7.2	26.0/30.0	4.9	39/44	40/45
	RXBH-1724A15J	SINGLE	208/240	1/60	10.8/14.4	51.9/60.0	4.9	72/82	80/90
		MULTIPLE CKT 1	208/240	1/60	3.6/4.8	17.3/20.0	4.9	28/32	30/35
		MULTIPLE CKT 2	208/240	1/60	7.2/9.6	34.6/40.0	0	44/50	45/50
	RXBH-1724A18J	SINGLE	208/240	1/60	12.8/17	61.6/70.8	4.9	84/95	90/100
		MULTIPLE CKT 1	208/240	1/60	6.4/8.5	30.8/35.4	4.9	45/51	45/60
		MULTIPLE CKT 2	208/240	1/60	6.4/8.5	30.8/35.4	0	39/45	40/45
	RXBH-24A20J	SINGLE	208/240	1/60	14.4/19.2	69.2/80.0	4.9	93/107	100/110
		MULTIPLE CKT 1	208/240	1/60	7.2/9.6	34.6/40.0	4.9	50/57	50/60
		MULTIPLE CKT 2	208/240	1/60	7.2/9.6	34.6/40.0	0	44/50	45/50
	RXBH-24A25J	SINGLE	208/240	1/60	18.0/24.0	87.0/99.9	4.9	115/132	125/150
		MULTIPLE CKT 1	208/240	1/60	6.0/8.0	29.0/33.3	4.9	43/48	45/50
		MULTIPLE CKT 2	208/240	1/60	6.0/8.0	29.0/33.3	0	37/42	40/45
		MULTIPLE CKT 3	208/240	1/60	6.0/8.0	29.0/33.3	0	37/42	40/45
	RXBH-24A30J	SINGLE	208/240	1/60	21.6/28.8	103.8/120.0	4.9	150/175	136/156
		MULTIPLE CKT 1	208/240	1/60	7.2/9.6	34.6/40.0	4.9	50/60	49/56
		MULTIPLE CKT 2	208/240	1/60	2-4.8	34.6/40.0	0	45/50	44/50
		MULTIPLE CKT 3	208/240	1/60	7.2/9.6	34.6/40.0	0	45/50	44/50

**NOTES:**

- 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.
- If non-standard fuse size is specified, use next size larger standard fuse size.
- Largest motor load is included in single circuit or circuit 1 of multiple circuits.
- Heater loads are balanced on 3 phase models with 3 or 6 heaters only.
- No electrical heating elements are permitted to be used with A voltage (115V) air handler.

- J voltage (208/240V) single phase air handler is designed to be used with single or three phase 208/240V volt electric heaters. In the case of connecting 3 phase power to air handler terminal block without the heater, bring only two leads to terminal block, cap, insulate and fully secure the third lead.
- Do not use 480V electrical heaters on 208/240V air handlers.
- 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.

[ ] 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.

## 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
1½ - 3	RXBM-AC48
3½ - 5	RXBM-AC61

### 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.

### • 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.

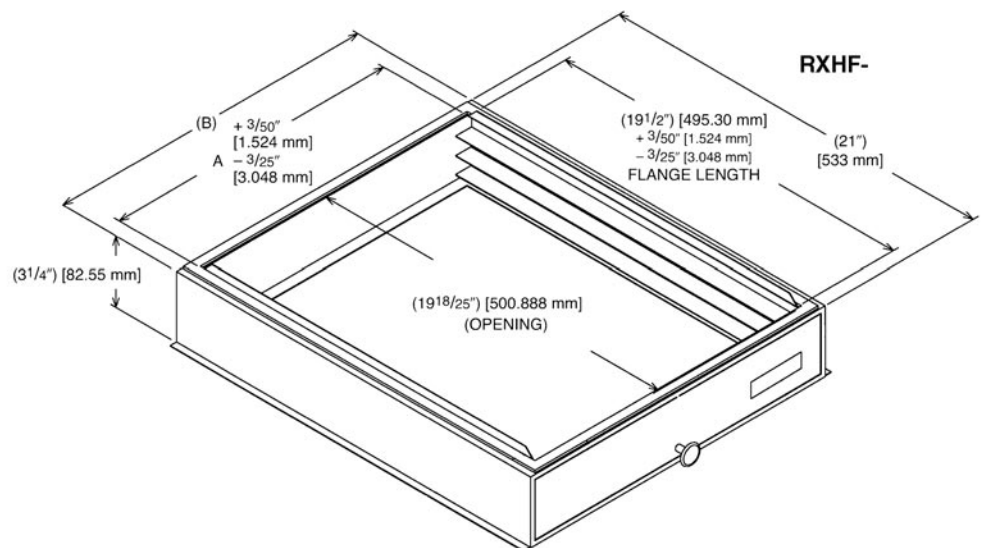
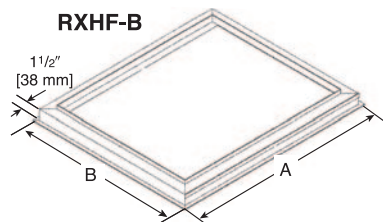
Coil Model	Horizontal Adapter Kit Model Number (Single Qty.)	Horizontal Adapter Kit Model Number (10-Pack Qty.)
2414	RXHH-A01	RXHH-A01 x 10
2417	RXHH-A02	RXHH-A02 x 10
3617/3621	RXHH-A03	RXHH-A03 x 10
3821/4821/4824	RXHH-A04	RXHH-A04 x 10
3621HT/4821MT/6021ST	RXHH-06	RXHH-06 x 10
6024	RXHH-A05	RXHH-A05 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

[ ] Designates Metric Conversions



**GENERAL TERMS OF LIMITED WARRANTY\***

Rheem® 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.**



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**Russell**<sup>™</sup> **By Rheem**

5600 Old Greenwood Road, Fort Smith, AR 72908

Before proceeding with installation, refer to installation instructions packaged with each model, as well as complying with all Federal, State, Provincial, and Local codes, regulations, and practices.

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